

2002 NEW PRODUCTS



DISTRIBUTOR LOCATIONS WORLDWIDE

RICHCO USA

Please call Customer Service (773) 539-4060, Samples (800) 621-1892, or visit www.richco-inc.com for your nearest distributor location.

EUROPE

Alldistri Handelsges. m.b.H.

Thaliastr. 120-122
A-1160 Vienna

AUSTRIA

Tel: (43) 1 4819492

Fax: (43) 1 4800305

E-mail: alldistri@magnet.at

Electrotrust Hellas

S Tsoumanis & Co OE
25 Ir Skopeftiriou Str.

161 21 Kessariani

GREECE

Tel: (30) 1 723 8503/7250314

Fax: (30) 1 725 0315

E-mail: eltrust@ath.forthnet.gr

Biotek Kft

1106 Budapest
Jászberényi út 29

HUNGARY

Tel: (36) 1 261 4733

Fax: (36) 1 260 8635

E-mail: biotek@biotek.hu

Web: www.biotek.hu

A P Haslam Ltd

Unit 14, Sunshine Industrial
Estate

Crumlin Road

Dublin 12,

IRELAND

Tel: (353) 14 532 522

Fax: (353) 14 532 949

E-mail: sales@aphaslam.ie

Quality Electronic Fasteners Ltd

Units 11A/11B
Citylink Industrial Park
Forge Hill, Kinsale Road
Cork

IRELAND

Tel: (353) 214968 480

Fax: (353) 214968 628

E-mail: sales@qef.ie

Molex G Knutsen AS

Brynsveien 16, Postboks
6104

Etterstad, 0601 Oslo

NORWAY

Tel: (47) 23 039100

Fax: (47) 23 039149

E-mail: oejensen@molex.com

Data Flow S.R.L.

Str. Republicii, Nr. 63

3000-Rupea-Brasov

ROMANIA

Tel: (40) 93 602224

Fax: (40) 68 477719

E-mail: office@dataflow.ro

TME

Transfer Multisort Elektronik

Adam i Zbigniew Kuczynski
Sp.j.

93-350 Łódź

ul. Ustronna 41

NIP 729-010-89-84

POLAND

Tel: (48) 42 6400106

Fax: (48) 42 6400107

E-mail: tme@tme.pl

Web: www.tme.pl

Promi v.o.s.

Hlubocepska 70

152 00 Praha 5

CZECH REPUBLIC

Tel: (420) 2 516 821 30

Fax: (420) 2 516 821 31

E-mail: promi@promi-praha.cz

Thorkild Larsen A/S

Noeglegaardsvej 12

3540 Lyngø

DENMARK

Tel: (45) 481 86666

Fax: (45) 481 86663

E-mail: info@thorkild-larsen.dk

Margreth AG

Apothekerweg 10

CH-5712 Beinwill am See

SWITZERLAND

Tel: (41) 62 765 6070

Fax: (41) 62 765 6077

E-mail: info@margreth-ag.ch

Saytek Elektronik A.S.

Safak Sok 17/2

Dedehan Apt.

80220 Nisantasi, Istanbul

TURKEY

Tel: (90) 212

2255868/2341519

Fax: (90) 212

2341518/2341522

E-mail:

saytek@superonline.com

MIDDLE EAST

Bruno International Corporation

PO Box 855, Bnei Brak

ISRAEL 51108

Tel: (972) 3 570 5323

Fax: (972) 3 570 5331

E-mail: bruno@brunocorp.co.il

Peninsula's Tasks

PO Box 79479

Al-Khobar 31952

KINGDOM OF SAUDI ARABIA

Tel: (966) 3 895 5045

Fax: (966) 3 895 3454

FAR EAST

Bossard Pte Ltd

Beijing Rep. Office

215- Parkview Center

No. 2 Jiangtai Road

Chaoyang District

Beijing, 100016

CHINA

Tel: (86-10) 8456-0341

Fax: (86-10) 8456-0343

Bossard Thailand Limited

19/1-2 Wangdek Building

1st floor, A-B Soi Yasooob 1,

Viphavadee Rangsit Road,

Lardyoa, Jutajak

Bangkok 10900

THAILAND

Tel: 662 617-8808

Fax: 662 617-8827

Bossard Industrial Fasteners Int'l Trading

(Shanghai) Co. Ltd.

No 383, FuTe XiYi Road, Bldg
A2

Suite A/4th Floor, Wai

Gaoqiao F.T.Z.

Shanghai, 200131

CHINA

Tel: 86-21 5866 6911

Fax: 86-21 5866 5857

Suzhou Rep. Office

5-C, King's Tower

New District

Suzhou, 215001

CHINA

Tel: (86-512) 8090-343

Fax: (86-521) 8090-342

WORLDWIDE

Molex PTY Ltd

PO Box 4401

Halfway House 1685

SOUTH AFRICA

Tel: (27) 11314 4700

Fax: (27)11314 4681

Soanar

AUSTRALIA

Adelaide

39 Dequetteville Terrace

Kent Town SA 5067

Tel: +61 (8) 8333 9200

Fax: +61 (8) 8331 1311

Sydney

Unit D1, 3 - 9 Birnie Avenue

Lidcombe Business Park

Lidcombe NSW 2141

Tel: +61 (2) 9741 0150

Fax: +61 (2) 9741 0155

Melbourne

9 Civic Square

Croydon Victoria 3136

Tel: +61 (3) 9724 0800

Fax: +61 (3) 9724 0808

Brisbane

Unit 2-3, 37 Commercial

Road

Fortitude Valley QLD 4006

Tel: +61 (7) 3852 4170

Fax: +61 (7) 3852 4172

Perth

103-107 Edward Street

East Perth WA 6004

Tel: +61 (8) 9227-9659

Fax: +61 (8) 9227-9623

NEW ZEALAND

Christchurch

Unit 2, 16 Bernard Street

Addington, Christchurch

Tel: +64 (3) 963 0174

Fax: +64 (3) 963 0179

Auckland

Unit C, 34 Hobill Ave

Manukau City, Auckland

Tel: +64 (9) 262 2461

Fax: +64 (9) 262 2472

Circuit Board Hardware	5-38		
	Snap in & adhesive supports; spacers & standoffs		A
Card Guides & Pullers	39-52		
	Vertical, horizontal, & tensioning pc board rack card guides		B
Rivets, Bumpers & Feet	53-68		
	Blind hole, unscrewing, push in rivets & latches		C
Cable Ties & Accessories	69-88		
	Wide variety of standard & special application ties & flat tie holders		D
Wire Routing, Clips & Clamps	89-130		
	Plastic and metal clamps and clips for round and flat cable management		E
Cable & Fiber Management	131-152		
	Wraps, ducts and Miniflex fiber and cable protection systems		F
Electronic Component Accessories	153-156		
	T.V. & monitor accessories		G
Grommets & Bushings/LED Spacers & Insulators	157-179		
	Metal and plastic serrated and solid grommets and quick fit & insulators		H
Kits	180		
Custom Extrusion Capabilities	181		
Standard Extruded Products	182		
Conversion Charts	183		
RMS Specifications	184-192		
Technical Data	193-194		
Alphabetical Listing	195-197		

TERMS & CONDITIONS

Terms, Tolerances, Specifications, Part Ordering Codes



Offering Innovative New Products.

Most of the components in our catalog have been developed as a direct result of actively pursuing engineers in the field who have expressed a specific design need to Richco's engineering team.



We offer thousands of pieces in stock, ready to ship when you need them. Whether it is a standard, custom molded or extruded part, we'll follow through from prototype to production until you have the perfect product for your design.

TERMS

(Applies to U.S. office only)

- 1% 10 days, net 30
- Minimum order: \$400.00
 - Master Distributor minimum order: \$100.00
- Prices subject to change without notice.
- All shipments, F.O.B. our factory.
- Return merchandise accepted on prior approval from factory only. Unauthorized returns will not be accepted. Return merchandise subject to \$50.00 handling charge.

Nylon Storage Guidelines / Shelf Life

All Richco nylon parts are packaged in sealed plastic bags and contain an appropriate level of moisture. When stored in the original unopened bags at 73°F and 50% RH, parts shelf life is one year from date of shipment.

**NEED
SAMPLES?**

**call us at
1-800-621-1892**

SPECIFICATIONS

- Specifications in this catalog are functional only. Richco reserves the right to make changes in the specifications of its proprietary products at any time without notice.

**RAW MATERIAL
SPECIFICATIONS**

**RMS
pages 184-
192**

GENERAL INFORMATION

- Richco Mfr. UL No. E61981 (N)
- Federal Cage (Mil) No. 06915 with Control No. Designation B1041
- Yellow Card #E71558 (N)

"Typical Release Tab Location", when noted anywhere in this catalog, refers to an adhesive liner release tab that could exist on any side of a Richco part unless otherwise noted.

Remember... if you don't see what you need, call us!

Send us a design or sketch your design on the form on page 27, and we'll take it from there.

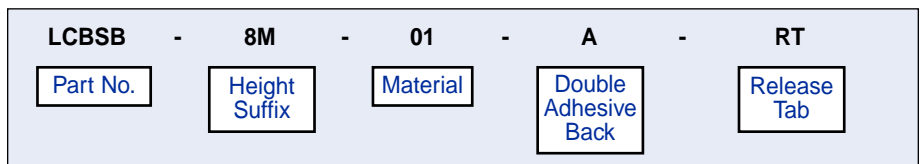
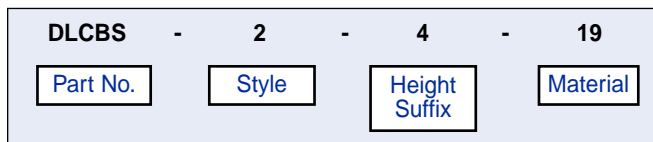
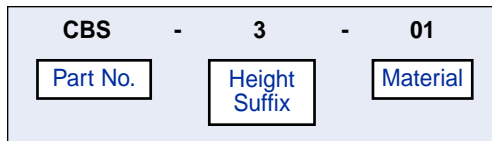
TOLERANCES

Unless Otherwise Noted

	Extruded	Molded	Metal
.x	—	± — (0.40)	—
.xx	± .020 (0.51)	± .01 (0.25)	± .015 (0.38)
.xxx	± .015 (0.38)	—	± .005 (0.13)
Fractions	± 1/32 (0.79)	± 1/64 (0.40)	± 1/64 (0.40)

Dimensions are in inches (mm) unless otherwise noted.

PART ORDERING CODE



General Features

Richco's circuit board supports and spacers are designed to hold a printed circuit board to a chassis or base inside an electronic apparatus. Most supports are designed to be installed by hand, and do not require assembly equipment. Supports are available in nylon, aluminum, brass, and rubber to form the largest selection of options in the industry. Stackable supports allow an endless array of design options.

Applications

- Typical Applications Include:
- Computers and Printers
 - Security Systems
 - Copy Machines
 - Vending Machines
 - Television and Stereo Equipment
 - White Goods
 - Telecommunications Equipment

Terminology

Snap-Lock

A device that is pushed through a hole in a panel or chassis and snaps or springs open on the other side to produce a mechanical lock. To remove: squeeze or pinch the locking device.

Snap-Fit

A device that is pushed through a hole in a panel or chassis and snaps or springs open on the other side to produce a mechanical lock. To remove: simply pull or push, no pinching required.

Special Options

Spacing Heights

If you do not see the spacing height you require for your application, most circuit board supports are available in custom spacing heights via special order. Tooling and minimum quantity (10,000) requirements may apply. Please contact the factory to discuss specific applications.

Locking Devices

Richco maintains the widest selection in the industry of plastic circuit board supports. Should you not see the combination of locking devices to meet your requirements, please consult the factory to discuss your application. Tooling and minimum quantity (10,000) requirements may apply.

Materials

Material	Flammability Rating	Applications
Nylon 6/6	V-2	General Purpose
Flame Retardant Nylon	V-0	General Purpose
Nylon 4/6	V-2	High Temperature
Impact Modified Nylon	HB	Shear Force
Black Ultraviolet	UVB	Outdoor Applications

Color

Most Circuit Board Supports which are manufactured in Nylon 6/6, RMS-01 can be dyed most any color for identification purposes. Delivery takes approximately 2 to 4 weeks providing that the natural nylon part is in stock. Please contact the factory to discuss applications. Dyed parts cannot be color matched. Color matched parts must be made with minimum order of 10,000 pcs.

Stress Relieved Parts

For use of products in extremely dry conditions, most Circuit Board Supports manufactured in Nylon 6/6, RMS-01 can be "Stress Relieved" to retard moisture evaporation from the part. To order, add SR after the part number. Consult the factory to discuss applications. (Available only in U.S.)

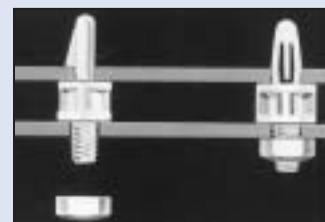
Special Packaging

Most Richco parts come "standard packed" 1,000 pieces per bag. Circuit board hardware can be specially packed in any quantity as a special order. Minimum order requirements may apply. Please consult the factory to discuss application.

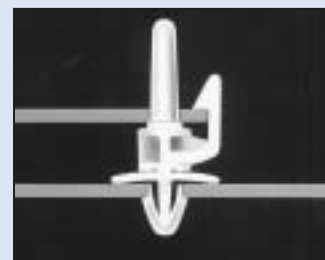
Introduction



Locking Circuit Board Support



Studded Circuit Board Support



Edge-Holding Circuit Board Support



Stacking Self Retaining Spacer

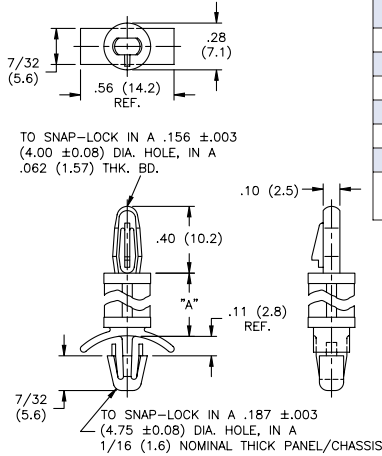


Threaded Nylon Sturdipost

CIRCUIT BOARD HARDWARE

LCBS

Locking Circuit Board Support



Material: Nylon 6/6, RMS-01 •Color: Blue	
Part Number	Standard Pack: 1,000 per bag
	"A" ± 0.4 mm
LCBS-6M-01	6.0 mm
LCBS-8M-01	8.0 mm
LCBS-10M-01	10.0 mm
LCBS-12M-01	12.0 mm
LCBS-14M-01	14.0 mm
LCBS-16M-01	16.0 mm

Part available in V-0 material by special order. To order, replace -01 with -19

Mat'l: Nylon 6/6, RMS-01 Color: Natural Part Number	Mat'l: Flame Ret. Nyl. 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
LCBS-3-01	LCBS-3-19	3/16 (4.8)
LCBS-4-01	LCBS-4-19	1/4 (6.4)
LCBS-5-01	LCBS-5-19	5/16 (7.9)
LCBS-6-01	LCBS-6-19	3/8 (9.5)
LCBS-7-01	LCBS-7-19	7/16 (11.1)
LCBS-8-01	LCBS-8-19	1/2 (12.7)
LCBS-10-01	LCBS-10-19	5/8 (15.9)
LCBS-12-01	LCBS-12-19	3/4 (19.1)
LCBS-14-01	LCBS-14-19	7/8 (22.2)
LCBS-16-01	LCBS-16-19	1 (25.4)
LCBS-18-01	LCBS-18-19	1-1/8 (28.6)
LCBS-20-01	LCBS-20-19	1-1/4 (31.7)
LCBS-22-01	LCBS-22-19	1-3/8 (34.9)

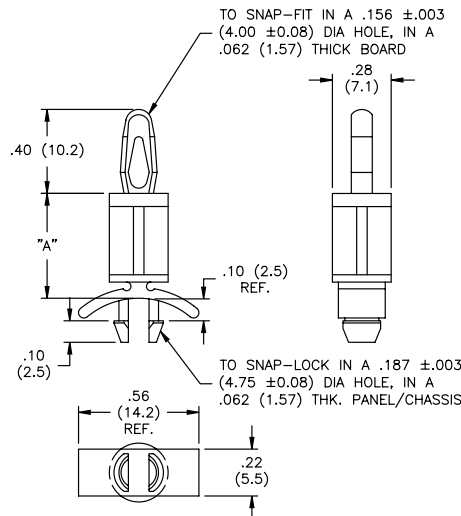
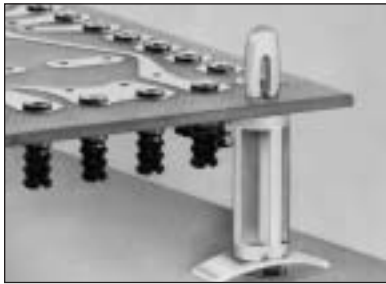
"Impact Modified" Nylon 6/6, RMS-73 material available by special order. To order, replace -01 with -73.

LCBS-4-XX-01 with Non-Locking Bayonet Nose (CBS-style) top available by special order. LCBS-4 available in V-0 material by special order. To order replace -01 with -19.

Patent Nos. 3,777,052 & 3,909,883

CBS

Circuit Board Support



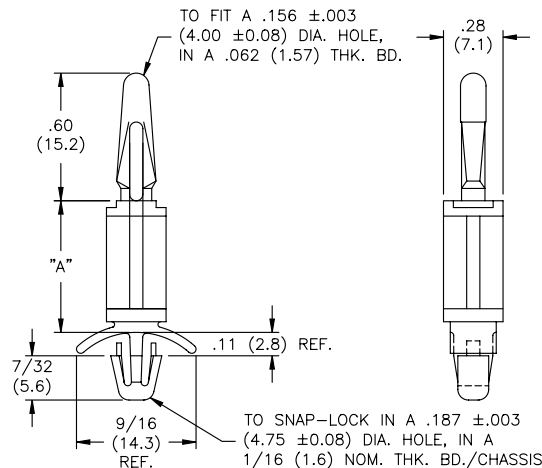
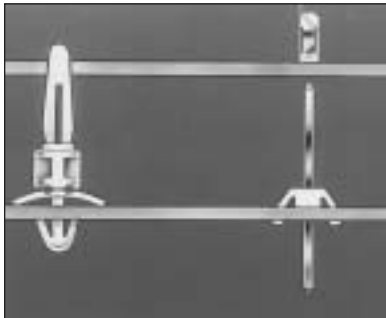
Mat'l: Nylon 6/6, RMS-01 Color: Natural Part Number	Mat'l: Flame Ret. Nyl. 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015(0.4)
CBS-3-01	CBS-3-19	3/16 (4.8)
CBS-4-01	CBS-4-19	1/4 (6.4)
CBS-6-01	CBS-6-19	3/8 (9.5)
CBS-8-01	CBS-8-19	1/2 (12.7)
CBS-10-01	CBS-10-19	5/8 (15.9)
CBS-12-01	CBS-12-19	3/4 (19.1)
CBS-14-01	CBS-14-19	7/8 (22.2)

LCBS-5-XX-01 with Locking Bayonet Nose (LCBS-style) top available by special order. LCBS-5 available in V-0 material by special order. To order replace -01 with -19.

Patent Nos. 3,688,635

LNCBS

Long Nose Circuit Board Support



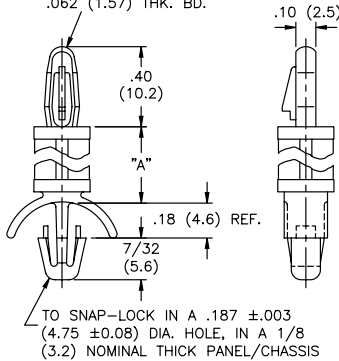
Mat'l: Nylon 6/6, RMS-01 Color: Natural Part Number	Mat'l: Flame Ret. Nyl. 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015(0.4)
LNCBS-3-01	LNCBS-3-19	3/16 (4.8)
LNCBS-4-01	LNCBS-4-19	1/4 (6.4)
LNCBS-6-01	LNCBS-6-19	3/8 (9.5)
LNCBS-8-01	LNCBS-8-19	1/2 (12.7)
LNCBS-10-01	LNCBS-10-19	5/8 (15.9)
LNCBS-12-01	LNCBS-12-19	3/4 (19.1)
LNCBS-14-01	LNCBS-14-19	7/8 (22.2)

Highlights

- Automatically locates and aligns connector pins with socket.

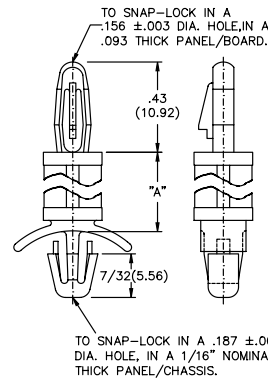
LCBS-2 Locking Circuit Board Support

TO SNAP-LOCK IN A .156 ±.003 (4.00 ±0.08) DIA. HOLE, IN A .062 (1.57) THK. BD.



Material: Nylon 6/6, RMS-01 Color: Natural Part Number	Material: Flame Retardant Nylon 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
LCBS-2-3-01	LCBS-2-3-19	3/16 (4.8)
LCBS-2-4-01	LCBS-2-4-19	1/4 (6.4)
LCBS-2-5-01	LCBS-2-5-19	5/16 (7.9)
LCBS-2-6-01	LCBS-2-6-19	3/8 (9.5)
LCBS-2-7-01	LCBS-2-7-19	7/16 (11.1)
LCBS-2-8-01	LCBS-2-8-19	1/2 (12.7)
LCBS-2-10-01	LCBS-2-10-19	5/8 (15.9)
LCBS-2-12-01	LCBS-2-12-19	3/4 (19.1)
LCBS-2-14-01	LCBS-2-14-19	7/8 (22.2)
LCBS-2-16-01	LCBS-2-16-19	1 (25.4)
LCBS-2-18-01	LCBS-2-18-19	1-1/8 (28.6)
LCBS-2-20-01	LCBS-2-20-19	1-1/4 (31.7)
LCBS-2-22-01	LCBS-2-22-19	1-3/8 (34.9)

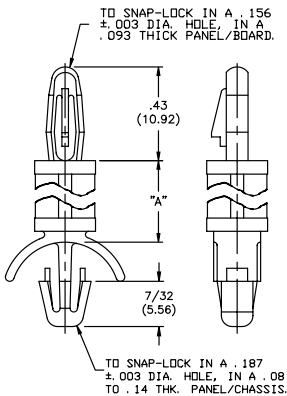
LCBS-3 Locking Circuit Board Support



Material: Nylon 6/6, RMS-01 Color: Natural		Standard Pack: 1,000 per bag "A" ± .015 (0.4)
Part Number		
LCBS-3-3-01	LCBS-3-3-19	3/16 (4.8)
LCBS-3-4-01	LCBS-3-4-19	1/4 (6.4)
LCBS-3-5-01	LCBS-3-5-19	5/16 (7.9)
LCBS-3-6-01	LCBS-3-6-19	3/8 (9.5)
LCBS-3-7-01	LCBS-3-7-19	7/16 (11.1)
LCBS-3-8-01	LCBS-3-8-19	1/2 (12.7)
LCBS-3-10-01	LCBS-3-10-19	5/8 (15.9)
LCBS-3-12-01	LCBS-3-12-19	3/4 (19.1)
LCBS-3-14-01	LCBS-3-14-19	7/8 (22.2)
LCBS-3-16-01	LCBS-3-16-19	1 (25.4)
LCBS-3-18-01	LCBS-3-18-19	1-1/8 (28.6)
LCBS-3-20-01	LCBS-3-20-19	1-1/4 (31.7)
LCBS-3-22-01	LCBS-3-22-19	1-3/8 (34.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

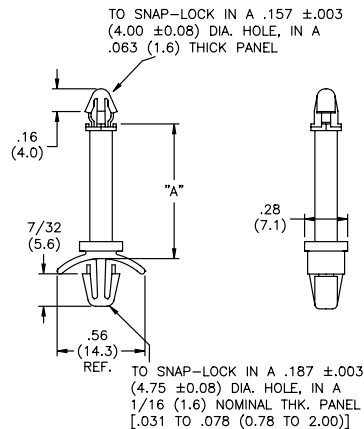
LCBS-6 Locking Circuit Board Support



Material: Nylon 6/6, RMS-01 Color: Natural		Standard Pack: 1,000 per bag "A" ± .015 (0.4)
Part Number		
LCBS-6-3-01	LCBS-6-3-19	3/16 (4.8)
LCBS-6-4-01	LCBS-6-4-19	1/4 (6.4)
LCBS-6-5-01	LCBS-6-5-19	5/16 (7.9)
LCBS-6-6-01	LCBS-6-6-19	3/8 (9.5)
LCBS-6-7-01	LCBS-6-7-19	7/16 (11.1)
LCBS-6-8-01	LCBS-6-8-19	1/2 (12.7)
LCBS-6-10-01	LCBS-6-10-19	5/8 (15.9)
LCBS-6-12-01	LCBS-6-12-19	3/4 (19.1)
LCBS-6-14-01	LCBS-6-14-19	7/8 (22.2)
LCBS-6-16-01	LCBS-6-16-19	1 (25.4)
LCBS-6-18-01	LCBS-6-18-19	1-1/8 (28.6)
LCBS-6-20-01	LCBS-6-20-19	1-1/4 (31.7)
LCBS-6-22-01	LCBS-6-22-19	1-3/8 (34.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

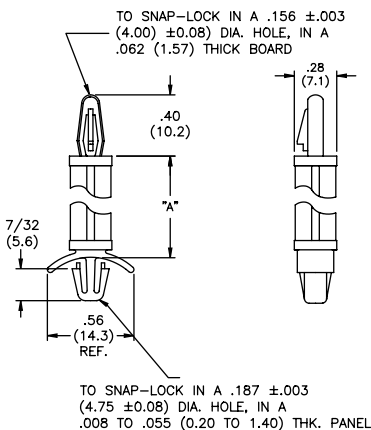
LCBS-7 Locking Circuit Board Support



Material: Nylon 6/6, RMS-01 Color: Natural		Standard Pack: 1,000 per bag "A" ± .015 (0.4)
Part Number		
LCBS-7-3-01	LCBS-7-3-19	3/16 (4.8)
LCBS-7-4-01	LCBS-7-4-19	1/4 (6.4)
LCBS-7-5-01	LCBS-7-5-19	5/16 (7.9)
LCBS-7-6-01	LCBS-7-6-19	3/8 (9.5)
LCBS-7-7-01	LCBS-7-7-19	7/16 (11.1)
LCBS-7-8-01	LCBS-7-8-19	1/2 (12.7)
LCBS-7-10-01	LCBS-7-10-19	5/8 (15.9)
LCBS-7-12-01	LCBS-7-12-19	3/4 (19.1)
LCBS-7-14-01	LCBS-7-14-19	7/8 (22.2)
LCBS-7-16-01	LCBS-7-16-19	1 (25.4)
LCBS-7-18-01	LCBS-7-18-19	1-1/8 (28.6)
LCBS-7-20-01	LCBS-7-20-19	1-1/4 (31.7)
LCBS-7-22-01	LCBS-7-22-19	1-3/8 (34.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

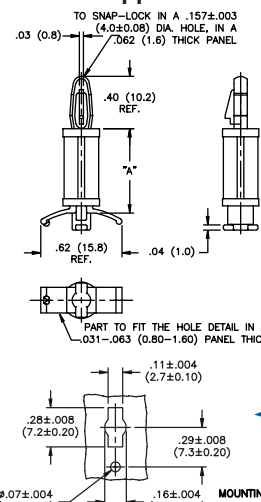
LCBS-8 Locking Circuit Board Support



Material: Nylon 6/6, RMS-01 Color: Natural		Standard Pack: 1,000 per bag "A" ± .015 (0.4)
Part Number		
LCBS-8-3-01	LCBS-8-3-19	3/16 (4.8)
LCBS-8-4-01	LCBS-8-4-19	1/4 (6.4)
LCBS-8-5-01	LCBS-8-5-19	5/16 (7.9)
LCBS-8-6-01	LCBS-8-6-19	3/8 (9.5)
LCBS-8-7-01	LCBS-8-7-19	7/16 (11.1)
LCBS-8-8-01	LCBS-8-8-19	1/2 (12.7)
LCBS-8-10-01	LCBS-8-10-19	5/8 (15.9)
LCBS-8-12-01	LCBS-8-12-19	3/4 (19.1)
LCBS-8-14-01	LCBS-8-14-19	7/8 (22.2)
LCBS-8-16-01	LCBS-8-16-19	1 (25.4)
LCBS-8-18-01	LCBS-8-18-19	1-1/8 (28.6)
LCBS-8-20-01	LCBS-8-20-19	1-1/4 (31.7)
LCBS-8-22-01	LCBS-8-22-19	1-3/8 (34.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

LCBS-9 Locking Circuit Board Support



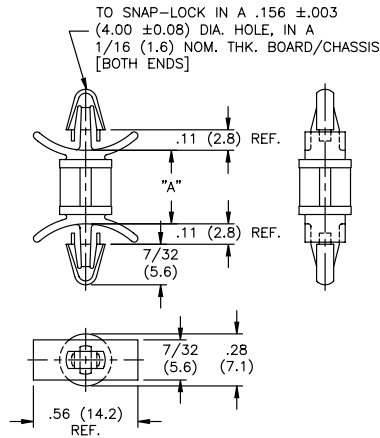
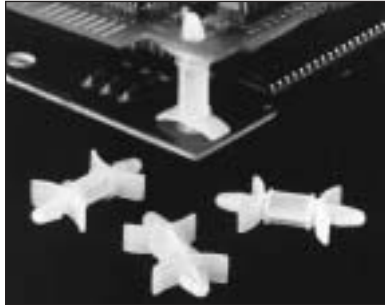
Material: Nylon 6/6, RMS-01 Color: Natural Part Number	Material: Flame Retardant Nylon 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
LCBS-9-3-01	LCBS-9-3-19	3/16 (4.8)
LCBS-9-4-01	LCBS-9-4-19	1/4 (6.4)
LCBS-9-5-01	LCBS-9-5-19	5/16 (7.9)
LCBS-9-6-01	LCBS-9-6-19	3/8 (9.5)
LCBS-9-7-01	LCBS-9-7-19	7/16 (11.1)
LCBS-9-8-01	LCBS-9-8-19	1/2 (12.7)
LCBS-9-10-01	LCBS-9-10-19	5/8 (15.9)
LCBS-9-12-01	LCBS-9-12-19	3/4 (19.1)
LCBS-9-14-01	LCBS-9-14-19	7/8 (22.2)
LCBS-9-16-01	LCBS-9-16-19	1 (25.4)
LCBS-9-18-01	LCBS-9-18-19	1-1/8 (28.6)
LCBS-9-20-01	LCBS-9-20-19	1-1/4 (31.8)
LCBS-9-22-01	LCBS-9-22-19	1-3/8 (34.9)



CIRCUIT BOARD HARDWARE

DLCBS

Dual Locking Circuit Board Support

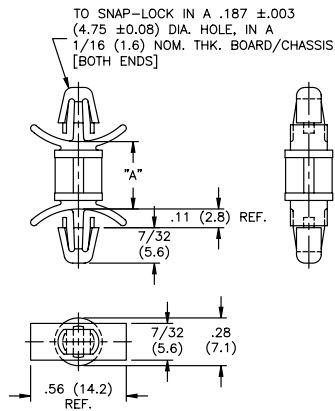


Mat'l: Nylon 6/6, RMS-01 Color: Natural Part Number	Mat'l: Flame Ret. Nyl. 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
DLCBS-3-01	DLCBS-3-19	3/16 (4.8)
DLCBS-4-01	DLCBS-4-19	1/4 (6.4)
DLCBS-6-01	DLCBS-6-19	3/8 (9.5)
DLCBS-8-01	DLCBS-8-19	1/2 (12.7)
DLCBS-10-01	DLCBS-10-19	5/8 (15.9)
DLCBS-12-01	DLCBS-12-19	3/4 (19.1)
DLCBS-14-01	DLCBS-14-19	7/8 (22.2)

"Impact Modified" Nylon 6/6, RMS-73 material available by special order. To order, replace -01 with -73.

DLCBS-2

Dual Locking Circuit Board Support



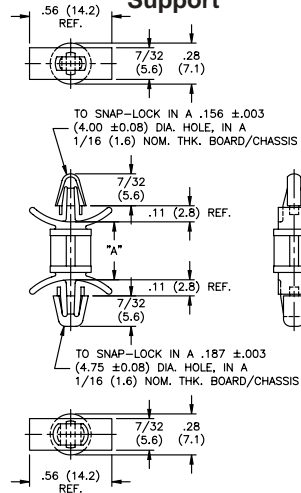
Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
DLCBS2-3-01	3/16 (4.8)
DLCBS2-4-01	1/4 (6.4)
DLCBS2-6-01	3/8 (9.5)
DLCBS2-8-01	1/2 (12.7)
DLCBS2-10-01	5/8 (15.9)
DLCBS2-12-01	3/4 (19.1)
DLCBS2-14-01	7/8 (22.2)

Part also available in V-0 material as a standard. To order, replace -01 with -19
"Impact Modified" Nylon 6/6, RMS-73 material available by special order. To order, replace -01 with -73.

DLCBS-3

Dual Locking Circuit Board Support



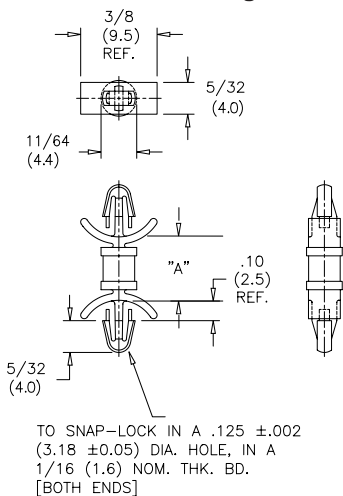
Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
DLCBS3-3-01	3/16 (4.8)
DLCBS3-4-01	1/4 (6.4)
DLCBS3-6-01	3/8 (9.5)
DLCBS3-8-01	1/2 (12.7)
DLCBS3-10-01	5/8 (15.9)
DLCBS3-12-01	3/4 (19.1)
DLCBS3-14-01	7/8 (22.2)

Part also available in V-0 material as a standard. To order, replace -01 with -19.
"Impact Modified" Nylon 6/6, RMS-73 material available by special order. To order, replace -01 with -73.

DLCBSM

Dual Locking Circuit Board Support - Mini



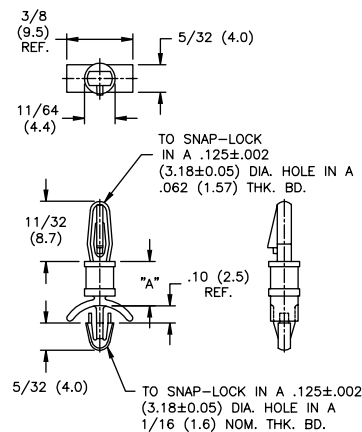
Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
DLCBSM-3-01	3/16 (4.8)
DLCBSM-4-01	1/4 (6.4)
DLCBSM-5-01	5/16 (7.9)
DLCBSM-6-01	3/8 (9.5)
DLCBSM-7-01	7/16 (11.1)
DLCBSM-8-01	1/2 (12.7)
DLCBSM-9-01	9/16 (14.3)
DLCBSM-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

LCBSM

Locking Circuit Board Support, Mini

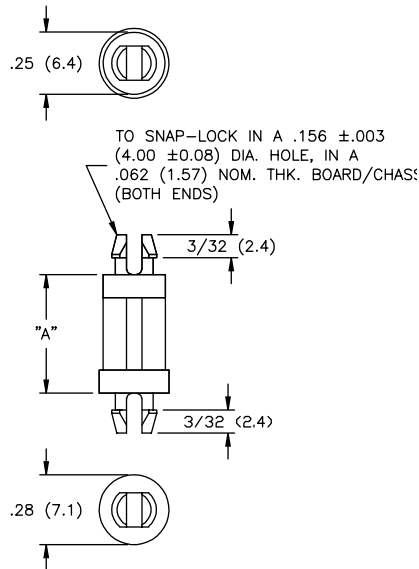
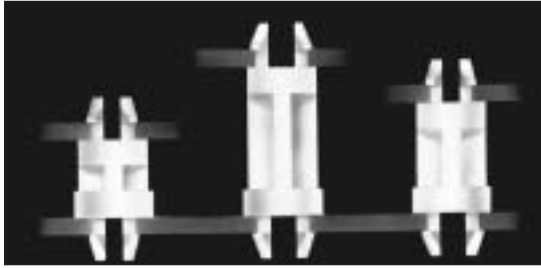


Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
LCBSM-2-01	1/8 (3.2)
LCBSM-3-01	3/16 (4.8)
LCBSM-4-01	1/4 (6.4)
LCBSM-5-01	5/16 (7.9)
LCBSM-6-01	3/8 (9.5)
LCBSM-7-01	7/16 (11.1)
LCBSM-8-01	1/2 (12.7)
LCBSM-9-01	9/16 (14.3)
LCBSM-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

SP-1 Support Post



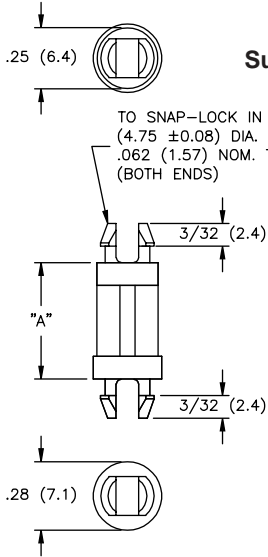
Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
SP1-3-01	3/16 (4.8)
SP1-4-01	1/4 (6.4)
SP1-6-01	3/8 (9.5)
SP1-8-01	1/2 (12.7)
SP1-10-01	5/8 (15.9)
SP1-12-01	3/4 (19.1)
SP1-14-01	7/8 (22.2)
SP1-16-01	1 (25.4)

Part available in V-0 material by special order. To order, replace -01 with -19.

A

SP-2 Support Post

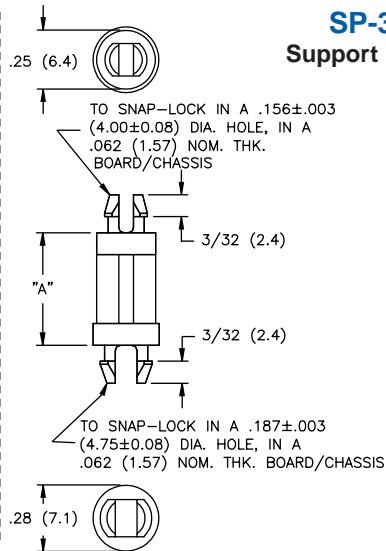


Material: Nylon 6/6, RMS-01 • Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
SP2-3-01	3/16 (4.8)
SP2-4-01	1/4 (6.4)
SP2-6-01	3/8 (9.5)
SP2-8-01	1/2 (12.7)
SP2-10-01	5/8 (15.9)
SP2-12-01	3/4 (19.1)
SP2-14-01	7/8 (22.2)
SP2-16-01	1 (25.4)

Part available in V-0 material by special order. To order, replace -01 with -19.

SP-3 Support Post

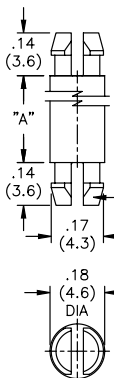


Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
SP3-3-01	3/16 (4.8)
SP3-4-01	1/4 (6.4)
SP3-6-01	3/8 (9.5)
SP3-8-01	1/2 (12.7)
SP3-10-01	5/8 (15.9)
SP3-12-01	3/4 (19.1)
SP3-14-01	7/8 (22.2)
SP3-16-01	1 (25.4)

Part available in V-0 material by special order. To order, replace -01 with -19.

DLMSP Dual Locking Mini Support Post

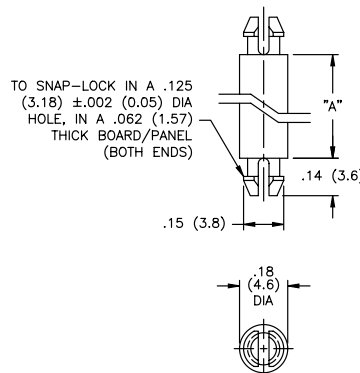


Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
DLMSP-2-01	1/8 (3.2)
DLMSP-3-01	3/16 (4.8)
DLMSP-4-01	1/4 (6.4)
DLMSP-5-01	5/16 (7.9)
DLMSP-6-01	3/8 (9.5)
DLMSP-7-01	7/16 (11.1)
DLMSP-8-01	1/2 (12.7)
DLMSP-9-01	9/16 (14.3)
DLMSP-10-01	5/8 (15.9)
DLMSP-12-01	3/4 (19.1)
DLMSP-14-01	7/8 (22.2)
DLMSP-16-01	1 (25.4)
DLMSP-18-01	1-1/8 (28.6)
DLMSP-20-01	1-1/4 (31.7)
DLMSP-22-01	1-3/8 (34.9)
DLMSP-24-01	1-1/2 (38.1)

Part available in V-0 material by special order. To order, replace -01 with -19.

DLMSPM Dual Locking Mini Support Post, Micro



Material: Nylon 6/6 RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
DLMSPM-2-01	1/8 (3.2)
DLMSPM-3-01	3/16 (4.8)
DLMSPM-4-01	1/4 (6.4)
DLMSPM-5-01	5/16 (7.9)
DLMSPM-6-01	3/8 (9.5)
DLMSPM-7-01	7/16 (11.1)
DLMSPM-8-01	1/2 (12.7)
DLMSPM-9-01	9/16 (14.3)
DLMSPM-10-01	5/8 (15.9)
DLMSPM-12-01	3/4 (19.1)
DLMSPM-13-01	13/16 (20.6)
DLMSPM-14-01	7/8 (22.2)
DLMSPM-16-01	1 (25.4)
DLMSPM-18-01	1-1/8 (28.6)
DLMSPM-20-01	1-1/4 (31.7)
DLMSPM-22-01	1-3/8 (34.9)
DLMSPM-24-01	1-1/2 (38.1)

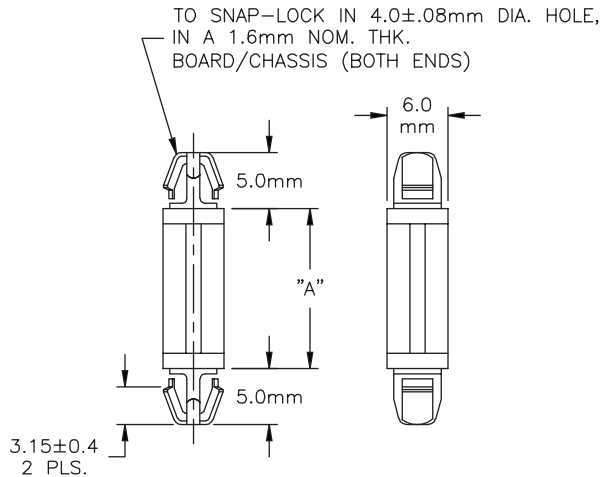
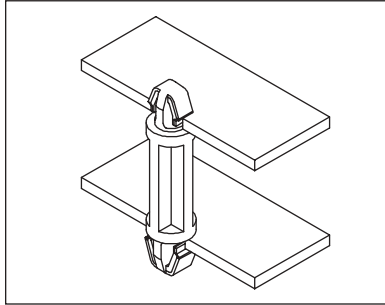
Part available in V-0 material by special order. To order, replace -01 with -19.

CIRCUIT BOARD HARDWARE

A

DLSP-1

Dual Locking Support Post-Metric



Material: Nylon 6/6, RMS-01
Color: Natural

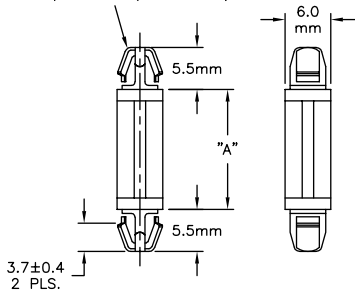
Part Number	Standard Pack:
	1,000 per bag
	"A" ± 0.4mm
DLSP-1-3M-01	3.0mm
DLSP-1-4M-01	4.0mm
DLSP-1-6M-01	6.0mm
DLSP-1-8M-01	8.0mm
DLSP-1-10M-01	10.0mm
DLSP-1-12M-01	12.0mm
DLSP-1-14M-01	14.0mm
DLSP-1-16M-01	16.0mm
DLSP-1-18M-01	18.0mm

Part available in V-0 material by special order. To order, replace with -01 with -19.

DLSP-2

Dual Locking Support Post-Metric

TO SNAP-LOCK IN 4.8±.08mm DIA. HOLE, IN A 1.6mm NOM. THK. BOARD/CHASSIS (BOTH ENDS)



Material: Nylon 6/6, RMS-01
Color: Natural

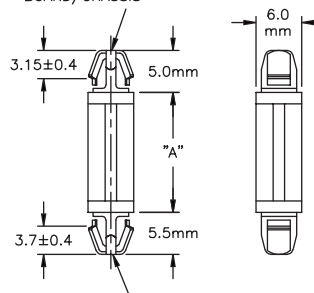
Part Number	Standard Pack:
	1,000 per bag
	"A" ± 0.4mm
DLSP-2-3M-01	3.0mm
DLSP-2-4M-01	4.0mm
DLSP-2-6M-01	6.0mm
DLSP-2-8M-01	8.0mm
DLSP-2-10M-01	10.0mm
DLSP-2-12M-01	12.0mm
DLSP-2-14M-01	14.0mm
DLSP-2-16M-01	16.0mm
DLSP-2-18M-01	18.0mm

Part available in V-0 material by special order. To order, replace -01 with -19.

DLSP-3

Dual Locking Support Post-Metric

TO SNAP-LOCK IN 4.00mm DIA. HOLE, IN A 1.6mm NOM. THK. BOARD/CHASSIS



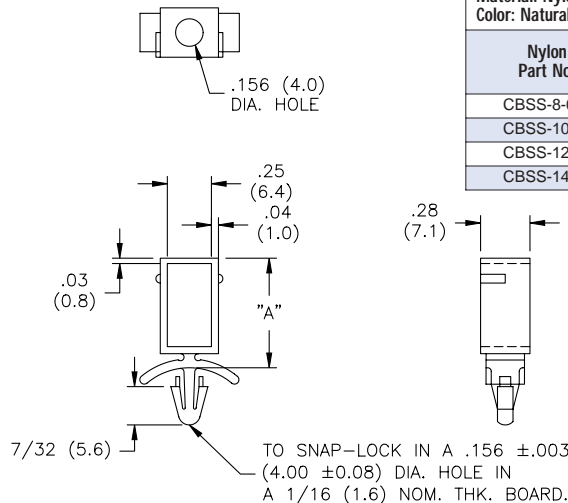
Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack:
	1,000 per bag
	"A" ± 0.4mm
DLSP-3-3M-01	3.0mm
DLSP-3-4M-01	4.0mm
DLSP-3-6M-01	6.0mm
DLSP-3-8M-01	8.0mm
DLSP-3-10M-01	10.0mm
DLSP-3-12M-01	12.0mm
DLSP-3-14M-01	14.0mm
DLSP-3-16M-01	16.0mm
DLSP-3-18M-01	18.0mm

Part available in V-0 material by special order. To order, replace -01 with -19.

CBSS

Circuit Board Stacking Spacers



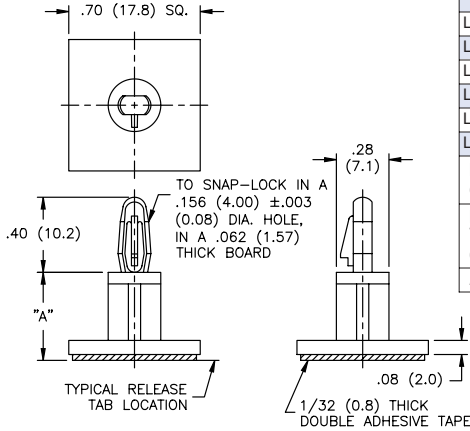
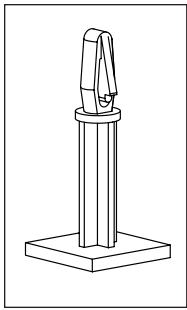
Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon RMS-19
Color: Natural

Nylon Part No.	Flame Retardant Nylon Part No.	Standard Pack:
		1000 per bag
		"A" ± .015 (0.4)
CBSS-8-01	CBSS-8-19	.43 (10.9)
CBSS-10-01	CBSS-10-19	.55 (14.0)
CBSS-12-01	CBSS-12-19	.68 (17.3)
CBSS-14-01	CBSS-14-19	.80 (20.3)

Features

- CBSS spacers snap together to stack any number of boards using Richco part MB-1-156 mounting button to top off stack

LCBSB Locking Circuit Board Support on Base



Material: Nylon 6/6, RMS-01
Color: Blue

Part Number	Standard Pack: 1,000 per bag
	"A" ± 0.4mm
LCBSB-6M-01A-RT	6.0mm
LCBSB-8M-01A-RT	8.0mm
LCBSB-10M-01A-RT	10.0mm
LCBSB-12M-01A-RT	12.0mm
LCBSB-14M-01A-RT	14.0mm
LCBSB-16M-01A-RT	16.0mm

Part available in V-0 material by special order. To order, replace -01 with -19.

Part also available without adhesive. To order, remove A-RT. For new "A" dimension subtract 1/32" (0.8mm).

Adhesive Backing, RMS-15

Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
LCBSB-3-01A-RT	3/16 (4.8)
LCBSB-4-01A-RT	1/4 (6.4)
LCBSB-6-01A-RT	3/8 (9.5)
LCBSB-8-01A-RT	1/2 (12.7)
LCBSB-10-01A-RT	5/8 (15.9)
LCBSB-12-01A-RT	3/4 (19.1)
LCBSB-14-01A-RT	7/8 (22.2)
LCBSB-16-01A-RT	1 (25.4)
LCBSB-18-01A-RT	1-1/8 (28.6)

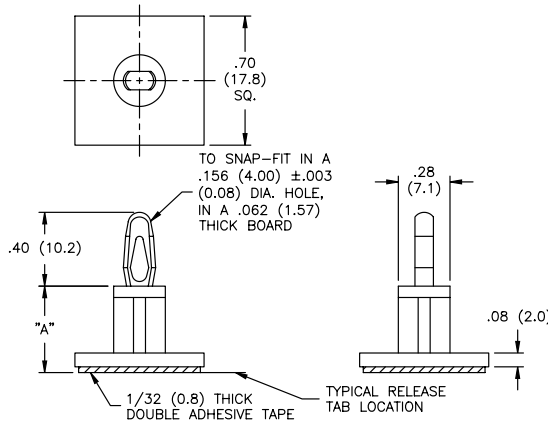
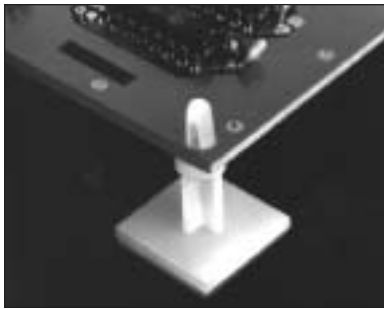
Part available in V-0 material by special order. To order, replace -01 with -19.

Part also available without adhesive. To order, remove A-RT. For new "A" dimension subtract 1/32" (0.8 mm).

Adhesive Backing, RMS-15

SCBSB-XX-01A-RT with .30" long, #6-32 threaded stud top available by special order. Use part number HN#6-32-01 as a mating nut. SCBSB available in V-0 material by special order. To order, replace -01 with -19.

CBSB Circuit Board Support on Base



Material: Nylon 6/6, RMS-01
Color: Natural

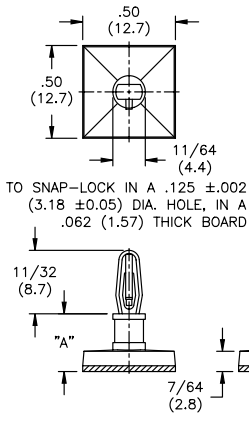
Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
CBSB-3-01A-RT	3/16 (4.8)
CBSB-4-01A-RT	1/4 (6.4)
CBSB-6-01A-RT	3/8 (9.5)
CBSB-8-01A-RT	1/2 (12.7)
CBSB-10-01A-RT	5/8 (15.9)
CBSB-12-01A-RT	3/4 (19.1)
CBSB-14-01A-RT	7/8 (22.2)
CBSB-16-01A-RT	1 (25.4)
CBSB-18-01A-RT	1-1/8 (28.6)

Part available in V-0 material by special order. To order, replace -01 with -19.

Part also available without adhesive. To order, remove A-RT. For new "A" dimension subtract 1/32" (0.8 mm).

Adhesive Backing, RMS-15

LCBSBM Locking Circuit Board Support on Base, Mini



Material: Nylon 6/6, RMS-01
Color: Natural

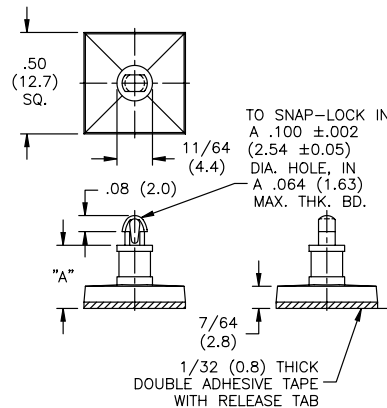
Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
LCBSBM-3-01A-RT	3/16 (4.8)
LCBSBM-4-01A-RT	1/4 (6.4)
LCBSBM-5-01A-RT	5/16 (7.9)
LCBSBM-6-01A-RT	3/8 (9.5)
LCBSBM-7-01A-RT	7/16 (11.1)
LCBSBM-8-01A-RT	1/2 (12.7)
LCBSBM-9-01A-RT	9/16 (14.3)
LCBSBM-10-01A-RT	5/8 (15.9)

Part available in V-0 material by special order, to order, replace -01 with -19

Part also available without adhesive. To order, remove A-RT. For new "A" dimension subtract 1/32" (0.8mm).

Adhesive Backing, RMS-15

CBSBT Circuit Board Support on Base, Teardrop



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
CBSBT-3-01A-RT	3/16 (4.8)
CBSBT-4-01A-RT	1/4 (6.4)
CBSBT-5-01A-RT	5/16 (7.9)
CBSBT-6-01A-RT	3/8 (9.5)
CBSBT-7-01A-RT	7/16 (11.1)
CBSBT-8-01A-RT	1/2 (12.7)
CBSBT-9-01A-RT	9/16 (14.3)
CBSBT-10-01A-RT	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

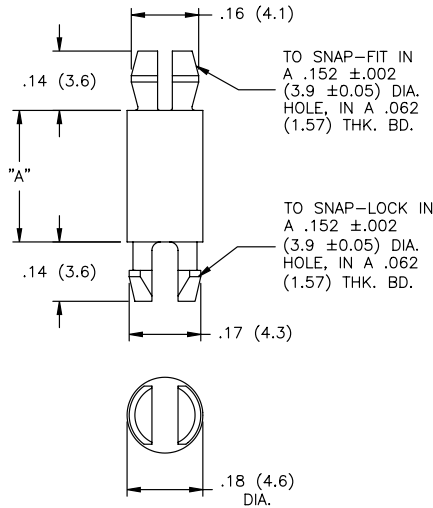
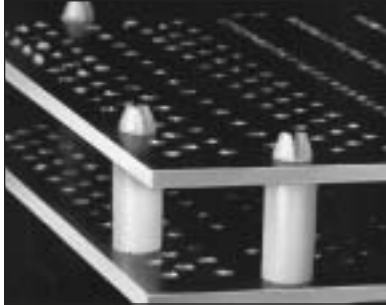
Adhesive Backing, RMS-15

Part also available without adhesive. To order, remove A-RT. For new "A" dimension subtract 1/32" (0.8mm)

CCBSBT-XX-01A-RT with Cupped, Teardrop-style top available by special order. CCBSBT available in V-0 material by special order. To order, replace -01 with -19.

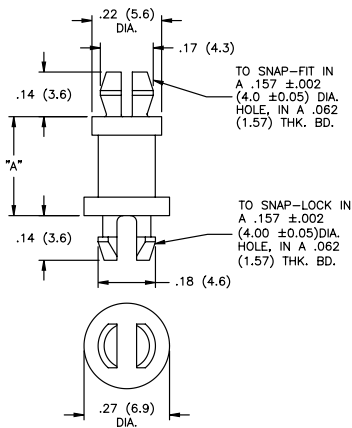
A

MSP Miniature Support Post



Material: Nylon 6/6, RMS-01 Color: Natural Part Number	Material: Flame Retardant Nylon 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
MSP-2-01	MSP-2-19	1/8 (3.2)
MSP-3-01	MSP-3-19	3/16 (4.8)
MSP-4-01	MSP-4-19	1/4 (6.4)
MSP-5-01	MSP-5-19	5/16 (7.9)
MSP-6-01	MSP-6-19	3/8 (9.5)
MSP-7-01	MSP-7-19	7/16 (11.1)
MSP-8-01	MSP-8-19	1/2 (12.7)
MSP-9-01	MSP-9-19	9/16 (14.3)
MSP-10-01	MSP-10-19	5/8 (15.9)
MSP-11-01	MSP-11-19	11/16 (17.5)
MSP-12-01	MSP-12-19	3/4 (19.1)
MSP-13-01	MSP-13-19	13/16 (20.6)
MSP-14-01	MSP-14-19	7/8 (22.2)
MSP-16-01	MSP-16-19	1 (25.4)
MSP-18-01	MSP-18-19	1-1/8 (28.6)
MSP-20-01	MSP-20-19	1-1/4 (31.7)
MSP-22-01	MSP-22-19	1-3/8 (34.9)
MSP-24-01	MSP-24-19	1-1/2 (38.1)

MSPS Miniature Support Post

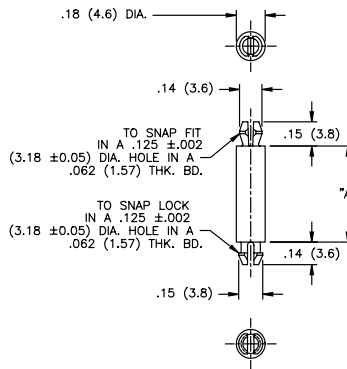


Material: Nylon 6/6, RMS-01 Color: Natural	
Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
MSPS-3-01	3/16 (4.8)
MSPS-4-01	1/4 (6.4)
MSPS-5-01	5/16 (7.9)
MSPS-6-01	3/8 (9.5)
MSPS-7-01	7/16 (11.1)
MSPS-8-01	1/2 (12.7)
MSPS-10-01	5/8 (15.9)
MSPS-11-01	11/16 (17.5)
MSPS-12-01	3/4 (19.1)
MSPS-14-01	7/8 (22.2)

Part available in V-0 material as a standard. To order, replace -01 with -19.

- Features**
- Shoulder added to facilitate automated assembly and added stability

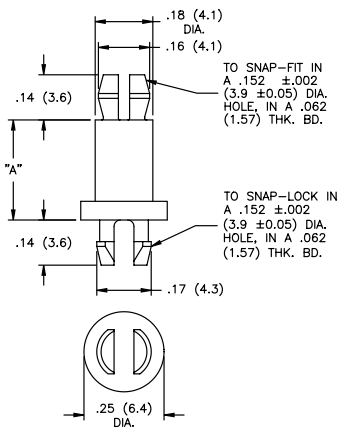
MSPM Mini Support Post, Micro



Material: Nylon 6/6, RMS-01 Color: Natural	
Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
MSPM-2-01	1/8 (3.2)
MSPM-3-01	3/16 (4.8)
MSPM-4-01	1/4 (6.4)
MSPM-5-01	5/16 (7.9)
MSPM-6-01	3/8 (9.5)
MSPM-7-01	7/16 (11.1)
MSPM-8-01	1/2 (12.7)
MSPM-9-01	9/16 (14.3)
MSPM-10-01	5/8 (15.9)
MSPM-12-01	3/4 (19.1)
MSPM-13-01	13/16 (20.6)
MSPM-14-01	7/8 (22.2)
MSPM-16-01	1 (25.4)
MSPM-18-01	1-1/8 (28.6)
MSPM-20-01	1-1/4 (31.7)
MSPM-22-01	1-3/8 (34.9)
MSPM-24-01	1-1/2 (38.1)

Part available in V-0 material as a standard. To order, replace -01 with -19.

MSPE Miniature Support Post



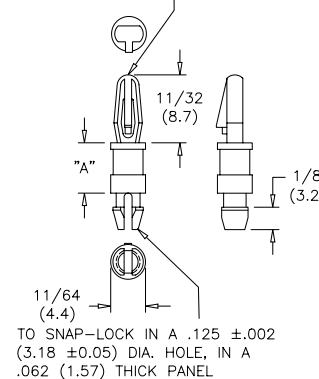
Material: Nylon 6/6, RMS-01 Color: Natural	
Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
MSPE-3-01	3/16 (4.8)
MSPE-4-01	1/4 (6.4)
MSPE-5-01	5/16 (7.9)
MSPE-6-01	3/8 (9.5)
MSPE-7-01	7/16 (11.1)
MSPE-8-01	1/2 (12.7)
MSPE-10-01	5/8 (15.9)
MSPE-11-01	11/16 (17.5)
MSPE-12-01	3/4 (19.1)
MSPE-14-01	7/8 (22.2)

Part available in V-0 material as a standard. To order, replace -01 with -19.

- Features**
- Shoulder added to facilitate automated assembly and added stability

LMSP Locking Miniature Support Post

TO SNAP-LOCK IN A .125 ±.002 (3.18 ±0.05) DIA. HOLE, IN A .062 (1.57) THICK BOARD



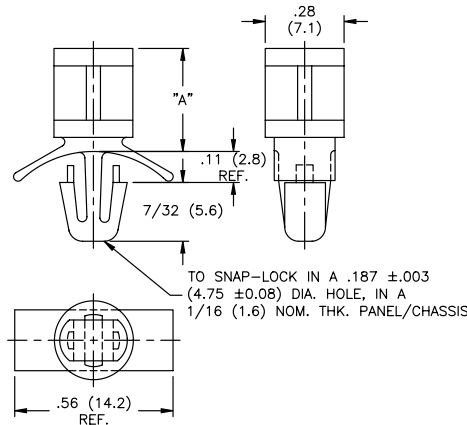
Mat'l: Nylon 6/6, RMS-01 Color: Natural Part Number	Mat'l: Flame Ret. Nyl. 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
LMSP-2-01	LMSP-2-19	1/8 (3.2)
LMSP-3-01	LMSP-3-19	3/16 (4.8)
LMSP-4-01	LMSP-4-19	1/4 (6.4)
LMSP-5-01	LMSP-5-19	5/16 (7.9)
LMSP-6-01	LMSP-6-19	3/8 (9.5)
LMSP-7-01	LMSP-7-19	7/16 (11.1)
LMSP-8-01	LMSP-8-19	1/2 (12.7)
LMSP-9-01	LMSP-9-19	9/16 (14.3)
LMSP-10-01	LMSP-10-19	5/8 (15.9)
LMSP-12-01	LMSP-12-19	3/4 (19.1)
LMSP-14-01	LMSP-14-19	7/8 (22.2)

PS Push Spacer



Features

- Supports heavily loaded PC boards often used with Richco LCBS Series

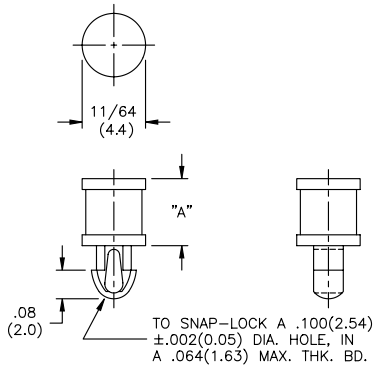


Mat'l: Nylon 6/6, RMS-01 Color: Natural Part Number	Mat'l: Flame Ret. Nyl. 6/6, RMS-19 Color: Natural Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
PS-3-01	PS-3-19	3/16 (4.8)
PS-4-01	PS-4-19	1/4 (6.4)
PS-6-01	PS-6-19	3/8 (9.5)
PS-7-01	PS-7-19	7/16 (11.1)
PS-8-01	PS-8-19	1/2 (12.7)
PS-10-01	PS-10-19	5/8 (15.9)
PS-12-01	PS-12-19	3/4 (19.1)
PS-14-01	PS-14-19	7/8 (22.2)

"Impact Modified" Nylon 6/6, RMS-73 material available by special order. To order, replace -01 with -73.

Part available for a 1/8" (3.2mm) thick chassis by special order. To order, use Part Number PS-2-XX-XX.

PST Push Spacer, Teardrop

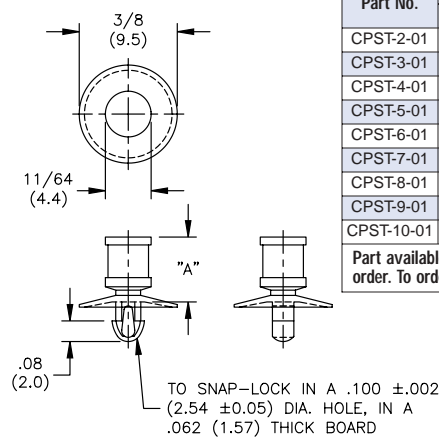


Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" ± .015 (0.4)
PST-1-01	1/16 (1.6)
PST-2-01	1/8 (3.2)
PST-3-01	3/16 (4.8)
PST-4-01	1/4 (6.4)
PST-5-01	5/16 (7.9)
PST-6-01	3/8 (9.5)
PST-7-01	7/16 (11.1)
PST-8-01	1/2 (12.7)
PST-9-01	9/16 (14.3)
PST-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

CPST Cupped Push Spacer, Teardrop

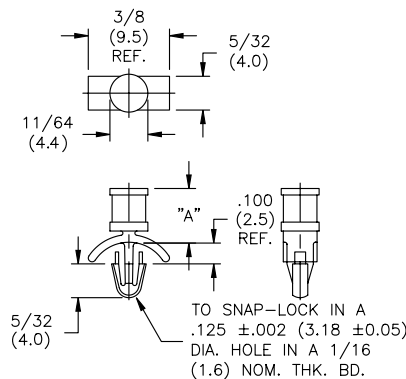
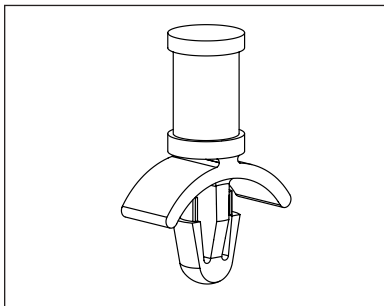


Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" ± .015 (0.4)
CPST-2-01	1/8 (3.2)
CPST-3-01	3/16 (4.8)
CPST-4-01	1/4 (6.4)
CPST-5-01	5/16 (7.9)
CPST-6-01	3/8 (9.5)
CPST-7-01	7/16 (11.1)
CPST-8-01	1/2 (12.7)
CPST-9-01	9/16 (14.3)
CPST-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

PSM Push Spacer, Mini



Material: Nylon 6/6, RMS-01
Color: Natural

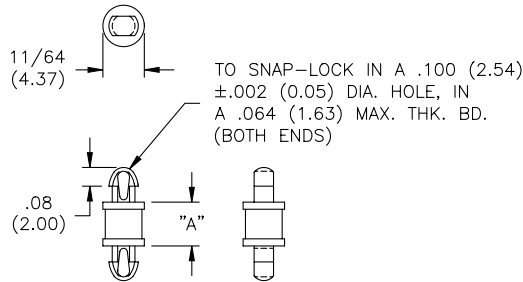
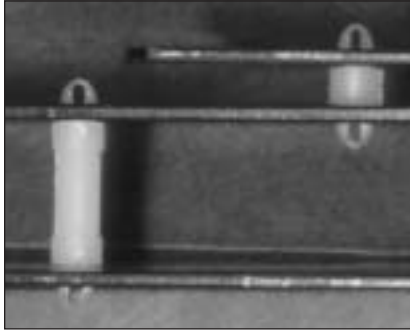
Part Number	Standard Pack: 1,000 per bag "A" ± .015 (0.4)
PSM-2-01	1/8 (3.2)
PSM-3-01	3/16 (4.8)
PSM-4-01	1/4 (6.4)
PSM-5-01	5/16 (7.9)
PSM-6-01	3/8 (9.5)
PSM-7-01	7/16 (11.1)
PSM-8-01	1/2 (12.7)
PSM-9-01	9/16 (14.3)
PSM-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

CIRCUIT BOARD HARDWARE

DLCBST

Dual Locking Circuit Board Support, Teardrop



Material: Nylon 6/6, RMS-01
Color: Natural

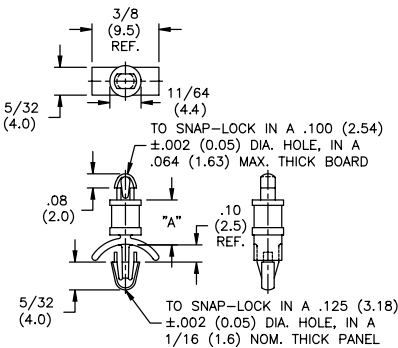
Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
DLCBST-1-01	1/16 (1.6)
DLCBST-2-01	1/8 (3.2)
DLCBST-3-01	3/16 (4.8)
DLCBST-4-01	1/4 (6.4)
DLCBST-5-01	5/16 (7.9)
DLCBST-6-01	3/8 (9.5)
DLCBST-7-01	7/16 (11.1)
DLCBST-8-01	1/2 (12.7)
DLCBST-9-01	9/16 (14.3)
DLCBST-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

CHDLCBST-XX-01 with Cupped, Teardrop-style top available by special order. CHDLCBST available in V-0 material by special order. To order, replace -01 with -19.

DLCBSAT

Dual Locking Circuit Board Support, Arrowhead/Teardrop



Material: Nylon 6/6, RMS-01
Color: Natural

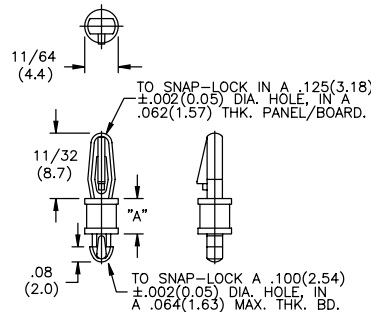
Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
DLCBSAT-2-01	1/8 (3.2)
DLCBSAT-3-01	3/16 (4.8)
DLCBSAT-4-01	1/4 (6.4)
DLCBSAT-5-01	5/16 (7.9)
DLCBSAT-6-01	3/8 (9.5)
DLCBSAT-7-01	7/16 (11.1)
DLCBSAT-8-01	1/2 (12.7)
DLCBSAT-9-01	9/16 (14.3)
DLCBSAT-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

CDLCBSAT-XX-01 with Cupped, Teardrop-style top available by special order. CDLCBSAT available in V-0 material by special order. To order, replace -01 with -19.

LCBST

Locking Circuit Board Support, Teardrop



Material: Nylon 6/6, RMS-01
Color: Natural

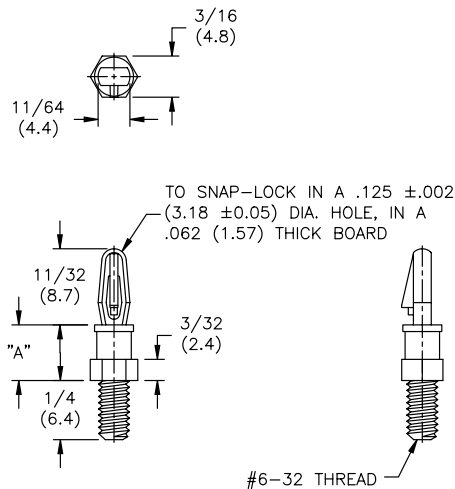
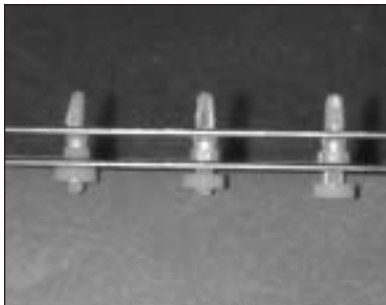
Part Number	Standard Pack: 1,000 per bag
	"A" ± .015 (0.4)
LCBST-1-01	1/16 (1.6)
LCBST-2-01	1/8 (3.2)
LCBST-3-01	3/16 (4.8)
LCBST-4-01	1/4 (6.4)
LCBST-5-01	5/16 (7.9)
LCBST-6-01	3/8 (9.5)
LCBST-7-01	7/16 (11.1)
LCBST-8-01	1/2 (12.7)
LCBST-9-01	9/16 (14.3)
LCBST-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

CLCBST-XX-01 with Cupped, Teardrop-style bottom available by special order. CLCBST available in V-0 material by special order. To order, replace -01 with -19.

SCBSM

Studded Circuit Board Support, Mini



Material: Nylon 6/6, RMS-01 • Color: Natural

Part Number	Standard Pack: 1,000 per bag
	"A" Dim ± .015 (0.4)
SCBSM-632-2-01	1/8 (3.2)
SCBSM-632-3-01	3/16 (4.8)
SCBSM-632-4-01	1/4 (6.4)
SCBSM-632-5-01	5/16 (7.9)
SCBSM-632-6-01	3/8 (9.5)
SCBSM-632-7-01	7/16 (11.1)
SCBSM-632-8-01	1/2 (12.7)
SCBSM-632-9-01	9/16 (14.3)
SCBSM-632-10-01	5/8 (15.9)

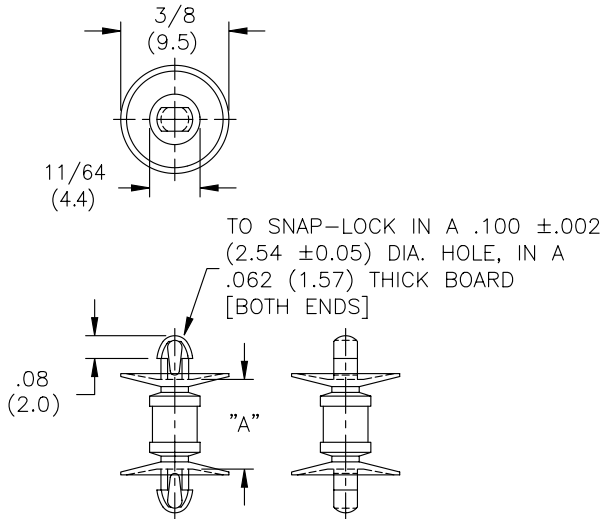
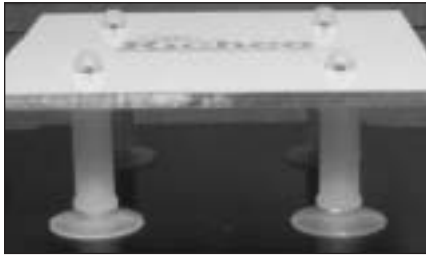
Part available in V-0 material by special order. To order, replace -01 with -19.

MSCBSM-M3-XX-01 or MSCBSM-M4-XX-01 with M3 or M4 threaded stud bottoms available by special order. MSCBSM available in V-0 material by special order. To order, replace -01 with -19.

Mating Nuts	Thread
HN#6-32-01	6-32
HN-M3-79	M-3
HN-M4-01	M-4

CDLCBST

Cupped Dual Locking Circuit Board Support, Teardrop



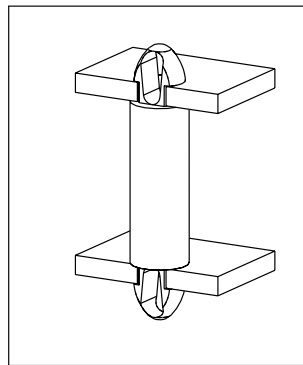
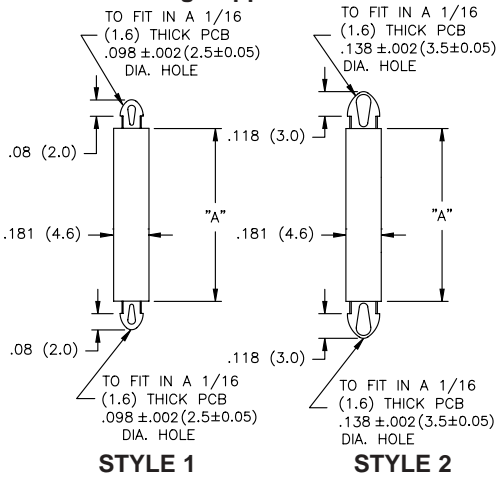
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack:
	1000 per bag "A" ± .015 (0.4)
CDLCBST-3-01	3/16 (4.8)
CDLCBST-4-01	1/4 (6.4)
CDLCBST-5-01	5/16 (7.9)
CDLCBST-6-01	3/8 (9.5)
CDLCBST-7-01	7/16 (11.1)
CDLCBST-8-01	1/2 (12.7)
CDLCBST-9-01	9/16 (14.3)
CDLCBST-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

MDLSP1 & MDLSP2

Mini Dual Locking Support Post



Typical Application

Material: Nylon 6/6, RMS-01
Color: Natural

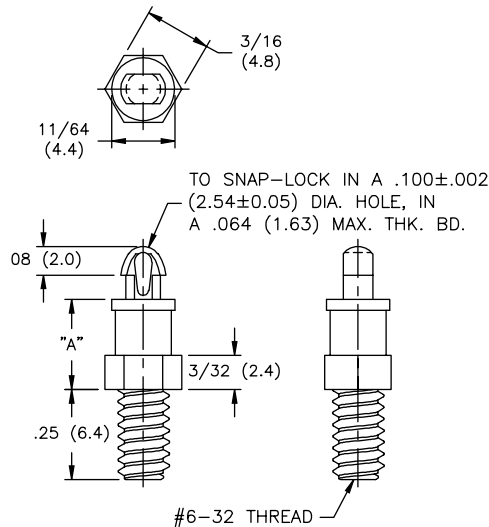
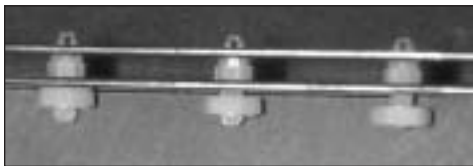
Style 1 Part No.	Style 2 Part No.	Standard Pack:
.098 (2.5) Dia. Hole	.138 (3.5) Dia. Hole	"A" ± 0.4 mm
MDLSP1-02M-01	MDLSP2-02M-01	2.0 mm
MDLSP1-04M-01	MDLSP2-04M-01	4.0 mm
MDLSP1-05M-01	MDLSP2-05M-01	5.0 mm
MDLSP1-06M-01	MDLSP2-06M-01	6.0 mm
MDLSP1-08M-01	MDLSP2-08M-01	8.0 mm
MDLSP1-10M-01	MDLSP2-10M-01	10.0 mm
MDLSP1-12M-01	MDLSP2-12M-01	12.0 mm
MDLSP1-14M-01	MDLSP2-14M-01	14.0 mm
MDLSP1-16M-01	MDLSP2-16M-01	16.0 mm
MDLSP1-18M-01	MDLSP2-18M-01	18.0 mm
MDLSP1-20M-01	MDLSP2-20M-01	20.0 mm
MDLSP1-22M-01	MDLSP2-22M-01	22.0 mm

Part available in V-0 material by special order. To order, replace -01 with -19.

MDLSPKX-XXM-01 with top to fit in a .141" (3.6) thick panel available by special order. MDLSPK available in V-0 material by special order. To order, replace -01 with -19.

SCBST

Studded Circuit Board Support, Teardrop



Mating Nuts	Thread
HN#6-32-01	#6-32
HN-M3-79	M-3
HN-M4-01	M-4

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack:
	1000 per bag "A" ± .015 (0.4)
SCBST-2-01	1/8 (3.2)
SCBST-3-01	3/16 (4.8)
SCBST-4-01	1/4 (6.4)
SCBST-5-01	5/16 (7.9)
SCBST-6-01	3/8 (9.5)
SCBST-7-01	7/16 (11.1)
SCBST-8-01	1/2 (12.7)
SCBST-9-01	9/16 (14.3)
SCBST-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

MSCBST-M3-XX-01 or MSCBST-M4-XX-01 with M3 or M4 threaded stud bottoms available by special order. MSCBST available in V-0 material by special order. To order, replace -01 with -19.

CSCBST-XX-01 with Cupped, Teardrop-style top available by special order. CSCBST available in V-0 material by special order. To order, replace -01 with -19.

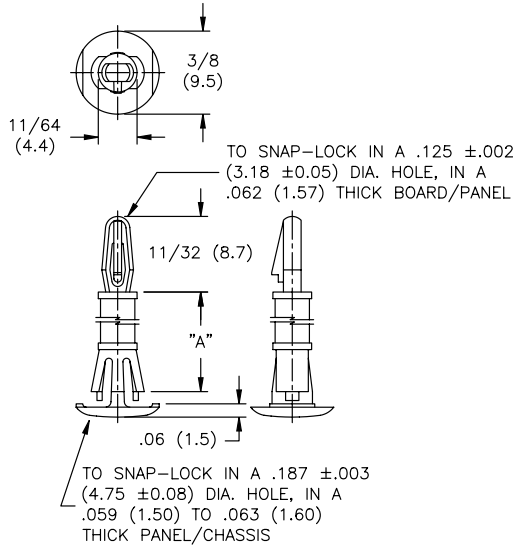
CIRCUIT BOARD HARDWARE

RLCBSR

Reverse Locking Circuit Board Support, Round Hole

Features

- Reverse locking design inserts into both holes from chassis underside



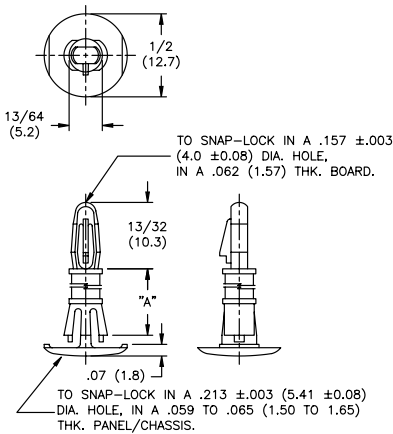
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
RLCBSR-4-01	1/4 (6.4)
RLCBSR-5-01	5/16 (7.9)
RLCBSR-6-01	3/8 (9.5)
RLCBSR-7-01	7/16 (11.1)
RLCBSR-8-01	1/2 (12.7)
RLCBSR-9-01	9/16 (14.3)
RLCBSR-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

RLCBSRE

Reverse Locking Circuit Board Support, Round Hole



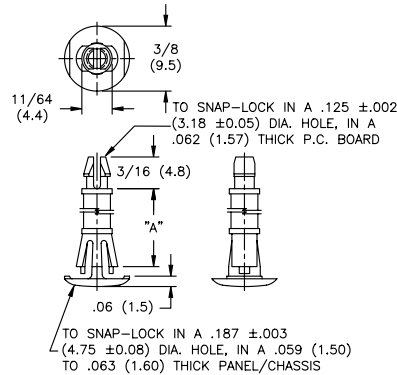
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
RLCBSRE-4-01	1/4 (6.4)
RLCBSRE-6-01	3/8 (9.5)
RLCBSRE-8-01	1/2 (12.7)
RLCBSRE-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

RLCBSRP

Reverse Locking Circuit Board Support, Pronged, Round Hole



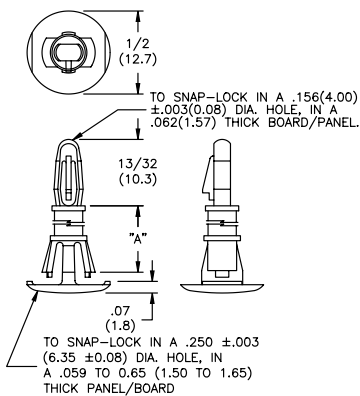
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
RLCBSRP-4-01	1/4 (6.4)
RLCBSRP-5-01	5/16 (7.9)
RLCBSRP-6-01	3/8 (9.5)
RLCBSRP-7-01	7/16 (11.1)
RLCBSRP-8-01	1/2 (12.7)
RLCBSRP-9-01	9/16 (14.3)
RLCBSRP-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

RLCBSR1

Reverse Locking, Circuit Board Support, Round Hole, Style 1



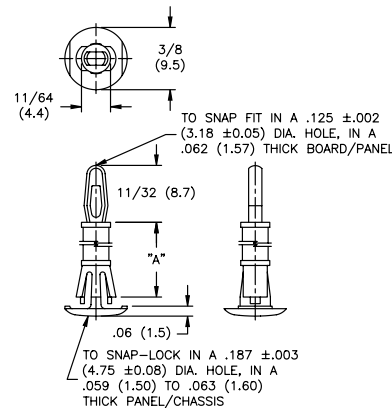
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
RLCBSR1-4-01	1/4 (6.4)
RLCBSR1-6-01	3/8 (9.5)
RLCBSR1-8-01	1/2 (12.7)
RLCBSR1-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

RCBSR

Reverse Circuit Board Support Round Hole



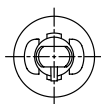
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
RCBSR-4-01	1/4 (6.4)
RCBSR-5-01	5/16 (7.9)
RCBSR-6-01	3/8 (9.5)
RCBSR-7-01	7/16 (11.1)
RCBSR-8-01	1/2 (12.7)
RCBSR-9-01	9/16 (14.3)
RCBSR-10-01	5/8 (15.9)

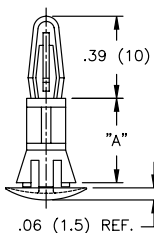
Part available in V-0 material by special order. To order, replace -01 with -19.

CRLCBSR

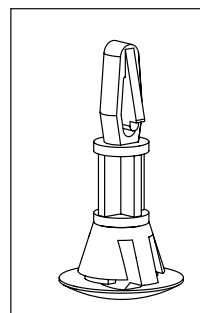
Cupped Reverse Locking Circuit Board Support, Round Hole



TO SNAP-LOCK IN A $.157 \pm .003$ (4.0 ± 0.08) DIA. HOLE, IN A $.063$ (1.6) NOMINAL THICK BOARD



TO SNAP-LOCK IN A $.236 \pm .003$ (6.0 ± 0.08) DIA. HOLE, IN A $.047$ (0.8 TO 1.2) PANEL THICKNESS



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" $\pm .015$ (0.4)
CRLCBSR-3-01	3/16 (4.8)
CRLCBSR-4-01	1/4 (6.4)
CRLCBSR-5-01	5/16 (7.9)
CRLCBSR-6-01	3/8 (9.5)
CRLCBSR-8-01	1/2 (12.7)
CRLCBSR-12-01	3/4 (19.1)

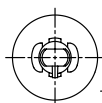
Part available in V-0 material by special order. To order, replace -01 with -19.

Features

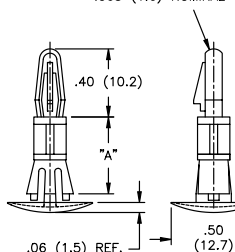
- Cupped head provides tight holding in a chassis with a wide tolerance

CRLCBSRE

Cupped Reverse Locking Circuit Board Support, Round Hole



TO SNAP-LOCK IN A $.157 \pm .003$ (4.0 ± 0.08) DIA. HOLE, IN A $.063$ (1.6) NOMINAL THICK BOARD



TO SNAP-LOCK IN A $.213 \pm .003$ (5.4 ± 0.08) DIA. HOLE, IN A $.047$ TO $.079$ (1.2 TO 2.0) PANEL THICKNESS

Material: Nylon 6/6, RMS-01
Color: Natural

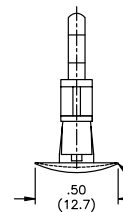
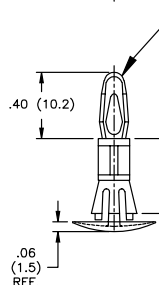
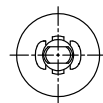
Part No.	Standard Pack: 1000 per bag "A" $\pm .015$ (0.4)
CRLCBSRE-4-01	1/4 (6.4)
CRLCBSRE-6-01	3/8 (9.5)
CRLCBSRE-8-01	1/2 (12.7)
CRLCBSRE-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

CRCBSRE

Cupped Reverse Circuit Board Support, Round Hole

TO SNAP-FIT IN A $.156 \pm .003$ (4.00 ± 0.08) DIA. HOLE, IN A $.062$ (1.57) THICK BOARD



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" $\pm .015$ (0.4)
CRCBSRE-3-01	3/16 (4.8)
CRCBSRE-4-01	1/4 (6.4)
CRCBSRE-6-01	3/8 (9.5)
CRCBSRE-8-01	1/2 (12.7)
CRCBSRE-10-1	5/8 (15.9)

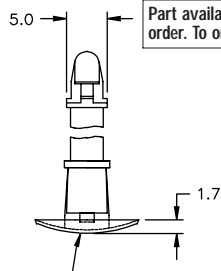
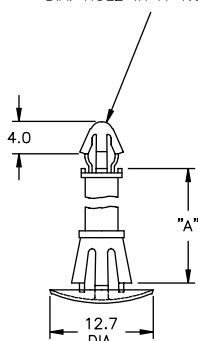
Part available in V-0 material by special order. To order, replace -01 with -19.



CRLCBSK-2

Cupped Reverse Locking Circuit Board Support Metric

TO SNAP-LOCK IN A 4.00 ± 0.08 DIA. HOLE IN A 1.6 PANEL THKS.



TO SNAP LOCK INTO A 5.40 ± 0.08 DIA. HOLE IN A 1.0-1.6 THICK CHASSIS

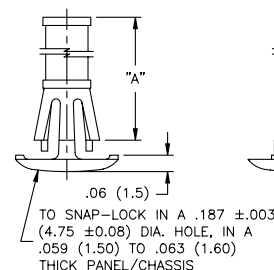
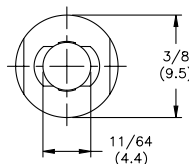
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" ± 0.4 mm
CRLCBSK-2-8-01	8.0 mm
CRLCBSK-2-10-01	10.0 mm
CRLCBSK-2-12-01	12.0 mm
CRLCBSK-2-14-01	14.0 mm

Part available in V-0 material by special order. To order, replace -01 with -19.

RLCBSRS

Reverse Locking Circuit Board Support, Round Hole Standoff



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" $\pm .015$ (0.4)
RLCBSRS-4-01	1/4 (6.4)
RLCBSRS-5-01	5/16 (7.9)
RLCBSRS-6-01	3/8 (9.5)
RLCBSRS-7-01	7/16 (11.1)
RLCBSRS-8-01	1/2 (12.7)
RLCBSRS-9-01	9/16 (14.3)
RLCBSRS-10-01	5/8 (15.9)

Part available in V-0 material by special order. To order, replace -01 with -19.

Features

- Supports heavy loaded PC boards; often used with Richco RLCBSR Series

CIRCUIT BOARD HARDWARE

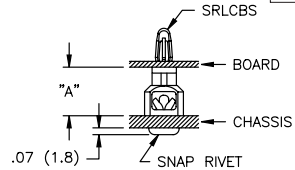
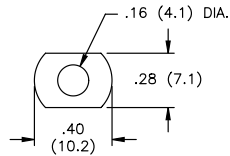
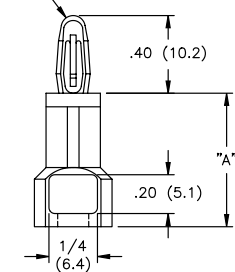
SRLCBS

Snap Rivet Locking Circuit Board Support



Use Richco Rivet #	For Chassis Thickness
SR-4050	.026 (0.7) - .062 (1.6)
SR-4060	.062 (1.5) - .105 (2.7)
SR-4070	.105 (2.7) - .145 (3.7)
SR-4080	.145 (3.7) - .184 (4.7)
SR-4100	.223 (5.7) - .263 (6.7)

TO SNAP-LOCK IN A $.156 \pm .003$ (4.0 ± 0.08) DIA. HOLE, IN A $.062$ (1.6) THICK PANEL/BOARD



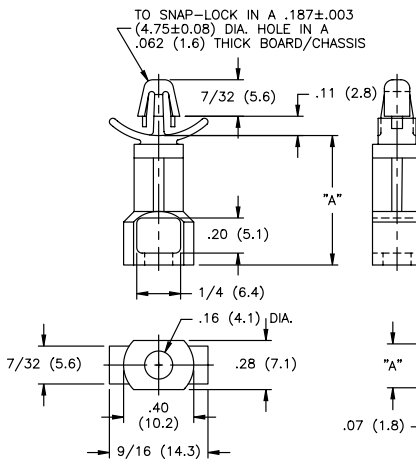
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack:
	1000 per bag
	"A" $\pm .015$ (0.4)
SRLCBS-6-01	3/8 (9.5)
SRLCBS-7-01	7/16 (11.1)
SRLCBS-8-01	1/2 (12.7)
SRLCBS-10-01	5/8 (15.9)
SRLCBS-12-01	3/4 (19.1)
SRLCBS-14-01	7/8 (22.2)
SRLCBS-16-01	1 (25.4)

Part available in V-0 material by special order. To order, replace -01 with -19.

SRLAHS

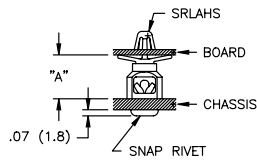
Snap Rivet Locking Arrowhead Support



Material: Nylon 6/6, RMS-01
Color: Natural

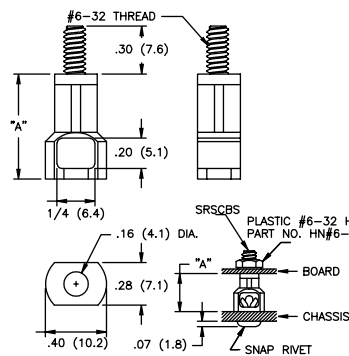
Part No.	Standard Pack:
	1000 per bag
	"A" $\pm .015$ (0.4)
SRLAHS-7-01	7/16 (11.1)
SRLAHS-8-01	1/2 (12.7)
SRLAHS-10-01	5/8 (15.9)
SRLAHS-12-01	3/4 (19.1)
SRLAHS-14-01	7/8 (22.2)
SRLAHS-16-01	1 (25.4)

Part available in V-0 material by special order. To order, replace -01 with -19.



SRSCBS

Snap Rivet Studded Circuit Board Support



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack:
	1000 per bag
	"A" $\pm .015$ (0.4)
SRSCBS-6-01	3/8 (9.5)
SRSCBS-7-01	7/16 (11.1)
SRSCBS-8-01	1/2 (12.7)
SRSCBS-10-01	5/8 (15.9)
SRSCBS-12-01	3/4 (19.1)
SRSCBS-14-01	7/8 (22.2)
SRSCBS-16-01	1 (25.4)

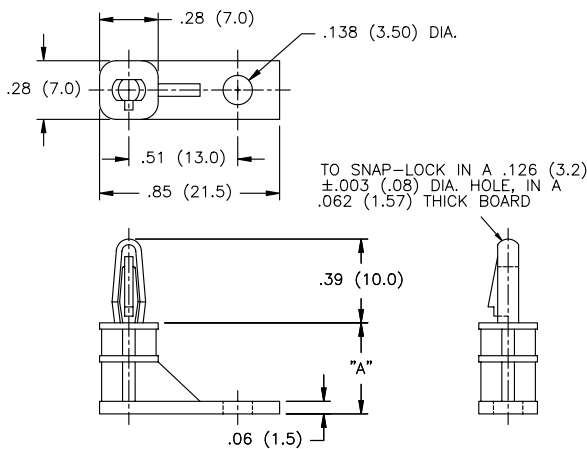
Part available in V-0 material by special order. To order, replace -01 with -19.

Part available with an M-3 or M-4 thread by special order. To order use part number SRSCBS-M3-XX-01 for M-3 thread. Use part number SRSCBS-M4-XX-01 for M-4 thread

Mating Nuts	Threads
HN#6-32-01	6-32
HN-M3-79	M3
HN-M4-01	M4

LCBS-L

Locking Circuit Board Support, L-Style



Material: Nylon 6/6, RMS-01
Color: Natural

Part Number	Standard Pack:
	1,000 per bag
	"A" $\pm .015$ (0.4)
LCBS-L-5-01	0.3 (7.6)
LCBS-L-6-01	3/8 (9.5)
LCBS-L-7-01	7/16 (11.1)
LCBS-L-8-01	1/2 (12.7)
LCBS-L-9-01	9/16 (14.3)
LCBS-L-10-01	5/8 (15.9)

Installs with a #4 (M-3) Screw or Rivet

Part available in V-0 material by special order. To order, replace -01 with -19.

BHL Blind Hole Series



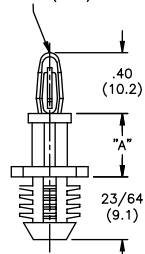
Material: Nylon 6/6, RMS-01
Color: Natural

BHL Series Part No.	BHDL Series Part No.	BHC Series Part No.	Standard Pack: 1000 per bag				
			"A" ± .015 (0.4)	"B" ± .015 (0.4)	"C" ± .015 (0.4)	Hole Dia. ±.003 (0.08)	Panel Thickness
BHL-3-01	—	BHC-3-01	3/16 (4.8)	7/16 (11.1)	5/16 (7.9)	.312 (7.92)	1/4 (6.4) Min.
BHL-4-01	BHDL-4-01	BHC-4-01	1/4 (6.4)				
BHL-6-01	BHDL-6-01	BHC-6-01	3/8 (9.5)				
BHL-7-01	BHDL-7-01	BHC-7-01	7/16 (11.1)				
BHL-8-01	BHDL-8-01	BHC-8-01	1/2 (12.7)				
BHL-10-01	BHDL-10-01	BHC-10-01	5/8 (15.9)				
BHL-12-01	BHDL-12-01	BHC-12-01	3/4 (19.1)				
BHL-14-01	BHDL-14-01	BHC-14-01	7/8 (22.2)				
BHL1-3-01	—	BHC1-3-01	3/16 (4.8)	3/8 (9.5)	17/64 (6.7)	.250 (6.35)	
BHL1-4-01	BHDL1-4-01	BHC1-4-01	1/4 (6.4)				
BHL1-6-01	BHDL1-6-01	BHC1-6-01	3/8 (9.5)				
BHL1-7-01	BHDL1-7-01	BHC1-7-01	7/16 (11.1)				
BHL1-8-01	BHDL1-8-01	BHC1-8-01	1/2 (12.7)				
BHL1-10-01	BHDL1-10-01	BHC1-10-01	5/8 (15.9)				
BHL1-12-01	BHDL1-12-01	BHC1-12-01	3/4 (19.1)				
BHL1-14-01	BHDL1-14-01	BHC1-14-01	7/8 (22.2)				

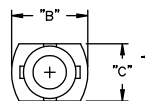
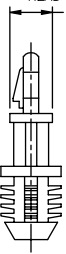
Part available in V-0 material by special order. To order, replace -01 with -19.

BHL Blind Hole Series

TO SNAP LOCK IN .156±.003 (4.00±0.08) DIA. HOLE IN A .062 (1.57) THICK BOARD.



Ø.28 RELEASABLE LOCKING HEAD (7.1)

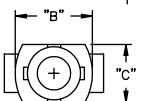
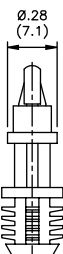
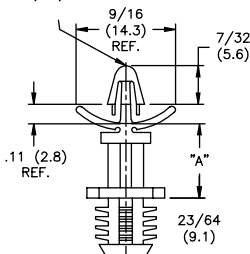


SEE TABLE FOR MOUNTING HOLE SPECIFICATIONS



BHDL Blind Hole Series

TO SNAP-LOCK IN A .156±.003 (4.00±0.08) DIA. HOLE IN A 1/16 (1.6) NOMINAL THICK BOARD.

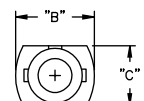
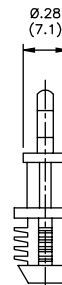
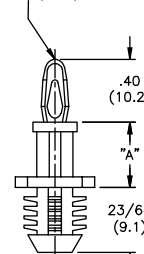


SEE TABLE FOR MOUNTING HOLE SPECIFICATIONS



BHC Blind Hole Series

TO SNAP-FIT IN .156±.003 (4.00±0.08) DIA. HOLE IN A .062 (1.57) THICK BOARD.



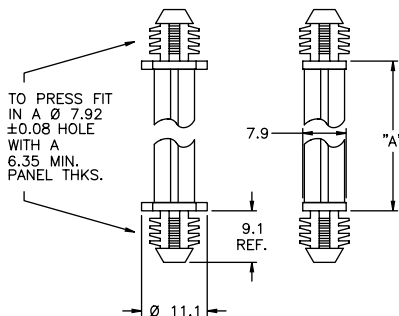
SEE TABLE FOR MOUNTING HOLE SPECIFICATIONS



Features

- Flexible ribs lock into round, threaded, punched or drilled blind holes in wood, metal (threaded), particle board, rubber and more

BHDF Blind Hole Series



TO PRESS FIT IN A Ø 7.92 ±0.08 HOLE WITH A 6.35 MIN. PANEL THKS.

Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± 0.4
BHDF-3M-01	3.0 mm
BHDF-4M-01	4.0 mm
BHDF-6M-01	6.0 mm
BHDF-8M-01	8.0 mm
BHDF-10M-01	10.0 mm
BHDF-12M-01	12.0 mm
BHDF-14M-01	14.0 mm
BHDF-16M-01	16.0 mm
BHDF-18M-01	18.0 mm
BHDF-20M-01	20.0 mm

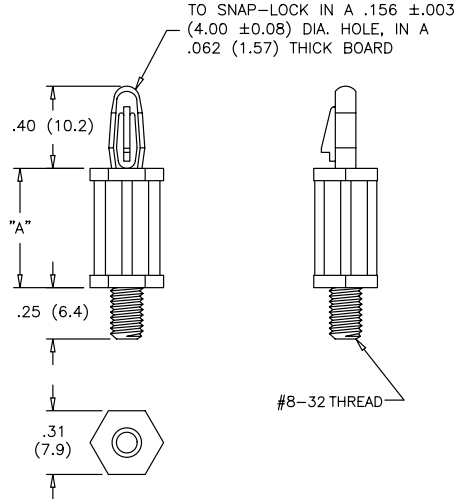
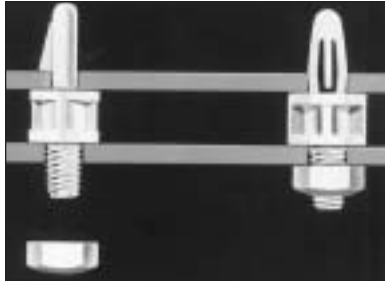
Part available in V-0 material by special order. To order, replace -01 with -19.

Part available with one end only to fit a .250" (6.35) diameter hole by special order.

CIRCUIT BOARD HARDWARE

SCBS

Studded Circuit Board Support



Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19
Color: Natural

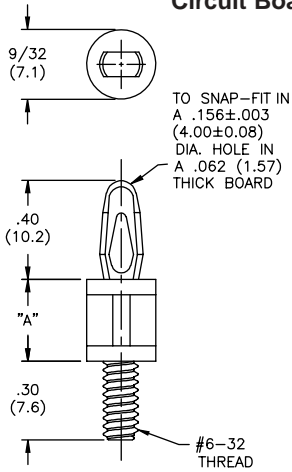
Part No.		Standard Pack: 1000 per bag
Nylon 6/6	Flame Retardant Nylon	"A" ± .015 (0.4)
SCBS-4-01	SCBS-4-19	1/4 (6.4)
SCBS-6-01	SCBS-6-19	3/8 (9.5)
SCBS-8-01	SCBS-8-19	1/2 (12.7)
SCBS-10-01	SCBS-10-19	5/8 (15.9)
SCBS-12-01	SCBS-12-19	3/4 (19.1)
SCBS-14-01	SCBS-14-19	7/8 (22.2)
SCBS-16-01	SCBS-16-19	1 (25.4)
SCBS-18-01	SCBS-18-19	1 - 1/8 (28.6)
SCBS-22.5-01	SCBS-22.5-19	1 - 13/32 (35.7)

MSCBS-XX-01 with M4 threaded bottom available by special order. MSCBS available in V-0 material by special order. To order, replace -01 with -19.

Mating Nuts	Thread
HN-8-32-01	#8-32
HN-M4-01	M-4

CBS-TM

Circuit Board Support, Threaded Male

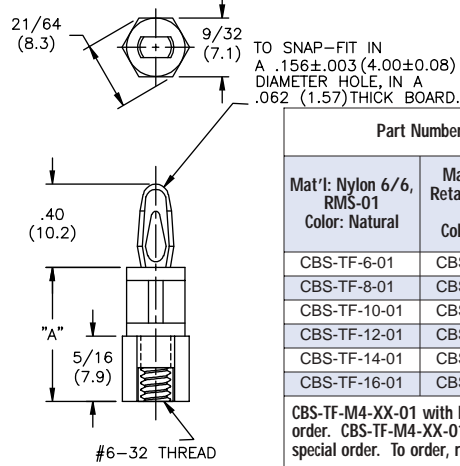


Part Number		Standard Pack: 1000 per bag
Mat'l: Nylon 6/6, RMS-01 Color: Natural	Mat'l: Flame Retardant Nylon, RMS-19 Color: Natural	A ± .015 (0.4)
CBS-TM-4-01	CBS-TM-4-19	1/4 (6.4)
CBS-TM-6-01	CBS-TM-6-19	3/8 (9.5)
CBS-TM-8-01	CBS-TM-8-19	1/2 (12.7)
CBS-TM-10-01	CBS-TM-10-19	5/8 (15.9)
CBS-TM-12-01	CBS-TM-12-19	3/4 (19.1)
CBS-TM-14-01	CBS-TM-14-19	7/8 (22.2)
CBS-TM-16-01	CBS-TM-16-19	1 (25.4)
CBS-TM-18-01	CBS-TM-18-19	1 - 1/8 (28.6)
CBS-TM-20-01	CBS-TM-20-19	1 - 1/4 (31.8)
CBS-TM-22-01	CBS-TM-22-19	1 - 3/8 (34.9)
CBS-TM-24-01	CBS-TM-24-19	1 - 1/2 (38.1)

CBS-TM-M4-XX-01 with M4 thread available by special order. CBS-TM-M4-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

CBS-TF

Circuit Board Support, Threaded Female

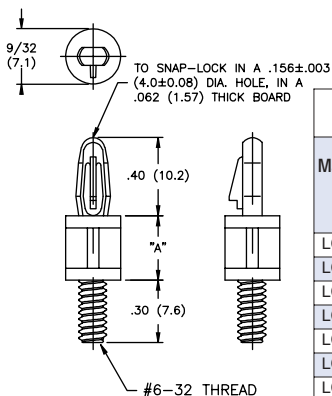


Part Number		Standard Pack: 1000 per bag
Mat'l: Nylon 6/6, RMS-01 Color: Natural	Mat'l: Flame Retardant Nylon, RMS-19 Color: Natural	A ± .015 (0.4)
CBS-TF-6-01	CBS-TF-6-19	3/8 (9.5)
CBS-TF-8-01	CBS-TF-8-19	1/2 (12.7)
CBS-TF-10-01	CBS-TF-10-19	5/8 (15.9)
CBS-TF-12-01	CBS-TF-12-19	3/4 (19.1)
CBS-TF-14-01	CBS-TF-14-19	7/8 (22.2)
CBS-TF-16-01	CBS-TF-16-19	1 (25.4)

CBS-TF-M4-XX-01 with M4 thread available by special order. CBS-TF-M4-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

LCBS-TM

Locking Circuit Board Support, Threaded Male

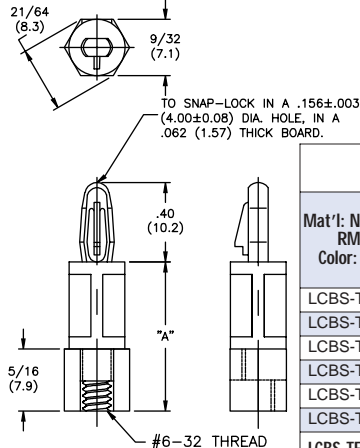


Part Number		Standard Pack: 1000 per bag
Mat'l: Nylon 6/6, RMS-01 Color: Natural	Mat'l: Flame Retardant Nylon, RMS-19 Color: Natural	A ± .015 (0.4)
LCBS-TM-4-01	LCBS-TM-4-19	1/4 (6.4)
LCBS-TM-6-01	LCBS-TM-6-19	3/8 (9.5)
LCBS-TM-8-01	LCBS-TM-8-19	1/2 (12.7)
LCBS-TM-10-01	LCBS-TM-10-19	5/8 (15.9)
LCBS-TM-12-01	LCBS-TM-12-19	3/4 (19.1)
LCBS-TM-14-01	LCBS-TM-14-19	7/8 (22.2)
LCBS-TM-16-01	LCBS-TM-16-19	1 (25.4)

LCBS-TM-M4-XX-01 with M4 thread available by special order. LCBS-TM-M4-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

LCBS-TF

Locking Circuit Board Support, Threaded Female

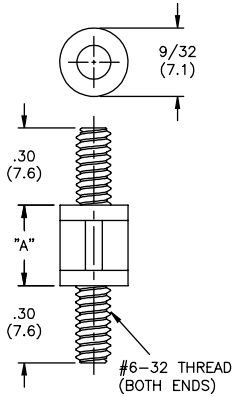


Part Number		Standard Pack: 1000 per bag
Mat'l: Nylon 6/6, RMS-01 Color: Natural	Mat'l: Flame Retardant Nylon, RMS-19 Color: Natural	A ± .015 (0.4)
LCBS-TF-6-01	LCBS-TF-6-19	3/8 (9.5)
LCBS-TF-8-01	LCBS-TF-8-19	1/2 (12.7)
LCBS-TF-10-01	LCBS-TF-10-19	5/8 (15.9)
LCBS-TF-12-01	LCBS-TF-12-19	3/4 (19.1)
LCBS-TF-14-01	LCBS-TF-14-19	7/8 (22.2)
LCBS-TF-16-01	LCBS-TF-16-19	1 (25.4)

LCBS-TF-M4-XX-01 with M4 thread available by special order. LCBS-TF-M4-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

CBS-TMM

Circuit Board Support, Threaded Male-Male

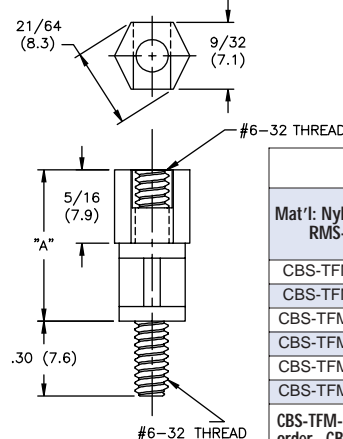


Part Number		Standard Pack: 1000 per bag
Mat'l: Nylon 6/6, RMS-01 Color: Natural	Mat'l: Flame Retardant Nylon, RMS-19 Color: Natural	A ± .015 (0.4)
CBS-TMM-4-01	CBS-TMM-4-19	1/4 (6.4)
CBS-TMM-6-01	CBS-TMM-6-19	3/8 (9.5)
CBS-TMM-8-01	CBS-TMM-8-19	1/2 (12.7)
CBS-TMM-10-01	CBS-TMM-10-19	5/8 (15.9)
CBS-TMM-12-01	CBS-TMM-12-19	3/4 (19.1)
CBS-TMM-14-01	CBS-TMM-14-19	7/8 (22.2)
CBS-TMM-16-01	CBS-TMM-16-19	1 (25.4)

CBS-TMM-M4-XX-01 with M4 thread available by special order. CBS-TMM-M4-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

CBS-TFM

Circuit Board Support, Threaded Female-Male

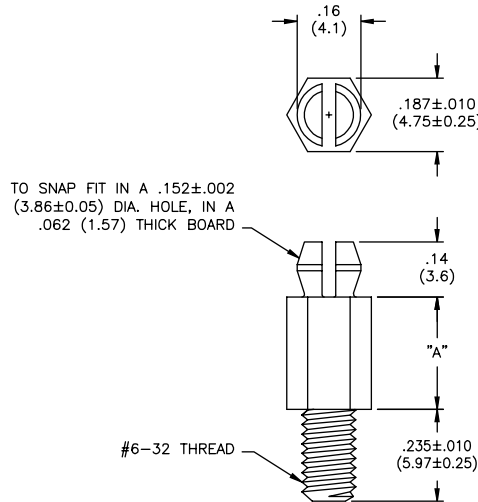
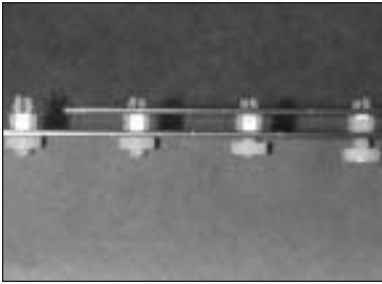


Part Number		Standard Pack: 1000 per bag
Mat'l: Nylon 6/6, RMS-01	Mat'l: Flame Retardant Nylon, RMS-19	"A" ± .015 (0.4)
CBS-TFM-6-01	CBS-TFM-6-19	3/8 (9.5)
CBS-TFM-8-01	CBS-TFM-8-19	1/2 (12.7)
CBS-TFM-10-01	CBS-TFM-10-19	5/8 (15.9)
CBS-TFM-12-01	CBS-TFM-12-19	3/4 (19.1)
CBS-TFM-14-01	CBS-TFM-14-19	7/8 (22.2)
CBS-TFM-16-01	CBS-TFM-16-19	1 (25.4)

CBS-TFM-M4-XX-01 with M4 thread available by special order. CBS-TFM-M4-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

HMSP-TM

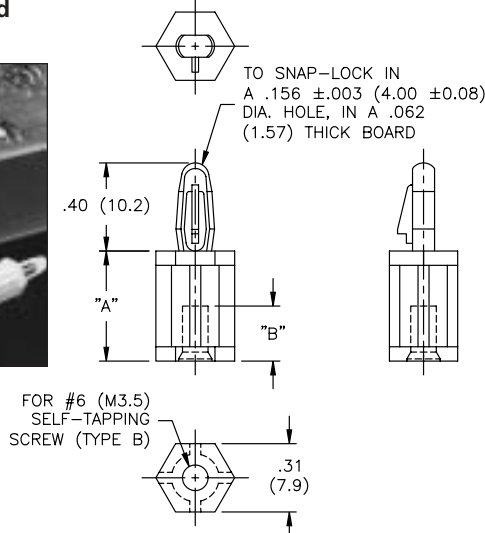
Hex Mini Support Post Threaded Male



Material: Nylon 6/6, RMS-01 • Color: Natural	
Part No.	Standard Pack: 1000 per bag "A" ± .015 (0.4)
HMSP-TM-2-01	1/8 (3.2)
HMSP-TM-3-01	3/16 (4.8)
HMSP-TM-4-01	1/4 (6.4)
HMSP-TM-6-01	3/8 (9.5)
HMSP-TM-8-01	1/2 (12.7)
HMSP-TM-10-01	5/8 (15.9)
HMSP-TM-12-01	3/4 (19.1)
HMSP-TM-14-01	7/8 (22.2)

TCBS

Screw Mount Circuit Board Support

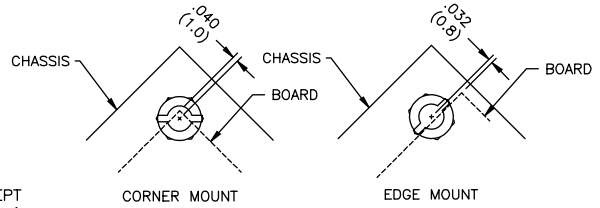
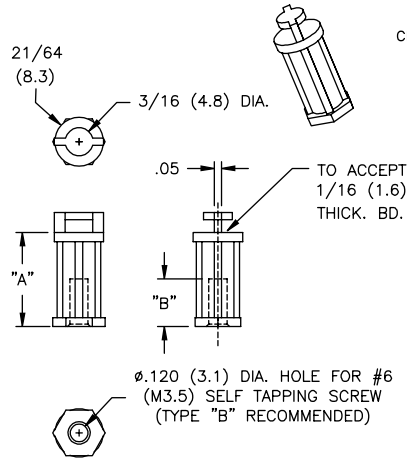


Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19 / Color: Natural			
Nylon Part No.	Flame Retardant Nylon Part No.	Standard Pack: 1000 per bag	
		"A" ± .015 (0.4)	Dim B ± .015 (0.4)
TCBS-4-01	TCBS-4-19	1/4 (6.4)	13/64 (5.2)
TCBS-6-01	TCBS-6-19	3/8 (9.5)	
TCBS-8-01	TCBS-8-19	1/2 (12.7)	
TCBS-10-01	TCBS-10-19	5/8 (15.9)	
TCBS-12-01	TCBS-12-19	3/4 (19.1)	
TCBS-14-01	TCBS-14-19	7/8 (22.2)	
TCBS-16-01	TCBS-16-19	1 (25.4)	
TCBS-18-01	TCBS-18-19	1 - 1/8 (28.6)	
TCBS-20-01	TCBS-20-19	1 - 1/4 (31.8)	
TCBS-22.5-01	TCBS-22.5-19	1 - 13/32 (35.7)	

CIRCUIT BOARD HARDWARE

TCEHCBS

Screw Mount Corner / Edge Holding Circuit Board Support



Material: Nylon 6/6, RMS-01 • Color: Natural

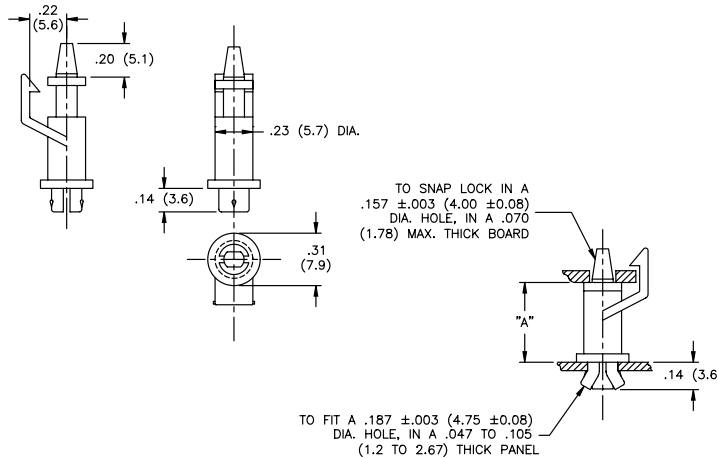
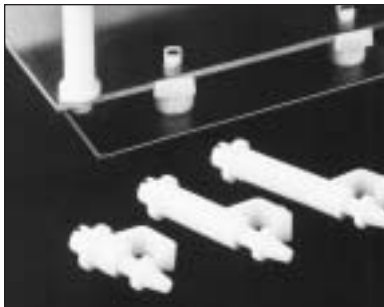
Part No.	Standard Pack: 1000 per bag	
	"A" ± .015 (0.4)	"B" ± .015 (0.4)
TCEHCBS-4-01	1/4 (6.4)	13/64 (5.2)
TCEHCBS-6-01	3/8 (9.5)	5/16 (7.9)
TCEHCBS-8-01	1/2 (12.7)	
TCEHCBS-10-01	5/8 (15.9)	
TCEHCBS-12-01	3/4 (19.1)	
TCEHCBS-14-01	7/8 (22.2)	

Part available in V-0 material by special order. To order, replace -01 with -19.

MSCEHCBS-XX-01 with .250" long, M4 threaded stud bottom available by special order. MSCEHCBS-XX-01 available in V-0 material by special order. To order, replace -01 with -19.

REHCBS

Rivet Edge Hold Circuit Board Support



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack:
	1000 per bag
REHCBS-4-01	1/4 (6.4)
REHCBS-5-01	5/16 (7.9)
REHCBS-6-01	3/8 (9.5)
REHCBS-8-01	1/2 (12.7)
REHCBS-11-01	11/16 (17.5)
REHCBS-12-01	3/4 (19.1)
REHCBS-14-01	7/8 (22.2)
REHCBS-16-01	1 (25.4)
REHCBS-19.2-01	1.2 (30.5)
REHCBS-20-01	1 - 1/4 (31.8)

Features

- REHCBS-T assembly tool sold separately

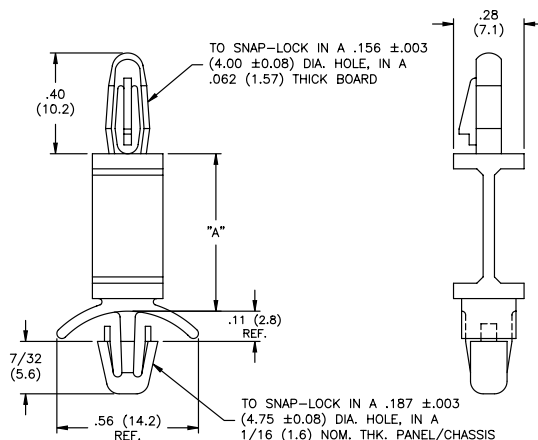
FLCBSU

Flexible Circuit Board Support "U" Style



Features

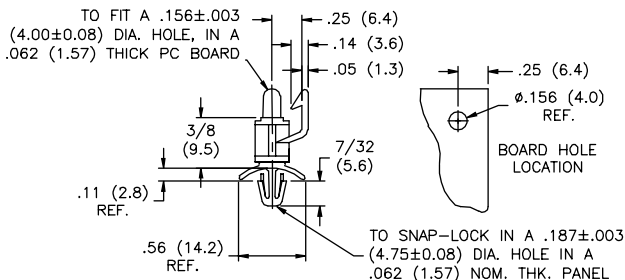
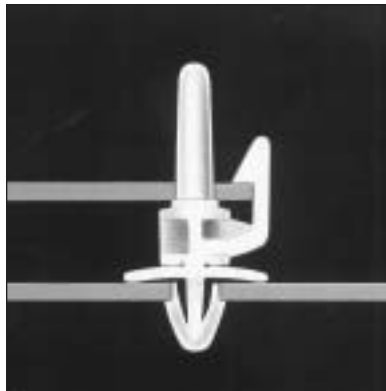
- Flexible spacer allows access to underside of board for maintenance and repair; use with Richco LSBS Series



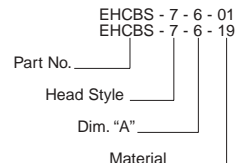
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack:
	1000 per bag
FLCBSU-6-01	3/8 (9.5)
FLCBSU-7-01	7/16 (11.1)
FLCBSU-8-01	1/2 (12.7)
FLCBSU-10-01	5/8 (15.9)
FLCBSU-12-01	3/4 (19.1)
FLCBSU-14-01	7/8 (22.2)
FLCBSU-16-01	1 (25.4)
FLCBSU-18-01	1 - 1/8 (28.6)
FLCBSU-20-01	1 - 1/4 (31.8)
FLCBSU-22-01	1 - 3/8 (34.9)

EHCBS & TEHCBS Edge Holding Circuit Board Support



Part Number Example:

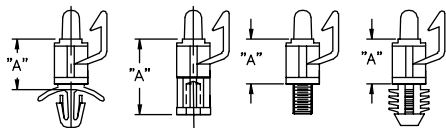


Features

- 24 different design combinations
- No panel hole required on style -9 and -10 only
- Easily removable by pulling the clip to release the board
- Varying above board protrusion options

Material: Nylon 6/6, RMS-01, Flame Retardant Nylon, RMS-19 • Color: Natural						
Standard Pack: 1000 per bag						
HEAD STYLE						
BASE STYLE	Standard Nose Standard Clip "C" = .29 (7.5)	-8 Standard Nose Short Clip "C" = .24 (6.1)	-6 Short Nose Short Clip "C" = .24 (6.1)	-7 Short Nose Standard Clip "C" = .29 (7.5)	-9 No Nose Short Clip "C" = .24 (6.1)	-10 No Nose Standard Clip "C" = .29 (7.5)
 TO SNAP-LOCK IN A $.187 \pm .003$ (4.75 ± 0.08) DIA. HOLE IN A $.062$ (1.57) NOM. THK. PANEL.	EHCBS-A-01 EHCBS-A-19	EHCBS-8-A-01 EHCBS-8-A-19	EHCBS-6-A-01 EHCBS-6-A-19	EHCBS-7-A-01 EHCBS-7-A-19	EHCBS-9-A-01 EHCBS-9-A-19	EHCBS-10-A-01 EHCBS-10-A-19
 FOR #6 (M3.5), SELF TAPPING SCREW.	TEHCBS-A-01 TEHCBS-A-19	TEHCBS-8-A-01 TEHCBS-8-A-19	TEHCBS-6-A-01 TEHCBS-6-A-19	TEHCBS-7-A-01 TEHCBS-7-A-19	TEHCBS-9-A-01 TEHCBS-9-A-19	TEHCBS-10-A-01 TEHCBS-10-A-19

Select base style from left table column and head style from top of the table. Where the column and rows intersect is the corresponding Part No.



For Dim. "A" see chart

"A"	Size
-4*	1/4 (6.4)
-5	5/16 (7.9)
-6	3/8 (9.5)
-8	1/2 (12.7)
-10	5/8 (15.9)
-12	3/4 (19.1)
-14	7/8 (22.2)
-16	1 (25.4)

*Only TEHCBS-XX-4-01 or -19 available in 1/4 (6.4) size

TO PRESS-FIT IN A $.312 \pm .003$ (7.92 ± 0.08) DIA. HOLE, IN A $.25$ (6.4) MIN. THICK PANEL



BHECBS

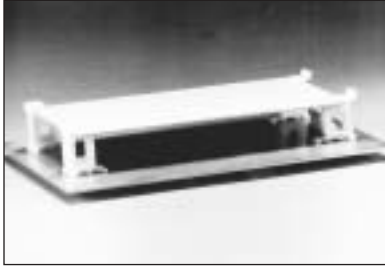
MSEHCBS

MSEHCBS-XX-XX-01 and BHEHCBS-XX-XX-01 with bottoms shown above available by special order. MSEHCBS-XX-XX-01 and BHEHCBS-XX-XX-01 available in V-0 material by special order. To order replace -01 with -19.

CIRCUIT BOARD HARDWARE

UBM & UBMC

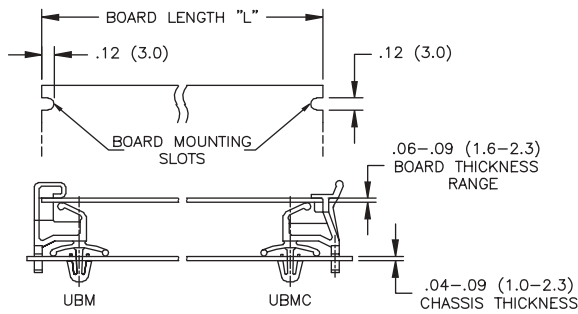
Universal Board Mount & Universal Board Mount with Release



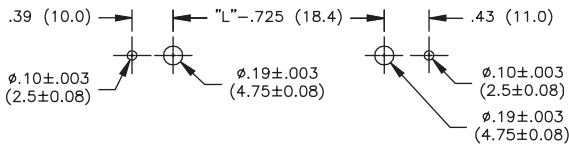
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.		Standard Pack: 500 per bag "A" ± .010 (0.3)
UBM-12.3M-01	UBMC-12.3M-01	.48 (12.2)
UBM-15.5M-01	UBMC-15.5M-01	.61 (15.5)
UBM-22.0M-01	UBMC-22.0M-01	.87 (22.1)

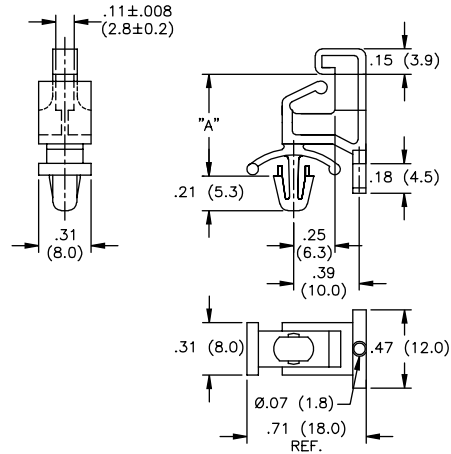
MOUNTING LAYOUT



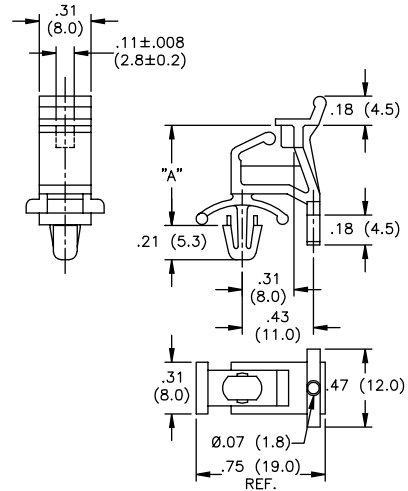
CHASSIS HOLE PATTERN



UBM

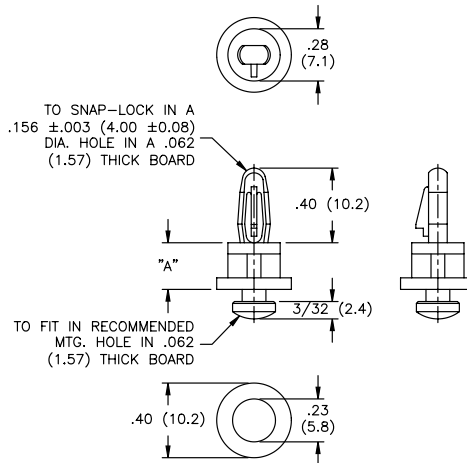
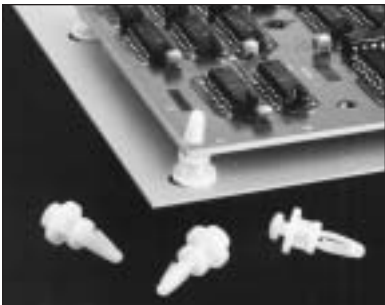


UBMC



KSLBN

Key Slot with Locking Bayonet Nose

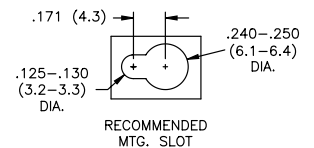


Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag "A" ± .015 (0.4)
KSLBN-2-01	1/8 (3.2)
KSLBN-4-01	1/4 (6.4)
KSLBN-6-01	3/8 (9.5)
KSLBN-8-01	1/2 (12.7)

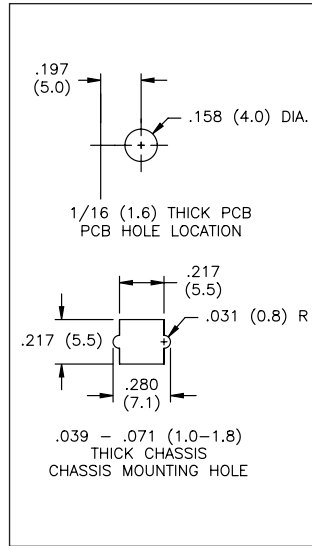
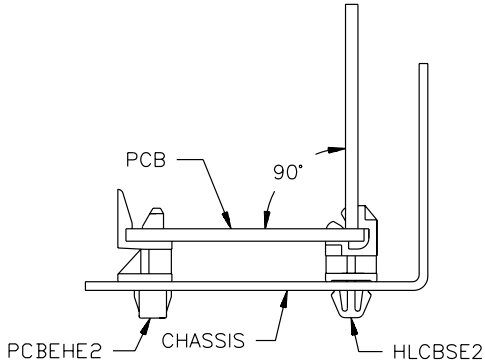
Part available in V-0 material by special order. To order, replace -01 with -19.

Bayonet nose available for .093 (2.36) thick board by special order. To order, use part number KSLBN-2-XX-01.

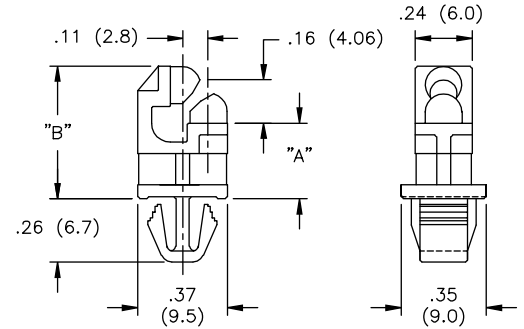


HLCBSE2 & PCBEHE2

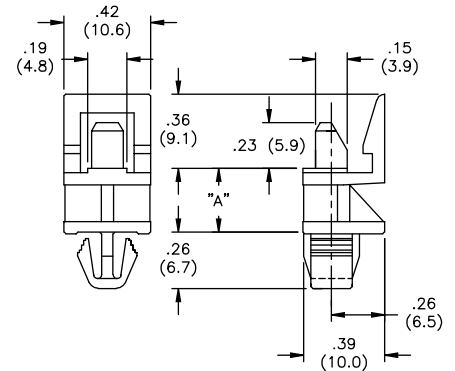
Hinged Locking Circuit Board Support System



HLCBSE2



PCBEHE2



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag	
	"A" ± 0.4mm	"B" ± 0.4mm
HLCBSE2-4M-01	4.0 mm	10.0 mm
HLCBSE2-6M-01	6.0 mm	12.0 mm
HLCBSE2-8M-01	8.0 mm	14.0 mm
HLCBSE2-10M-01	10.0 mm	16.0 mm
HLCBSE2-12M-01	12.0 mm	18.0 mm
HLCBSE2-14M-01	14.0 mm	20.0 mm
HLCBSE2-25M-01	25.0 mm	31.0 mm
HLCBSE2-30M-01	30.0 mm	36.0 mm

Part available in V-0 material by special order. To order, replace -01 with -19.

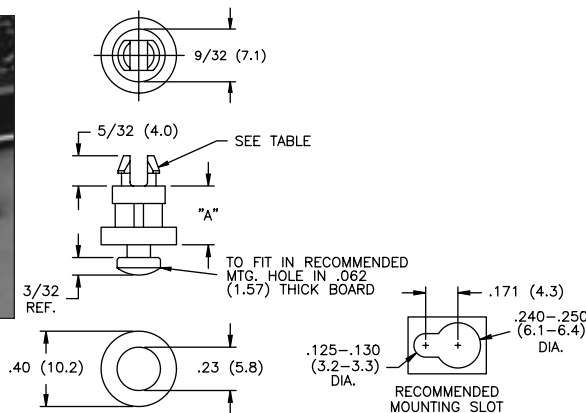
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± 0.4mm
PCBEHE2-4M-01	4.0 mm
PCBEHE2-6M-01	6.0 mm
PCBEHE2-8M-01	8.0 mm
PCBEHE2-10M-01	10.0 mm
PCBEHE2-12M-01	12.0 mm
PCBEHE2-14M-01	14.0 mm
PCBEHE2-25M-01	25.0 mm
PCBEHE2-30M-01	30.0 mm

Part available in V-0 material by special order. To order, replace -01 with -19.

KSLSP1 & KSLSP2

Key Slot Locking Support Post



Material: Nylon 6/6, RMS-01
Color: Natural

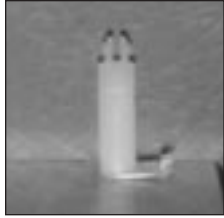
Part No.	Standard Pack: 1000 per bag	
	Board Hole Dia.	"A" ± .015 (0.4)
KSLSP1-3-01	TO SNAP - LOCK IN A .156 (4.00) ±.003 (0.08) DIA HOLE IN A .062 (1.57) THICK BOARD	3/16 (4.8)
KSLSP1-4-01		1/4 (6.4)
KSLSP1-6-01		3/8 (9.5)
KSLSP1-8-01		1/2 (12.7)
KSLSP1-10-01		5/8 (15.9)
KSLSP1-12-01		3/4 (19.1)
KSLSP1-14-01	7/8 (22.2)	
KSLSP1-16-01	1 (25.4)	
KSLSP2-3-01	TO SNAP - LOCK IN A .187 (4.75) ±.003 (0.08) DIA HOLE IN A .062 (1.57) THICK BOARD	3/16 (4.8)
KSLSP2-4-01		1/4 (6.4)
KSLSP2-6-01		3/8 (9.5)
KSLSP2-8-01		1/2 (12.7)
KSLSP2-10-01		5/8 (15.9)
KSLSP2-12-01		3/4 (19.1)
KSLSP2-14-01	7/8 (22.2)	
KSLSP2-16-01	1 (25.4)	

Part available in V-0 material by special order. To order, replace -01 with -19.

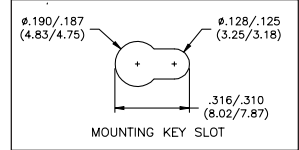
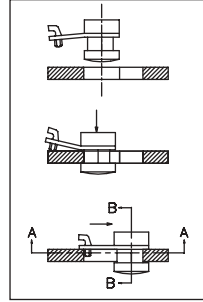
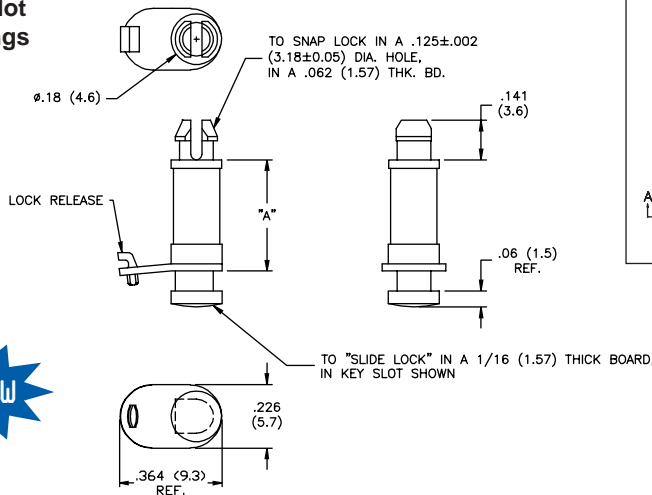
CIRCUIT BOARD HARDWARE

A

LKSPL Locking Key Slot Locking 2 Prongs



Patented

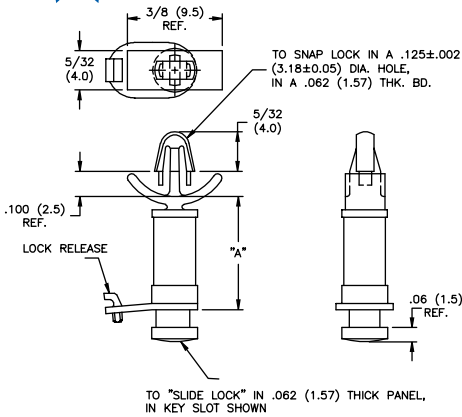


Material: Nylon 6/6, RMS-01
Color: Natural

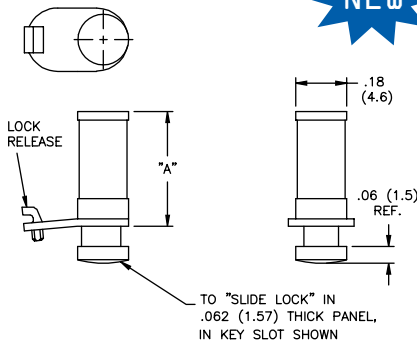
Part No.	Standard Pack: 1000
	"A" ± .015 (0.4)
LKSXX-2-2-01	1/8 (3.2)
LKSXX-2-3-01	3/16 (4.8)
LKSXX-2-4-01	1/4 (6.4)
LKSXX-2-5-01	5/16 (7.9)
LKSXX-2-6-01	3/8 (9.5)
LKSXX-2-7-01	7/16 (11.1)
LKSXX-2-8-01	1/2 (12.7)
LKSXX-2-9-01	9/16 (14.3)
LKSXX-2-10-01	5/8 (15.9)

Replace "XX" with Part Suffix Number
Part available in V-0 material by special order. To order replace -01 with -19.

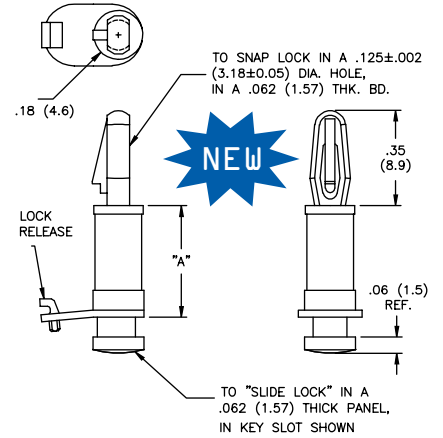
NEW LKSA Locking Key Slot Arrow Head



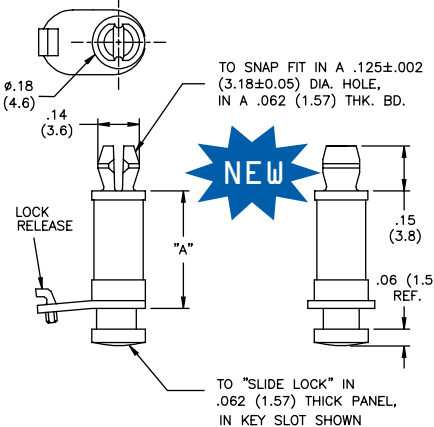
LKSF Locking Key Slot Slot Spacer



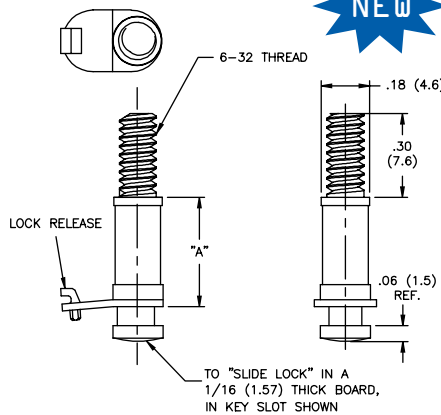
LKSL Locking Key Slot Bayonet Nose



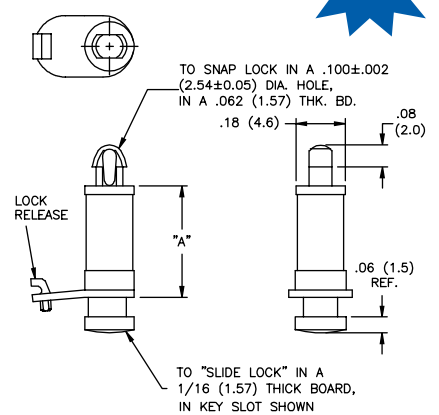
LKSPN Locking Key Slot Non Locking 2 Prongs

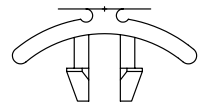
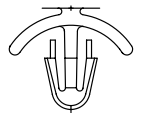
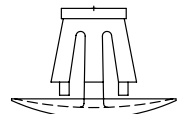
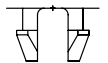
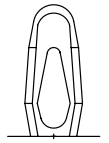
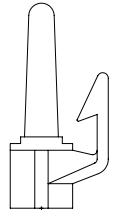
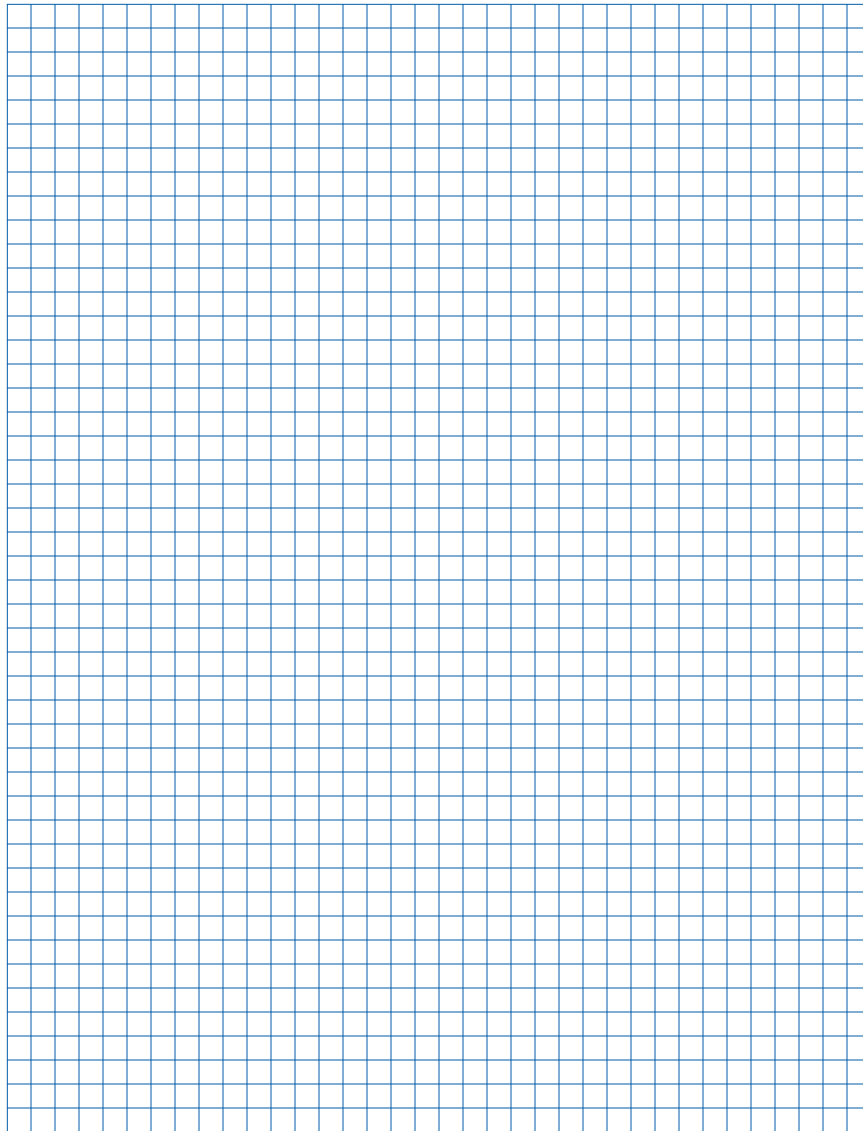
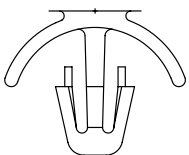
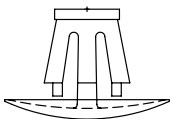
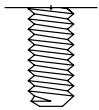
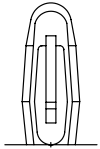
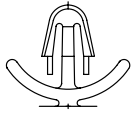


LKSS Locking Key Slot 6-32 Stud



LKST Locking Key Slot Tear Drop





CAN'T FIND A STANDARD PART TO MEET YOUR NEEDS?

Richco is here to help...

Sketch your design and fax directly to Richco at 773-539-6770.

CIRCUIT BOARD HARDWARE

A

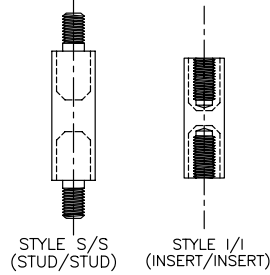
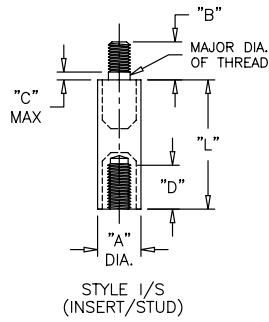
TNSP/TNSP-M

Threaded Nylon Sturdipost



- Provides sturdy, insulated spacing for high power electronic applications
- Three threaded termination styles available: Insert/Stud, Stud/Stud, Insert/Insert

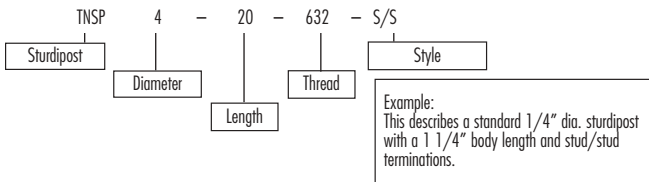
Standard



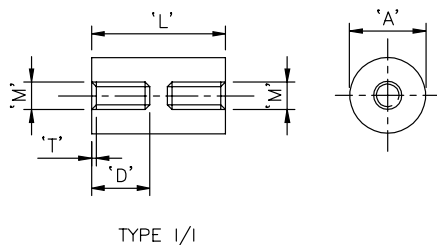
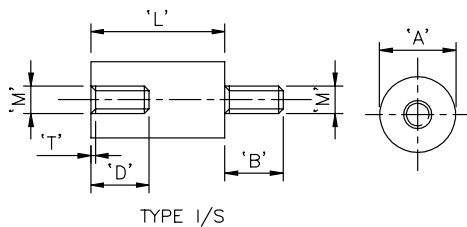
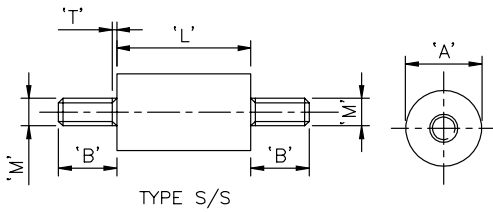
Material: Nylon 6/6, RMS-01. Inserts - Brass. Studs - Brass • Color: Natural

Part No.	Standard Pack: 100 per bag					Thread
	"L" Body Length	"A" Body Diameter	"B" Stud Length	"C" Not Threaded	"D" Insert Depth	
TNSP4-12-632	3/4 (19.1)	1/4 (6.4)	1/4 (6.4)	1/16 (2.0)	11/64 (4.4)	#6-32
TNSP4-16-632	1 (25.4)					
TNSP4-20-632	1 - 1/4 (31.8)					
TNSP4-24-632	1 - 1/2 (38.1)					
TNSP4-28-632	1 - 3/4 (44.5)					
TNSP4-32-632	2 (50.8)	3/8 (9.5)	1/4 (6.4)	1/16 (2.0)	3/16 (4.8)	#8-32
TNSP6-16-832	1 (25.4)					
TNSP6-20-832	1 - 1/4 (31.8)					
TNSP6-24-832	1 - 1/2 (38.1)					
TNSP6-28-832	1 - 3/4 (44.5)					
TNSP6-32-832	2 (50.8)	1/2 (12.7)	9/32 (7.1)	3/32 (2.4)	3/16 (4.8)	#10-24
TNSP6-36-832	2 - 1/4 (57.2)					
TNSP6-40-832	2 - 1/2 (63.5)					
TNSP8-14-1024	7/8 (22.2)					
TNSP8-20-1024	1 - 1/4 (31.8)					
TNSP8-24-1024	1 - 1/2 (38.1)	5/8 (15.9)	7/16 (11.1)	1/8 (3.2)	21/64 (8.3)	#1/4-20
TNSP8-28-1024	1 - 3/4 (44.5)					
TNSP8-32-1024	2 (50.8)					
TNSP8-36-1024	2 - 1/4 (57.2)					
TNSP8-40-1024	2 - 1/2 (63.5)					
TNSP10-20-1/420	1 - 1/4 (31.8)	5/8 (15.9)	7/16 (11.1)	1/8 (3.2)	21/64 (8.3)	#1/4-20
TNSP10-24-1/420	1 - 1/2 (38.1)					
TNSP10-28-1/420	1 - 3/4 (44.5)					
TNSP10-32-1/420	2 (50.8)					
TNSP10-36-1/420	2 - 1/4 (57.2)					
TNSP10-40-1/420	2-1/2 (63.5)					

PART NUMBER ORDER CODE



Metric

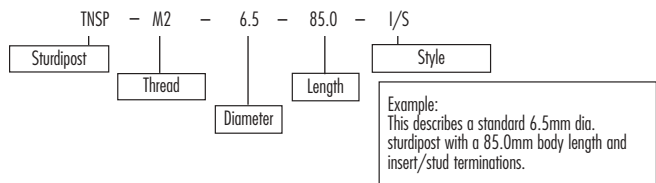


Material: Nylon 6/6, RMS-139. Inserts - Brass. Studs - Brass • Color: Natural

Part No.	Standard Pack: 1000					Thread "M"
	"L" Body Length	"A" Body Diameter	"B" Stud Length	"D" Insert Depth	Unthreaded Length "T"	
TNSP-M2-6.5-L-TYPE	10.0-105.0	6.5	6.0	6.0	0.60	M2
TNSP-M2-8.0-L-TYPE		8.0				
TNSP-M2.5-6.5-L-TYPE		6.5			0.68	M2.5
TNSP-M2.5-8.0-L-TYPE		8.0				
TNSP-M3-6.5-L-TYPE	12.7-105.0	6.5	6.0	6.0	0.75	M3
TNSP-M3-8.0-L-TYPE		8.0				
TNSP-M4-8.0-L-TYPE		8.0			1.05	M4
TNSP-M4-9.5-L-TYPE	9.5					
TNSP-M5-9.5-L-TYPE	19.0-105.0	9.5	10.0	10.0	1.20	M5
TNSP-M6-12.7-L-TYPE	22.0-105.0	12.7	12.7	12.7	1.50	M6
TNSP-M8-15.9-L-TYPE	30.0-105.0	15.9	14.0	14.0	1.88	M8
TNSP-M8-19.0-L-TYPE		19.0				
TNSP-M10-25.0-L-TYPE	38.0-105.0	25.0	20.0	20.0	2.25	M10
TNSP-M10-30.0-L-TYPE	45.0-105.0					

Unthreaded Length: 1.5 Pitch Max.
"L" length available in 1.0mm increments

PART NUMBER ORDER CODE



HTNSP

Hex Threaded Nylon Sturdipost - Metric

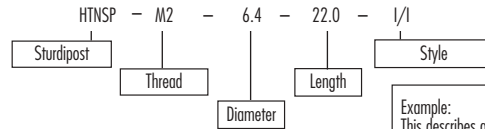


Material: Body - Nylon 6, RMS-139; Inserts - Brass • Color: Natural

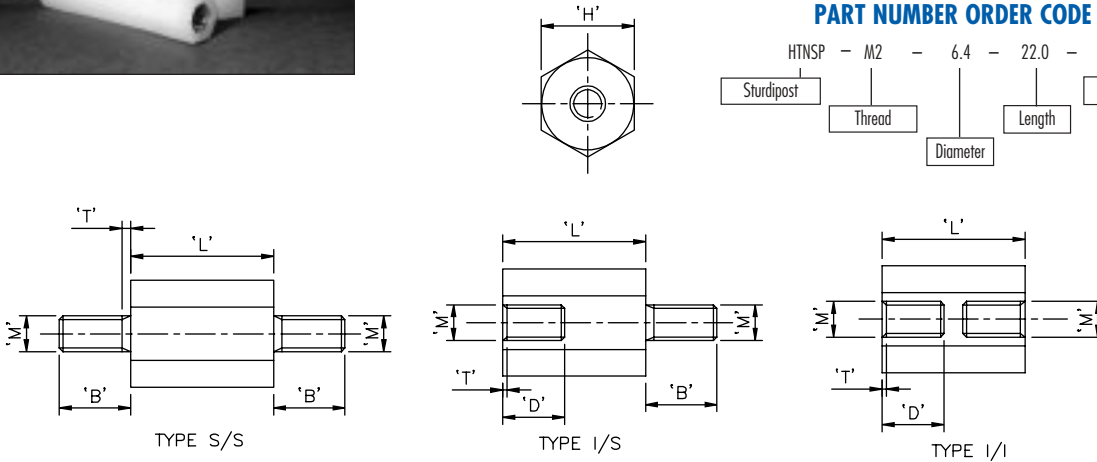
Part No.	Standard Pack: 100					
	"L" Body Length	"H" Body Diameter	"B" Stud Length	"D" Insert Depth	"T"	Thread "M"
HTNSP-M2-6.4-L-TYPE	15.0-50.0	6.4	6.0	6.0	0.60	M2
HTNSP-M2.5-6.4-L-TYPE					0.68	M2.5
HTNSP-M3-6.4-L-TYPE					0.75	M3
HTNSP-M4-8.0-L-TYPE	15.0-75.0	8.0			1.05	M4
HTNSP-M5-9.5-L-TYPE	20.0-75.0	9.5	10.0	10.0	1.20	M5
HTNSP-M6-12.7-L-TYPE	25.0-75.0	12.7	12.7	12.7	1.50	M6

Unthreaded Length: 1.5 Pitch Max.
 "L" length available in 1.0mm increments

PART NUMBER ORDER CODE



Example:
 This describes a standard 6.4mm cross flats sturdipost with a 22.0mm body length and insert/insert terminations.



MTNSP

Micro Threaded Nylon Sturdipost - Metric

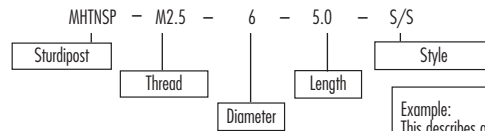


Material: Body - Nylon 6, RMS-133; Inserts - Brass • Color: Natural

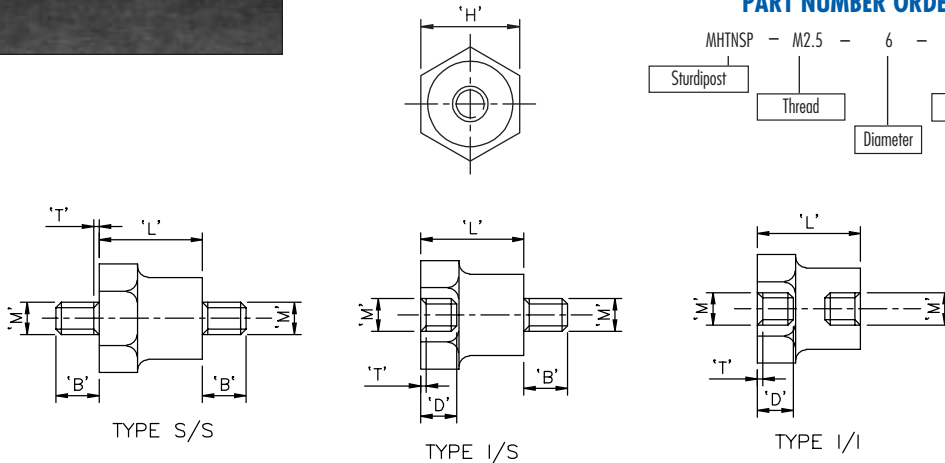
Part No.	Standard Pack: 100					
	"L" Body Length	"H" Body Diameter	"B" Stud Length	"D" Insert Depth	"T"	Thread "M"
MTNSP-M2.5-6-L-S/S	4.0-12.0	6.0	6.0	-	-	M2.5
MTNSP-M2.5-6-L-I/S	7.0-12.0			4.0	0.68	
MTNSP-M2.5-6-L-I/I	9.0-12.0		-	-	-	
MTNSP-M3-7-L-S/S	4.0-12.0	7.0	6.0	-	-	M3
MTNSP-M3-7-L-I/S	7.0-12.0			4.0	0.75	
MTNSP-M3-7-L-I/I	9.0-12.0		-	-	-	

Unthreaded Length: 1.5 Pitch Max.
 "L" length available in 1.0mm increments

PART NUMBER ORDER CODE



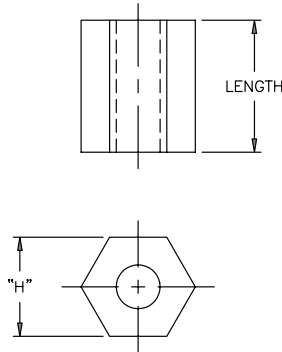
Example:
 This describes a standard 6mm cross flats sturdipost with a 5.0mm body length and stud/stud terminations.



CIRCUIT BOARD HARDWARE

TALHS/TBRHS

Hex Standoff - Aluminum/Brass



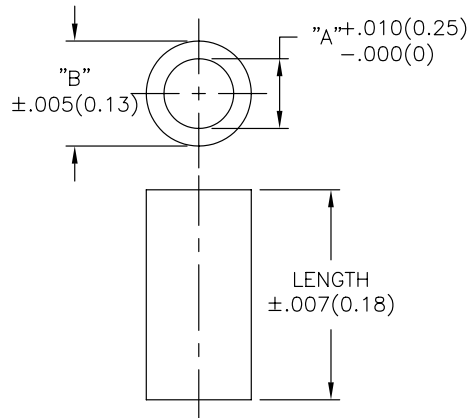
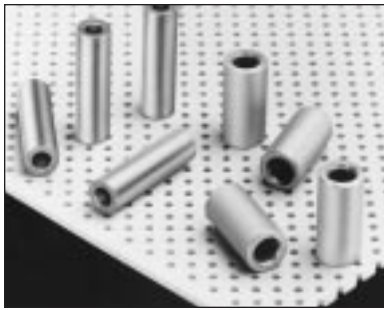
- Internal threads manufactured to Commercial 2B per Handbook H-28, Part 1, Screw Thread Standards (Federal)

Material: Brass Zinc (clear chromate) finish			
Thread Size 6-32	Thread Size 8-32	Thread Size 10-32	Standard Pack: 100 per bag
H: 1/4 (6.4)	H: 1/4 (6.4)	H: 3/8 (9.5)	Length
TBRHS6-2	TBRHS8-2	TBRHS10-2	1/4 (6.4)
TBRHS6-3	TBRHS8-3	TBRHS10-3	3/8 (9.5)
TBRHS6-4	TBRHS8-4	TBRHS10-4	1/2 (12.7)
TBRHS6-5	TBRHS8-5	TBRHS10-5	5/8 (15.9)
TBRHS6-6	TBRHS8-6	TBRHS10-6	3/4 (19.1)
TBRHS6-8	TBRHS8-8	TBRHS10-8	1 (25.4)

Material: Aluminum Iridite (Gold #14) finish			
Thread Size 6-32	Thread Size 8-32	Thread Size 10-32	Standard Pack: 100 per bag
H: 1/4 (6.4)	H: 1/4 (6.4)	H: 3/8 (9.5)	Length
TALHS6-2	TALHS8-2	TALHS10-2	1/4 (6.4)
TALHS6-3	TALHS8-3	TALHS10-3	3/8 (9.5)
TALHS6-4	TALHS8-4	TALHS10-4	1/2 (12.7)
TALHS6-5	TALHS8-5	TALHS10-5	5/8 (15.9)
TALHS6-6	TALHS8-6	TALHS10-6	3/4 (19.1)
TALHS6-8	TALHS8-8	TALHS10-8	1 (25.4)

ALSS/BRSS

Round Spacer - Aluminum or Brass

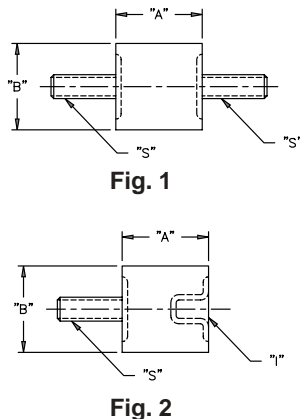


Material: Brass Finish: Zinc qq-z-325, Type II, CL-3 Clear Chromate				
For #4 Screw	For #6 Screw	For #8 Screw	For #10 Screw	Standard Pack: 100 per bag
A: .114 (2.9) B: 1/4 (6.4)	A: .140 (3.5) B: 1/4 (6.4)	A: .166 (4.2) B: 1/4 (6.4)	A: .192 (4.9) B: 3/8 (9.5)	Length
BRSS4-2	BRSS6-2	BRSS8-2	BRSS10-2	1/4 (6.4)
BRSS4-3	BRSS6-3	BRSS8-3	BRSS10-3	3/8 (9.5)
BRSS4-4	BRSS6-4	BRSS8-4	BRSS10-4	1/2 (12.7)
BRSS4-5	BRSS6-5	BRSS8-5	BRSS10-5	5/8 (15.9)
BRSS4-6	BRSS6-6	BRSS8-6	BRSS10-6	3/4 (19.1)
BRSS4-8	BRSS6-8	BRSS8-8	BRSS10-8	1 (25.4)

Material: Aluminum Finish: Iridite - Gold #14, MIL-C-5541				
For #4 Screw	For #6 Screw	For #8 Screw	For #10 Screw	Standard Pack: 100 per bag
A: .114 (2.9) B: 1/4 (6.4)	A: .140 (3.5) B: 1/4 (6.4)	A: .166 (4.2) B: 1/4 (6.4)	A: .192 (4.9) B: 3/8 (9.5)	Length
ALSS4-2	ALSS6-2	ALSS8-2	ALSS10-2	1/4 (6.4)
ALSS4-3	ALSS6-3	ALSS8-3	ALSS10-3	3/8 (9.5)
ALSS4-4	ALSS6-4	ALSS8-4	ALSS10-4	1/2 (12.7)
ALSS4-5	ALSS6-5	ALSS8-5	ALSS10-5	5/8 (15.9)
ALSS4-6	ALSS6-6	ALSS8-6	ALSS10-6	3/4 (19.1)
ALSS4-8	ALSS6-8	ALSS8-8	ALSS10-8	1 (25.4)

QM

Quiet Mount



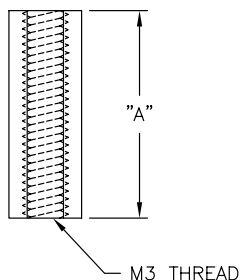
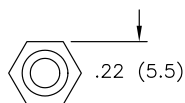
- Absorbs vibration, noise and shock

Material: Natural Rubber, 40 Durometer; Threaded metal inserts, 1010-1020 steel yellow chromate over zinc plate Color: Black					
Part No.	Standard Pack: 100 per bag				
	"A" ±.020"	"B" Dia. ±.020"	Fig. No.	Insert Thd "I"	Stud Thd "S"
QM1	7/16 (11.1)	7/16 (11.1)	1	—	#6-32 X 1/4
QM1T			2	#6-32 X 3/16	
QM2	7/16 (11.1)	7/16 (11.1)	1	—	#6-32 X 1/2
QM2T			2	#6-32 X 3/16	
QM3	1/2 (12.7)	9/16 (14.3)	1	—	#8-32 X 3/8
QM3T			2	#8-32 X 3/16	
QM4	1/2 (12.7)	9/16 (14.3)	1	—	#8-32 X 3/8
QM4T			2	#8-32 X 3/16	
QM5	3/4 (19.1)	1 (25.4)	1	—	#1/4-20 X 1/2
QM5T			2	#1/4-20 X 3/8	
QM6	3/4 (19.1)	1 - 1/4 (31.8)	1	—	#5/16-18 X 9/16
QM6T			2	#5/16-18 X 3/8	
QM7	9/16 (14.3)	1/2 (12.7)	1	—	#10-32 X 3/8
QM7T			2	#10-32 X 3/16	

NOTE: SHEAR AND COMPRESSION LOAD RATINGS -

In order to suggest the best design for your application and due to the many variables involved in the design of these parts, we suggest that the parameters pertinent to your particular application be sent to our office. Thank you.

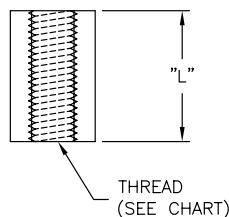
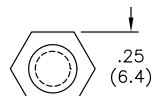
MTS Metric Threaded Spacer



Material: Nylon 6/6
Color: Natural

Part No.	Standard Pack: 1000 per bag "A"	
MTS-6	.25 (6.35)	±.010 (±0.25)
MTS-8	.31 (8.0)	
MTS-10S	.39 (10.0)	
MTS-10	.41 (10.5)	
MTS-11	.43 (11.0)	
MTS-12	.47 (12.0)	
MTS-13	.50 (12.8)	
MTS-14	.55 (14.0)	
MTS-16	.63 (16.0)	
MTS-17	.67 (17.0)	
MTS-18	.72 (18.2)	±.012 (±0.31)
MTS-20	.79 (20.1)	
MTS-22	.87 (22.1)	
MTS-24	.94 (23.9)	
MTS-26	1.04 (26.4)	±.014 (±0.36)
MTS-28	1.09 (27.7)	
MTS-30	1.18 (30.0)	

HTS Hex Threaded Standoff



Material: Nylon 6/6, RMS-48
Color: Natural

Part No.			Standard Pack: 1000 per bag "L"
#4-40 Thread	#6-32 Thread	#8-32 Thread	
HTS4-4-48	HTS6-4-48	HTS8-4-48	1/4 (6.4)
HTS4-5-48	HTS6-5-48	HTS8-5-48	5/16 (7.9)
HTS4-6-48	HTS6-6-48	HTS8-6-48	3/8 (9.5)
HTS4-7-48	HTS6-7-48	HTS8-7-48	7/16 (11.1)
HTS4-8-48	HTS6-8-48	HTS8-8-48	1/2 (12.7)
HTS4-9-48	HTS6-9-48	HTS8-9-48	9/16 (14.3)
HTS4-10-48	HTS6-10-48	HTS8-10-48	5/8 (15.9)
HTS4-11-48	HTS6-11-48	HTS8-11-48	11/16 (17.5)
HTS4-12-48	HTS6-12-48	HTS8-12-48	3/4 (19.1)
HTS4-13-48	HTS6-13-48	HTS8-13-48	13/16 (20.6)
HTS4-14-48	HTS6-14-48	HTS8-14-48	7/8 (22.2)
HTS4-16-48	HTS6-16-48	HTS8-16-48	1 (25.4)

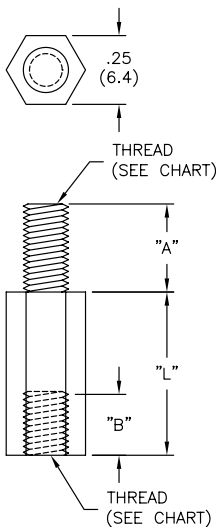
Flame Retardant Nylon available by special order. To order, replace -48 with -103.

MFTS

Male-Female Threaded Standoff

Features

- Mates with Richco Hex Nut (HN)



Thread Size	"A"	"B" Min.
#4-40	3/16 (4.8)	3/16 (4.8)
#6-32	1/4 (6.4)	1/4 (6.4)
#8-32	3/8 (9.5)	3/8 (9.5)

Material: Nylon 6/6, RMS-48
Color: Natural

Part No.			Standard Pack: 1000 per bag "L"
#4-40 Thread	#6-32 Thread	#8-32 Thread	
MFTS4-4-48	MFTS6-4-48*	MFTS8-4-48*	1/4 (6.4)
MFTS4-5-48	MFTS6-5-48	MFTS8-5-48**	5/16 (7.9)
MFTS4-6-48	MFTS6-6-48	MFTS8-6-48**	3/8 (9.5)
MFTS4-7-48	MFTS6-7-48	MFTS8-7-48	7/16 (11.1)
MFTS4-8-48	MFTS6-8-48	MFTS8-8-48	1/2 (12.7)
MFTS4-9-48	MFTS6-9-48	MFTS8-9-48	9/16 (14.3)
MFTS4-10-48	MFTS6-10-48	MFTS8-10-48	5/8 (15.9)
MFTS4-11-48	MFTS6-11-48	MFTS8-11-48	11/16 (17.5)
MFTS4-12-48	MFTS6-12-48	MFTS8-12-48	3/4 (19.1)
MFTS4-13-48	MFTS6-13-48	MFTS8-13-48	13/16 (20.6)
MFTS4-14-48	MFTS6-14-48	MFTS8-14-48	7/8 (22.2)
MFTS4-16-48	MFTS6-16-48	MFTS8-16-48	1 (25.4)
MFTS4-18-48	MFTS6-18-48	MFTS8-18-48	1 - 1/8 (28.6)
MFTS4-20-48	MFTS6-20-48	MFTS8-20-48	1 - 1/4 (31.8)
MFTS4-22-48	MFTS6-22-48	MFTS8-22-48	1 - 3/8 (34.9)

Flame Retardant Nylon available by special order. To order, replace -48 with -103.

*Dim. "B" is 3/16 (4.8) min.

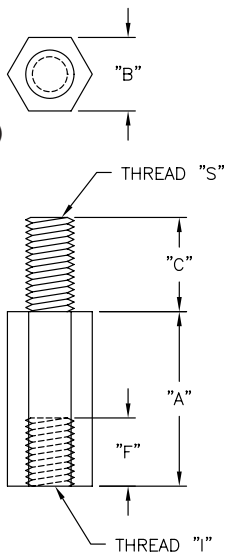
**Dim. "B" is 1/4 (6.4) min.

NTS

Nylon Threaded Spacer

Features

- Mates with Richco Hex Nut (HN)



Material: Nylon 6/6
Color: Natural

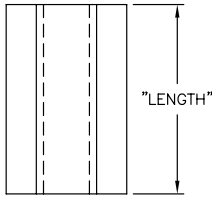
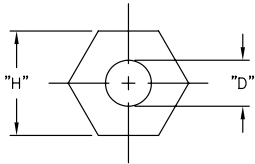
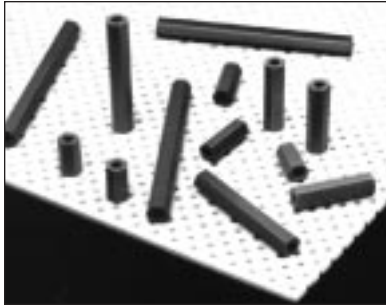
Part No.	"A"	"B"	"C"	"F"	Thread "S" / "I"	Std. Pack
NTS-7	.28 (7.0)	.24 (6.0)	.25 (6.3)	.24 (6.0)	M3/M3	1000
NTS-8	.31 (9.0)					
NTS-9	.35 (9.0)					
NTS-10	.39 (10.0)					
NTS-11	.43 (11.0)					
NTS-12	.50 (12.7)					
NTS-16	.63 (16.0)					
NTS-17.5	.69 (17.5)					
NTS-20	.79 (20.0)					
NTS-22	.87 (22.0)					
NTS-25	.98 (25.0)					
NTS-15A	.59 (15.0)	.31 (8.0)	.22 (5.5)	.31 (8.0)	M4/M4	1000
NTS-19	.75 (19.1)					
NTS-37	1.46 (37.1)					
NTS4-10A	.40 (10.1)	.24 (6.1)	.24 (6.1)		M4/M3	500

CIRCUIT BOARD HARDWARE

A

HS

Hex Spacer Standoff



Material: CPVC, RMS-11
Color: Light Gray

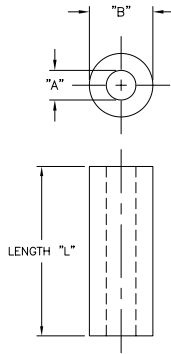
Part No.			Standard Pack: Up to 1" Long, 1000 per bag; over 1" long, 500 per bag
For #4 Screw	For #6 Screw	For #8 Screw	Length ± 0.010 (0.25)
HS4--3	—	—	3/8 (9.5)
HS-4-4	HS-6-4	—	1/2 (12.7)
HS-4-5	HS-6-5	HS-8-5	5/8 (15.9)
HS-4-6	HS-6-6	HS-8-6	3/4 (19.1)
HS-4-7	HS-6-7	HS-8-7	7/8 (22.2)
HS-4-8	HS-6-8	HS-8-8	1 (25.4)
HS-4-10	HS-6-10	HS-8-10	1 - 1/4 (31.8)
HS-4-12	HS-6-12	HS-8-12	1 - 1/2 (38.1)
HS-4-14	HS-6-14	HS-8-14	1 - 3/4 (44.5)
HS-4-16	HS-6-16	HS-8-16	2 (50.8)
—	—	HS-8-18	2 - 1/4 (57.2)
—	—	HS-8-20	2 - 1/2 (63.5)
—	—	HS-8-22	2 - 3/4 (69.9)
—	—	HS-8-24	3 (76.2)
Part No.	"D" ±0.005 (.13)		"H"
HS-4	.102 (2.6)		.187 ±.006 (4.8 ±.15)
HS-6	.110 (2.8)		.250 ±.008 (6.4 ±.20)
HS-8	.141 (3.6)		.375 ±.010 (9.5 ±.25)

Features

- Mounts with self-tapping screw.
- Self-extinguishing, low moisture absorption, chemical resistant, UL-94 V-0 rated material.
- Available in 4' pieces or other lengths by special order.

SS

Round Plastic Spacer



Features

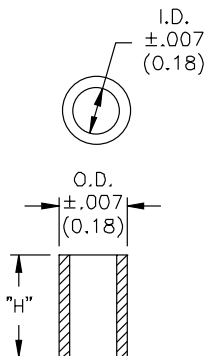
- High dielectric strength, UL 94V-0 rated material.
- Available in 4' pieces and/or other lengths by special order.
- 1/4" length is the smallest cut available

Material: CPVC, RMS-11
Color: Light Gray

For #4 Screw (M-2.5)	For #6 Screw (M-3)	For #8 Screw (M-4)	For #8 Screw (M-4)	For #10 Screw (M-4.5)	For 1/4 Bolt (M-6)	For 3/8 Bolt (M-9)	Standard Pack: Up to 1" Long, 1000 per bag; over 1" long, 500 per bag	
"A" = .120 ± .007 (3.0 ± 0.18) "B" = 1/4 ± .007 (6.4 ± 0.18)	"A" = .147 ± .007 (3.7 ± 0.18) "B" = 1/4 ± .007 (6.4 ± 0.18)	"A" = .175 ± .007 (4.4 ± 0.18) "B" = 1/4 ± .007 (6.4 ± 0.18)	"A" = .175 ± .007 (4.4 ± 0.18) "B" = 3/8 ± .007 (9.5 ± 0.18)	"A" = .200 ± .010 (5.1 ± 0.25) "B" = 3/8 ± .010 (9.5 ± 0.25)	"A" = .266 ± .010 (6.8 ± 0.25) "B" = 1/2 ± .010 (12.7 ± 0.25)	"A" = .397 ± .010 (10.1 ± 0.25) "B" = 1/2 ± .010 (12.7 ± 0.25)	Length "L"	Length "L" Tol
SS4-2	SS6-2	SS8-2	SS8-2L	SS10-2	SS1/4-2	SS3/8-2	1/4 (6.4)	±.010 (0.25)
SS4-3	SS6-3	SS8-3	SS8-3L	SS10-3	—	SS3/8-3	3/8 (9.5)	
SS4-4	SS6-4	SS8-4	SS8-4L	SS10-4	SS1/4-4	SS3/8-4	1/2 (12.7)	
SS4-5	SS6-5	SS8-5	SS8-5L	SS10-5	—	—	5/8 (15.9)	
SS4-6	SS6-6	SS8-6	SS8-6L	SS10-6	SS1/4-6	SS3/8-6	3/4 (19.1)	±.015 (0.38)
SS4-8	SS6-8	SS8-8	SS8-8L	SS10-8	SS1/4-8	SS3/8-8	1 (25.4)	
SS4-10	SS6-10	SS8-10	SS8-10L	SS10-10	SS1/4-10	SS3/8-10	1 - 1/4 (31.8)	
SS4-12	SS6-12	SS8-12	SS8-12L	SS10-12	SS1/4-12	SS3/8-12	1 - 1/2 (38.1)	
SS4-14	SS6-14	SS8-14	SS8-14L	SS10-14	SS1/4-14	SS3/8-14	1 - 3/4 (44.5)	±.020(0.51)
SS4-16	SS6-16	SS8-16	SS8-16L	SS10-16	SS1/4-16	SS3/8-16	2 (50.8)	
—	—	SS8-18	SS8-18L	SS10-18	SS1/4-18	SS3/8-18	2 - 1/4 (57.2)	
—	—	SS8-20	SS8-20L	SS10-20	SS1/4-20	SS3/8-20	2 - 1/2 (63.5)	
—	—	SS8-22	SS8-22L	SS10-22	SS1/4-22	SS3/8-22	2 - 3/4 (69.9)	±.020(0.51)
—	—	SS8-24	SS8-24L	SS10-24	SS1/4-24	SS3/8-24	3 (76.2)	

R900

Nylon Spacer (900 Series)



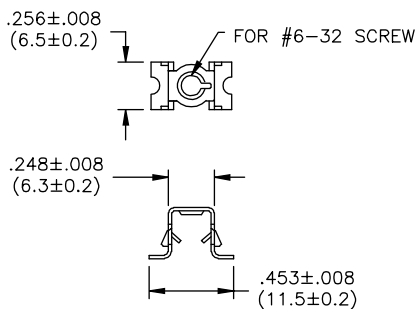
Material: Modified Type 6 Nylon, RMS-60
Color: White

Part No.	Standard Pack: 1000 per bag	
	ID $\pm .007$ (0.18)	OD $\pm .007$ (0.18)
R901-X	.028 (0.7)	.085 (2.2)
R938-X	.032 (0.8)	
R902-X	.032 (0.8)	
R939-X	.047 (1.2)	
R937-X	.090 (2.3)	.125 (3.2)
R906-X	.085 (2.2)	
R903-X	.047 (1.2)	
R940-X	.063 (1.6)	.156 (4.0)
R907-X	.105 (2.7)	
R904-X	.063 (1.6)	.187 (4.8)
R913-X	.091 (2.3)	
R908-X	.125 (3.2)	
R941-X	.135 (3.4)	.230 (5.8)
R910-X	.091 (2.3)	
R911-X	.125 (3.2)	.250 (6.4)
R905-X	.147 (3.7)	
R912-X	.171 (4.3)	

X	Length "H" Dimension	Dimension "H" Tolerance
-1	1/16 (1.6)	$\pm .007$ (0.18)
-2	1/8 (3.2)	
-3	3/16 (4.8)	
-4	1/4 (6.4)	
-5	5/16 (7.9)	
-6	3/8 (9.5)	
-7	7/16 (11.1)	$\pm .010$ (0.25)
-8	1/2 (12.7)	
-9	9/16 (14.3)	
-10	5/8 (15.9)	
-11	11/16 (17.5)	$\pm .015$ (0.38)
-12	3/4 (19.1)	
-13	13/16 (20.6)	
-14	7/8 (22.2)	
-15	15/16 (23.8)	
-16	1 (25.4)	

GCBS

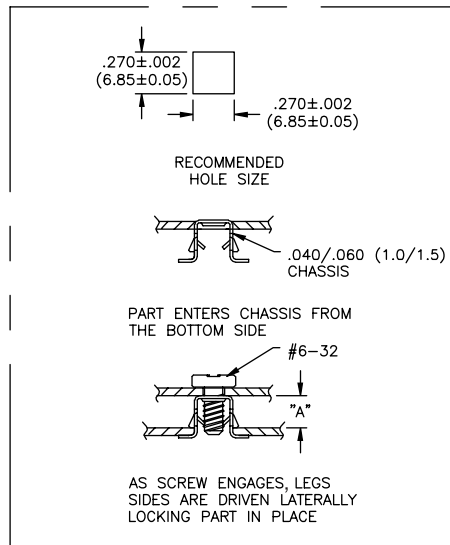
Grounding Circuit Board Support



Material: .018 (.457) Thk. Spring Steel
Finish: Zinc .00015" (.0038) min.

Part No.	Standard Pack: 1000 per bag
	Standoff Height "A" $\pm .008$ (0.2)
GCBS-3	.190 (4.83)
GCBS-4	.250 (6.35)

ASSEMBLY INSTRUCTIONS

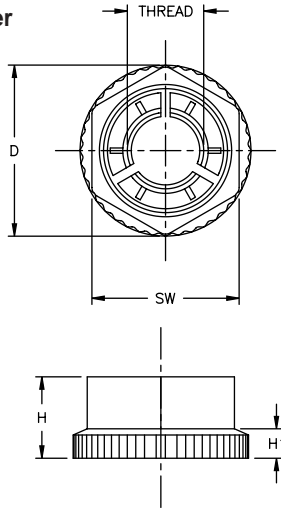


CIRCUIT BOARD HARDWARE

A

KNF

Kwik Nut Fastener



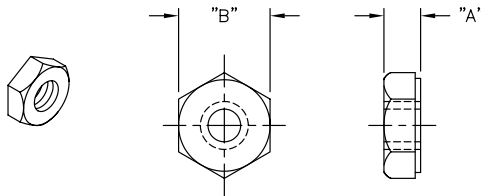
Material: Nylon 6/6, RMS-48
Color: Black

Part No.	Standard Pack: 1000 per bag				
	Thread	"SW"	"D"	"H"	"H1"
KNF-30	M3	.28 (7)	.32 (8.2)	.15 (4.0)	.06 (1.5)
KNF-40	M4	.32 (8)	.37 (9.4)	.19 (4.7)	.06 (1.5)
KNF-50	M5	.39 (10)	.46 (11.7)	.23 (5.8)	.08 (2.0)
KNF-60	M6	.51 (13)	.60 (15.2)	.28 (7.0)	.10 (2.5)

Features

- Kwik Nut designed to be press fit over threaded stud. To install, push down the length of the threaded fastener to desired position and lock with 180° turn
- Simply unscrew with wrench

HN Hex Nut

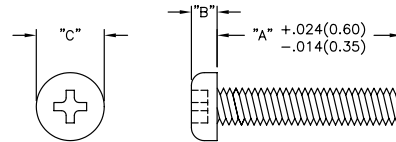


Material: See Chart
Color: Natural

Part No.	Standard Pack: 1000 per bag			
	"A"	"B"	Material	Thread
HN#4-40-01	.10 (2.5 mm)	.25 (6.4 mm)	Nylon 6/6 (RMS-01)	#4-40
HN#6-32-01	.12 (3.0 mm)	.31 (7.9 mm)	Nylon 6/6 (RMS-01)	#6-32
HN#8-32-01	.13 (3.3 mm)	.34 (8.6 mm)	Nylon 6/6 (RMS-01)	#8-32
HN-M3-79	.10 (2.5 mm)	.22 (5.5 mm)	Polycarbonate (RMS-79)	M3
HN-M4-01	.12 (3.0 mm)	.27 (6.9 mm)	Nylon 6/6 (RMS-01)	M4
HN-M4-79	.13 (3.3 mm)	.31 (8.0 mm)	Polycarbonate (RMS-79)	M4
HN-M6-01	.21 (5.4 mm)	.39 (9.9 mm)	Nylon 6/6 (RMS-01)	M6

NMS

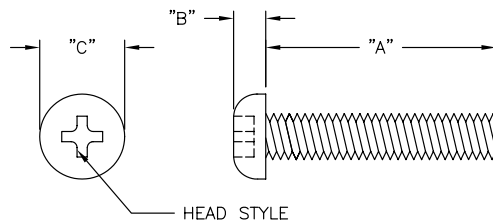
Nylon Metric Screw



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag			
	"A"	"B"	"C"	Thread
NMS-306	.25 (6.4)	.10 (2.5)	.22 (5.7)	M3
NMS-308	.31 (7.9)			
NMS-310	.39 (9.9)			
NMS-312	.48 (12.2)	.11 (2.7)	.29 (7.4)	M4
NMS-406	.25 (6.4)			
NMS-408	.31 (7.9)			
NMS-410	.40 (10.2)			
NMS-412	.48 (12.2)	.10 (2.5)	.30 (7.5)	M4
NMS-416	.64 (16.3)			

NSS/NSP Nylon Screw



Mating Richco Hex Nuts		
Part#	Thread	Part#
NSS/NSP-4	#4-40	HN#4-40-01
NSS/NSP-6	#6-32	HN#6-32-01
NSS/NSP-8	#8-32	HN#8-32-01

Material: Nylon 6/6, RMS -01
Color: Natural

Part No.	Standard Pack: 1000 per bag			
	"B"	Thread	"C"	Head Style
NSS-4-#-01	.07 (1.8)	#4-40	.21 (5.3)	SLOTTED, PAN
NSS-6-#-01	.08 (2.0)	#6-32	.27 (6.9)	
NSS-8-#-01	.08 (2.0)	#8-32	.32 (8.1)	
NSP-4-#-01	.08 (2.0)	#4-40	.21 (5.3)	PHILLIPS, PAN
NSP-6-#-01	.09 (2.3)	#6-32	.26 (6.6)	
NSP-8-#-01	.11 (2.8)	#8-32	.32 (8.1)	

#-	"A"
-2-	1/8 (3.2)
-3-	3/16 (4.8)
-4-	1/4 (6.4)
-5-	5/16 (7.9)
-6-	3/8 (9.5)
-7-	7/16 (11.1)
-8-	1/2 (12.7)
-10-	5/8 (15.9)
-12-	3/4 (19.1)
-14-	7/8 (22.2)
-16-	1.00 (25.4)

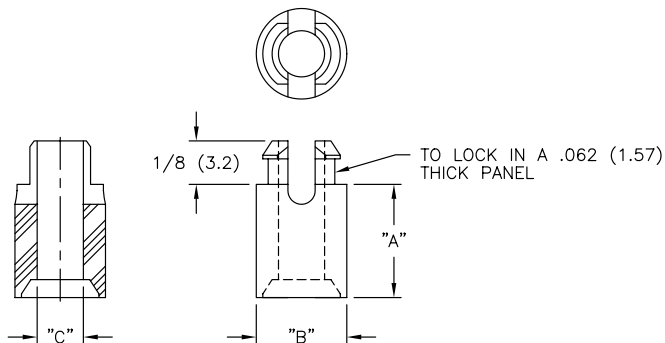
SSRS

Stackable, Self-Retaining Spacer



Features

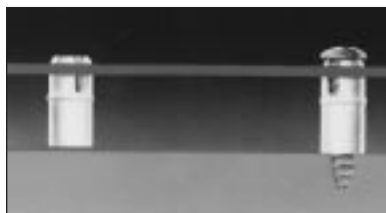
- Board mount head snaps in and maintains spacing even when screw is removed.
- Self-retaining and self-aligning.
- Stackable to provide screw insulation in multi-level applications.



Material: Nylon 6/6, RMS-01 Color: Natural					
Part No.	Standard Pack: 1000 per bag				
	"A"	"B"	"C"	Mounting Hole Dia. ±0.003 (.08)	Screw Size
For #4 (M-3) Screw					
SSRS4-2-01	1/8 (3.2)	.26 (6.6)	1/8 (3.2)	.187 (4.7)	#4
SSRS4-3-01	3/16 (4.8)				
SSRS4-4-01	1/4 (6.4)				
SSRS4-5-01	5/16 (7.9)				
SSRS4-6-01	3/8 (9.5)				
SSRS4-7-01	7/16 (11.1)				
SSRS4-8-01	1/2 (12.7)				
SSRS4-10-01	5/8 (15.9)				
For #6 (M-3.5) Screw					
SSRS6-4-01	1/4 (6.4)	5/16 (7.9)	.153 (3.9)	.234 (5.9)	#6
SSRS6-5-01	5/16 (7.9)				
SSRS6-6-01	3/8 (9.5)				
SSRS6-7-01	7/16 (11.1)				
SSRS6-8-01	1/2 (12.7)				
SSRS6-10-01	5/8 (15.9)				
SSRS6-12-01	3/4 (19.1)				
SSRS6-14-01	7/8 (22.2)				
SSRS6-16-01	1 (25.4)				
For #8 (M-4) Screw					
SSRS8-4-01	1/4 (6.4)	5/16 (7.9)	.169 (4.3)	.234 (5.9)	#8
SSRS8-5-01	5/16 (7.9)				
SSRS8-6-01	3/8 (9.5)				
SSRS8-7-01	7/16 (11.1)				
SSRS8-8-01	1/2 (12.7)				
SSRS8-10-01	5/8 (15.9)				
SSRS8-12-01	3/4 (19.1)				
SSRS8-14-01	7/8 (22.2)				
SSRS8-16-01	1 (25.4)				

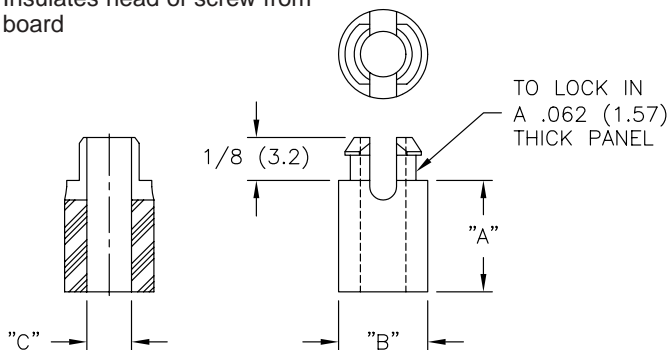
SRS

Self-Retaining Spacer



Features

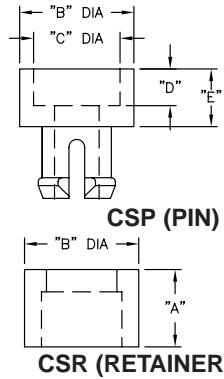
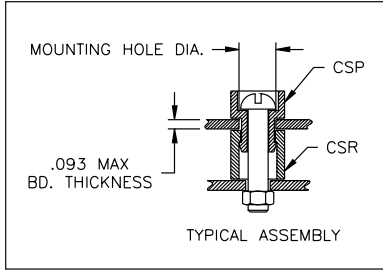
- Board mount head snaps in and maintains spacing even when screw is removed.
- Insulates head of screw from board



Material: Nylon 6/6, RMS-01 Color: Natural					
Part No.	Standard Pack: 1000 per bag				
	"A"	"B"	"C"	Mounting Hole Dia. ±0.003 (.08)	Screw Size
For #4 (M-3) Screw					
SRS4-2-01	1/8 (3.2)	1/4 (6.4)	1/8 (3.2)	.187 (4.7)	
SRS4-3-01	3/16 (4.8)				
SRS4-4-01	1/4 (6.4)				
SRS4-5-01	5/16 (7.9)				
SRS4-6-01	3/8 (9.5)				
SRS4-7-01	7/16 (11.1)				
SRS4-8-01	1/2 (12.7)				
SRS4-10-01	5/8 (15.9)				
SRS4-12-01	3/4 (19.1)				
SRS4-14-01	7/8 (22.2)				
SRS4-16-01	1 (25.4)				
For #6 (M-3.5) Screw					
SRS6-4-01	1/4 (6.4)	9/32 (7.1)	.153 (3.9)	.234 (5.9)	
SRS6-5-01	5/16 (7.9)				
SRS6-6-01	3/8 (9.5)				
SRS6-7-01	7/16 (11.1)				
SRS6-8-01	1/2 (12.7)				
SRS6-10-01	5/8 (15.9)				
SRS6-12-01	3/4 (19.1)				
SRS6-14-01	7/8 (22.2)				
SRS6-16-01	1 (25.4)				
For #8 (M-4) Screw					
SRS8-4-01	1/4 (6.4)	9/32 (7.1)	.169 (4.3)	.234 (5.9)	
SRS8-5-01	5/16 (7.9)				
SRS8-6-01	3/8 (9.5)				
SRS8-7-01	7/16 (11.1)				
SRS8-8-01	1/2 (12.7)				
SRS8-10-01	5/8 (15.9)				
SRS8-12-01	3/4 (19.1)				
SRS8-14-01	7/8 (22.2)				
SRS8-16-01	1 (25.4)				

CIRCUIT BOARD HARDWARE

CSP/CSR Collar Spacers



Features

- Round head type screw is recommended.
- Screw and nut (not included) complete the assembly.
- Combination of two mating parts sold separately form a completely enclosed nylon spacer.
- Top piece locks into bottom spacer to capture printed circuit board

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000 per bag		
	"A" ± .010 (0.25)	"B" ± .010 (0.25)	Mating Pin No.
CSR4-224-01	.224 (5.7)	.295 (7.5)	CSP4-01
CSR4-295-01	.295 (7.5)		
CSR4-394-01	.394 (10)		
CSR4-591-01	.591 (15)		
CSR4-787-01	.787 (20)		
CSR6-224-01	.224 (5.7)	.394 (10)	CSP6-01
CSR6-295-01	.295 (7.5)		
CSR6-394-01	.394 (10)		
CSR6-591-01	.591 (15)		
CSR6-787-01	.787 (20)		
CSR8-224-01	.224 (5.7)	.436 (11)	CSP8-01
CSR8-295-01	.295 (7.5)		
CSR8-394-01	.394 (10)		
CSR8-591-01	.591 (15)		
CSR8-787-01	.787 (20)		

**Material: Nylon 6/6, RMS-01
Color: Natural**

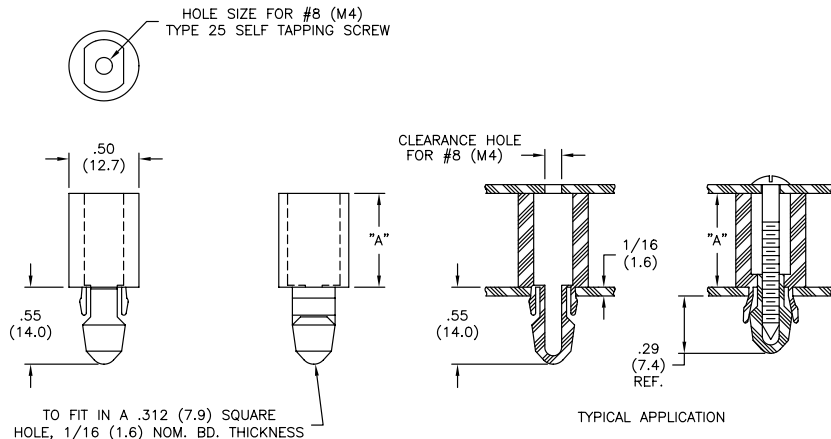
Part No.	Standard Pack: 1000 per bag					
	"B" ± 0.010 (0.25)	"C" Dia.	"D" Ref.	"E" Ref.	Mounting Hole Diameter ±.003 (.08)	Recommended Screw Size
CSP4-01	.295 (7.5)	—	—	.10 (2.5)	.195 (5.0)	#4 (M2.5)
CSP6-01	.394 (10.0)	.29 (7.4)	.12 (3.0)	.20 (5.1)	.256 (6.5)	#6 (M3.5)
CSP8-01	.436 (11.1)	.33 (8.4)	.14 (3.6)	.22 (5.6)	.272 (6.9)	#8 (M4)

SN Spacer Nuts



**Material: Polycarbonate, RMS-03
Color: Clear**

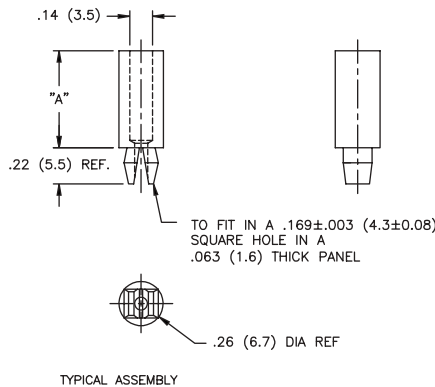
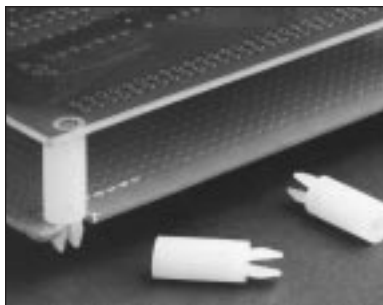
Part No.	Standard Pack: 1000 per bag
	"A" ± 0.015" (0.4)
SN-125	1/8 (3.2)
SN-187	3/16 (4.8)
SN-250	1/4 (6.4)
SN-312	5/16 (8.0)
SN-375	3/8 (9.5)
SN-500	1/2 (12.7)



Features

- Insulates screw from chassis

MSNE Stand-Off Nut



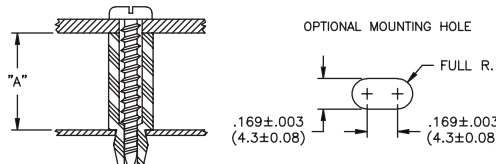
Features

- Accepts a #4AB self-tapping screw.

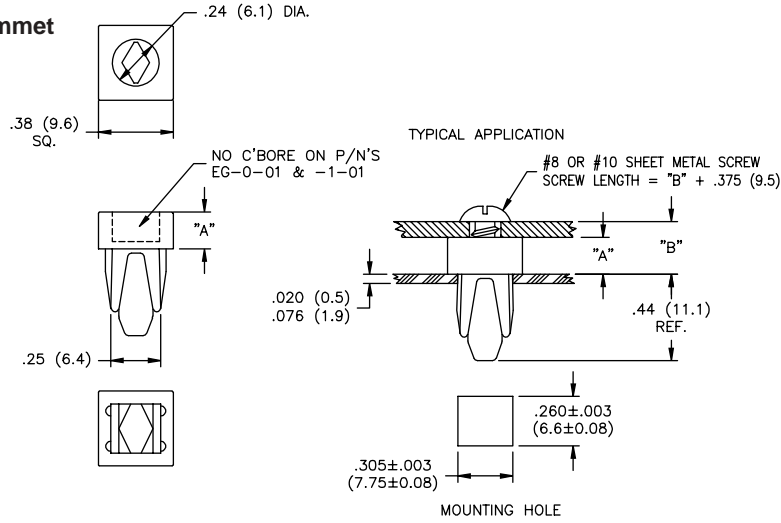
Material: Nylon 6/6, RMS -01 • Color: Natural

Part No.	Standard Pack: 1000 per bag
	"A" ± .015 (0.4)
MSNE-2-01	1/8 (3.18)
MSNE-4-01	1/4 (6.35)
MSNE-5-01	5/16 (7.94)
MSNE-6-01	3/8 (9.5)
MSNE-8-01	1/2 (12.7)
MSNE-10-01	5/8 (15.9)
MSNE-12-01	3/4 (19.1)
MSNE-16-01	1 (25.4)
Metric	
MSNE-4M-01	4.0 mm
MSNE-6M-01	6.0 mm
MSNE-8M-01	8.0 mm
MSNE-10M-01	10.0 mm
MSNE-12M-01	12.0 mm

Flame Retardant Nylon, RMS -19 available by special order



EG Expansion Grommet



Material: Nylon 6/6, RMS-01
Color: Natural

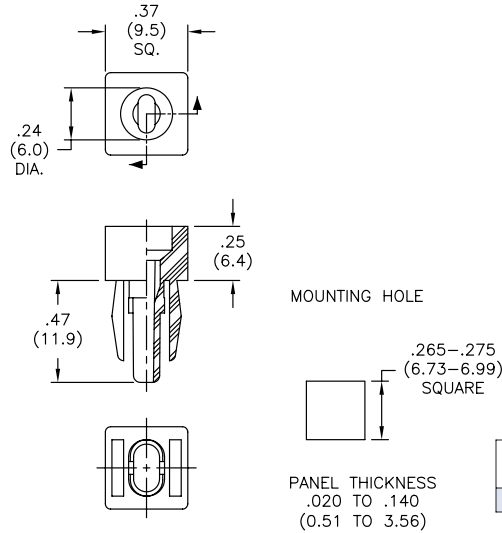
Part No.	Standard Pack: 1000 per bag
	"A"
EG-0-01	1/32 (0.8)
EG-1-01	1/16 (1.6)
EG-2-01	1/8 (3.2)
EG-3-01	3/16 (4.8)
EG-4-01	1/4 (6.4)
EG-5-01	5/16 (7.9)
EG-6-01	3/8 (9.5)
EG-7-01	7/16 (11.1)
EG-8-01	1/2 (12.7)

Flame Retardant Nylon available by special order. To order replace -01 with -19.

SG 8-250-81 Screw Grommet

Features

- Self-retaining
- Accommodates #8 or #10 sheet metal screw



Material: Nylon 6/6, RMS-81
Color: Natural

Standard Pack: 1000 per bag

SRSRG 6-04-81

Self Retaining Screw Grommet

Features

- Accommodates a #6 self-tapping screw.

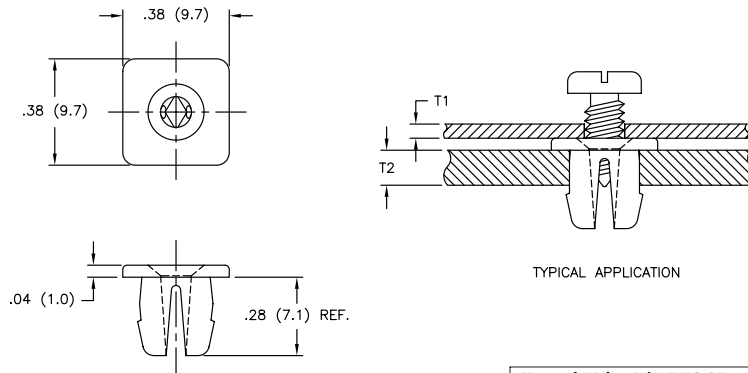
NOTE:

Panel Thickness Range, "T2":
.031-.125 (0.79-3.18)

Recommended Screw Length:
"T1" + .32 (8.1)

Mounting Hole:

.245-.255 (6.22-6.48) square



Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

Card Guides

General Features

The mounting of printed circuit boards within chassis and rack systems requires that precision, anti-vibration, security, speed of assembly and ease of access is maximized without compromising overall performance. Richco's range of guides and pullers provide the designer with an unrivaled choice of mounting and locking options to do just that. Vertical design keeps boards in place, yet allows easy slide in and slide out for installation, repair and replacement. Some series are available with double channel, which permits side-by-side mounting. Others have metal threaded inserts for secure installation. Horizontal mounts are available with funnel entry for easy board insertion, while others come with tension grips, which apply spring pressure to hold boards more securely.

Applications

- Typical Applications Include:
- Computer Industry
 - Rack and Panel Systems
 - Telecommunications Industry
 - Military Equipment

Material

Most standard card guides are available in Nylon 6/6 or Polycarbonate. Please contact Richco's engineering department for special material requirements.

Pullers

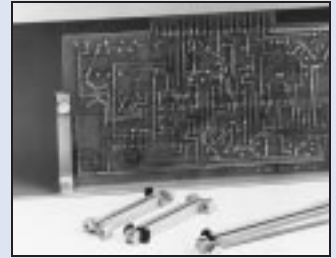
General Features

- Designed to solve tough insertion/extraction problems associated with large PCBs and tight gripping multi-pin edge connectors. They use a cam type in/out action and have leverages up to 4:1.
- Easy to use and install for damage-free insertions and extractions, PCBs, components, circuitry and connectors are protected from undue stress. Passivated stainless steel spring pins per MIL-P-10971 are furnished with certain Ejectors.
- Richco Pullers have been designed and produced to meet the increasing need for supporting PC boards in a vertical position. Our wide selection accommodates various board sizes and allows for paired mounting and gang or tandem mounting. The use of standard fasteners simplifies mounting. No special tooling is required.

Applications

- Typical Applications Include:
- Computers
 - Telecommunications
 - Rack Systems

Introduction



Vertical Mount Card Guide



Tension Rack Card Guide



Narrow Card Guide



Circuit Board Puller

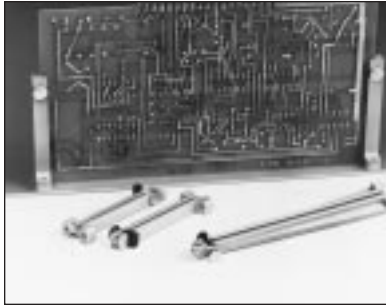


Inserter/Extractor

CARD GUIDES & PULLERS

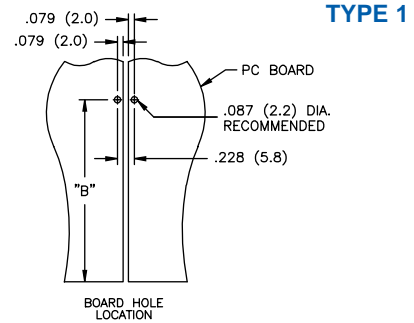
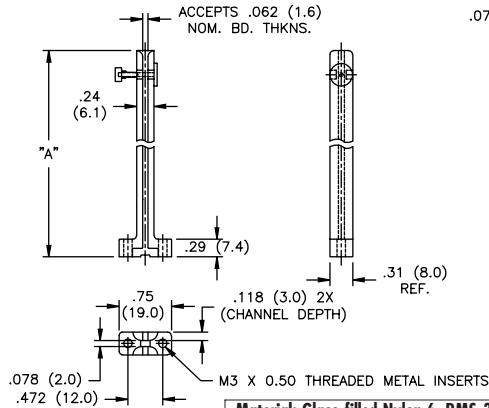
VMCG

Vertical Mount Card Guide



Features

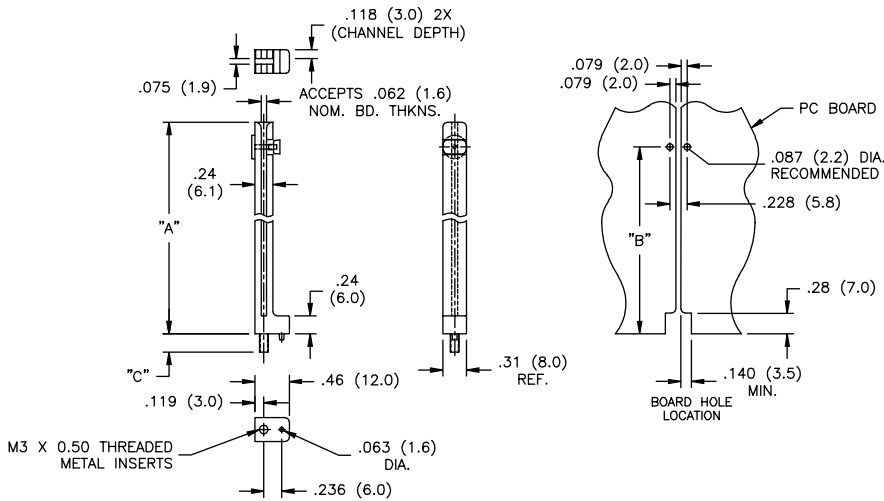
- Packed with M3 metric screw, washer and lockwasher mounting hardware for up to .125 panel thickness



Material: Glass-filled Nylon 6, RMS-38 • Color: Gray

Part No.	Standard Pack: 100 per bag	
	"A"	"B"
VMCG-65-PM	2.56 (65.0)	2.22 (56.5)
VMCG-90-PM	3.54 (90.0)	3.21 (81.5)
VMCG-135-PM	5.31 (135.0)	4.98 (126.5)
VMCG-160-PM	6.30 (160.0)	4.43 (112.5)
VMCG-330-PM	4.73 (120.1)	4.43 (112.5)

Glass-filled Nylon 6 Flame Retardant material available by special order.



TYPE 2

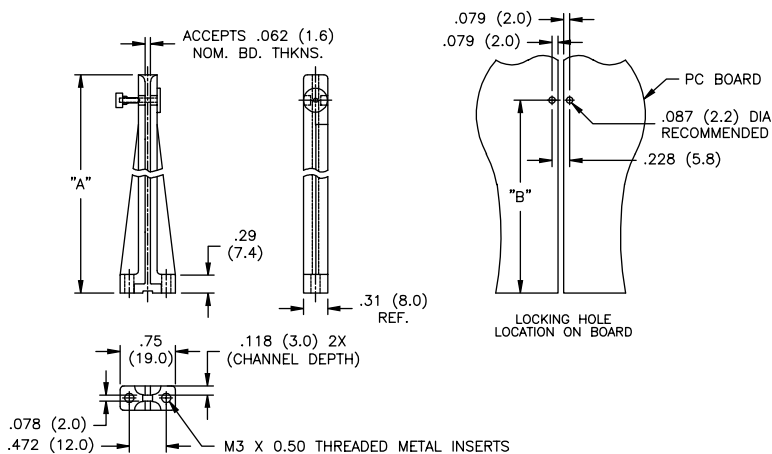
Features

- Comes with metal stud insert for fastening with a nut
- Anti-rotational pin for secure alignment

Material: Glass Filled Nylon, RMS-38
Color: Gray

Part No.	Standard Pack: 100 per bag		
	"A"	"B"	"C"
VMCG-70-PM	2.76 (70.1)	2.44 (62.0)	.22 (5.6)
VMCG-100-PM	3.94 (100.1)	3.62 (91.9)	.35 (8.9)

Glass-filled Nylon 6 Flame Retardant material available by special order.



TYPE 3

Features

- Additional material or "wings," prevent guide from flexing
- Packed with M3 metric screw, washer and lockwasher mounting hardware for up to .125 panel thickness

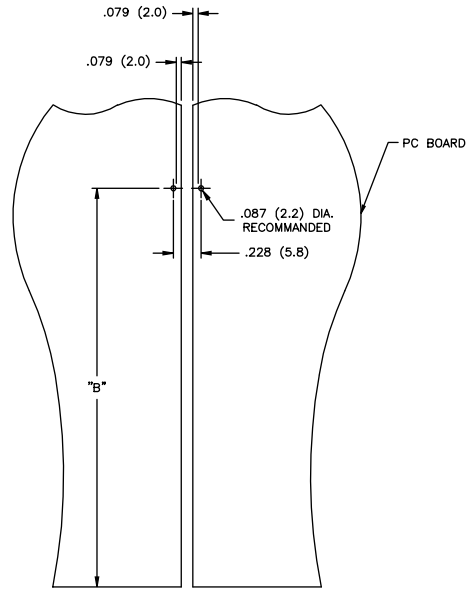
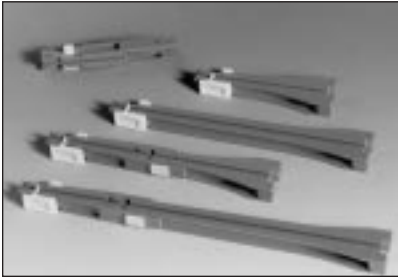
Material: Glass Filled Nylon, RMS-38
Color: Gray

Part No.	Standard Pack: 100 per bag	
	"A"	"B"
VMCG-320-PM	4.73 (120.1)	4.43 (112.5)
VMCG-360-PM	6.30 (160.0)	4.43 (112.5)

Glass-filled Nylon 6 Flame Retardant material available by special order.

VMCGN

Vertical Mount Card Guide



Features

- M3 threaded insert guides provided with M3 threaded screw, washer and lockwasher mounting hardware

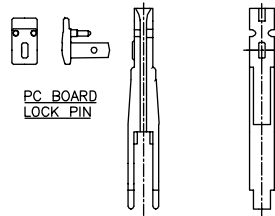


FIG. 3 (EXTENSION)

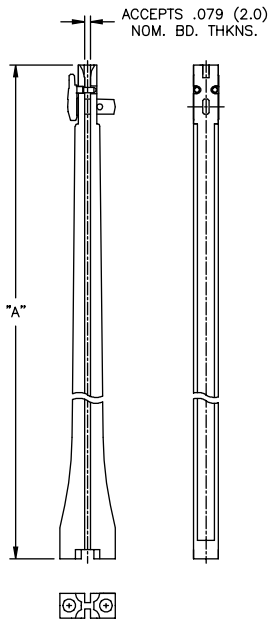


FIG. 1 (BASE)

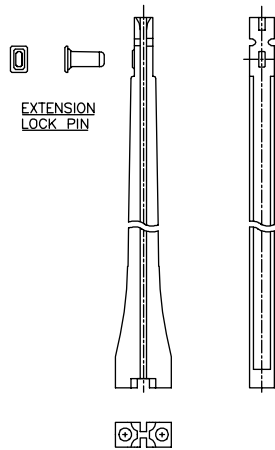
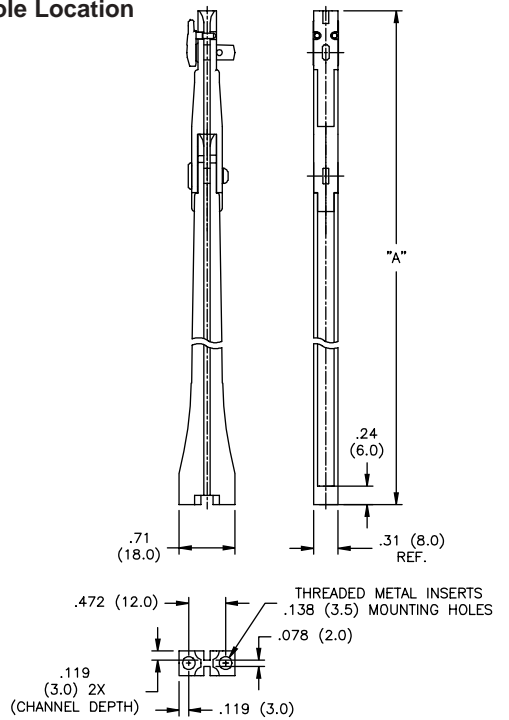


FIG. 2 (BASE)

Board Hole Location



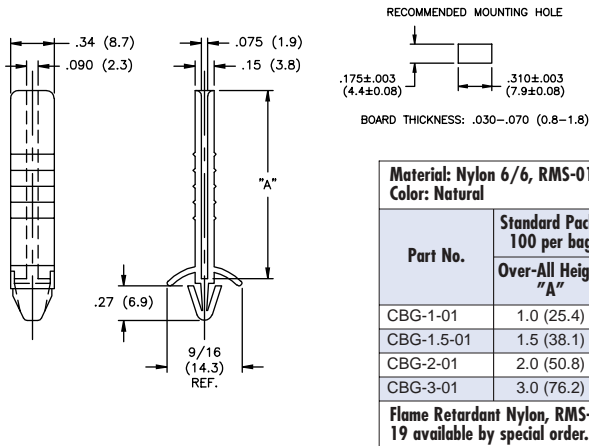
Assembly

Material: Flame Retardant Polystyrene, RMS-117
Color: Card Guide - Blue; Locking Button - White

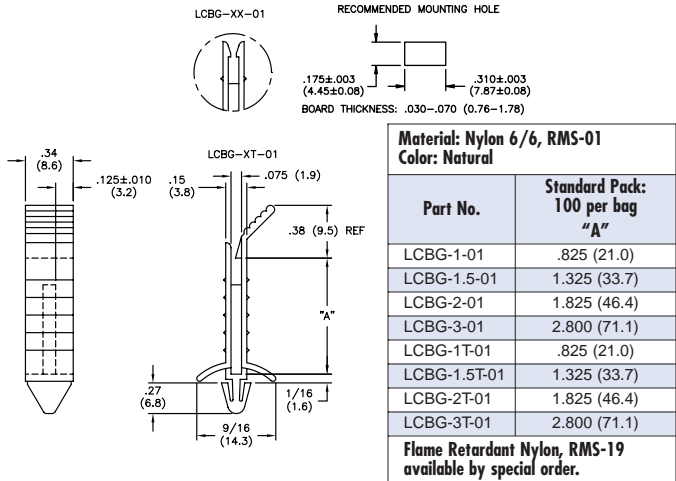
Part No.	Standard Pack: 100		M3 Threaded Inserts	4/40 Threaded Inserts	Fig. No.
	"A"	"B"			
VMCGN-065-M3-LSWT-K	2.56 (65)	2.24 (57)	X		1
VMCGN-065-4/40-LSWT				X	
VMCGN-105-M3-LSWT-K	4.13 (105)	3.82 (97)	X		2 + 3
VMCGN-105-4/40-LSWT				X	
VMCGN-120-M3-LSWT-K	4.72 (120)	4.41 (112)	X		1
VMCGN-120-4/40-LSWT				X	
VMCGN-160-M3-LSWT-K	6.30 (160)	5.98 (152)	X		2 + 3
VMCGN-160-4/40-LSWT				X	
VMCGN-EX-40	1.57 (40)	1.26 (32)			3

CARD GUIDES & PULLERS

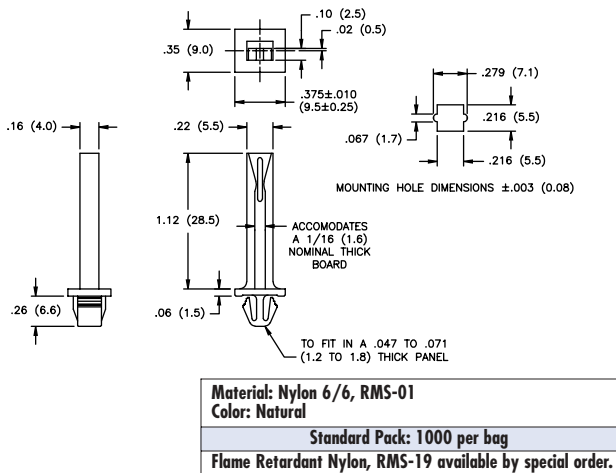
CBG Circuit Board Guides



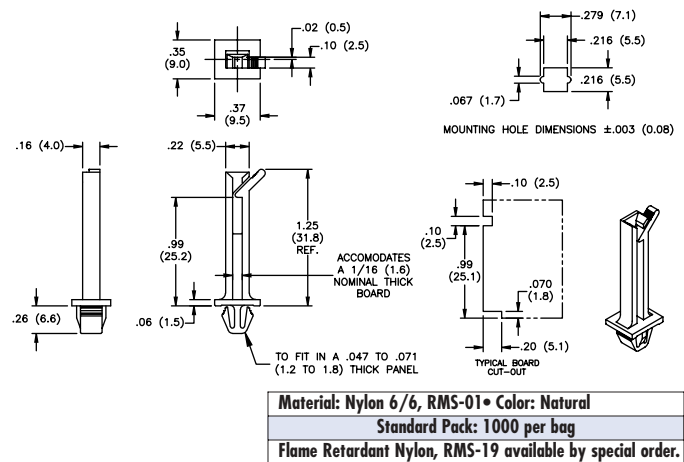
LCBG / LCBG-T Locking Circuit Board Guide



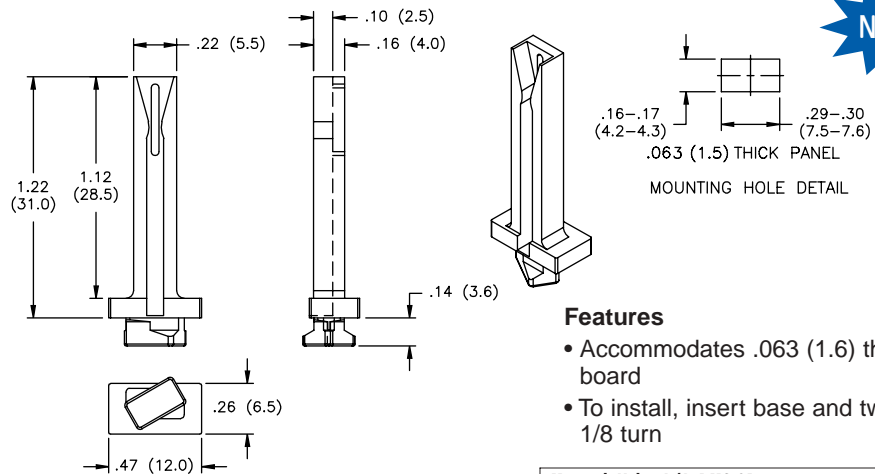
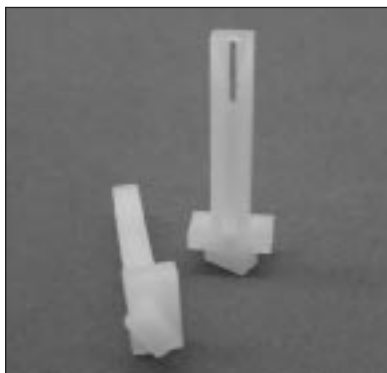
VMCGE-30M-01 Vertical Mount Guide



VMCGLE-31M-01 Vertical Mount Card Guide - Latched



VMCGE-RH-31M-01 Vertical Mount Card Guide - Rectangular Hole



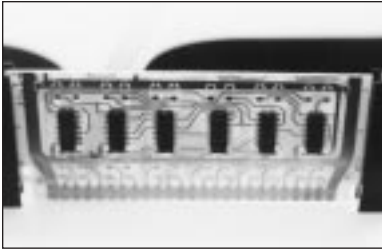
Features

- Accommodates .063 (1.6) thick board
- To install, insert base and twist 1/8 turn

Material: Nylon 6/6, RMS-01 Color: Natural	
Standard Pack: 1000	

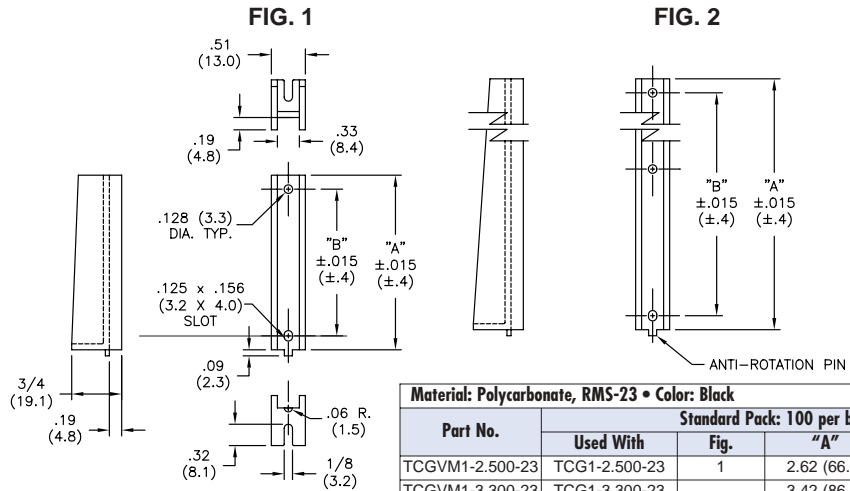
TCGVM

Tension Card Guide, Vertical Mount



Features

- Richco Part Series TCG (order separately) snaps into TCGVM and assembled unit is installed with a #4 (M-3) screw



Material: Polycarbonate, RMS-23 • Color: Black

Part No.	Used With	Standard Pack: 100 per bag		
		Fig.	"A"	"B"
TCGVM1-2.500-23	TCG1-2.500-23	1	2.62 (66.5)	2.20 (55.9)
TCGVM1-3.300-23	TCG1-3.300-23	2	3.42 (86.9)	3.00 (76.2)
TCGVM1-3.925-23	TCG1-3.925-23		4.05 (102.9)	3.63 (92.2)
TCGVM1-6.675-23	TCG1-6.675-23		6.80 (172.7)	6.38 (162.1)

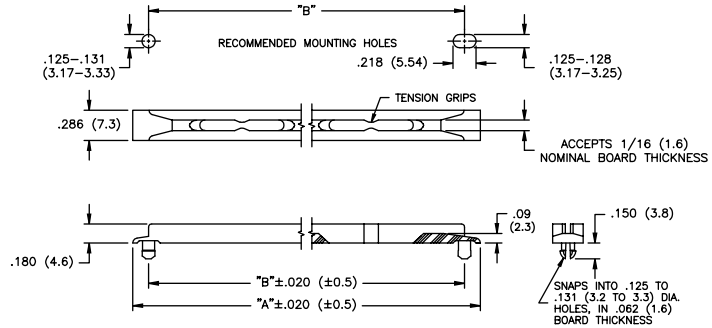
TCG

Tension Card Guide



Features

- For use with TCGVM Series or alone

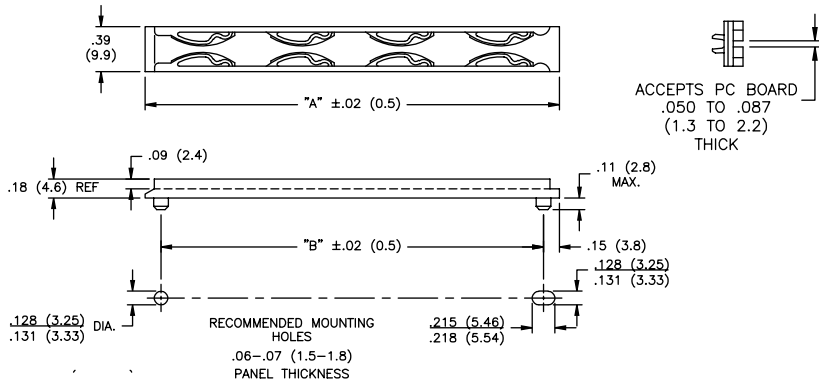


Material: Polycarbonate, RMS-23 • Color: Black

Part No.	Standard Pack: 500 per bag		
	No. of Grips	Nom. "A"	Nom. "B"
TCG1-2.500-23	1	2.500 (63.5)	2.2 (55.9)
TCG1-3.300-23	2	3.300 (83.8)	3 (76.2)
TCG1-3.925-23	2	3.925 (99.7)	3 - 5/8 (92.1)
TCG1-6.675-23	4	6.675 (169.5)	6 - 3/8 (161.9)

TRCG

Tension Rack Card Guide



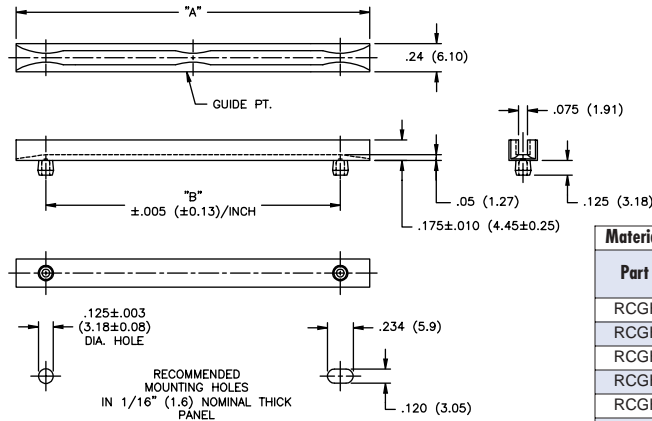
Material: Polycarbonate, RMS-23 • Color: Black

Part No.	Standard Pack: 500 per bag	
	"A"	"B"
TRCG-2.500	2.50 (63.5)	2.2 (55.9)
TRCG-3.300	3.30 (83.8)	3.0 (76.2)
TRCG-3.925	3.93 (99.8)	3 - 5/8 (92.1)
TRCG-6.675	6.68 (169.7)	6 - 3/8 (161.9)

CARD GUIDES & PULLERS

RCGH

Rack Card Guide, Type "H" (Hollow Pins)



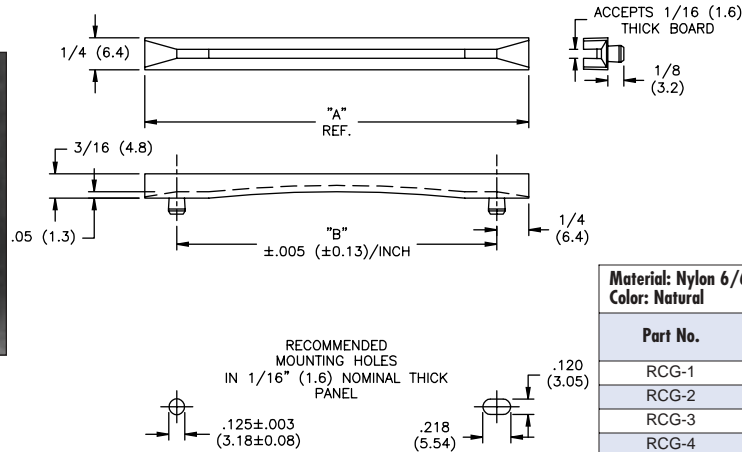
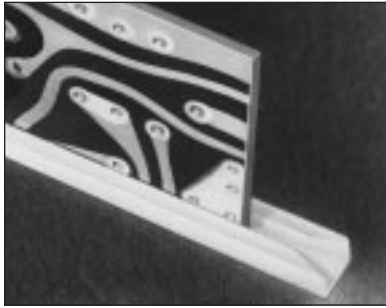
Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 500 per bag		
	"A" Ref.	"B"	Guide PT.
RCGH-25	2.5 (63.5)	2.0 (50.8)	2
RCGH-30	3.0 (76.2)	2.5 (63.5)	3
RCGH-35	3.5 (88.9)	3.0 (76.2)	3
RCGH-40	4.0 (101.6)	3.5 (88.9)	3
RCGH-45	4.5 (114.3)	4.0 (101.6)	4
RCGH-50	5.0 (127.0)	4.5 (114.3)	4
RCGH-55	5.5 (139.7)	5.0 (127.0)	5
RCGH-60	6.0 (152.4)	5.5 (139.7)	5

Flame Retardant Nylon, RMS-19, available by special order.

RCG

Rack Card Guide



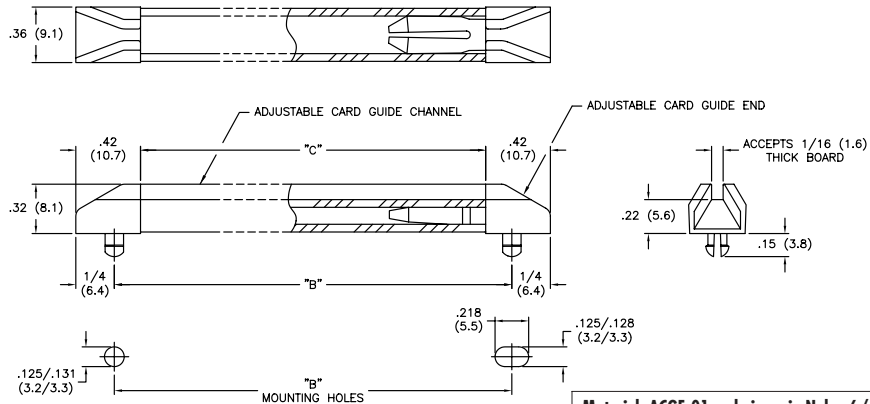
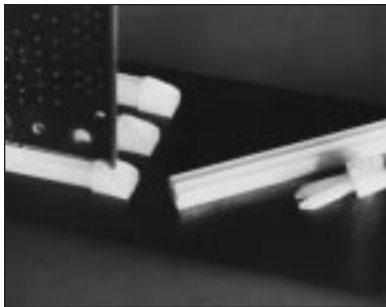
**Material: Nylon 6/6, RMS-01
Color: Natural**

Part No.	Standard Pack: 500 per bag	
	"A"	"B"
RCG-1	3.0 (76.2)	2.5 (63.5)
RCG-2	4.0 (101.6)	3.5 (88.9)
RCG-3	6.0 (152.4)	5.5 (139.7)
RCG-4	8.5 (215.9)	8.0 (203.2)

Flame Retardant Nylon, RMS-19 available by special order.

ACGC/ACGE

Adjustable Card Guide



**Material: ACGE-01 end pieces in Nylon 6/6, RMS-01;
ACGC channel in PVC, RMS-04
Color: Natural**

Part No.	Standard Pack
ACGE-01	100 per bag
ACGC-4800	100 ft.

Features

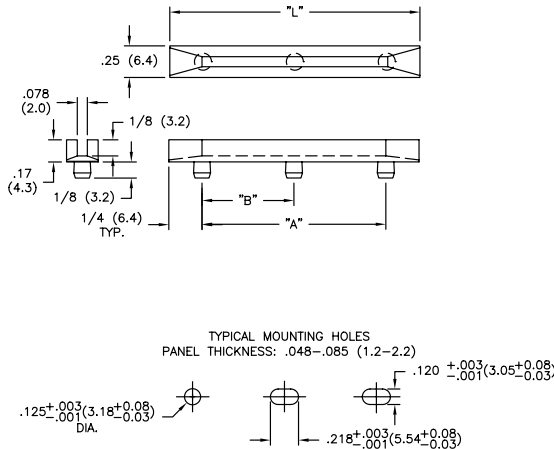
- Standard Channel Part Number ACGC-4800 supplied in 4' (121.9cm) lengths 25 per bundle
- Channel can be cut to any length by special order

RN Narrow Card Guide



Features

- Longer lengths available with 2 or 3 pins



Material: Nylon 6/6, RMS-48 Color: Natural			
Part No.	Standard Pack: 500 per bag		
	"L" ±.030 (0.8)	"A" ±.024 (0.6)	"B" ±.016 (0.4)
RN-250-2	2.5 (63.5)	2.0 (50.8)	—
RN-300-2	3.0 (76.2)	2.5 (63.5)	—
RN-350-2	3.5 (88.9)	3.0 (76.2)	—
RN-400-2	4.0 (101.6)	3.5 (88.9)	—
RN-450-2	4.5 (114.3)	4.0 (101.6)	—
RN-500-2	5.0 (127.0)	4.5 (114.3)	—
RN-550-2	5.5 (139.7)	5.0 (127.0)	—
RN-600-2	6.0 (152.4)	5.5 (139.7)	—
RN-650-2	6.5 (165.1)	6.0 (152.4)	—
RN-700-2	7.0 (177.8)	6.5 (165.1)	—
RN-700-3	7.0 (177.8)	6.5 (165.1)	3.25 (82.6)
RN-750-2	7.5 (190.5)	7.0 (177.8)	—
RN-750-3	7.5 (190.5)	7.0 (177.8)	3.50 (88.9)
RN-800-2	8.0 (203.2)	7.5 (190.5)	—
RN-800-3	8.0 (203.2)	7.5 (190.5)	3.75 (95.3)
RN-850-2	8.5 (215.9)	8.0 (203.2)	—
RN-850-3	8.5 (215.9)	8.0 (203.2)	4.00 (101.6)

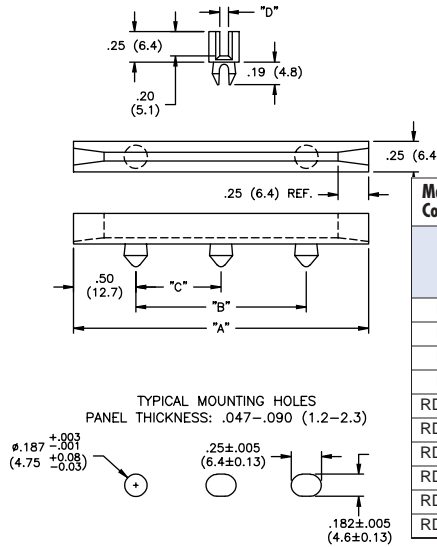
Flame Retardant Nylon, RMS-19, available by special order.

RDC Deep Channel Card Guide



Features

- Depth of slot is .200" (5.1mm)
- Designed for mounting end to end for longer lengths



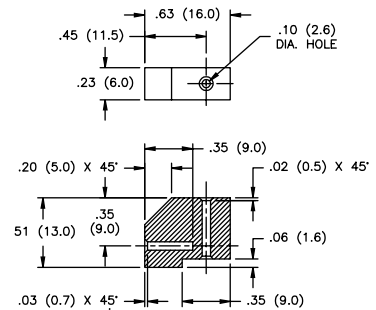
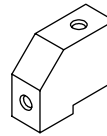
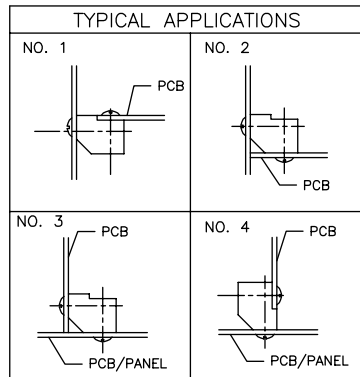
Material: Glass filled Nylon, RMS-66 with U.L. rating of 94V-0 Color: Black				
Part No.	Standard Pack: 500 per bag			
	"A" ±.062 (1.6)	"B" ±.032 (0.8)	"C" ±.015 (0.38)	"D" ±.005 (0.13)
RDC-250	2.5 (63.5)	1.5 (38.1)	—	—
RDC-450	4.5 (114.3)	3.5 (88.9)	—	.08 (2.0)
RDC-600	6.0 (152.4)	5.0 (127.0)	—	—
RDC-800	8.0 (203.2)	7.0 (177.8)	3.50 (88.9)	—
RDC-450-102	4.5 (114.3)	3.5 (88.9)	—	—
RDC-600-102	6.0 (152.4)	5.0 (127.0)	—	.102 (2.6)
RDC-800-102	8.0 (203.2)	7.0 (177.8)	3.50 (88.9)	—
RDC-450-130	4.5 (114.3)	3.5 (88.9)	—	—
RDC-600-130	6.0 (152.4)	5.0 (127.0)	—	.132 (3.35)
RDC-800-130	8.0 (203.2)	7.0 (177.8)	3.50 (88.9)	—

PCB-MB Mounting Block



Features

- Mounts with a #4 (Type B) (M-3) self-tapping screw

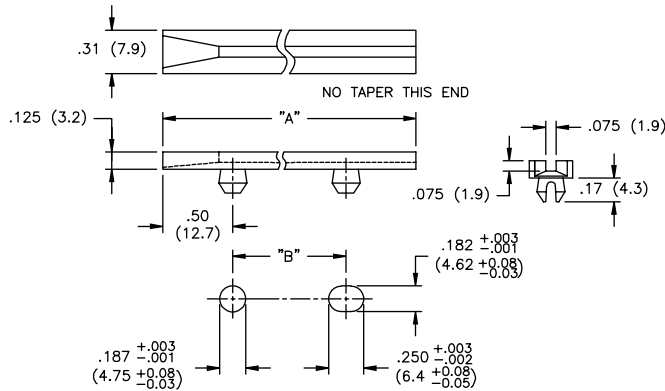


Material: Nylon 6/6, RMS-01 Color: Natural	
Standard Pack: 1000 per bag	
Flame Retardant Nylon, RMS-19 available by special order.	

CARD GUIDES & PULLERS

RSFS

Snap-In Card Guide



RECOMMENDED MOUNTING HOLES
PANEL THICKNESS: .047-.090 (1.2-2.3)

Features

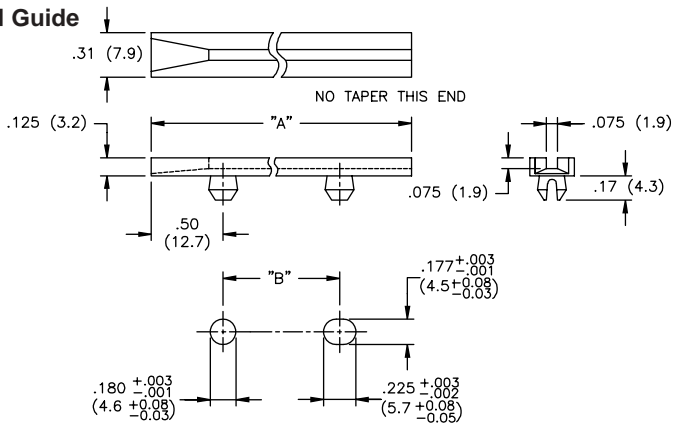
- Designed to hold 1/16" (16mm) thick PC boards

Material: Nylon 6/6, RMS-48
Color: Natural

Part No.	Standard Pack: 500 per bag		
	"A" Ref.	"B"	Interchange with S.A.E.
RSFS-250	2.5 (63.5)	1.5 (38.1)	1200F
RSFS-300	3.0 (76.2)	2.0 (50.8)	
RSFS-350	3.5 (88.9)	2.5 (63.5)	
RSFS-400	4.0 (101.6)	3.0 (76.2)	
RSFS-450	4.5 (114.3)	3.0 (76.2)	1400F
RSFS-451	4.5 (114.3)	3.5 (88.9)	
RSFS-500	5.0 (127.0)	4.0 (101.6)	
RSFS-550	5.5 (139.7)	4.5 (114.3)	
RSFS-600	6.0 (152.4)	5.0 (127.0)	1600F
RSFS-650	6.5 (165.1)	5.02 (127.5)	1650F
RSFS-651	6.5 (165.1)	5.5 (139.7)	
RSFS-700	7.0 (177.8)	6.0 (152.4)	
RSFS-750	7.5 (190.5)	6.5 (165.1)	
RSFS-800	8.0 (203.2)	7.0 (177.8)	1800F

RSSD

Snap-In Card Guide



RECOMMENDED MOUNTING HOLES
PANEL THICKNESS: .047-.090 (1.2-2.3)

Features

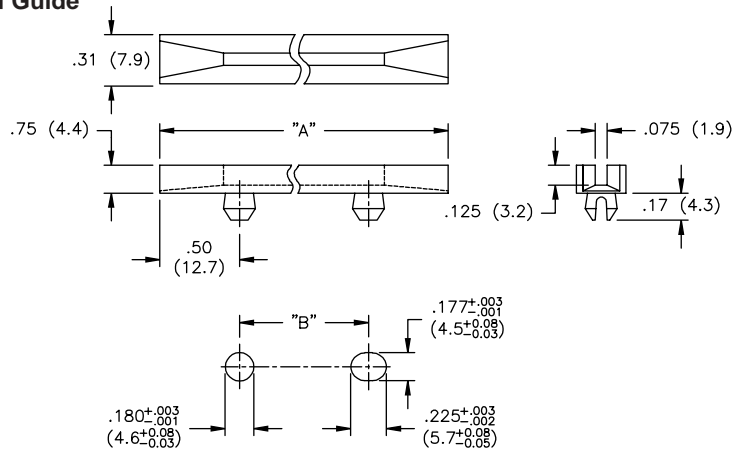
- Designed to hold 1/16" (16mm) thick PC boards

Material: Nylon 6/6, RMS-48
Color: Natural

Part No.	Standard Pack: 500 per bag		
	"A" Ref.	"B"	Interchange with Scanbe
RSSD-250	2.5 (63.5)	1.5 (38.1)	23071-1
RSSD-300	3.0 (76.2)	2.0 (50.8)	23071-2
RSSD-350	3.5 (88.9)	2.5 (63.5)	
RSSD-400	4.0 (101.6)	3.0 (76.2)	23071-3
RSSD-450	4.5 (114.3)	3.5 (88.9)	
RSSD-450-300X	4.5 (114.3)	3.0 (76.2)	23071-4
RSSD-500	5.0 (127.0)	4.0 (101.6)	
RSSD-550	5.5 (139.7)	4.5 (114.3)	
RSSD-600	6.0 (152.4)	5.0 (127.0)	23071-5
RSSD-650	6.5 (165.1)	5.5 (139.7)	23071-6
RSSD-700	7.0 (177.8)	6.0 (152.4)	
RSSD-750	7.5 (190.5)	6.5 (165.1)	
RSSD-800	8.0 (203.2)	7.0 (177.8)	

RSDC

Snap-In Card Guide



RECOMMENDED MOUNTING HOLES
PANEL THICKNESS: .047-.090 (1.2-2.3)

Features

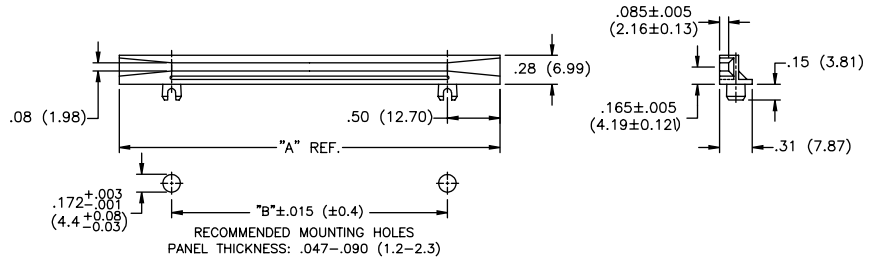
- Designed to hold 1/16" (16mm) thick PC boards

Material: Nylon 6/6, RMS-48
Color: Natural

Part No.	Standard Pack: 500 per bag		
	"A" Ref.	"B"	Interchange with Scanbe
RSDC-250	2.5(63.5)	1.5 (38.1)	11633-1
RSDC-300	3.0 (76.2)	2.0 (50.8)	
RSDC-350	3.5 (88.9)	2.5 (63.5)	
RSDC-400	4.0 (101.6)	3.0 (76.2)	
RSDC-450	4.5 (114.3)	3.5 (88.9)	11633-2
RSDC-500	5.0 (127.0)	4.0 (101.6)	
RSDC-550	5.5 (139.7)	4.5 (114.3)	
RSDC-600	6.0 (152.4)	5.0 (127.0)	
RSDC-650	6.5 (165.1)	5.5 (139.7)	11633-3
RSDC-700	7.0 (177.8)	6.0 (152.4)	
RSDC-750	7.5 (190.5)	6.5 (165.1)	
RSDC-800	8.0 (203.2)	7.0 (177.8)	11633-6

CARD GUIDES & PULLERS

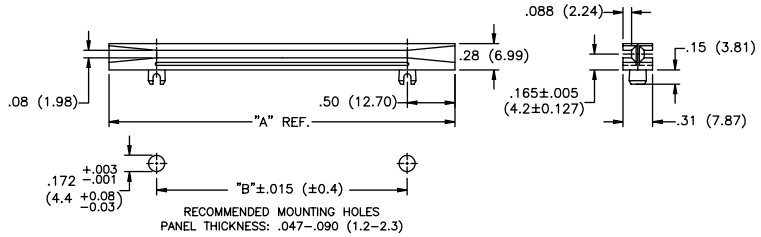
RSSHG Single Sided Horizontal Card Guide



Material: Nylon 6/6, RMS-22 • Color: Black

Part No.	Standard Pack: 500 per bag		
	"A" ± .016 (0.40)	"B" ± .016 (0.40)	"C" ± .005 (0.127)
RSSHG-201-165	2 (50.8)	1 (25.4)	.165 (4.2)
RSSHG-251-165	2.5 (63.5)	1.5 (38.1)	
RSSHG-301-165	3 (76.2)	2 (50.8)	
RSSHG-351-165	3.5 (88.9)	2.5 (63.5)	
RSSHG-401-165	4 (101.6)	3 (76.2)	
RSSHG-451-165	4.5 (114.3)	3.5 (88.9)	
RSSHG-501-165	5 (127.0)	4 (101.6)	
RSSHG-551-165	5.5 (139.7)	4.5 (114.3)	
RSSHG-601-165	6 (152.4)	5 (127.0)	

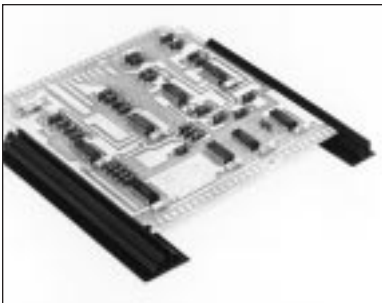
RDSHG Double Sided Horizontal Card Guide



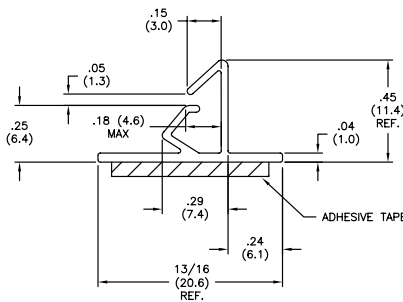
Material: Nylon 6/6, RMS-22 • Color: Black

Part No.	Standard Pack: 500 per bag		
	"A" ± .016 (0.40)	"B" ± .016 (0.40)	"C" ± .005 (0.127)
RDSHG-202-165	2 (50.8)	1 (25.4)	.165 (4.2)
RDSHG-252-165	2.5 (63.5)	1.5 (38.1)	
RDSHG-302-165	3 (76.2)	2 (50.8)	
RDSHG-352-165	3.5 (88.9)	2.5 (63.5)	
RDSHG-402-165	4 (101.6)	3 (76.2)	
RDSHG-452-165	4.5 (114.3)	3.5 (88.9)	
RDSHG-502-165	5 (127.0)	4 (101.6)	
RDSHG-552-165	5.5 (139.7)	4.5 (114.3)	
RDSHG-602-165	6 (152.4)	5 (127.0)	

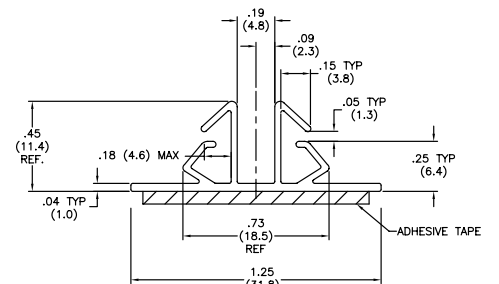
BMS-S/BMS-D Board Mounting Strip Single/Double



BMS-S



BMS-D



Features

- Sold in 4' (121.4cm) lengths, 25 per bundle
- Custom lengths available by special order

**Material: PVC, RMS-04
Color: Black**

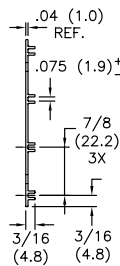
Part No Without Adhesive	Part No With Adhesive	Mounting Style
BMS-S	BMS-S-A	Single Mount
BMS-D	BMS-D-A	Dual Mount

Available with adhesive backing, RMS-15; 1/16" (1.6mm) thick

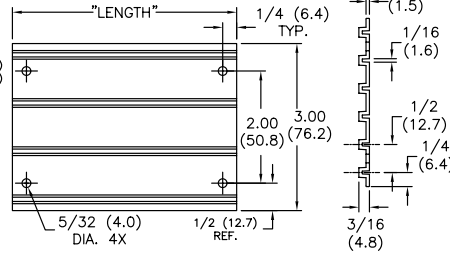
CARD GUIDES & PULLERS

ECBG

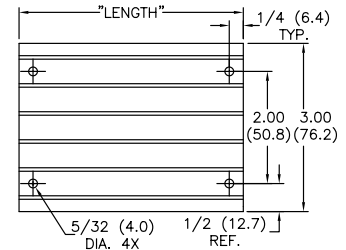
Circuit Board Guide, Extruded



ECBG-4



ECBG-6



Material: PVC, RMS-04
Color: Black

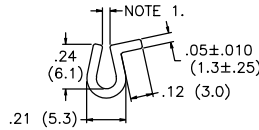
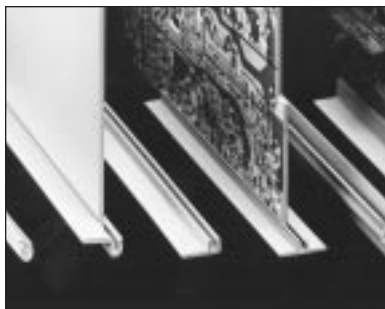
ECBG-4 Part No.	ECBG-6 Part No.	Standard Pack: 100 per bag Length ±.020 (0.5)
ECBG-4-1	ECBG-6-1	1 (25.4)
ECBG-4-2	ECBG-6-2	2 (50.8)
ECBG-4-4	ECBG-6-4	4 (101.6)
ECBG-4-6	ECBG-6-6	6 (152.4)

Features

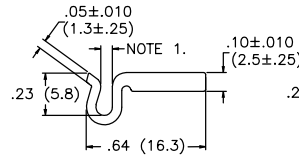
- Accommodates 1/16" (1.6mm) nominally thick board
- Custom lengths available by special order

PCG

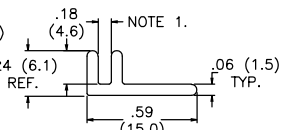
All Printed Circuit Guides



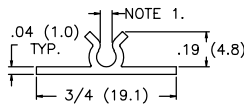
PCG-1



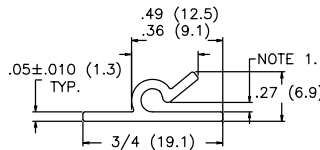
PCG-2



PCG-3



PCG-4



PCG-5

Color: Gray

Standard Pack: Supplied in 4' (121.9cm) lengths, 25 per bundle; custom cut lengths and/or drilling available by special order.

Part No.	Material
PCG-1	Nylon, RMS-21
PCG-2	A.B.S.: (RMS-09)
PCG-3	A.B.S.: (RMS-09)
PCG-4	P.V.C.: (RMS-04)
PCG-5	P.V.C.: (RMS-04)

PCG-3, -4, and -5 available with adhesive backing, RMS-15; 1/16" (1.6mm) thick. To order, add "A".

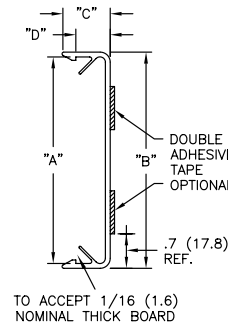
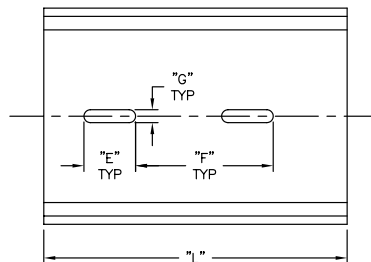
Note 1: All parts to accept 1/16" nominal thick board.

Features

- Gap accepts a 1/16" (1.6mm) thick board on all parts
- Custom profiles available by special order

PCT/PCTE

Printed Circuit Board Track



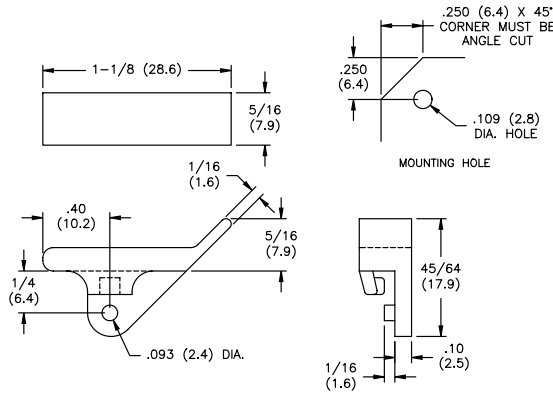
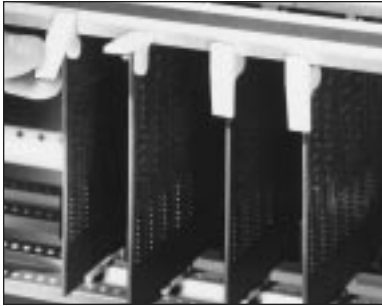
Features

- Custom lengths available by special order
- PCTE Eurocard design now accommodates standard Eurocard 100mm x 160mm x 1.6mm

Material: Rigid PVC • Double Back Adhesive Tape, RMS-15 • Color: Gray

Part No.	Description	Standard Pack: 25/pack							
		"A" (Board Width)	"B"	"C"	"D"	"E" ±1/16 (1.6)	"F" ±1/16 (1.6)	"G" ±1/16 (1.6)	"L"
PCTE-100-1-04S	With Slots, No Tape	3.94 (100.1)	4.10 (104.1)	.67 (17.0)	.43 (10.9)	.79 (20.1)	1.77 (45.0)	.20 (5.1)	6.3 REF
PCTE-100-1-04T	With Tape, No Slots					3/4 (19.1)	2.00 (50.8)	3/16 (4.8)	
PCT-3000-04S	With Slots, No Tape	3.00 (76.2)	3.14 (79.8)	.70 (17.8)		3/4 (19.1)	2.00 (50.8)	3/16 (4.8)	48.0 +0.25
PCT-3000-04T	With Tape, No Slots								

CBE-8 through 18 Circuit Board Ejector



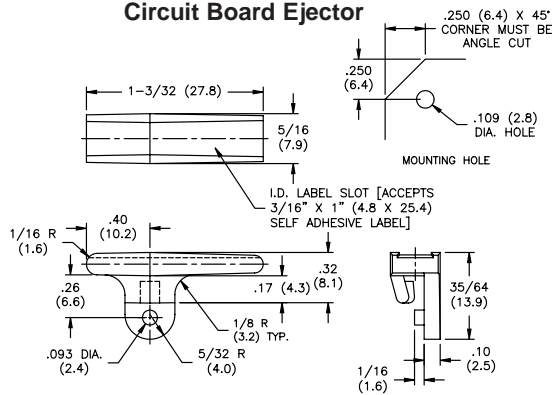
Material: Nylon 6/6, RMS-01
Color: See Table

Part No.	Standard Pack: 1000 per bag
	Color
CBE-8	Natural
CBE-9	Green
CBE-11	Black
CBE-12	Brown
CBE-13	Red
CBE-14	Orange
CBE-15	Yellow
CBE-16	Blue
CBE-17	Violet
CBE-18	Gray

Features

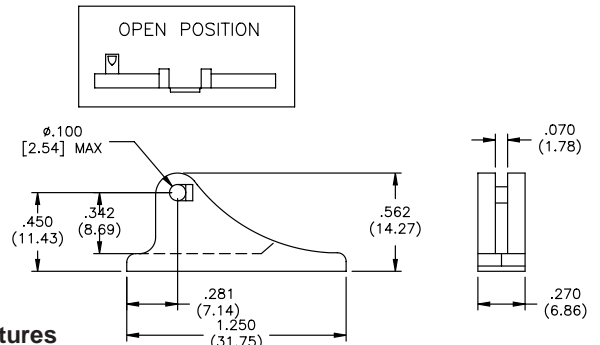
- Snap into .109" (2.8mm) diameter hole in a 1/16" (1.6mm) thick board
- Leverage against guide rack or chassis ejects board

CBE-1 Circuit Board Ejector



Material: Nylon 6/6, RMS-01
Color: Natural
Standard Pack: 1000 per bag

R5021 Snap On Card Ejector - Hinged

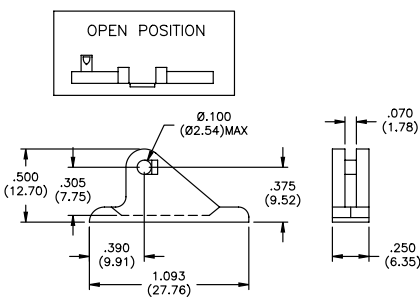


Features

- One piece, hinged design saves labor
- No roll pin or assembly required
- Excellent for retrofit applications
- Rated at 50 lbs. ejector force

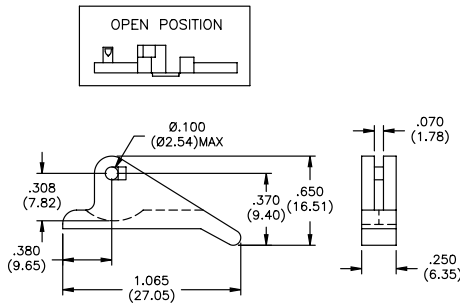
Material: Nylon 6/6, RMS-73
Color: Natural
Standard Pack: 1000 per bag

R5022 Snap On Ejector Hinged



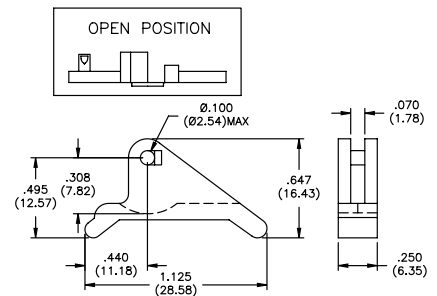
Material: Nylon 6/6, RMS-73
Color: Natural
Standard Pack: 1000 per bag

R5023 Snap On Ejector Hinged



Material: Nylon 6/6, RMS-73
Color: Natural
Standard Pack: 1000 per bag

R5024 Snap On Ejector Hinged

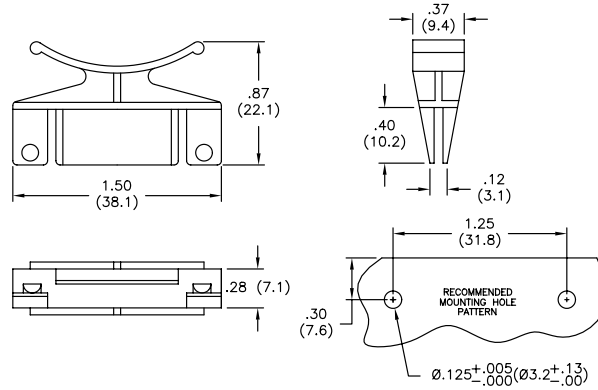
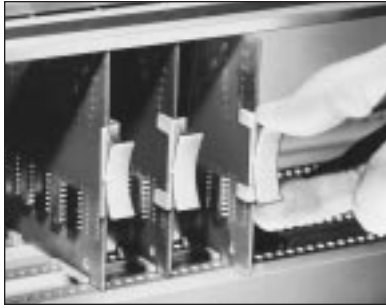


Material: Nylon 6/6, RMS-73
Color: Natural
Standard Pack: 1000 per bag

CARD GUIDES & PULLERS

CCP-1-01

Circuit Board Puller



Features

- Designed for snap-fit onto a 1/16" (1.6mm) nominally thick board

Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 500 per bag

RCP Card Ejector

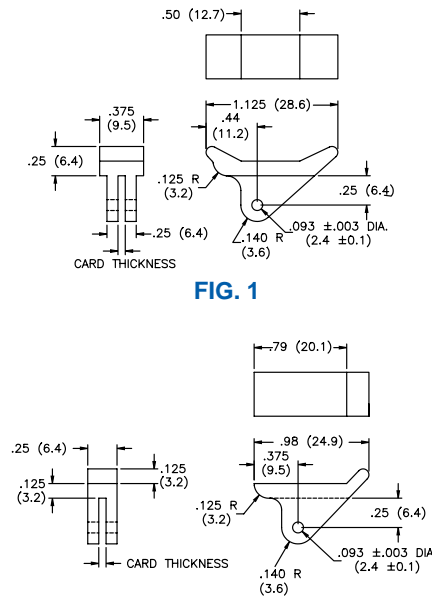
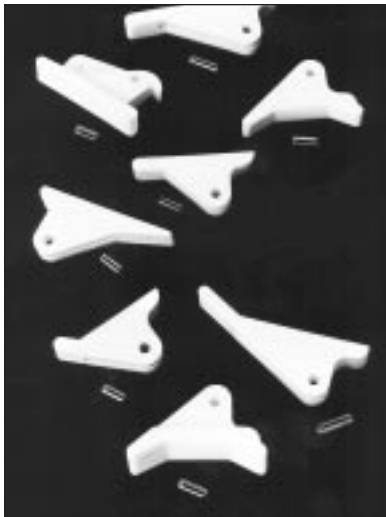


FIG. 1

FIG. 2

FIG. 3

FIG. 4

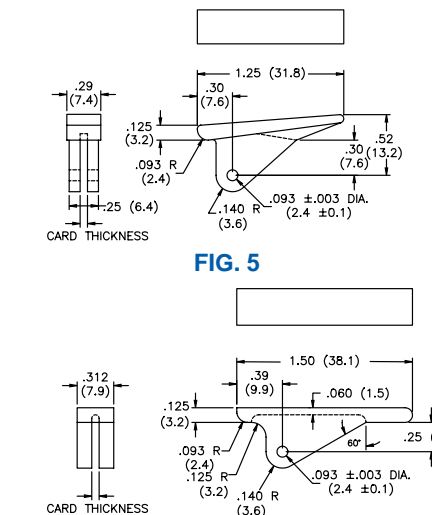


FIG. 5

FIG. 6

FIG. 7

Features

- Round roll (spring) pins supplied with each ejector

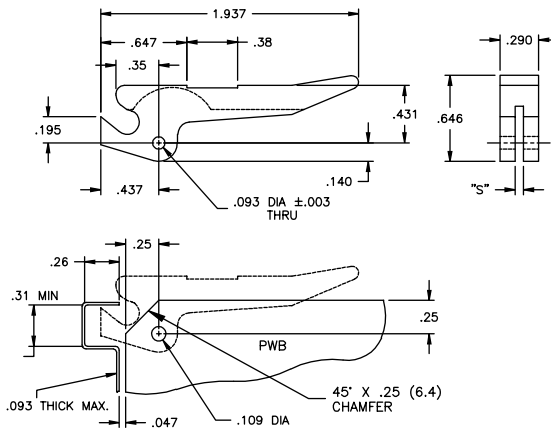
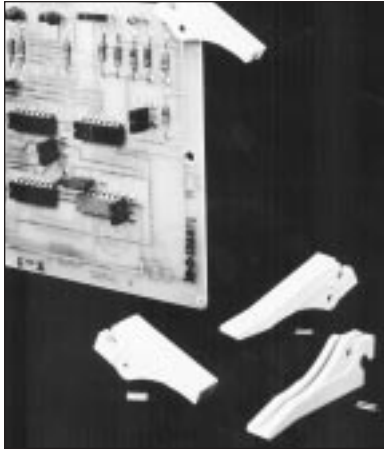
Material: Nylon 6/6, RMS-48 Color: White			
Part No.	Standard Pack: 500 per bag		Roll Pin
	Card Thickness	Fig. #	
RCP-06	1/16 (1.6)	1	RRP-250
RCP-09	3/32 (2.4)	1	
RCP-26	1/16 (1.6)	2	
RCP-29	3/32 (2.4)	2	
RCP-36	1/16 (1.6)	4	RRP-312
RCP-39	3/32 (2.4)	4	
RCP-46	1/16 (1.6)	6	
RCP-49	3/32 (2.4)	6	
RCP-413	1/8 (3.2)	6	RRP-250
RCP-56	1/16 (1.6)	7	
RCP-59	3/32 (2.4)	7	
RCP-513	1/8 (3.2)	7	
RCP-66	1/16 (1.6)	5	RRP-250
RCP-69	3/32 (2.4)	5	
RCP-86	1/16 (1.6)	3	
RCP-89	3/32 (2.4)	3	

RRP Round Roll Pins

Material: Passivated Stainless Steel per MIL-P-10971
Color: Silver

Part No.	Standard Pack: 100 per bag	
	"D"	"L"
RRP-250	3/32 (2.4)	1/4 (6.4)
RRP-312	3/32 (2.4)	5/16 (7.9)

R1001 Insertor / Extractor



Features

- Passivated stainless steel pins (per MIL-P-10971), supplied with each insertor/extractor

Roll Pins for use with following Insertor/Extractors		
RRP-250	RRP-312	RRP-375
R1001-062	R11073-062	R1209-062
R1002-093	R11073-093	R1209-093
R1003-125	R11073-125	R1209-125
R1107-062	R1107310-062	-
R110710-062	R1107310-093	-
-	R1107310-125	-

Material: Nylon 6/6, RMS-48 • Color: Natural		
Part No.	Standard Pack: 100 per bag	
	"S"	PCB Thickness
R1001-062	.075 (1.9)	.062 (1.6)
R1002-093	.100 (2.5)	.093 (2.4)
R1003-125	.140 (3.6)	.125 (3.2)

R1107 Insertor / Extractor

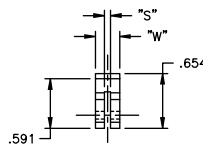


Fig. 1

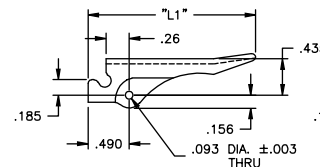


FIG. 1.

Fig. 2

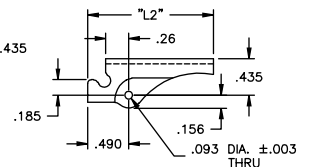
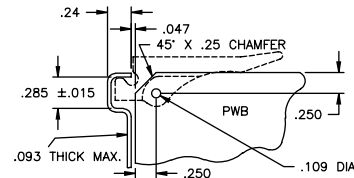


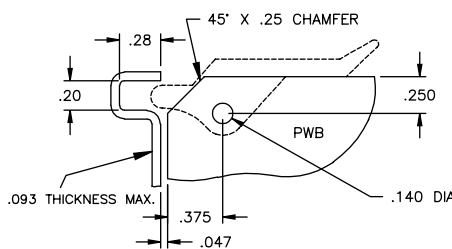
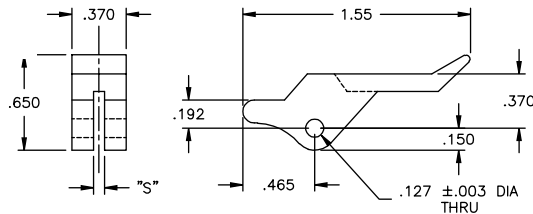
FIG. 2.

Material: Glass filled nylon per ASTM D4066 PA111 G30F04
Color: Natural

Part No.	Standard Pack: 100 per bag				PCB Thickness	Fig. #
	"S"	"W"	"L1"	"L2"		
R1107-062	.075 (1.9)	.29 (7.4)	2.0 (50.8)		.062 (1.6)	1
R11073-062	.075 (1.9)	.35 (8.9)			.093 (2.4)	
R11073-093	.100 (2.5)				.125 (3.2)	
R11073-125	.140 (3.6)					
R110710-062	.075 (1.9)	.29 (7.4)	1.5 (38.1)		.062 (1.6)	2
R1107310-062	.075 (1.9)	.35 (8.9)			.093 (2.4)	
R1107310-093	.100 (2.5)				.125 (3.2)	
R1107310-125	.140 (3.6)					



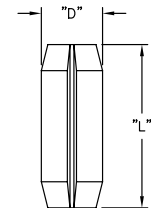
R1209 Insertor / Extractor



Material: Nylon 6/6, RMS-48
Color: Natural

Part No.	Standard Pack: 100 per bag	
	"S"	PCB Thkns.
R1209-062	.075 (1.9)	.062 (1.6)
R1209-093	.100 (2.5)	.093 (2.4)
R1209-125	.140 (3.6)	.125 (3.2)

RRP Round Roll Pins



Material: Passivated Stainless Steel per MIL-P-10971
Color: Silver

Part No.	Standard Pack: 100 per bag	
	"D"	"L"
RRP-250	3/32 (2.4)	1/4 (6.4)
RRP-312	3/32 (2.4)	5/16 (7.9)
RRP-375	1/8 (3.2)	3/8 (9.5)

Introduction

General Features

Richco's extensive line of plastic rivets are designed to secure components and/or panels to a wide variety of materials such as wood, metal, particle board, plastic foam and rubber surfaces. Rivets come in blind hole, arrowhead, ribbed, removable, unscrewing, and push/pull versions. Richco's Rivets are offered in a wide range of materials, including standard Nylon 6/6, Nylon 6, V0 Rated Nylon, Polyethylene, Acetal and Polysulfone material for high temperature applications. Richco's bumpers and feet are designed to finish off a product by giving it a stable base to stand upon.

Applications

- | | |
|--------------------------------------|----------------------------------|
| Typical Applications Include: | • Consumer Electronics Industry |
| • Point of Purchase Display Industry | • White Goods Industry |
| • Automotive Industry | • Telecom and Datacom Industries |

Special Features

- Snap Latch Series (SLPL/SLPB) is used primarily to allow easy access into panel mounted systems.
- Unscrewing Snap Rivet (USR) Series is a unique design whereby the part can be pushed in and is easily removed with a screwdriver.

Materials

Most rivets are manufactured in Nylon 6 as a standard. Other material available by special order.

Material	Flammability Rating	Applications
Nylon 6/6	V-2	General Purpose
Flame Retardant Nylon	V-0	General Purpose
Nylon 4/6	V-2	High Temperature
Impact Modified Nylon	HB	Shear Force
Black Ultraviolet	UVB	Outdoor Applications

Special Packaging

Most Richco parts come "standard packed" 1,000 pieces per bag. Rivets, bumpers and feet can be specially packed in any quantity as a special order. Minimum order requirements may apply. Please consult the factory to discuss application.



Pawl-Lok



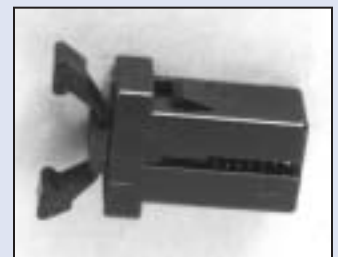
Push Rivet



Snap Rivets



Soft Fast Feet



Door Latch

RIVETS, BUMPERS & FEET

Series SR/SRVO Snap Rivets

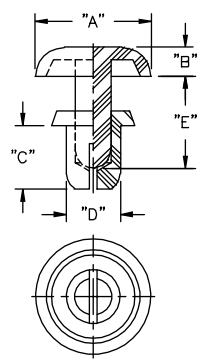


FIG. 1

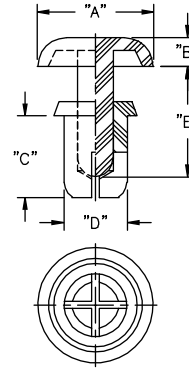
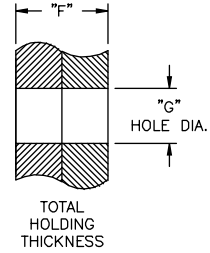


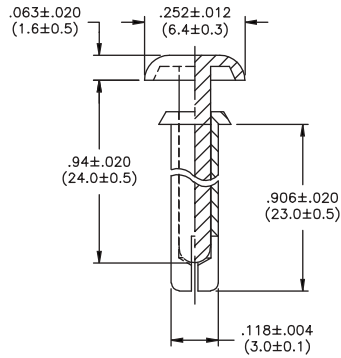
FIG. 2



Part No.		Standard Pack: 1000 per bag									Fig. No.
Material: Nylon 6, RMS-52 Color: Black & White Standard	Material: Nylon 6 UL94 V0, RMS-103 Color: Black Standard	Hold Dia. "G"	Extraction Force lb. (kg)	Thickness "F"	"A" ± .008 (0.2)	"B" ± .008 (0.2)	"C" ± .012 (0.3)	"D"	"E" ± .012 (0.3)		
SR-2024	SRVO-2024	.083-.087 (2.1-2.2)	6.6 min. (3 min.)	.024-.047 (0.6-1.2)	.165 (4.2)	.047 (1.2)	.09 (2.4)	.079 (2.0)	.11 (2.8)	1	
SR-2032	SRVO-2032			.051-.079 (1.3-2.0)					.13 (3.2)		.15 (3.8)
SR-2040	SRVO-2040			.083-.110 (2.1-2.8)					.16 (4.0)		.19 (4.8)
SR-2048	SRVO-2048			.114-.142 (2.9-3.6)					.22 (5.6)		.28 (7.2)
SR-2056	SRVO-2056			.146-.173 (3.7-4.4)					.25 (6.4)		.28 (7.1)
SR-2064	SRVO-2064			.173-.197 (4.4-5.0)					.039-.079 (1.0-2.0)		.197 (5.0)
SR-2632	SRVO-2632	.079-.118 (2.0-3.0)	.17 (4.2)	.19 (4.8)							
SR-2642	SRVO-2642	.106-.142 (2.7-3.6)	.22 (5.5)	.24 (6.1)							
SR-2648	SRVO-2648	.134-.169 (3.4-4.3)	.25 (6.4)	.31 (7.8)							
SR-2655	SRVO-2655	.169-.205 (4.3-5.2)	.28 (7.2)	.31 (7.8)							
SR-2672	SRVO-2672	.201-.236 (5.1-6.0)	.25 (6.4)	.28 (7.2)							
SR-3035	SRVO-3035	.122-.126 (3.1-3.2)	17.6 min. (8 min.)	.039-.079 (1.0-2.0)	.252 (6.4)	.063 (1.6)	.14 (3.5)	.118 (3.0)	.20 (5.1)	2	
SR-3045	SRVO-3045			.079-.118 (2.0-3.0)					.18 (4.5)		.24 (6.1)
SR-3055	SRVO-3055			.118-.158 (3.0-4.0)					.22 (5.5)		.28 (7.1)
SR-3065	SRVO-3065			.158-.197 (4.0-5.0)					.26 (6.5)		.35 (9.0)
SR-3075	SRVO-3075			.197-.236 (5.0-6.0)					.30 (7.5)		.35 (9.0)
SR-3080	SRVO-3080			.217-.256 (5.5-6.5)					.31 (8.0)		.43 (11.0)
SR-3090	SRVO-3090	.256-.295 (6.5-7.5)	.35 (9.0)	.315 (8.0)	.071 (1.8)	.20 (5.0)	.158 (4.0)	.39 (10.0)			
SR-3100	SRVO-3100	.295-.335 (7.5-8.5)	.39 (10.0)					.28 (7.1)			
SR-3535	SRVO-3535	.047-.083 (1.2-2.1)	.20 (5.0)					.28 (7.0)			
SR-3545	SRVO-3545	.083-.118 (2.1-3.0)	.24 (6.0)					.35 (9.0)			
SR-3550	SRVO-3550	.106-.142 (2.7-3.8)	.31 (8.0)					.36 (9.1)			
SR-3555	SRVO-3555	.118-.158 (3.0-4.0)	.31 (8.0)					.43 (11.0)			
SR-3560	SRVO-3560	.146-.181 (3.7-4.6)	.31 (8.0)	.47 (12.0)							
SR-3570	SRVO-3570	.177-.217 (4.5-5.5)	.28 (7.0)	.354 (9.0)	.087 (2.2)	.18 (4.5)	.197 (5.0)	.26 (6.5)			
SR-3580	SRVO-3580	.217-.256 (5.5-6.5)	.28 (7.0)					.26 (6.5)			
SR-4050	SRVO-4050	.098-.138 (2.5-3.5)	.24 (6.0)					.33 (8.5)			
SR-4060	SRVO-4060	.138-.177 (3.5-4.5)	.28 (7.0)					.37 (10.5)			
SR-4070	SRVO-4070	.177-.217 (4.5-5.5)	.31 (8.0)					.41 (10.5)			
SR-4080	SRVO-4080	.217-.256 (5.5-6.5)	.35 (9.0)					.47 (12.0)			
SR-4090	SRVO-4090	.256-.295 (6.5-7.5)	.35 (9.0)	.472 (12.0)	.098 (2.5)	.24 (6.0)	.236 (6.0)	.35 (9.0)			
SR-4100	SRVO-4100	.295-.335 (7.5-8.5)	.39 (10.0)					.35 (9.0)			
SR-4120	SRVO-4120	.354-.413 (9.0-10.5)	.47 (12.0)					.35 (9.0)			
SR-5045	SRVO-5045	.059-.098 (1.5-2.5)	.18 (4.5)					.26 (6.5)			
SR-5055	SRVO-5055	.098-.138 (2.5-3.5)	.22 (5.5)					.33 (8.5)			
SR-5065	SRVO-5065	.138-.177 (3.5-4.5)	.26 (6.5)					.41 (10.5)			
SR-5075	SRVO-5075	.177-.217 (4.5-5.5)	.30 (7.5)	.240-.244 (6.1-6.2)	.098 (2.5)	.24 (6.0)	.236 (6.0)	.35 (9.0)			
SR-5085	SRVO-5085	.217-.256 (5.5-6.5)	.33 (8.5)					.35 (9.0)			
SR-5095	SRVO-5095	.256-.295 (6.5-7.5)	.37 (10.5)					.35 (9.0)			
SR-5105	SRVO-5105	.295-.335 (7.5-8.5)	.41 (10.5)					.35 (9.0)			
SR-6060	SRVO-6060	.098-.158 (2.5-4.0)	.472 (12.0)					.35 (9.0)			
SR-6080	SRVO-6080	.138-.217 (3.5-5.5)	.39 (10.0)					.39 (10.0)			

Green (GN), Yellow (YL), Red (RD) and Blue (BL) available by special order only.
Add "B" for black and "W" for white.

SR-3230 Snap Rivet (Long)



Features

- Excellent for fan housing applications



Material: Nylon 6, RMS-52 • Color: Black

Part No.	Standard Pack: 1000 per bag		
	Mounting Hole Dia.	Panel Thickness	Extraction Force
SR-3230	.122-.126 (3.1-3.2)	.807-847 (20.5-21.5)	17.6 lbs. (8kg) min.

SRHR Snap Rivet, Heat-Resistant

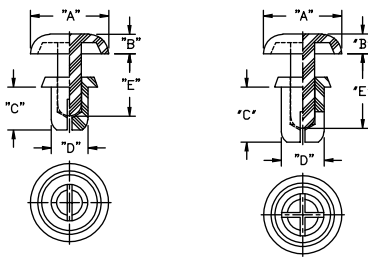
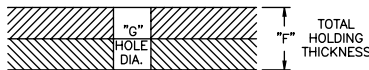


FIG. 1

FIG. 2



Material: Nylon 4/6, RMS-56 • Color: Tan

Part No.	Standard Pack: 1000 per bag							
	Hole Dia. "G"	Thickness "F"	"A"	"B"	"C"	"D"	"E"	Fig. No.
SRHR-3035	.122 - .126 (3.1 - 3.2)	.039 - .079 (1.0 - 2.0)	.252 (6.4)	.063 (1.6)	.14 (3.5)	.118 (3.0)	.20 (5.1)	1
SRHR-3045		.079 - .118 (2.0 - 3.0)			.18 (4.5)		.24 (6.1)	
SRHR-3055		.118 - .157 (3.0 - 4.0)			.22 (5.5)		.28 (7.1)	
SRHR-3065		.157 - .197 (4.0 - 5.0)			.26 (6.5)		.35 (8.9)	
SRHR-3080		.197 - .256 (5.0 - 6.5)			.31 (8.0)		.35 (8.9)	
SRHR-3535	.142 - .146 (3.6 - 3.7)	.047 - .083 (1.2 - 2.1)	.252 (6.4)	.063 (1.6)	.14 (3.5)	.138 (3.5)	.20 (5.1)	2
SRHR-3545		.087 - .122 (2.2 - 3.1)			.18 (4.5)		.24 (6.1)	
SRHR-3555		.118 - .157 (3.0 - 4.0)			.22 (5.5)		.28 (7.1)	
SRHR-4050	.161 - .165 (4.1 - 4.2)	.098 - .138 (2.5 - 3.5)	.315 (8.0)	.071 (1.8)	.20 (5.0)	.157 (4.0)	.28 (7.0)	2
SRHR-4060		.138 - .177 (3.5 - 4.5)			.24 (6.0)		.35 (9.0)	
SRHR-4070		.177 - .217 (4.5 - 5.5)			.28 (7.0)		.43 (11.0)	
SRHR-4080		.217 - .256 (5.5 - 6.5)			.31 (8.0)			
SRHR-4100		.295 - .335 (7.5 - 8.5)			.39 (10.0)			

NOTE:

SRHR-3000 Series rated at UL 94HB
SRHR-3500 and 4000 Series rated at UL94 V-2

Features

- SRHR resists heat spikes typical in wave solder applications

SRP Snap Rivet - P-Type

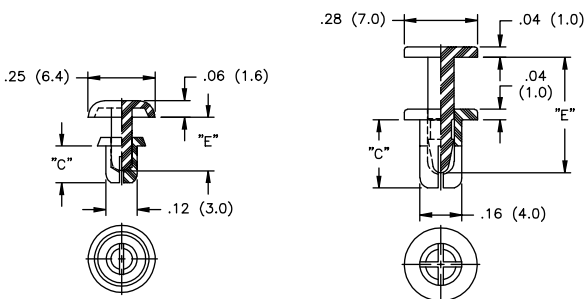


FIG. 1

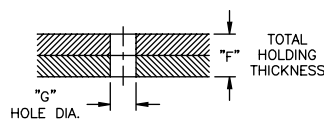
FIG. 2

Material: Polysulfone, RMS-51
Color: Black

Part No.	Standard Pack: 1000 per bag				
	Hole Dia. "G"	Thickness "F"	"C"	"E"	Fig. No.
SRP-3045	.122-.126 (3.1 - 3.2)	.059 - .098 (1.5 - 2.5)	.18 (4.5)	.24 (6.1)	1
SRP-3055		.098 - .138 (2.5 - 3.5)	.22 (5.5)		
SRP-4065		.157-.165 (4.0 - 4.2)	.059 - .098 (1.5 - 2.5)	.26 (6.5)	

Features

- Withstands temperatures up to 250°F (121°C)



RIVETS, BUMPERS & FEET

SRH/SRHVO Snap Rivet, H-Type

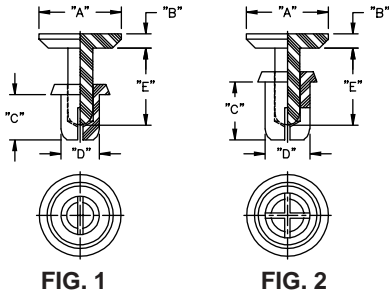
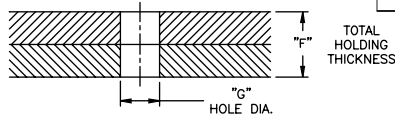


FIG. 1

FIG. 2



Color: Black

Part No.		Standard Pack: 1000 per bag							Fig. No.
Material: Nylon 6, RMS-52	Material: Nylon 6, UL94 V-0, RMS-103	Hole Dia. "G"	Thickness "F"	"A" ± .012 (0.3)	"B" ± .008 (0.2)	"C" ± .012 (0.3)	"D"	"E" ± .012 (0.3)	
SRH-3035	SRHVO-3035	.122-.126 (3.1-3.2)	.039-.079 (1.0-2.0)	.252 (6.4)	.039 (10.0)	.14 (3.5)	.118 (3.0)	.26 (6.5)	1
SRH-3045	SRHVO-3045		.079-.118 (2.0-3.0)			.18 (4.5)			
SRH-3055	SRHVO-3055		.118-.157 (3.0-4.0)			.22 (5.5)			
SRH-3065	SRHVO-3065		.157-.197 (4.0-5.0)	.26 (6.5)					
SRH-3080	SRHVO-3080		.197-.256 (5.0-6.5)	.31 (8.0)					
SRH-3090	SRHVO-3090		.256-.295 (6.5-7.5)	.35 (9.0)					
SRH-3100	SRHVO-3100	.295-.335 (7.5-8.5)	.252 (6.4)	.39 (10.0)	.26 (6.5)	.47 (12.0)	2		
SRH-3535	SRHVO-3535	.039-.079 (1.0-2.0)	.252 (6.4)	.14 (3.5)					
SRH-3545	SRHVO-3545	.079-.118 (2.0-3.0)		.18 (4.5)					
SRH-3555	SRHVO-3555	.118-.157 (3.0-4.0)		.22 (5.5)					
SRH-3560	SRHVO-3560	.138-.177 (3.5-4.5)	.236 (6.0)	.24 (6.0)	.138 (3.5)	.39 (10.0)			
SRH-3570	SRHVO-3570	.177-.217 (4.5-5.5)	.28 (7.0)						
SRH-3580	SRHVO-3580	.217-.256 (5.5-6.5)	.31 (8.0)						



SRT Snap Rivet, T-Type

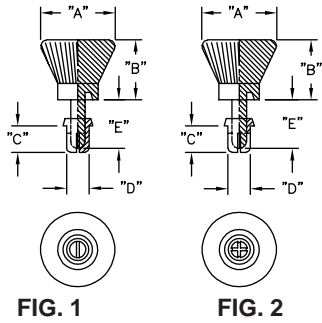
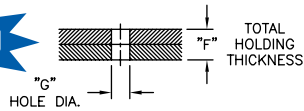


FIG. 1

FIG. 2



Material: Nylon 6, RMS-52 • Color: Black

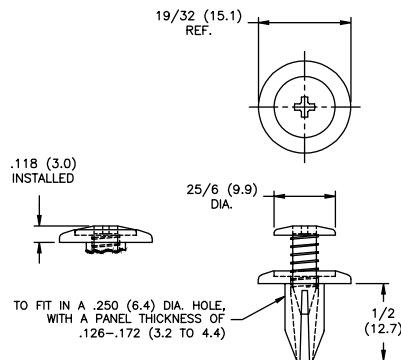
Part No.		Standard Pack: 1000 per bag							Fig. No.
Hole Dia. "G"	Thickness "F"	"A"	"B"	"C"	"D"	"E"			
.122 - .126 (3.1 - 3.2)	.039 - .079 (1.0 - 2.0)	.394 (10.0)	.315 (8.0)	.14 (3.5)	.118 (3.0)	.26 (6.6)	1		
	.079 - .118 (2.0 - 3.0)			.18 (4.5)					
	.118 - .157 (3.0 - 4.0)			.22 (5.5)					
	.157 - .197 (4.0 - 5.0)			.26 (6.5)		.35 (9.0)			
	.197 - .236 (5.0 - 6.0)			.30 (7.5)					
	.217 - .256 (5.5 - 6.5)			.32 (8.0)					
.142 - .146 (3.6 - 3.7)	.039 - .079 (1.0 - 2.0)	.472 (12.0)	.315 (8.0)	.14 (3.5)	.139 (3.5)	.26 (6.6)		2	
	.079 - .118 (2.0 - 3.0)			.18 (4.5)					
	.118 - .146 (3.0 - 3.7)			.22 (5.5)					
	.150 - .205 (3.8 - 5.2)			.28 (7.0)		.35 (9.0)			
	.209 - .256 (5.3 - 6.5)			.32 (8.0)					
	.098 - .138 (2.5 - 3.5)			.20 (5.0)					.30 (7.6)
.138 - .177 (3.5 - 4.5)	.24 (6.0)								
.177 - .216 (4.5 - 5.5)	.28 (7.0)	.44 (11.2)							
.216 - .256 (5.5 - 6.5)	.32 (8.0)								
.256 - .295 (6.5 - 7.5)	.35 (9.0)								
.295 - .335 (7.5 - 8.5)	.39 (10.0)								

Part available in white by special order. To order, add "W".
V-0 nylon, RMS-103 available by special order.



USR-64125

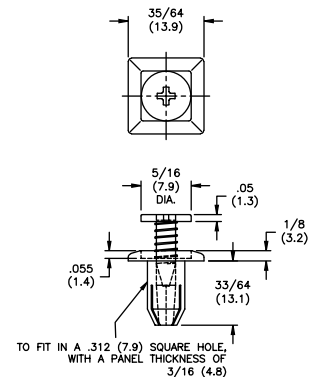
Unscrewing Snap Rivet



Material: General Purpose Nylon 6, RMS-52
Color: Black
Standard Pack: 500 per bag

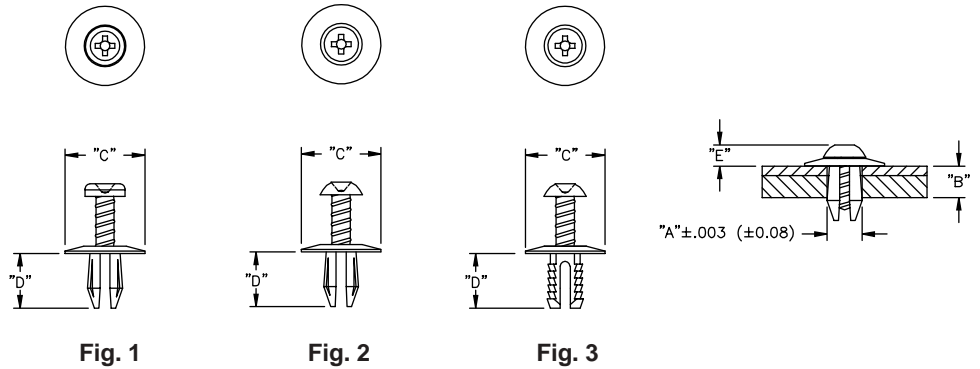
USR-80130

Unscrewing Snap Rivet



Material: General Purpose Nylon 6, RMS-52
Color: Black
Standard Pack: 500 per bag

USR Unscrewing Snap Rivet



Features

- Reusable; install by hand and remove with screwdriver

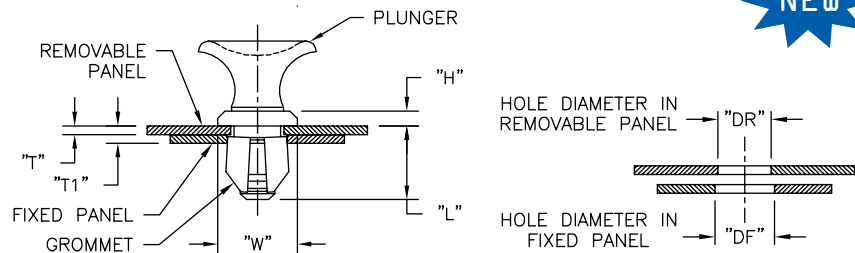
Material: Nylon 6/6, RMS-115 Color: Black

Part No.	Standard Pack: 1000 per bag					Fig. No.
	"A" Hole Dia."	"B" Panel Thickness	"C"	"D"	"E"	
USR-1131	.197 (5.0)	.158 -.276 (4.0-7.0)	.472 (12.0)	.433 (11.0)	.153 (3.9)	1
USR-1132	.236 (6.0)		.630 (16.0)			2
USR-1133	.315 (8.0)	.118 -.394 (3.0-10.0)	.787 (20.0)	.551 (14.0)	.157 (4.0)	3

SLPL/SLPB/SLG Snap Latch

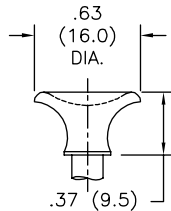


LATCHED POSITION

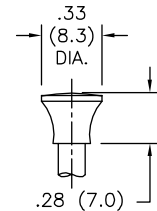
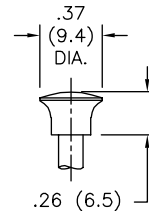


PLUNGER HEAD STYLES

EASY GRIP



MINI GRIP



NOTE:

Plunger and Mating Grommet sold separately

SLPL-1L ~ SLPL-4L

SLPB-1L ~ SLPB-4L

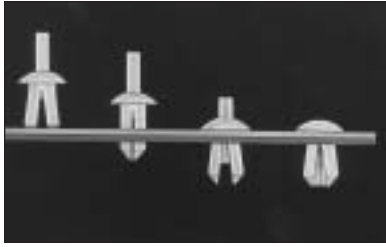
SLPB-1M ~ SLPB-4M

Material: Plunger- Nylon 6, RMS-120; Grommet - Polycarbonate, RMS-72 • Color: Black or White. Add "-B" for black, "-W" for white

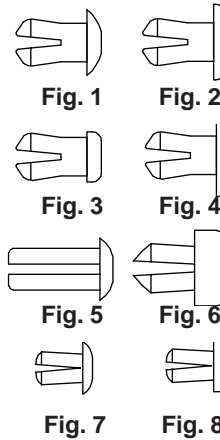
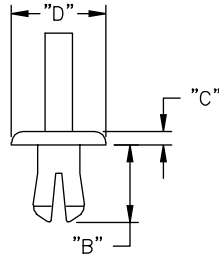
Grommet No.	Grommet Dash No.	"W" ± .012 (± 0.3)	"H" ± .008 (± 0.2)	"L" Ref.	Removable Panel Thickness "T" max.	Total Panel Thickness "T1" min.-max.	Removable Panel Hole Dia. Range "DR"	Fixed Panel Hole Dia. Range "DF"	Mating Plunger No.	Alternate Mating Plunger No.	Plunger Dash No.
SLG	SL	.425 (10.8)	.079 (2.0)	.339 (8.6)	.043 (1.1)	.059-.145 (1.5-3.7)	.295-.303 (7.5-7.7)	.315-.323 (8.0-8.2)	SLPL	SLPB	1L
	1L			.354 (9.0)	.063 (1.6)	.079-.165 (2.0-4.2)					2L
	2L			.394 (10.0)	.098 (2.5)	.118-.205 (3.0-5.2)					3L
	3L			.461 (11.7)	.161 (4.1)	.181-.272 (4.6-6.9)					4L
	4L	.335 (8.5)	.071 (1.8)	.508 (12.9)	.209 (5.3)	.228-.315 (5.8-8.0)	.234-.240 (5.95-6.1)	.250-.256 (6.35-6.5)	SLPB	-	1M
	1M			.315 (8.0)	.043 (1.1)	.059-.146 (1.5-3.7)					2M
	2M			.335 (8.5)	.063 (1.6)	.079-.165 (2.0-4.2)					3M
	3M			.374 (9.5)	.098 (2.5)	.118-.205 (3.0-5.2)					4M
4M	.433 (11.0)	.161 (4.1)	.181-.272 (4.6-6.9)								

RIVETS, BUMPERS & FEET

PPR Push Rivet



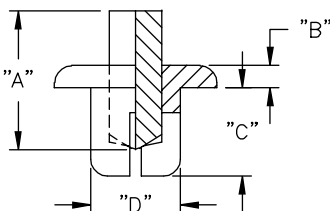
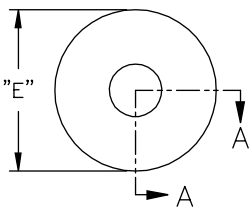
PPR-T PPR Installation Tool



Part No.	Standard Pack: 1000 per bag						Installation Tool	Fig. No.	
	Hole Dia.	Total Material Thickness Range	Leg Length "B"	Head Thick. "C"	Head "D"				
PPR-93-1	.130 (3.3)	.020-.138 (0.5-3.5)	.197 (5.0)	.051 (1.3)	.189 (4.8)	PPR-T1	7		
PPR-93-2	.142 (3.6)	.079-.217 (2.0-5.5)	.276 (7.0)	.079 (2.0)	.303 (7.7)				
PPR-93-4	.158 (4.0)	.158-.256 (4.0-6.5)	.315 (8.0)	.059 (1.5)	.256 (6.5)				
PPR-93-5					.295 (7.5)				
PPR-93-22					.236 (6.0)				
PPR-93-23	.173 (4.4)	.039-.138 (1.0-3.5)	.197 (5.0)	.067 (1.7)	.236 (6.0)				
PPR-5	.189 (4.8)	.039-.375 (1.0-9.5)	.421 (10.7)	.063 (1.6)	.280 (7.1)			PPR-T1	5
PPR-93-10		.063-.185 (1.6-4.7)	.291 (7.4)	.098 (2.5)	.343 (8.7)				
PPR-93-8		.158-.343 (4.0-8.7)	.433 (11.0)	.047 (1.2)	.280 (7.1)				
PPR-2		.158-.281 (4.0-7.1)	.382 (9.7)	.059 (1.5)	.429 (10.9)				
PPR-3		.311-.437 (7.9-11.1)	.535 (13.6)	.079 (2.0)	.280 (7.1)				
PPR-93-7		.059-.197 (1.5-5.0)	.291 (7.4)		.382 (9.7)				
PPR-93-14B*	.197 (5.0)	.118-.276 (3.0-7.0)	.433 (11.0)	.370 (9.4)	.433 (11.0)	PPR-T4	7		
PPR-1	.217 (5.5)	.094-.158 (2.4-4.0)	.449 (11.4)	.370 (9.4)					
PPR-93-24B*	.236 (6.0)	.118-.276 (3.0-7.0)	.394 (10.0)	.433 (11.0)					
PPR-9	.252 (6.4)	.059-.252 (1.5-6.4)	.366 (9.3)	.185 (4.7)	.437 (11.1)				
PPR-94-2		.158-.374 (4.0-9.5)	.472 (12.0)	.079 (2.0)	.433 (11.0)				
PPR-4		.280-.500 (7.1-12.7)	.622 (15.8)	.469 (11.9)					
PPR-93-18B*		.280 (7.1)	.158-.472 (4.0-12.0)	.689 (17.5)	.098 (2.5)			.669 (17.0)	

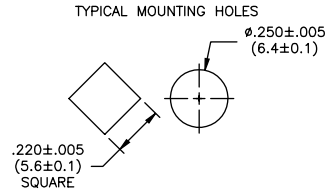
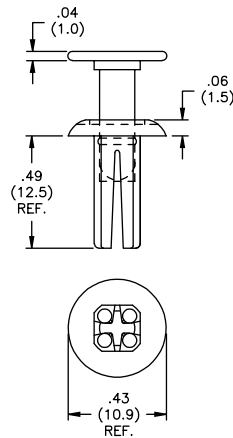
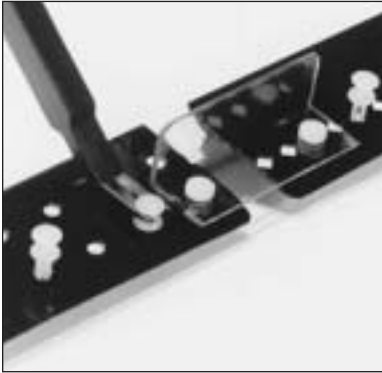
*Only available in black.

PPR-Blunt Push Rivet (Blunt)



Part No.	Standard Pack: 1000 per bag										
	Hole Dia.	Panel Thickness	"A"	"B"	"C"	"D" Dia.	"E" Dia.				
PPR-3045	.122 (3.1)	.08 - .12 (2.0 - 3.0)	.35 (8.9)	.08 (2.0)	.18 (4.6)	.118 (3.0)	.23 (5.8)				
PPR-3055	.161 (4.1)	.12 - .16 (3.0 - 4.0)	.36 (9.2)	.09 (2.2)	.22 (5.6)	.157 (4.0)	.31 (8.0)				
PPR-4050		.10 - .14 (2.5 - 3.5)			.20 (5.0)						
PPR-4060	.201 (5.1)	.14 - .18 (3.5 - 4.5)	.41 (10.4)	.13 (3.3)	.24 (6.0)	.189 (4.8)	.39 (9.9)				
PPR-4850		.05 - .12 (1.2 - 3.0)			.20 (5.1)						
PPR-5050		.08 - .12 (2.0 - 3.0)			.37 (9.4)						
PPR-5060		.12 - .16 (3.0 - 4.0)			.24 (6.1)						
PPR-5070		.16 - .20 (4.0 - 5.0)			.28 (7.1)						
PPR-5080		.20 - .24 (5.0 - 6.0)			.45 (11.4)						
PPR-5090		.24 - .28 (6.0 - 7.0)			.49 (12.4)						
PPR-5100		.28 - .31 (7.0 - 8.0)			.54 (13.6)						
PPR-6060		.10 - .16 (2.5 - 4.0)			.37 (9.4)			.11 (2.8)	.35 (8.9)	.39 (10.0)	.37 (9.5)
PPR-6060		.240 (6.1)			.10 - .16 (2.5 - 4.0)			.37 (9.4)	.06 (1.5)	.24 (6.1)	.236 (6.0)

PPR-10 Push Rivet



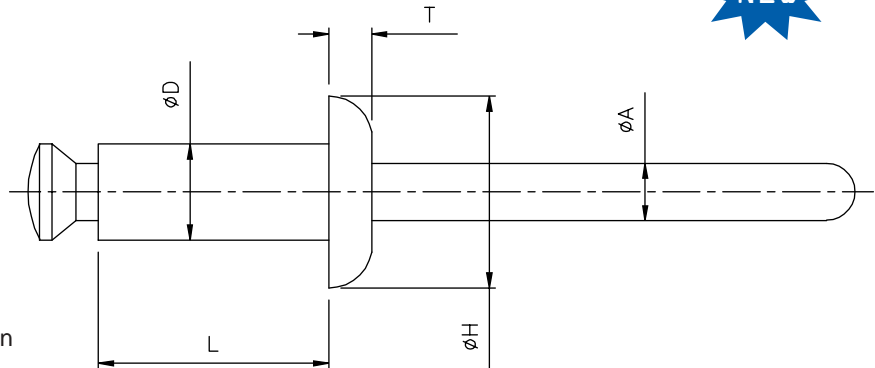
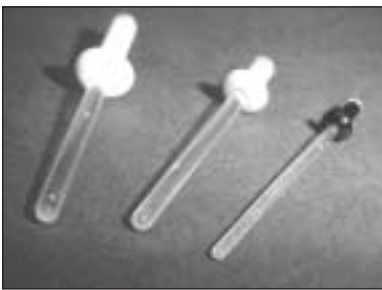
PANEL THICKNESS: .140-200 (3.56-5.08)



Material: Nylon 6, RMS-120
Color: Natural

Standard Pack: 100 per bag

CR Clinch Rivets



Features

- Installed with standard pop rivet installation guns not supplied by Richco

Material: Rivet - Nylon 6, RMS-106; Mandrel - Polycarbonate, RMS-107
Colors: Black - 1, White - 2, Grey - 3, Beige - 4, add corresponding color number to the end of the part number.

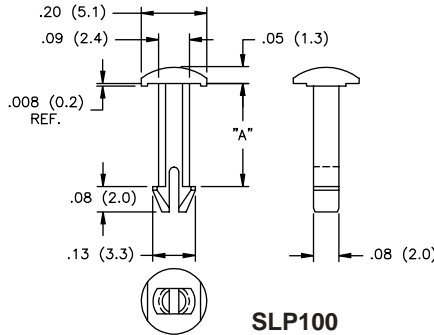
Part No.	Mounting Hole Dia.	Panel Thickness	"D" Dia.	"L"	"H" Dia.	"T"	"A" Dia.	Tensile Strength (Yield)	Shear Strength	Standard Pack Quantity
CR32-1	3.3	1.0 - 4.0	3.2	6.4	6.4	1.4	2.1	12kg	20kg	1000
CR32-2		4.0 - 7.0		9.6						
CR32-3		7.0 - 10.0		12.7						
CR40-1	4.1	1.0 - 4.0	4.0	6.4	8.0	1.8	2.4	18kg	25kg	
CR40-2		4.0 - 7.0		9.6						
CR40-3		7.0 - 10.0		12.7						
CR48-1	4.9	1.5 - 5.0	4.8	8.0	9.6	2.0	2.8	28kg	40kg	500
CR48-2		5.0 - 8.0		11.2						
CR48-3		8.0 - 11.0		14.4						
CR56-1	5.7	2.0 - 5.5	5.6	9.6	12.0	2.2	3.4	40kg	65kg	
CR56-2		5.5 - 8.5		12.7						
CR56-3		8.5 - 12.0		15.9						

Dimensioned in millimeters

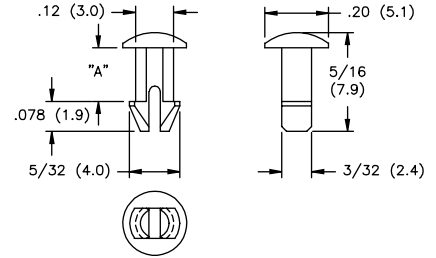
RIVETS, BUMPERS & FEET

SLP100/SLP125

Snap-Lock Pins



SLP100



SLP125-187-01

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000 per bag	
	"A" ± .010 (.25)	Hole Dia. ± .002 (.05)
SLP100-177-01	.177 (4.5)	.100 (2.5)
SLP100-307-01	.307 (7.8)	
SLP100-316-01	.316 (8.0)	
SLP100-638-01	.638 (16.2)	
SLP125-187-01	.187 (4.75)	

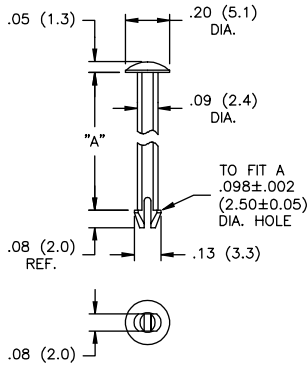
Part available in V-0 rated material by special order.
To order, replace -01 with -19.

Features

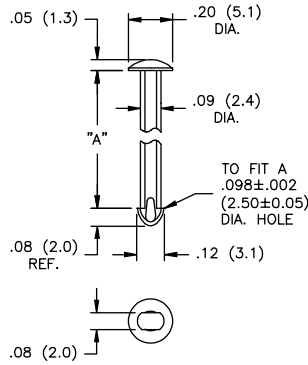
- Fix connectors to printed circuit boards ready for wave soldering
- Other lengths available by special order

SLP-1/SLP-2

Snap Lock Pins



SLP-1
Open-Arrow Base



SLP-2
Tear-Drop Base

Material: Nylon 6/6, RMS-01 • Color: Natural

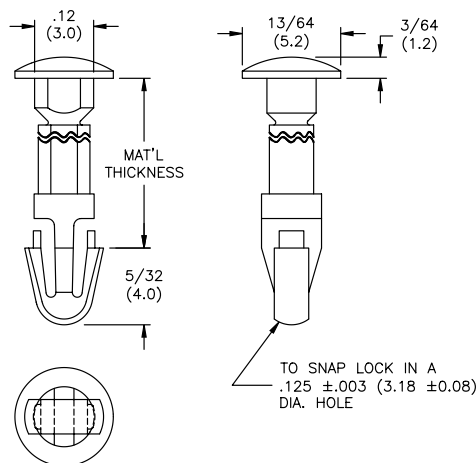
Part No		Standard Pack: 1000 per bag
Open-Arrow Base	Tear-Drop Base	"A" ± .015 (0.4)
SLP-1-100-177-01	SLP-2-100-177-01	.177 (4.50)
SLP-1-100-221-01	SLP-2-100-221-01	.221 (5.60)
SLP-1-100-236-01	SLP-2-100-236-01	.236 (6.00)
SLP-1-100-245-01	SLP-2-100-245-01	.245 (6.22)
SLP-1-100-307-01	SLP-2-100-307-01	.307 (7.80)
SLP-1-100-316-01	SLP-2-100-316-01	.316 (8.02)
SLP-1-100-330-01	SLP-2-100-330-01	.330 (8.38)
SLP-1-100-413-01	SLP-2-100-413-01	.413 (10.50)
SLP-1-100-638-01	SLP-2-100-638-01	.638 (16.20)
SLP-1-100-660-01	SLP-2-100-660-01	.660 (16.76)
SLP-1-100-701-01	SLP-2-100-701-01	.701 (17.80)

Features

- Fix connectors to printed circuit boards ready for wave soldering
- Other lengths available by special order

SLPA

Snap Lock Pin with Arrowhead



Material: Nylon 6/6, RMS-01
Color: Natural

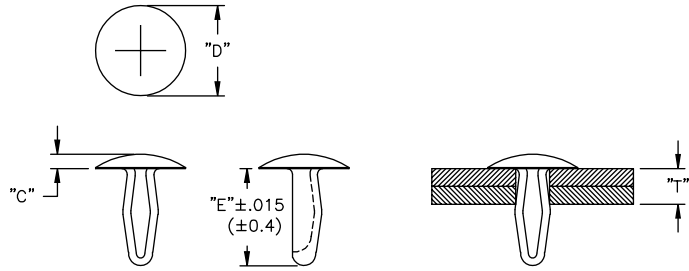
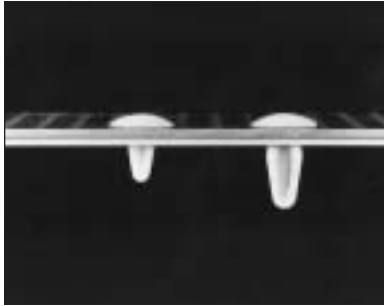
Part No.	Standard Pack: 1000 per bag
	Material Thickness Maximum
SLPA125-187-01	.187 (4.7)
SLPA125-250-01	.250 (6.4)
SLPA125-312-01	.312 (7.9)
SLPA125-375-01	.375 (9.5)
SLPA125-500-01	.500 (12.7)
SLPA125-625-01	.625 (15.9)
SLPA125-750-01	.750 (19.1)

Flame Retardant Nylon, RMS-19 available by special order.
To order, replace -01 with -19.

Features

- Used for fixing connectors to printed circuit boards ready for wave soldering

MMB Mini-Mounting Button

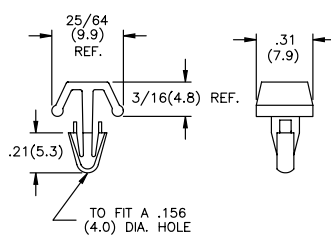
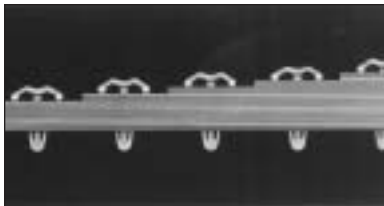


NOTE:
Other head styles and sizes available by special order

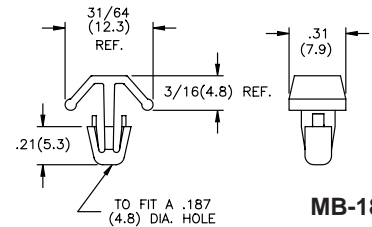
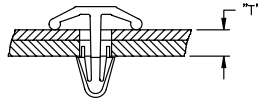
Part No.	Standard Pack: 1000 per bag				
	Mounting Hole Dia.	"T"	"C"	"D"	"E"
MMB-125-01	.123-.127 (3.10-3.22)	.08-.10 (2.0-2.5)	.04 (1.0)	.27 (6.9)	.33 (8.4)
MMB-136-01	.131-.141 (3.32-3.58)	.12-.16 (2.9-4.0)	.07 (1.7)	.41 (10.3)	.44 (11.1)
MMB-187-01	.182-.192 (4.61-4.88)	.10-.16 (2.5-4.0)	.09 (2.2)	.50 (12.7)	.43 (10.9)
MMB-250-01	.247-.253 (6.27-6.42)	.10-.22 (2.5-5.6)			.64 (16.3)

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.
To order black, use Part No. MMB-XXX-01B.

MB Mounting Button



MB-156



MB-187

Features

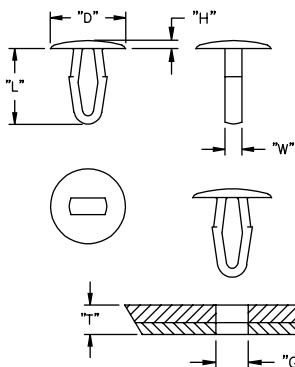
- Ideal for applications where metal screws or rivets cannot be used
- Barbed arrow locks securely; releasable from underside of board

Material: Nylon 6/6, RMS-01 • Color: Natural		
Part Number		Standard Pack: 1000 per bag
		"T" Recommended
MB-1-156	MB-1-187	1/32 (0.8) - 3/32 (2.4)
MB-3-156	MB-3-187	3/32 (2.4) - 5/32 (4.0)
MB-5-156	MB-5-187	3/16 (4.8) - 7/32 (5.6)
MB-7-156	MB-7-187	7/32 (5.6) - 9/32 (7.1)
MB-9-156	MB-9-187	5/16 (7.9) - 3/8 (9.5)
MB-11-156	MB-11-187	3/8 (9.5) - 7/16 (11.1)
MB-13-156	MB-13-187	7/16 (11.1) - 1/2 (12.7)
MB-15-156	MB-15-187	1/2 (12.7) - 9/16 (14.3)
MB-17-156	MB-17-187	9/16 (14.3) - 5/8 (15.9)

Flame Retardant Nylon, RMS-19 available by special order.
To order, add -19

"Impact Modified" Nylon 6/6, RMS-73 material available by special order. To order, replace -01 with -73.

DF Drive Fasteners



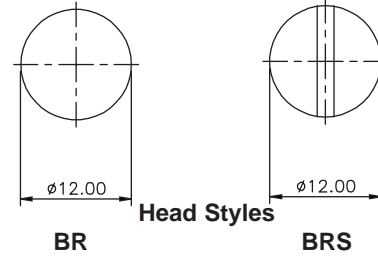
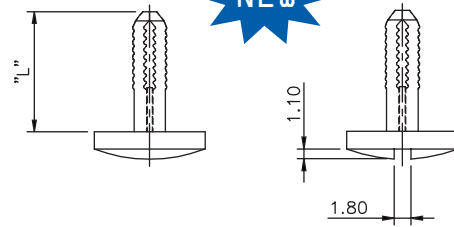
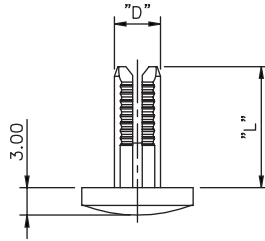
Material: Acetal, RMS-14 or V-O Rated Polyester, RMS-111							
Part No.		Standard Pack: 1000 per bag					
Material: Acetal, RMS-14 Color: White	Material: Polyester UL94 V-0, RMS-111 Color: Natural	Hole Dia. "G" ±.002 (0.05)	"T" Total Thickness Range	"D" ±.010 (0.25)	"H" ±.010 (0.25)	"L" Ref.	"W" Ref.
DF-137-010	—	.126 (3.2)	.039 - .177 (1.0-4.5)	.315 (8.0)	.059 (1.5)	.512 (13.0)	.106 (2.7)
DF-137-020	DFV0-137-020	.153 (3.9)	.039 - .197 (1.0-5.0)	.354 (9.0)	.063 (1.6)	.551 (14.0)	.116 (2.9)
DF-137-030	DFV0-137-030	.185 (4.7)	.039 - .216 (1.0-5.5)	.394 (10.0)	.067 (1.7)	.590 (15.0)	.134 (3.4)
DF-137-031	DFV0-137-031	.185 (4.7)	.039 - .216 (1.0-5.5)	.433 (11.0)	.114 (2.9)	.590 (15.0)	.134 (3.4)
DF-137-040	DFV0-137-040	.252 (6.4)	.059 - .256 (1.5-6.5)	.472 (12.0)	.079 (2.0)	.669 (17.0)	.153 (3.9)
DF-137-050	—	.307 (7.8)	.059 - .275 (1.5-7.0)	.551 (14.0)	.087 (2.2)	.748 (19.0)	.166 (4.2)
DF-137-060	—	.216 (5.5)	.236 - .354 (6.0-9.0)	.472 (12.0)	.079 (2.0)	.709 (18.0)	.150 (3.8)

Features

- Hollow body increases flexibility during insertions and removal process

RIVETS, BUMPERS & FEET

BR/BRS Barbed Rivet

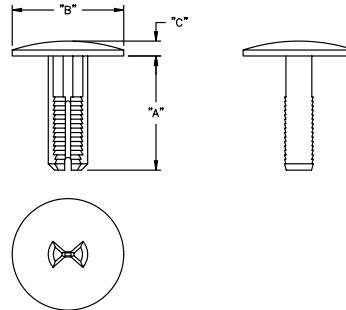
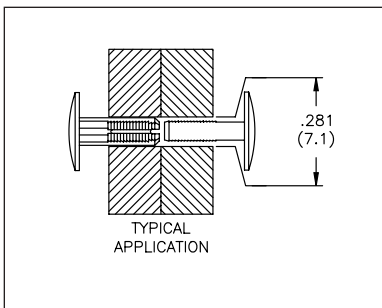


Material: Nylon 6/6, RMS-49 •Color: White or Black. To order, add WHT for white or BLK for black.

Part Number		Standard Pack: 1000 per bag (500 sets per bag)			
Non-Slotted Head	Slotted Head	"D"	"L"	Panel Thickness Range	Hole Diameter
BR-5-5*	BRS-5-5*	5.0 mm	5.0 mm	3.0 mm	5.5 - 5.8 mm
BR-5-7.5	BRS-5-7.5			5.3 - 7.5 mm	
BR-5-9	BRS-5-9		9.0 mm	9.0 - 13.0 mm	
BR-5-13	BRS-5-13		13.0 mm	13.0 - 20.0 mm	
BR-5-18	BRS-5-18		18.0 mm	18.0 - 28.0 mm	
BR-5-20	BRS-5-20		20.0 mm	20.0 - 34.0 mm	
BR-7-13	BRS-7-13	7.0 mm	13.0 mm	13.0 - 20.0 mm	7.5 - 7.8 mm

*BR/BRS-5-5 has excess material under the head to hold the smaller Panel Thickness Range Dimensioned in millimeters

BR Barbed Rivet



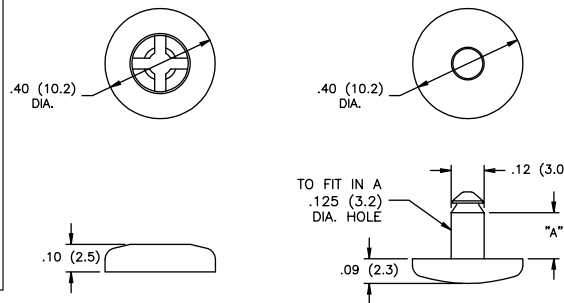
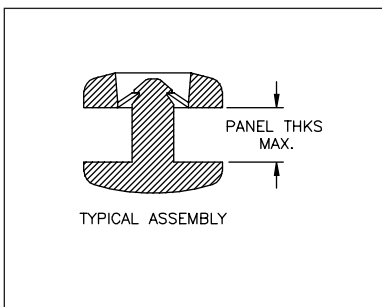
Features

- Serrated teeth adjust to a variety of sizes and joins panels together in a secure manner
- Complete assembly requires two pieces

Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag (500 sets per bag)				
	"A" Ref.	"B" ± .010 (0.25)	"C" ± .010 (0.25)	Assembled Thickness Range	Required Hole Size Dia.
BR1-226-01	.226 (5.7)	.750 (19.1)	.093 (2.4)	.235 (6.0) - .297 (7.5)	.281 (7.1)
BR1-344-01	.344 (8.7)			.346 (8.8) - .502 (12.8)	
BR1-488-01	.488 (12.4)			.500 (12.7) - .812 (20.6)	
BR1-768-01	.768 (19.5)			.781 (19.8) - 1.375 (34.9)	
BR2-226-01	.226 (5.7)	.406 (10.3)	.062 (1.6)	.235 (6.0) - .297 (7.5)	.281 (7.1)
BR2-344-01	.344 (8.7)			.346 (8.8) - .502 (12.8)	
BR2-488-01	.488 (12.4)			.500 (12.7) - .812 (20.6)	
BR2-768-01	.768 (19.5)			.781 (19.8) - 1.375 (34.9)	

MBRR/MBRP Mini Barbed Rivets



MBRR1-01

MBRP1-XXX-01

Material: Nylon 6/6, RMS-01
Color: Natural

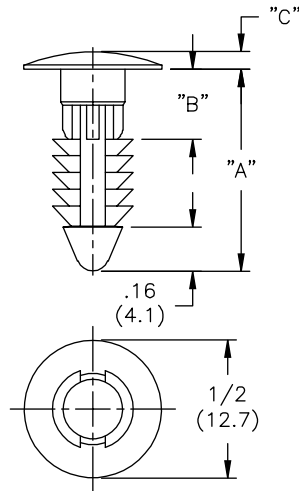
Part No.	Standard Pack: 1000 per bag	
	"A"	Panel Thickness Max
MBRP1-030-01	.063 (1.6)	.030 (0.8)
MBRP1-062-01	.095 (2.4)	.062 (1.6)
MBRP1-100-01	.133 (3.4)	.100 (2.5)
MBRP1-125-01	.158 (4.0)	.125 (3.2)
MBRP1-187-01	.220 (5.6)	.187 (4.8)
MBRP1-250-01	.283 (7.2)	.250 (6.4)

Female sold separately and is common to all sizes in the MBRP-1 Series. To order, use part number MBRR1-01.

Features

- Combination of two mating parts to clamp flat surface together
- Excellent for light load applications

PL Pawl-Lok

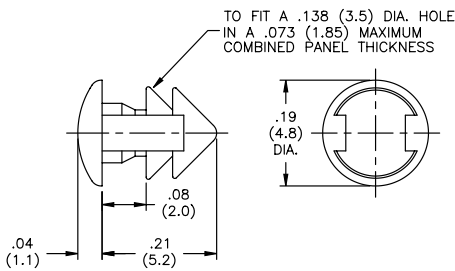


Material: Nylon 6/6, RMS-01 Color: Natural			
Part No.	Standard Pack: 1000 per bag		
	"A"	"B"	"C"
PL-250-10-01	5/8 (15.9)	1/8 (3.2)	.08 (2.0)
PL-250-12-01	3/4 (19.1)	1/4 (6.4)	.07 (1.8)

Features

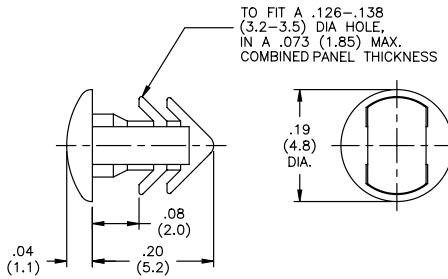
- For use in threaded, non-threaded, drilled or punched .250" (6.35mm) diameter holes in wood, metal (threaded), particle board, plastic, foam or rubber panels
- Other head styles and sizes available by special order

MPLE-3.5M-01 Pawl-Lock, Miniature



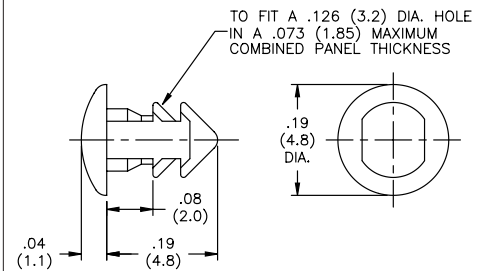
Material: Nylon 6/6, RMS-01 Color: Natural
Standard Pack: 1000 per bag
Part available in V-0 material by special order. To order, replace -01 with -19.

MPLE-3.2M/3.5M-01 Pawl-Lock, Miniature



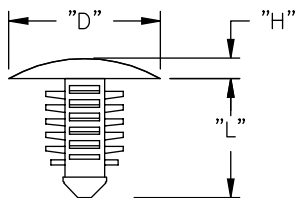
Material: Nylon 6/6, RMS-01 Color: Natural
Standard Pack: 1000 per bag
Part available in V-0 material by special order. To order, replace -01 with -19.

MPLE-3.2M-01 Pawl-Lock, Miniature

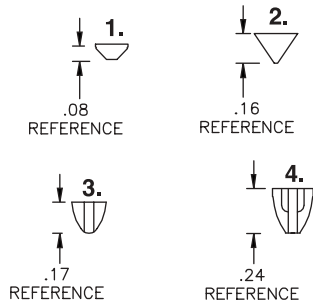


Material: Nylon 6/6, RMS-01 Color: Natural
Standard Pack: 1000 per bag
Part available in V-0 material by special order. To order, replace -01 with -19.

BPF Barbed Push Fastener



Tip Configurations

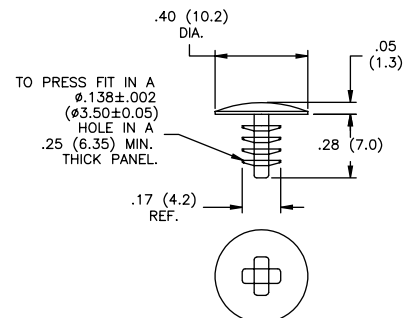


Features

- For use in threaded, non-threaded, drilled or punched holes in wood, metal (threaded), particle board, plastic, foam or rubber panels

Material: Nylon 6/6, RMS-49 Color: Black						
Part No.	Standard Pack: 1000 per bag					
	Hole Dia. ±.003 (.08)	Thickness	"D"	"L"	"H"	Style Type
BPF-A414	.185 (4.7)	.031 - .118 (0.8-3.0)	.45 (11.5)	.48 (12.2)	.07 (1.8)	1
BPF-F4410	.197 (5.0)	.059 - .295 (1.5-7.5)	.51 (12.9)	.58 (14.7)	.09 (2.3)	3
BPF-F2495	.276 (7.0)	.125 - .236 (3.2-6.0)	.59 (15.0)	.57 (14.5)	.08 (2.0)	2
BPF-F3T31	.197 (5.0)	.079 - .394 (2.0-10.0)	.62 (15.7)	.83 (21.1)	.09 (2.3)	3
BPF-F1G12	.276 (7.0)	.079 - .591 (2.0-15.0)	.70 (17.8)	.97 (24.6)	.10 (2.5)	4

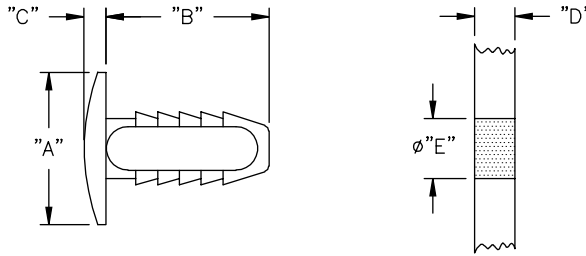
PFP-7-01 Press Fit Pin



Material: Nylon 6/6, RMS-01 Color: Natural
Standard Pack: 1000 per bag

RIVETS, BUMPERS & FEET

NR Nylon Rivet

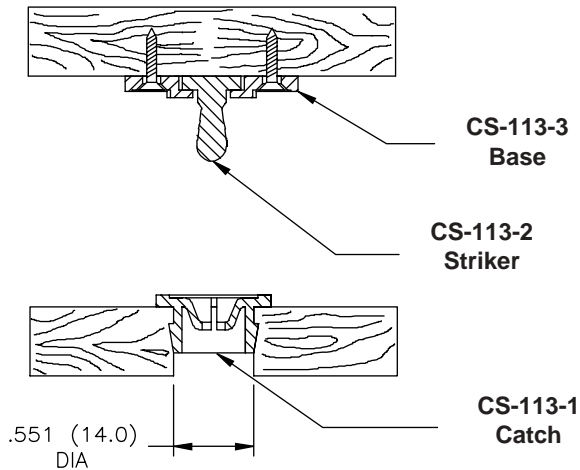


Material: Nylon 6/6 Color: Natural Standard Pack: 1000 per bag

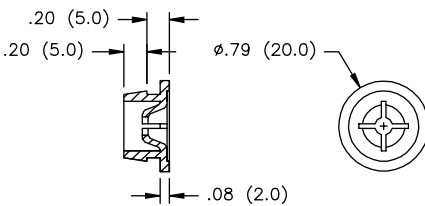
Part No.	"E" Mounting Hole Dia. $\pm .003$ (.08)	"D" Panel Thickness	"A"	"B" Ref.	"C"
NR-92-1	.228 (5.8)	.118 - .433 (3.0-11.0)	.551 (14.0)	.591 (15.0)	.079 (2.0)
NR-92-2		.118 - .591 (3.0-15.0)	.630 (16.0)	.748 (19.0)	
NR-92-4	.276 (7.0)	.118 - .748 (3.0-19.0)	.709 (18.0)	.906 (23.0)	

Parts available in black by special order. To order, use part number NR-92-XB

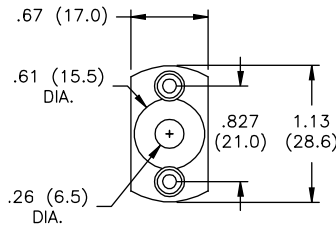
CS Catch & Strikers



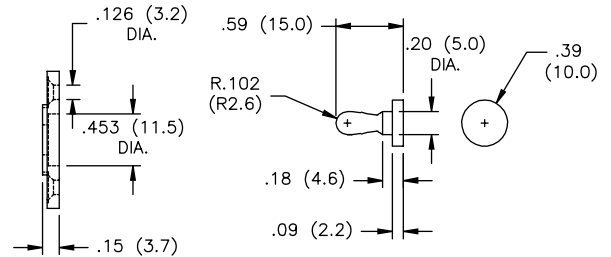
NOTE:
Screws not supplied with base
Approximate insertion force: 5.5-7.7 lbs. (2.5-3.5 kg.)
Approximate extraction force: 5.5-8.8 lbs. (2.5-4.0 kg.)



CS-113-1 CATCH



CS-113-3 BASE



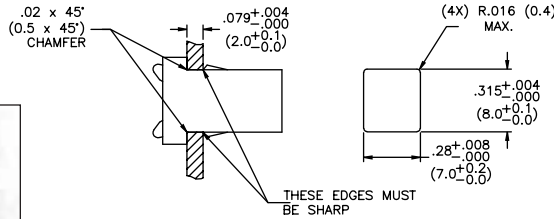
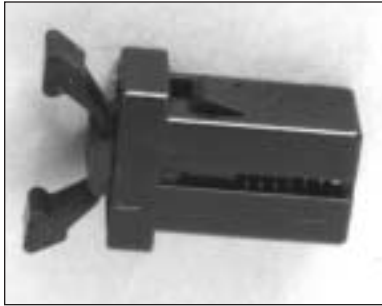
CS-113-2 STRIKER

Material: Super Tough Nylon 6/6, (RMS-73)
Color: Black
Standard Pack: 500 per bag

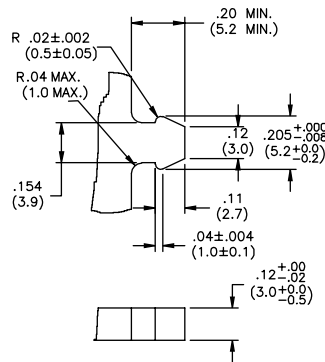
Material: Acetal (RMS-39)
Color: Black
Standard Pack: 500 per bag

Material: Super Tough Nylon 6/6, (RMS-73)
Color: Black
Standard Pack: 500 per bag

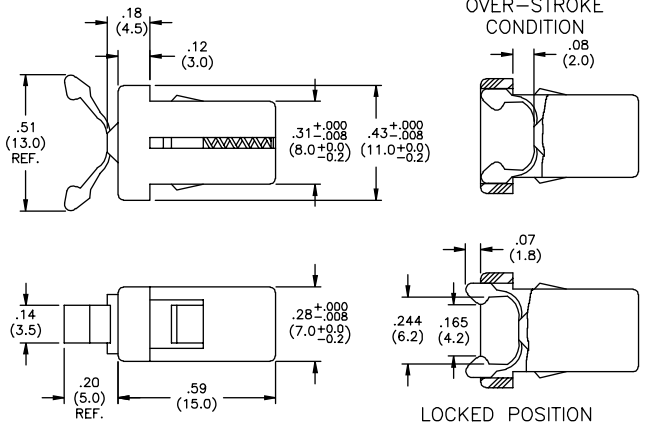
DL-1 Door Latch



Recommended Mounting Hole



RECOMMENDED STRIKER (NOT SUPPLIED)



Material: Acetal, RMS-121
Color: Black

Standard Pack: 500 per bag

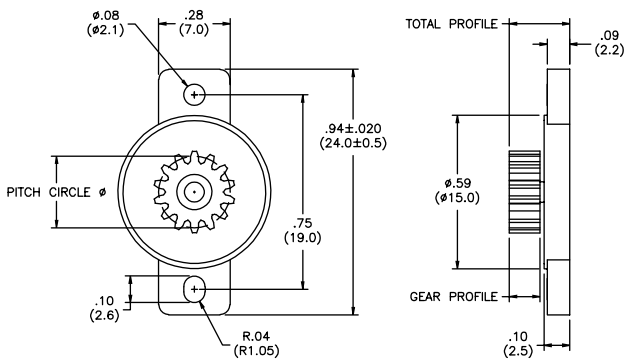
NOTE:

Locking Stroke \approx 5.4mm (.21)
Release Stroke \approx 1.3mm (.05)
Locking Stroke Force = 500 g. \pm 200 g.
(16 oz. \pm 6.3 oz.)
Retention Force (Locked) = 1 kg. min. (35.3 oz.)
Continuous Working Temperature: -10°C to 60°C
(14°F to 140°F)

NOTE:

Audible Lock and Release
Supplied in released position
All values for reference only
Storage Temperature = -40°C to 80°C
(-40°F to 176°F)
Life Cycle = 50,000 operations

RFRT-G2 Two Way Rotary Damper



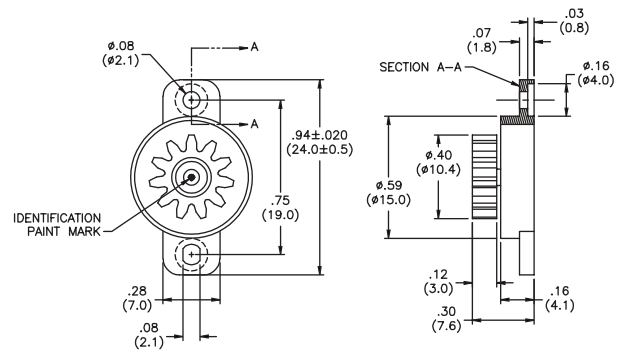
Material: Body and Cap - 94HB Polycarbonate (PC),
Rotating Shaft and Gear - 94HB Polyoxymethylene

Part No.	Standard Pack: 1000	
	Torque (gf.cm) @20 RPM & 23°C	
RFRT-G2-200-G*	20 \pm 7	
RFRT-G2-300-G*	30 \pm 8	
RFRT-G2-450-G*	45 \pm 10	
RFRT-G2-600-G*	60 \pm 12	
RFRT-G2-101-G*	100 \pm 20	

NEW

GEAR SPECIFICATION			
GEAR*	1	2	3
Type	Standard Spur	Standard Spur	Standard Spur
Tooth Profile	Involute Gear	Involute Gear	Involute Gear
Pressure Angle	20°	20°	20°
No. of Teeth	14	10	11
Grade	JIS 6	JIS 6	JIS 6
Pitch Circle Dia.	ϕ 28 ($\phi 7$)	ϕ .39 ($\phi 10$)	ϕ .35 ($\phi 8.8$)
Gear Profile	.15 (3.7)	.12 (3.0)	.14 (3.6)
Total Profile	.26 (6.6) Ref.	.23 (5.9) Ref.	.26 (6.5) Ref.

RFRT-PN Two Way Rotary Damper



Material: Body and Cap - 94HB Polycarbonate (PC),
Rotating Shaft and Gear - 94HB Polyoxymethylene

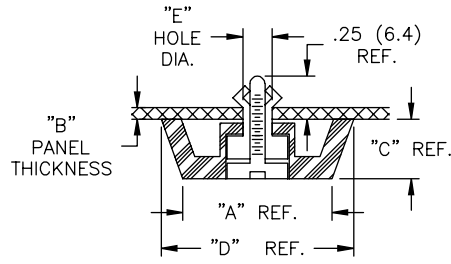
Part No.	Standard Pack: 1000	
	Torque (gf.cm) @20 RPM & 23°C	Identification Paint Mark
RFRT-PN3	25 \pm 5	White
RFRT-PN4	40 \pm 10	Yellow
RFRT-PN5	80 \pm 15	Green
RFRT-PN6	120 \pm 15	—

NEW

GEAR SPECIFICATIONS	
Type	Standard Spur
Tooth Profile	Involute Gear
Pressure Angle	20
Number of Teeth	11
Pitch Circle Diameter	ϕ .35 $\phi 8.8$
Grade	JIS 6

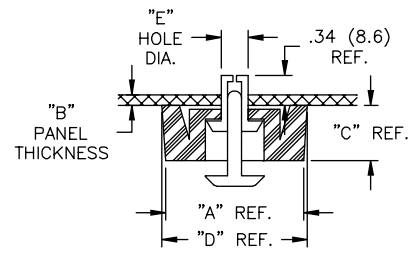
RIVETS, BUMPERS & FEET

FF Fast Feet



WITH DRIVE SCREW

Fig. 1



WITH PUSH RIVET

Fig. 2

Features

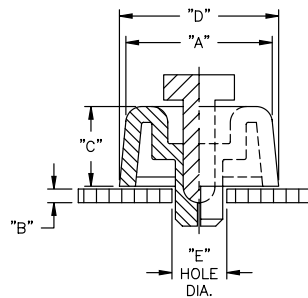
- Push rivet to install, release by pushing pin from other side
- Press screw to install, release with screwdriver

Material: Foot - Thermoplastic Rubber, RMS-42 • Screw - Acetal, RMS-14 • Rivet - Nylon 6, RMS-52 • Color: Black

Part No.	Standard Pack: 100 per bag					Fig. No.
	"E" Hole Diameter	"B" Thickness Range	"A" Ref.	"C" Ref.	"D" Ref.	
FF-001B	.197 - .201 (5.0 - 5.1)	.039 - .091 (1.0 - 2.3)	.79 (20.0)	.55 (14.0)	.95 (24.0)	1
FF-004B		.039 - .091 (1.0 - 2.3)	.71 (18.0)	.39 (10.0)	.79 (20.0)	
FF-003-P3X5.5B	.122 - .126 (3.1 - 3.2)	.031 - .071 (0.8 - 1.8)	.53 (13.5)	.22 (5.5)	.56 (14.2)	2
FF-005-P4X5B	.161 - .165 (4.1 - 4.2)	.031 - .071 (0.8 - 1.8)	.79 (20.0)	.17 (4.2)	.83 (21.0)	
FF-005-P4X6B		.071 - .111 (1.8 - 2.8)				
FF-005-P4X7B		.114 - .146 (2.9 - 3.7)				
FF-005-P4X8B		.150 - .189 (3.8 - 4.8)				
FF-006-P4X6B		.024 - .039 (0.6 - 1.0)				
FF-006-P4X7B		.039 - .079 (1.0 - 2.0)				
FF-006-P4X8B	.079 - .118 (2.0 - 3.1)	.55 (14.0)	.24 (6.0)	.59 (15.0)		
FF-006-P5X6.5B	.031 - .047 (0.8 - 1.2)					
FF-008-P4X6B	.161 - .165 (4.1 - 4.2)	.031 - .071 (0.8 - 1.8)	.79 (20.0)	.31 (8.0)	.83 (21.0)	
FF-008-P4X7B		.075 - .110 (1.9 - 2.8)				
FF-008-P4X8B		.114 - .157 (2.9 - 4.0)				
FF-009-P4X6B		0 - .031 (0 - 0.8)				
FF-009-P4X7B		.031 - .079 (0.8 - 2.0)				
FF-009-P4X8B		.083 - .118 (2.1 - 3.1)				
FF-010-P4X6B	.200 - .205 (5.1 - 5.2)	.024 - .039 (0.6 - 1.0)	.55 (14.0)	.35 (9.0)	.59 (15.0)	
FF-010-P4X7B		.039 - .079 (1.0 - 2.0)				
FF-010-P4X8B		.079 - .118 (2.0 - 3.1)				
FF-010-P5X6.5B		.032 - .047 (0.8 - 1.2)				
FF-010-P5X7.5B		.047 - .087 (1.2 - 2.2)				
FF-013-P3.5X4.5B		.142 - .146 (3.6 - 3.7)				.020 - .047 (0.5 - 1.2)
FF-013-P3.5X5.5B	.047 - .079 (1.2 - 2.0)					
FF-013-P3.5X6.0B	.059 - .087 (1.5 - 2.2)					
FF-013-P3.5X7.0B	.098 - .126 (2.5 - 3.2)					
FF-013-P3.5X8.0B		.138 - .165 (3.5 - 4.2)				

SFF Soft Fast Feet

Soft Fast Feet



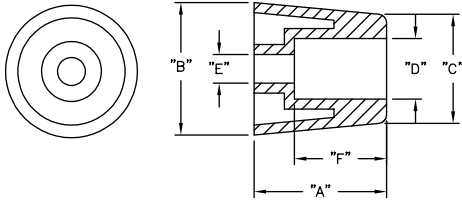
Features

- Slip and vibration resistant
- Two piece foot furnished pre-assembled

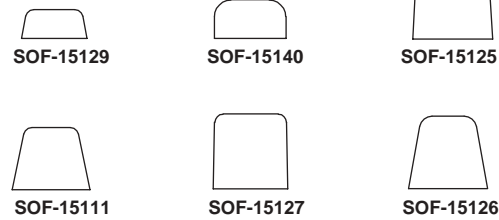
Material: Foot: Santoprene, RMS-42 - 80A Durometer • Pin: Polypropylene, RMS-126 • Color: Black

Part No.	Standard Pack: 100 per bag				
	"E" ± .002 (0.05) Hole Dia.	"B" Thickness Range	"A" Ref.	"C" Ref.	"D" Ref.
SFF-018	.305 (7.75)	.031 (0.8) - .059 (1.5)	.71 (18.0)	.39 (10.0)	.79 (20.0)
SFF-021		.197 (5.0) - .315 (8.0)	.79 (20.0)	.24 (6.0)	.83 (21.0)
SFF-023		.031 (0.8) - .059 (1.5)	.91 (23.0)	.20 (5.0)	.98 (25.0)
SFF-028		.031 (0.8) - .059 (1.5)	.71 (18.0)	.59 (15.0)	.79 (20.0)

SOF Screw On Feet



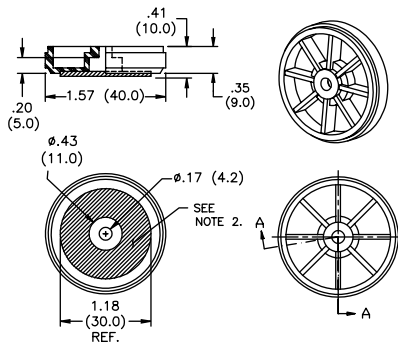
Profiles



Material: Thermoplastic rubber, 70A durometer, RMS-125
Color: Black

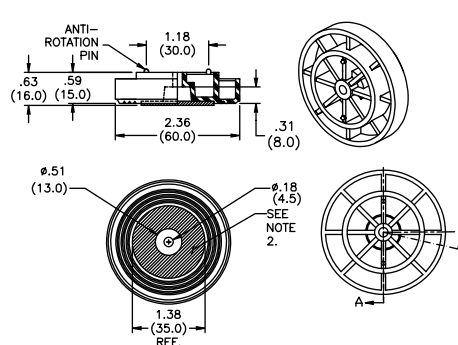
Part No.	Standard Pack: 100 per bag					
	"A"	"B" Dia.	"C" Dia. Ref.	"D" Dia.	"E" Dia.	"F"
SOF-15129	.28 (7.1)	.63 (16.0)	.53 (13.5)	.31 (7.9)	.13 (3.3)	.16 (4.1)
SOF-15140	.37 (9.4)	.69 (17.5)	.69 (17.5)	.31 (7.9)	.16 (4.1)	.20 (5.1)
SOF-15125	.46 (11.7)	.77 (19.6)	.72 (18.3)	.40 (10.2)	.19 (4.8)	.25 (6.4)
SOF-15111	.60 (15.2)	.75 (19.1)	.50 (12.7)	.31 (7.9)	.16 (4.1)	.19 (4.8)
SOF-15127	.72 (18.3)	.72 (18.3)	.69 (17.5)	.31 (7.9)	.19 (4.8)	.31 (7.9)
SOF-15126	1.00 (25.4)	.85 (21.6)	.50 (12.7)	.32 (8.1)	.16 (4.1)	.56 (14.2)

BF-1001 Big Feet



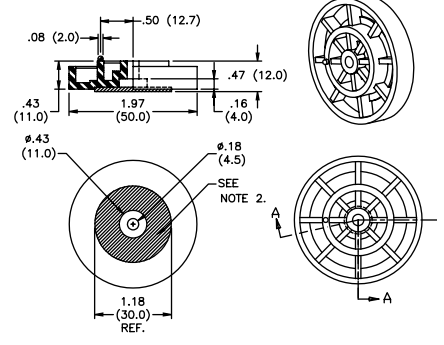
Foot Material: ABS, RMS-114
Cushion Material (Note 2): Nylon Fiber • Color: Black
Standard Pack: 100 per bag
Recommended Mounting Screw: #8 (M-4) pan head; not furnished
Load Capacity: 22 lbs. (10 kg)

BF-1002 Big Feet



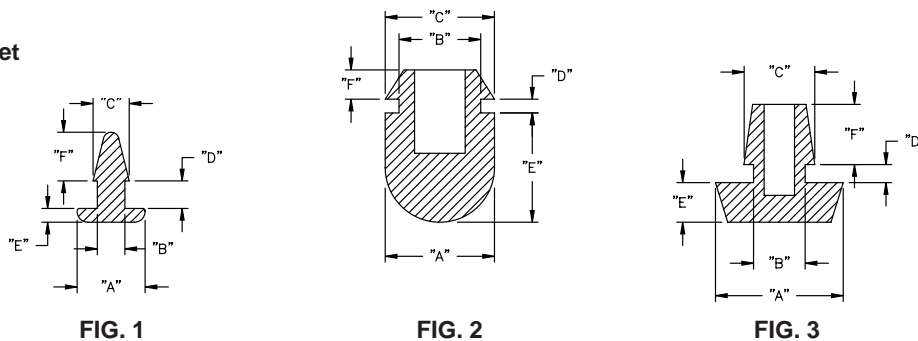
Foot Material: ABS, RMS-114
Cushion Material (Note 2): Nylon Fiber • Color: Black
Standard Pack: 100 per bag
Recommended Mounting Screw: #8 (M-4) pan head; not furnished
Load Capacity: 22 lbs. (10 kg)

BF-1005 Big Feet



Foot Material: ABS, RMS-114
Cushion Material (Note 2): Nylon Fiber • Color: Black
Standard Pack: 100 per bag
Recommended Mounting Screw: #8 (M-4) pan head; not furnished
Load Capacity: 22 lbs. (10 kg)

POF Push On Feet



Features

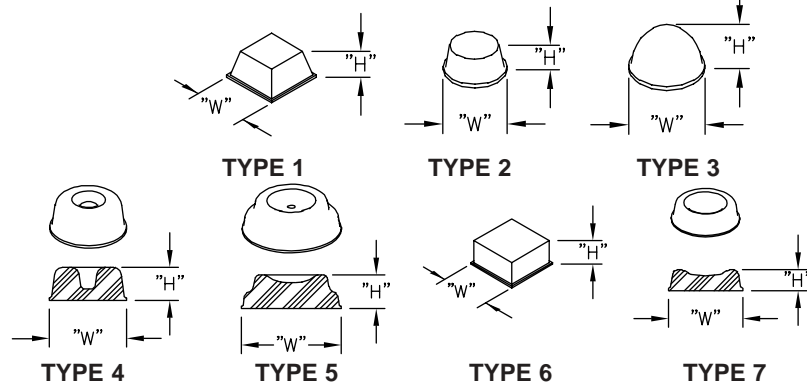
- Ideal for use on metal or plastic housings and cases
- Simply push into punched or drilled holes

Material: Flexible PVC, 55A durometer, RMS-25
Color: Black

Part No.	Standard Pack: 100 per bag						Fig #
	"A" Dia.	"B" Dia.	"C" Dia.	"D"	"E"	"F"	
POF-40022	.31 (7.9)	.126 (3.2)	.17 (4.3)	.13 (3.3)	.06 (1.5)	.16 (4.1)	1
POF-40048	.31 (7.9)	.146 (3.7)	.23 (5.8)	.06 (1.5)	.09 (2.3)	.14 (3.6)	1
POF-40059	.50 (12.7)	.374 (9.5)	.48 (12.2)	.06 (1.5)	.50 (12.7)	.14 (3.6)	2
POF-50185	.54 (13.7)	.247 (6.3)	.30 (7.6)	.08 (2.0)	.18 (4.6)	.35 (8.9)	3
POF-12664	.62 (15.7)	.277 (7.0)	.34 (8.6)	.05 (1.3)	.20 (5.1)	.16 (4.1)	3

RIVETS, BUMPERS & FEET

RBS Richco Bumpers



Features

- Ideal for appliances and electronic equipment when scratching, sliding or bumping could harm equipment
- Superb coefficient of friction and resistance to skidding
- Non-staining and non-marring
- Crack resistant
- Vibration and shock dampening
- Superior abrasion resistance
- Easy "pull off" application

To obtain maximum adhesion, surfaces must be clean and dry. Clean surfaces with low strength solvents such as Isopropyl Alcohol (rubbing alcohol) or Heptain. Follow solvent manufacturer's precautionary warnings and suggested handling procedures when using solvents. The formulation of composition contains no migratory plasticizers of any kind which would mar surfaces of contact. User should evaluate products suitability for specific application under actual use conditions. Shelf life is one year after receipt of order when stored at 75°F (24°C) and 50% relative humidity.

Material: Polyurethane, RMS-64, 60-70 Durometer, Shore A • Adhesive: Clear Parts - Acrylic, RMS-65; Pigmented - Rubber, RMS-68
Color: Clear and Black. To order black add -BK to part number.

Part No.	Dia. "W" ± .020	Height "H" ± .020	6 x 12 Matrix Kiss Cut Pad PCS/PAD	Qty. Ctn.	Type
RBS-3R	.50 (12.7)	.23 (5.8)	200	5000	1 Pyramid
RBS-19	.81 (20.5)	.30 (7.6)	98	2646	
RBS-20	.40 (10.2)	.10 (2.5)	242	5082	
RBS-29	.78 (19.8)	.25 (6.4)	98	2940	
RBS-32R	.50 (12.7)	.12 (3.1)	200	5000	
RBS-1	.50 (12.7)	.14 (3.5)	200	5000	2 Cylindrical
RBS-5		.06 (1.6)			
RBS-6		.25 (6.3)			
RBS-11		.40 (10.1)			
RBS-24	.81 (20.5)	.12 (3.1)	72	2520	
RBS-34	.37 (9.5)	.19 (4.8)	300	6000	
RBS-35			200	5000	
RBS-41			.78 (20.0)	.20 (5.1)	
RBS-44	.75 (19.1)	.16 (4.1)	98	2450	
RBS-2	.44 (11.1)	.20 (5.1)	242	5082	
RBS-7	.34 (8.6)	.08 (2.2)	450	5400	
RBS-8	.70 (17.6)	.38 (9.6)	98	2254	
RBS-12	.38 (9.6)	.15 (3.8)	200	5000	
RBS-15	.62 (16.0)	.31 (7.9)	128	3200	
RBS-22	.38 (9.6)	.21 (5.4)	300	6000	
RBS-27	.31 (7.9)	.08 (2.2)	450	5400	
RBS-37	.72 (18.3)	.56 (14.2)	64 Separate Parts	3584	
RBS-39	.75 (19.1)	.07 (1.9)	84	5040	
RBS-40	.25 (6.4)	.06 (1.6)	578	15028	
RBS-30	1.8 (45.7)	.60 (15.8)	100 Separate Parts	500	4 Round
RBS-17	.88 (22.3)	.40 (10.1)	72	1440	5 Round
RBS-4	.75 (19.1)	.34 (8.6)	100 Separate Parts	5600	6 Square
RBS-36	1.0 (25.4)	.18 (4.7)	55	2310	
RBS-18	.50 (12.7)	.14 (3.5)	200	5000	

Other colors (Brown, White or Gray) available upon request.

ASPR/ASPS Anti Slip Pads

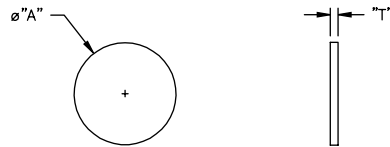


Fig. 1 (Round)

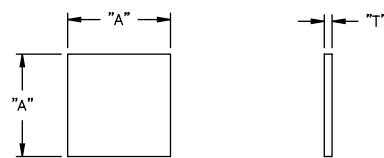


Fig. 2 (Square)

Material: Polyolefin Foam, Closed Cell, RMS-128; Adhesive, RMS-129
Color: Gray, RMS-129

Part No.	"A"	"T"	Fig. No.	Standard Pack
ASPR-8-062	.50 (12.7)	.062 ± .009 (1.6 ± 0.2)	1	1000 Per Roll
ASPR-12-062	.75 (19.1)			
ASPR-16-062	1.00 (25.4)			
ASPR-8-125	.50 (12.7)	.125 ± .012 (3.2 ± 0.3)		
ASPR-12-125	.75 (19.1)			
ASPR-16-125	1.00 (25.4)			
ASPS-8-062	.50 (12.7)	.062 ± .009 (1.6 ± 0.2)	2	40/Pad
ASPS-12-062	.75 (19.1)			20/Pad
ASPS-16-062	1.00 (25.4)			8/Pad
ASPS-8-125	.50 (12.7)			40/Pad
ASPS-12-125	.75 (19.1)			20/Pad
ASPS-16-125	1.00 (25.4)			8/Pad

Custom shapes available by special order.

Introduction

General Features

Richco provides the full spectrum of choice from heavy duty and military specification products to commercial specification available in a variety of materials and colors. A full supporting cast of accessories, bases, hanking ties, marker ties, etc., are included providing for a diversity of applications. Richco ties your problem down — not your designers! Options include push-in Arrow Head mount, Screw Mounts, Hook and Loop, Releasable, Marker and Heavy Duty.

Applications

Typical Applications Include:

- Automotive
- Wire Harness
- Office Automation
- Security (Handcuffs)
- Consumer Electronics
- White Goods

Materials

Richco cable ties are offered in a very wide range of materials for an even wider range of applications. Popular cable ties are available in most materials as standards. Other sizes are available by special order. Please consult the factory for availability.

- Nylon 6/6 — General purpose application
- UVB Stabilized — For outdoor application
- UL-V0 — For electronic application
- Mil-Spec — For Military and Military Specified application
- Low Temperature — For extreme cold temperatures down to -40°F (-40°C)
- Heat Stabilized — For extreme hot temperatures up to 221°F (105°C)
- Colored Ties — Standard colors include black, green, blue, yellow, red, neon-green, neon-yellow, neon-pink, and neon-orange
- Hook and Loop Cable Ties

Special Packaging

Most Richco cable ties come "standard packed" either 100 or 1,000 pieces per bag. Special pack quantities and bag labeling is available by special order. Minimum order requirements may apply. Please consult the factory to discuss application.



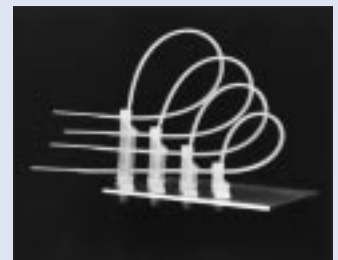
Wrap-It-Tie



Flat Tie Holder



Release Tab Wrap-It-Tie



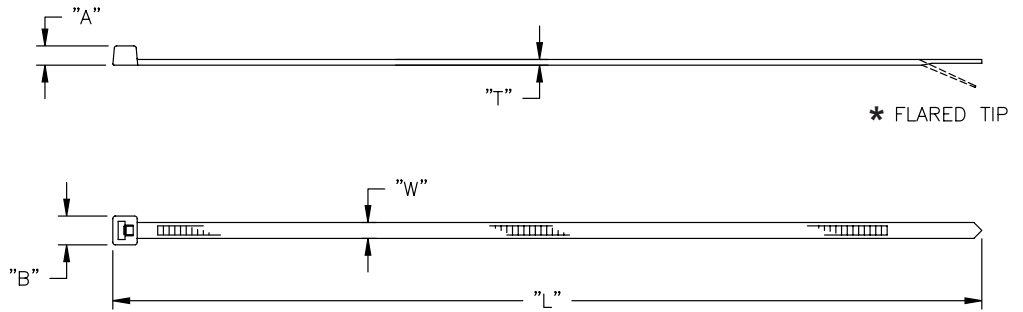
Self Mount Wrap-It-Tie



Richco Kwik Wrap

CABLE TIES AND ACCESSORIES

WIT Wrap-It Tie



Features

- Serviceable to 185°F (85°C)
- UL recognized #E71558
- HS Series serviceable to 221°F (105°C) Material UL #E41988 UL 94-V2
- ST Series for extreme temperatures down to -40°F (-40°C); Material UL #41938
- UVB Series for outdoor applications

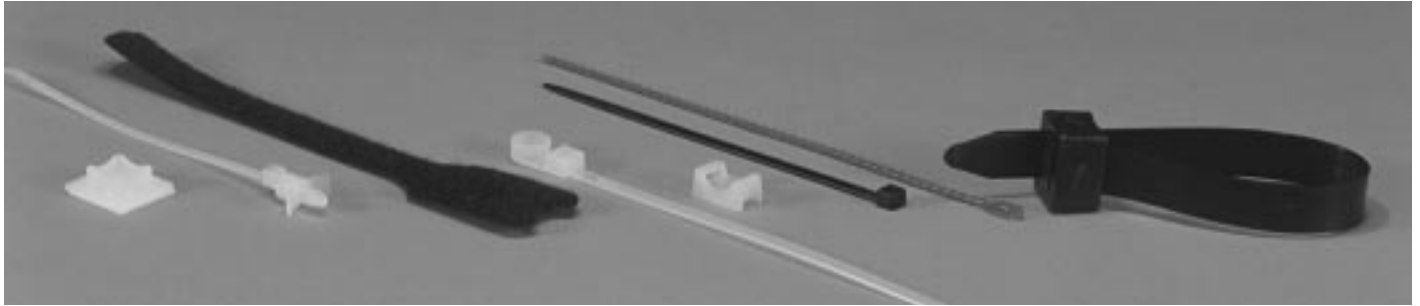
WIT SERIES

Part No.	Min. Loop Tensile (lbs.)	Length "L" Approx.	Max. Bundle Dia.	Width "W" Ref.	Thickness "T" Ref.	"A"	"B"	Package Quantities					Mat'l Variations		
								Std. Pack		Carton Pack			UVB Stabilized	UL-V0	
RMS #: -01								-D	-L	-C	-M	-CTN	-46	-75A	
Mtrl: Nylon 6/6													Nylon 6/6	Nylon 6/6	
Color: Natural													Black	White	
Suffix													-UVB	-V0	
WIT-18 Series:															
WIT-18SF*	18	3.25 (82.6)	.63 (15.9)	.10 (2.5)	.04 (1.0)	.15 (3.8)	.19 (4.8)	N/A	N/A	100	1,000	N/A	Standard	Special	
WIT-18R*		4.52 (114.8)	.75 (19.1)									50,000		Standard	
WIT-18L*		5.75 (146.1)	1.38 (35.1)									N/A		Special	
WIT-18V*		8.00 (203.2)	2.13 (54.1)									N/A			
WIT-18X*	15.50 (393.7)	4.50 (114.3)													
WIT-30 Series:															
WIT-30S	30	4.50 (114.3)	.75 (19.1)	.14 (3.6)	.05 (1.3)	.17 (4.3)	.25 (6.4)	N/A	N/A	100	1,000	N/A	Standard	Special	
WIT-30R		5.75 (146.1)	1.25 (31.8)									25,000		Standard	
WIT-30L		7.56 (192.0)	1.88 (47.8)									N/A		Special	
WIT-30XL		8.06 (204.7)	2.00 (50.8)									N/A			
WIT-30VL*	11.16 (283.4)	3.19 (81.0)													
WIT-40 Series:															
WIT-40S	40	4.50 (114.3)	.75 (19.1)	.14 (3.6)	.05 (1.3)	.17 (4.3)	.25 (6.4)	N/A	N/A	100	1,000	N/A	Standard	Special	
WIT-40R		5.75 (146.1)	1.25 (31.8)									N/A			
WIT-40L		7.56 (192.0)	1.88 (47.8)									N/A			
WIT-40XL		8.06 (204.7)	2.00 (50.8)									N/A			
WIT-40VL*	11.16 (283.4)	3.19 (81.0)	.15 (3.8)												
WIT-50 Series:															
WIT-50S	50	6.00 (152.4)	1.50 (38.1)	.19 (4.8)	.05 (1.3)	.21 (5.3)	.31 (7.9)	N/A	N/A	100	1,000	N/A	Standard	Special	
WIT-50R		8.00 (203.2)	2.00 (50.8)									10,000		Standard	
WIT-60R	60	10.75 (273.1)	2.75 (69.9)	.18 (4.6)		.20 (5.1)	.32 (8.1)					5,000		Standard	
WIT-50L	50	15.40 (391.2)	4.50 (114.3)	.19 (4.8)		.21 (5.3)	.31 (7.9)					10,000		Special	
WIT-70 Series:															
WIT-70S	70	24.00 (609.6)	7.31 (185.7)	.19 (4.8)	.08 (2.0)	.20 (5.1)	.36 (9.1)	N/A	N/A	100	N/A	N/A	Standard	Special	
WIT-70R		30.00 (762.0)	9.12 (231.6)												
WIT-70L		36.00 (914.4)	11.00 (279.4)												
WIT-120 Series:															
WIT-120S	120	8.50 (215.9)	2.00 (50.8)	.30 (7.6)	.07 (1.8)	.29 (7.4)	.051 (13.0)	500	N/A	100	N/A	N/A	Standard	Special	
WIT-120R		15.06 (382.5)	4.12 (104.6)											2,500	
WIT-120L		21.25 (539.8)	5.87 (149.1)											1,500	
WIT-175 Series:															
WIT-175S	175	15.00 (381.0)	4.18 (106.2)	.35 (8.9)	.08 (2.0)	.32 (8.1)	.55 (14.0)	N/A	50	100	N/A	N/A	N/A	Special	
WIT-175R		23.00 (584.0)	6.75 (171.5)											Standard	
WIT-175L		33.00 (838.2)	9.75 (247.7)												
WIT-225 Series:															
RMS# :01													-49		
WIT-225R	225	19.63 (498.5)	5.12 (130.2)	.49 (12.4)	.08 (2.0)	.39 (9.9)	.76 (19.3)	N/A	50	N/A	N/A	N/A	Standard	Special	
WIT-225L		33.50 (850.9)	9.84 (250.0)												

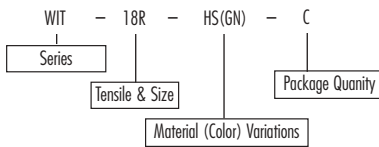
*Flared tip

CABLE TIES AND ACCESSORIES

WIT Wrap-It Tie



PART NUMBER ORDER CODE

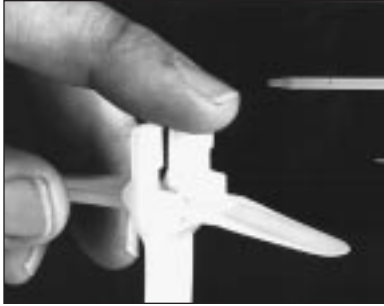


Mat'l Variations		Mil-Spec		Color Variations							
Low Temperature	Heat Stabilized	Mil-Spec	Mil-Spec - Black	Green	Blue	Yellow	Red	Neon-Green	Neon-Yellow	Neon-Pink	Neon-Orange
-73	-47	-01	-01	-01	-01	-01	-01	-01	-01	-01	-01
Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6
Black	Black	Natural	Black	Green	Blue	Yellow	Red	Green	Yellow	Pink	Orange
-ST	-HS	-MIL	-UVB-MIL	-GN	-BL	-YL	-RD	-NGN	-NYL	-NPK	-NOR
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Standard	Standard	MS3367-4-9	MS3367-4-0	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Standard	Standard	MS3367-5-9	MS3367-5-0	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Standard	Standard	MS3367-1-9	MS3367-1-0	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
		MS3367-7-9	MS3367-7-0	Special	Special	Special	Special	Special	Special	Special	Special
		MS3367-2-9	MS3367-2-0								
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Standard	Standard	MS3367-3-9	MS3367-3-0	Special	Special	Special	Special	Special	Special	Special	Special
Special	Special	N/A	N/A								
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special
Special	Special	N/A	N/A	Special	Special	Special	Special	Special	Special	Special	Special

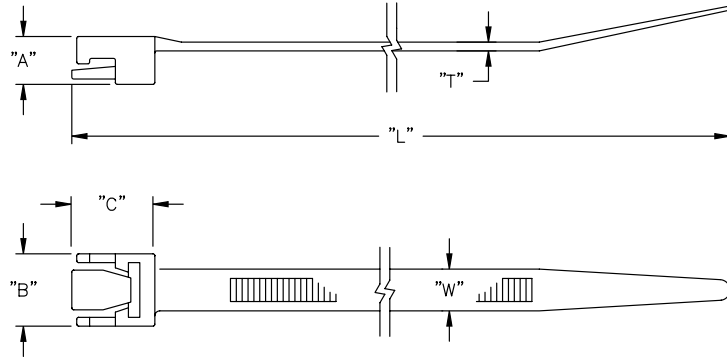
CABLE TIES AND ACCESSORIES

WIT-RT

Release Tab Wrap-It-Tie



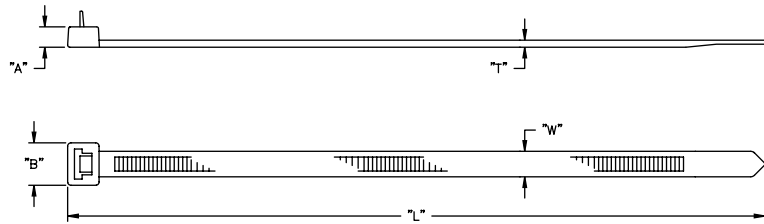
Patent #4236280



Part No.	Min. Loop Tensile (lbs.)	Approx. Length "L"	Max Bundle Dia	Width "W" Ref.	Thickness "T"	"A"	"B"	"C"	Standard Pack			UVB Stabilized -46	Color - Green -01	Color - Blue -01	Color - Yellow -01	Color - Red -01
RMS #: -01																
Mtrl: Nylon 6/6												Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6
Color: Natural												Black	Green	Blue	Yellow	Red
Suffix									-Q	-C	-M	-UVB	-GN	-BL	-YL	-RD
WIT-RT-0550	40	5.50 (139.7)	1.25 (31.8)	.21 (5.3)	.05 (1.3)	.24 (6.1)	.36 (9.1)	.45 (11.4)	N/A	100	1,000	Standard	Special	Special	Special	Special
WIT-RT-0800		8.00 (203.2)	2.00 (50.8)													
WIT-RT-1050		10.50 (266.7)	2.50 (63.5)													
WIT-RT-1550		15.50 (393.7)	4.25 (108.0)					.40 (10.2)								
WIT-RT-1525	250	15.25 (387.4)	4.00 (101.6)	.52 (13.2)	.09 (2.3)	.38 (9.7)	.80 (20.3)	.86 (21.8)	25	N/A	N/A	Special	Special	Special	Special	Special
WIT-RT-2150		21.50 (546.1)	6.00 (152.4)													
WIT-RT-2775		27.75 (704.9)	8.00 (203.2)													

WIT-R

Releasable Tie

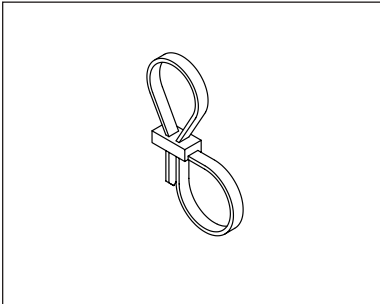


Part No.	Min. Loop Tensile (lbs.)	Approx. Length "L"	Max Bundle Dia	Width "W" Ref.	Thickness "T"	"A"	"B"	Standard Pack			UVB Stabilized -46	Color - Green -01	Color - Blue -01	Color - Yellow -01	Color - Red -01		
RMS #: -01																	
Mtrl: Nylon 6/6												Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	Nylon 6/6	
Color: Natural												Black	Green	Blue	Yellow	Red	
Suffix									-C	-D	-M	-UVB	-GN	-BL	-YL	-RD	
WIT-50SR	50	6.00 (152.4)	1.50 (38.1)	.19 (4.8)	.05 (1.3)	.21 (5.3)	.31 (7.9)	100	N/A	1,000	Standard	Special	Special	Special	Special		
WIT-50RR		8.00 (203.2)	2.00 (50.8)														
WIT-120SR	120	8.50 (215.9)	2.00 (50.8)	.30 (7.6)	.07 (1.8)	.29 (7.4)	.51 (13.0)									500	N/A
WIT-120RR		15.00 (381.0)	4.25 (108.0)														
WIT-120LR		21.25 (539.8)	5.87 (149.1)														

CABLE TIES AND ACCESSORIES

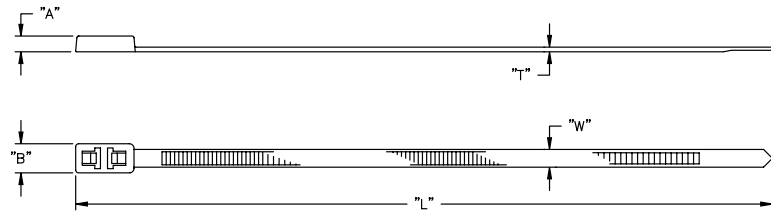
WIT-DH

Double Headed Tie



Features

- Double headed ties facilitate parallel routing



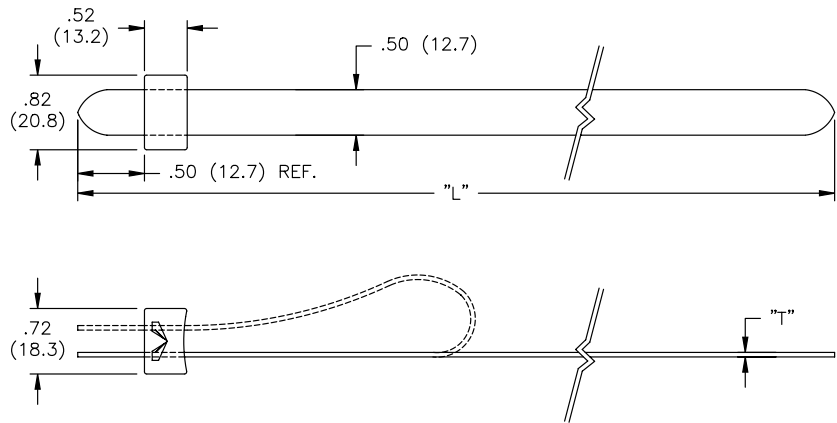
Material: Nylon 6/6, RMS-01 • Color: Natural, other colors available by special order

Part No.	Min. Loop Tensile (lbs.)	Approx. Length "L"	Width "W" Ref.	Thickness "T" Ref.	"A"	"B"	Standard Pack		UVB Stabilized Nylon 6/6, RMS-46 • Color - Black
							-C	-M	
WIT-50RLDH	50	8.88 (225.4)	.19 (4.8)	.05 (1.3)	.21 (5.3)	.31 (7.9)	100	1,000	-UVB
WIT-50LDH		15.63 (396.9)							Special
WIT-50LDHR*									

* = Second Loop is Releasable

HDSB

Heavy Duty Strap and Buckle (Infinity Tie)



Features

- Buckle is preassembled with one end of strap
- Installation tool available. Use part number WITHD-6
- Nylon - high strength and inexpensive
- Acetal - Excellent weatherability, superior dimension stability and low temperature toughness



**WITHD-6
Installation Tool**

Material: See Chart • Color: Black

Part No.	Min. Loop Tensile (lbs.)	"L"	"T"	Material	Standard Pack:
HDSB1-350-R	350	15.00 (381.0)	.036 (0.9)	Nylon 6/6, UL94V-2 RMS-49	50 per bag
HDSB1-350-L		33.00 (838.2)			
HDSB1-350-XL		50.00 (1270.0)			
HDSB2-350-R		15.00 (381.0)	.050 (1.3)	Acetal High Impact UV Stab. UL94HB RMS-127	50 per bag
HDSB2-350-L		33.00 (838.2)			
HDSB2-350-XL		50.00 (1270.0)			

Part available in custom lengths and reels by special order.

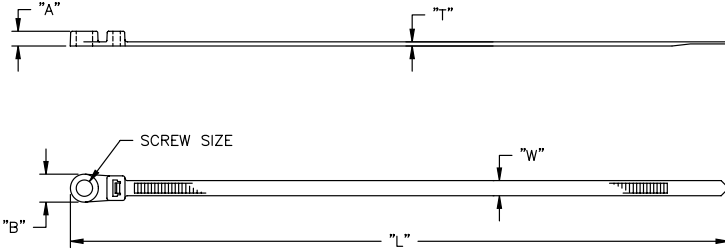
CABLE TIES AND ACCESSORIES

WITS/WITSH

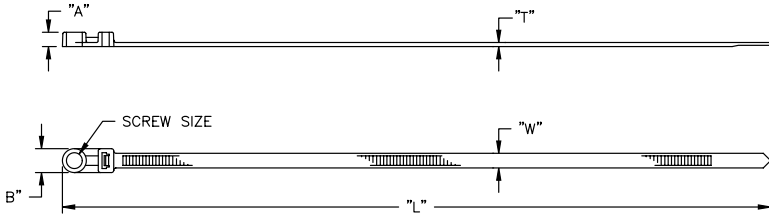
Wrap-It-Tie/Screw Mount

Features

- Hinged Style allows flexing between screw mount and wire tie head
- Screw mount ties eliminate the need for a mounting device



WITSH
(Hinged Style)



WITS

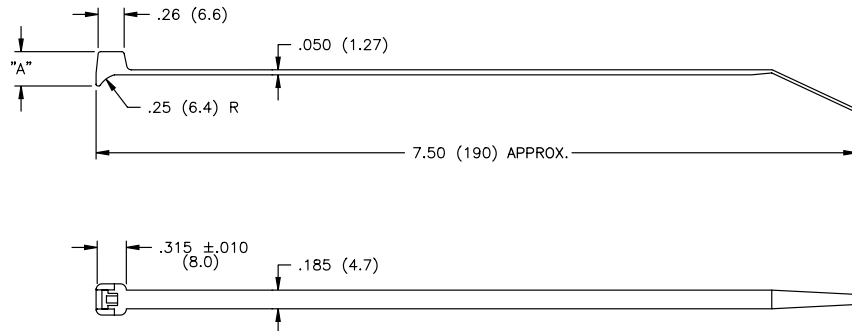
Part No.	Min. Loop Tensile (lbs.)	"L" Length Approx.	Max. Bundle Dia.	"W" Width Ref.	"T" Thickness Ref.	"A"	"B"	Screw Size	Standard Package			UVB Stabilized
Material: Nylon 6/6												Nylon 6/6
RMS-01												RMS-46
Color: Natural												Black
Suffix									-C	-D	-M	-UVB
WITS-4-18MR	18	5 (127.0)	3/4 (19.1)	.10 (2.5)	.04 (1.0)	.12 (3.0)	.23 (5.8)	#4	100	—	1000	Standard
WITS-8-50MS	50	6 - 3/4 (171.5)	1 - 1/2 (38.1)	.19 (4.8)	.05 (1.3)	.20 (5.1)	.37 (9.4)	#8				
WITS-8-50MRL		8 - 11/16 (220.7)	2 (50.8)									
WITS-8-50MR		11 - 5/8 (295.3)	3 (76.2)									
WITS-8-50ML		16 (406.4)	4 (101.6)									
WITS-10-50MS		6 - 3/4 (171.5)	1 - 1/2 (38.1)									
WITS-10-50MRL		8 - 11/16 (220.7)	2 (50.8)									
WITS-10-50MR	11 - 5/8 (295.3)	3 (76.2)										
WITS-10-50ML	16 (406.4)	4 (101.6)										
WITS-14-120MR	120	15 - 5/8 (396.9)	4 (101.6)	.30 (7.6)	.07 (1.8)	.29 (7.4)	.50 (12.7)	1/4		500	—	Special
WITS-14-120ML	21 - 7/8 (555.6)	6 (152.4)										
WITSH-8-50MS	50	6 - 3/4 (171.5)	1 - 1/2 (38.1)	.19 (4.8)	.05 (1.3)	.20 (5.1)	.39 (9.9)	#8				
WITSH-8-50MRL		8 - 11/16 (220.7)	2 (50.8)									
WITSH-8-50MR		11 - 1/4 (285.8)	3 (76.2)									
WITSH-10-50MS		6 - 3/4 (171.5)	1 - 1/2 (38.1)									
WITSH-10-50MRL		8 - 11/16 (220.7)	2 (50.8)									
WITSH-10-50MR		11 - 1/4 (285.8)	3 (76.2)									

WITCH-50R

Contour Head Wrap-It-Tie

Features

- Contour head allows 360° contact around bundle, tube or hose

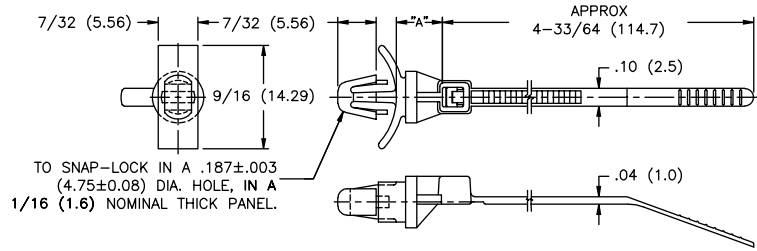
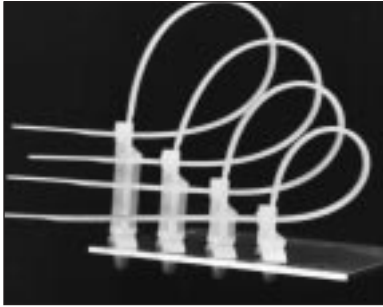


Material: Nylon 6/6, RMS-01 • Color: Natural												
Part No.	Maximum Bundle Dia.	Minimum Bundle Dia.	Minimum Loop Tensile (lbs)	"A"	Standard Pack		UVB Stabilized Nylon 6/6, RMS 46 Color: Black					
Suffix					-C	-M	-UVB					
WITCH-50R	1.875 (47.6)	.25 (6.4)	50	.340 (8.6)	100 per bag	1000 per bag	Standard					

CABLE TIES AND ACCESSORIES

WIT-18RA/R1A/R2A

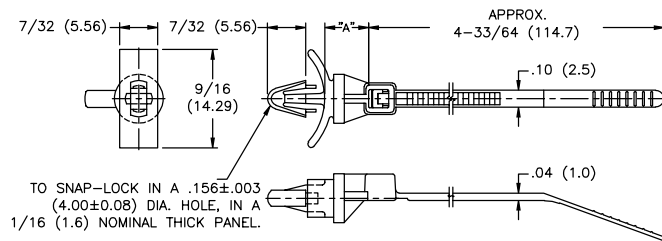
Self Mount Wrap-It-Tie



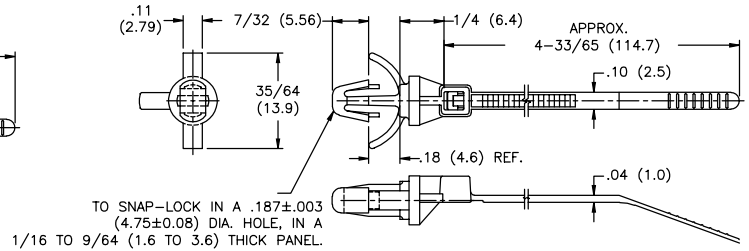
WIT-18RA

Features

- Spaces bundle or harness above board
- Replaces two piece part application



WIT-18R1A



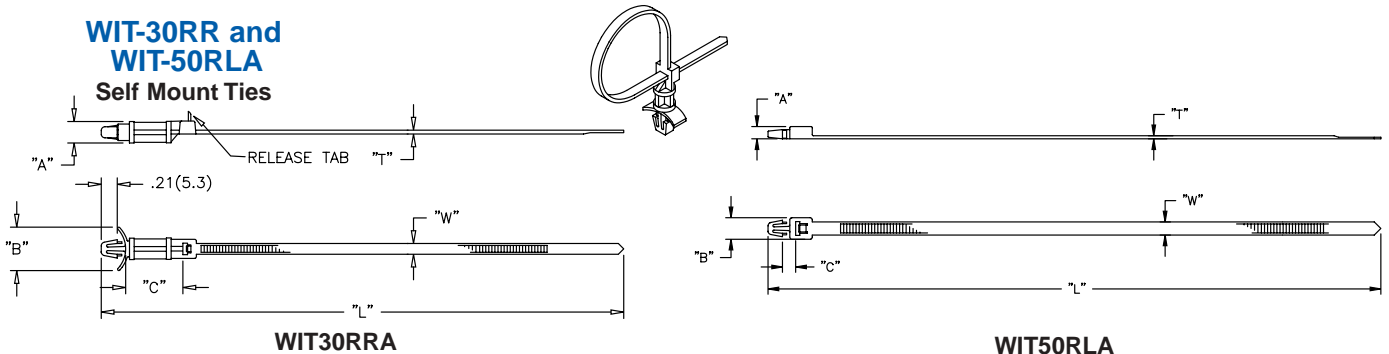
WIT-18R2A

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000 per bag								
	Min. Loop Tensile (lbs.)	Approx. Length "L"	Max Bundle Dia.	Width "W" Ref.	Thickness "T"	"A"	Hole Dia.	Panel Thickness Range	UVB Stabilized, RMS-46 • Color: Black
Suffix									-UVB
WIT-18RA-4-01	18	4.516 (114.7)	.750 (19.1)	.10 (2.5)	.04 (1.0)	.250 (6.4)	$.187 \pm .003$ (6.75 ± 0.08)	.031 (.79) - .078 (2.0)	Special
WIT-18RA-6-01						.375 (9.5)			
WIT-18RA-8-01						.500 (12.7)			
WIT-18R1A-4-01						.250 (6.4)			
WIT-18R1A-6-01						.375 (9.5)	$.156 \pm .003$ (4.0 ± 0.08)		
WIT-18R1A-8-01						.500 (12.7)			
WIT-18R2A-4-01						.250 (6.4)	$.178 \pm .003$ (4.75 ± 0.08)		
WIT-18R2A-6-01						.375 (9.5)			
WIT-18R2A-8-01	.500 (12.7)	.062 (1.6) - .141 (3.6)							

WIT-30RR and WIT-50RLA

Self Mount Ties



WIT30RRA

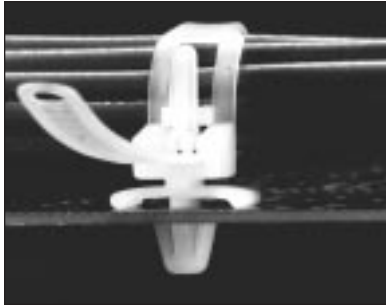
WIT50RLA

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000 per bag										
	Min. Loop Tensile (lbs.)	Approx. Length "L"	Max Bundle Dia.	Width "W" Ref.	Thickness "T"	"A"	"B" Ref.	"C" Ref.	Hole Dia.	Panel Thickness Range	UVB Stabilized, RMS-46 Color: Black
Suffix											
WIT-30RRA-4	30	6.312 (160.3)	1.250 (31.8)	.14 (3.6)	.05 (1.3)	.28 (7.1)	.562 (14.3)	.281 (7.1)	.187 (4.8)	.031(0.8) - .078(2.0)	Special
WIT-30RRA-8		6.562 (166.7)						.531 (13.5)			
WIT-30RRA-12		6.812 (173.0)						.781 (19.8)			
WIT-30RRA-16		7.062 (179.4)						1.00 (25.4)			
WIT-50RLA	50	8.875 (225.4)	2.000 (50.8)	.19 (4.8)		.20 (5.1)	.320 (5.1)	.187 (4.8)			

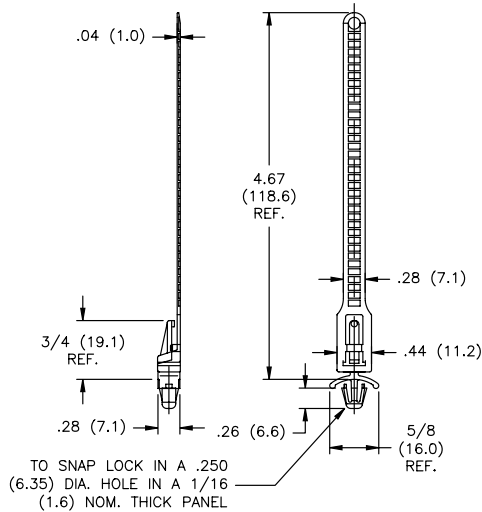
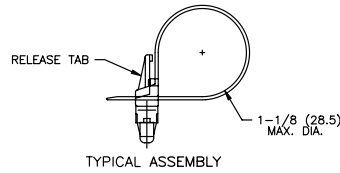
CABLE TIES AND ACCESSORIES

TOAH-18-01 Tie On Arrowhead



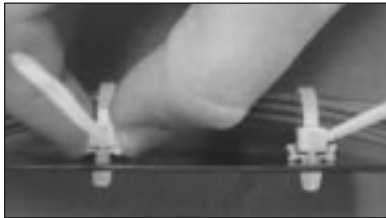
Features

- Release mechanism allows for easy removal or additions to bundles



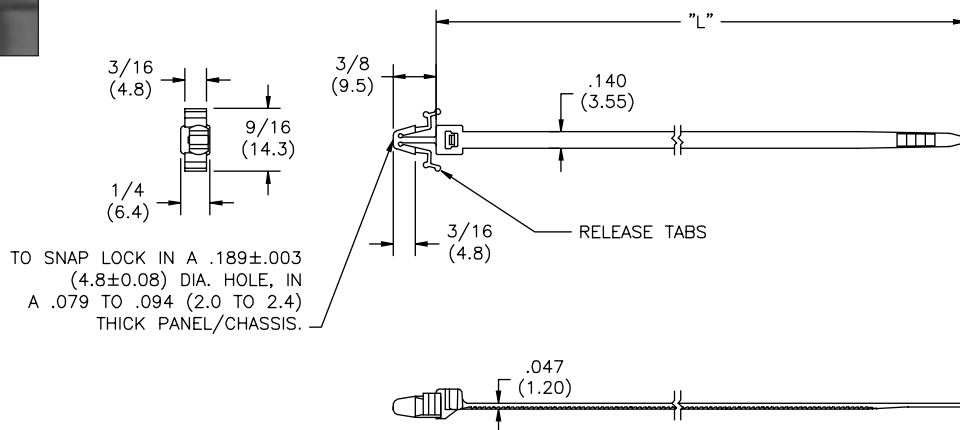
Material: Nylon 6/6, RMS-01 • Color: Natural, Black available by Special Order
Standard Pack: 1000 per bag
Min. Loop Tensile (lbs.) 40

WIT-30XAR Releasable Arrowhead Tie



Features

- Allows user to remove tie from board

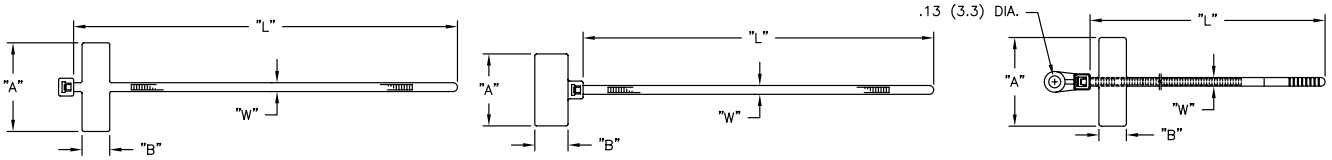


Material: Nylon 6/6 (RMS-01) • Color: Natural		Standard Pack: 1000 pieces	
Part No.	"L" Length Approx.	Max. Bundle Dia.	Min. Loop Tensile (lbs.)
WIT-30RAR1-2	4.75 (120.7)	1.00 (25.4)	30
WIT-30LAR1-2	5.75 (146.0)	1.50 (38.1)	

CABLE TIES AND ACCESSORIES

WIT-F1/F2

Wrap-It-Tie/Marker Flag Tie



WIT-F1-18R

WIT-F2-18R

WITS-F1-18MR

Features

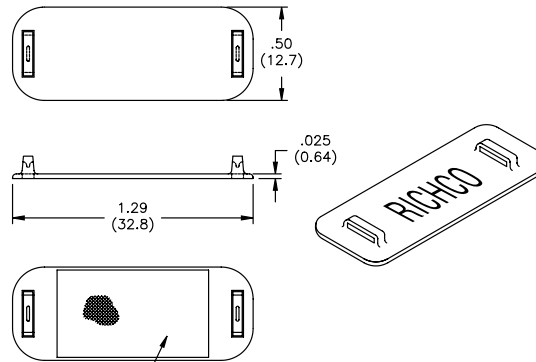
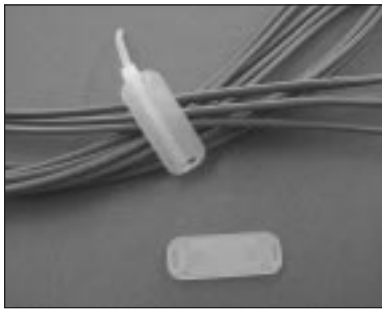
- Identifies wires, bundles, leads or terminals
- Ties have matted surface to accept ink, pencil or marker

Material: Nylon 6/6, RMS-01 • Color: Natural, other colors available by special order

Part No.	Min. Loop Tensile (lbs.)	Approx. Length "L"	Max Bundle Dia	Width "W" Ref.	Thickness "T"	"A"	"B"	Standard Pack	
								-C	-M
WIT-F1-18R	18	4.50 (114.3)	.75 (19.1)	.10 (2.5)	.03 (0.8)	1.00 (25.4)	.313 (7.9)	100	1,000
WIT-F2-18R						.81 (20.6)	.375 (9.5)		
WITS-F1-18MR			.04 (1.0)	.313 (7.9)					

WIT-MK-1

Wrap-It-Tie Marker Tag



Features

- Accepts -30, -40, -50 and -60 series wrap it ties

MATTED SURFACE TO ACCEPT INK OR PENCIL

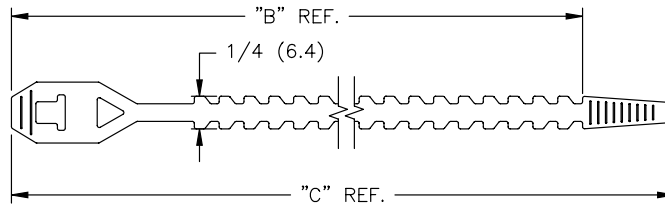
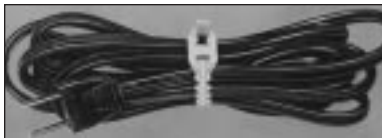
Material: Nylon 6/6, RMS-01

Color: Natural

Standard Pack: 1000 per Bag

HT

Hanking Tie



Features

- Wraps electrical cords for shipping and packaging
- Excellent for temporary or releasable applications

Material: Polyethylene, RMS-134 • Color: Natural

Part No.	Standard Pack: 1000 per bag		
	Maximum Bundle Dia.	"B" Ref.	"C" Ref.
HT-3.9	.9 (23.0)	3.2 (81.0)	3.9 (99.0)
HT-4.9	1.1 (28.0)	4.2 (107.0)	4.9 (125.0)
HT-5.9	1.4 (36.0)	5.2 (132.0)	5.9 (150.0)

CABLE TIES AND ACCESSORIES

BT Beaded Tie

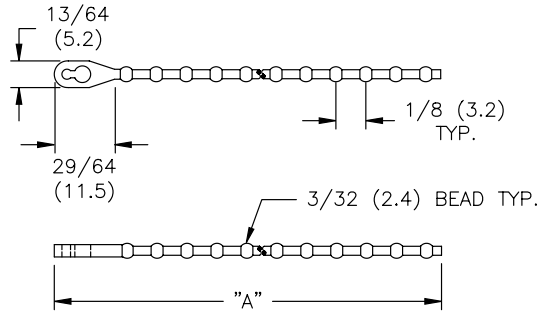


FIG 1

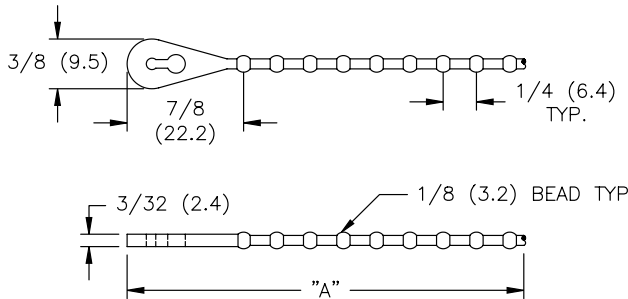
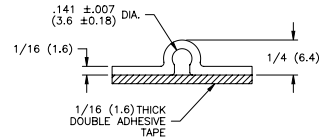


FIG 2

Features

- Excellent for temporary or releasable applications
- Beaded design keeps wires from shifting and slipping



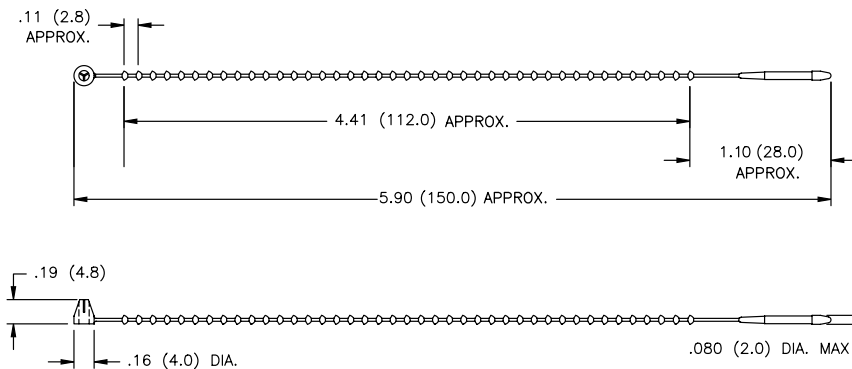
NOTE:

To mount, use Richco Part No. THA-RT Tie Holder, see page 88

Part No.	Length "A" Approx.	Figure No.	Standard Pack: 1000 per bag				
			Color - Red Material: Polypropylene, RMS-10	Color - Yellow Material: Polypropylene, RMS-10	Color - Blue Material: Polypropylene, RMS-10	Color - Black Material: Polypropylene, RMS-10	Color - Natural Material: Nylon 6/6, RMS-01
Suffix			-10-RD	-10-YL	-10-BL	-10-BK	-01-NT
BT-2	2.50 (63.5)	1	Standard	Standard	Standard	Special	Special
BT-4	4.00 (101.6)					Standard	Standard
BT-5	5.00 (127.0)						
BT-6	6.00 (152.4)						
BT-8	8.75 (222.3)	2	Standard	Standard	Standard	Special	Standard
BT-10	10.75 (273.1)						
BT-12	12.75 (323.9)						

LBT-18-01

Locking Beaded Tie



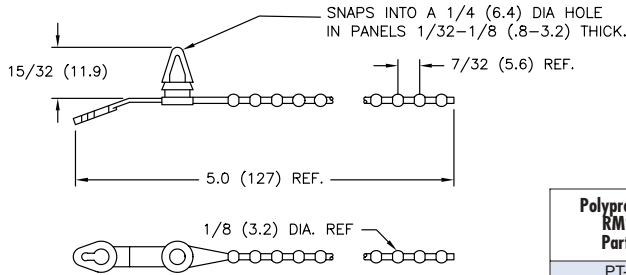
Features

- UL #E93670
- Permanent lock for secure applications

Material: Nylon 6/6, RMS-01 • Color: Natural		
Part No.	Standard Pack: 1000 per Bag	
	Min. Loop Tensile (lbs.)	Max. Bundle Dia.
LBT-18-01	18	1.4 (35.6)

CABLE TIES AND ACCESSORIES

PT/ST Pushbutton Wire Tie

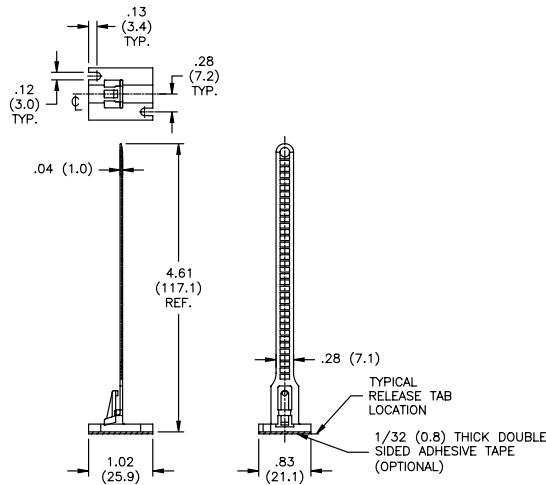
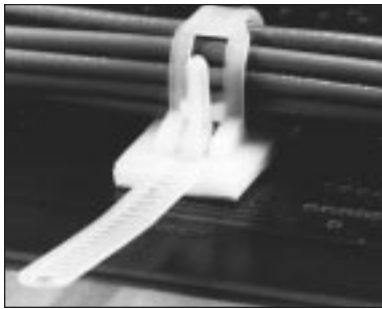


Features

- Quick and secure hold down installation
- Releasable
- ST ties are supplied with a 7/32" (5.6mm) diameter hole

Polypropylene, RMS-10 Part No.	Nylon 6/6, RMS-01 Part No.	Flame Retardant Nylon 6/6, RMS-19 Part No.	Color
PT-200	PT-300	—	Red
PT-201	PT-301	—	Blue
PT-202	PT-302	—	Yellow
PT-203	PT-303	—	Black
PT-205	PT-305	PT-405	Natural
ST-205	ST-305	ST-405	Natural

TOBS-18-01A-RT Tie On Base, Screw



Features

- Releasable
- Two mounting slots on base to accommodate #4 screws allow secure "screw-down" installation
- Base has slot to guide strap under the locking mechanism

Material: Nylon 6/6, RMS-01 • Color: Black
Standard Pack: 1000 per bag
Min. Loop Tensile (lbs.) 18
Maximum Bundle Diameter = 1-1/8"

WIT-1/2A/3/3A Installation Tools

WIT-1

- Lightweight, economical tool for job site installations and repairs
- For WIT-18 through -50 wire ties



WIT-2A

- Heavy duty construction for Richco Series WIT-18, -30, -40, -50 and -60 wire ties
- Cuts cable tie flush when adjustable preset bundling tension is reached



WIT-3

- For Richco WIT-120 and -175 wire ties



WIT-3A

- Economy model for Richco Series WIT-18, -30, -40, -50 and -60 wire ties
- Glass reinforced nylon provides lightweight durability



CABLE TIES AND ACCESSORIES

RKW

Richco Kwik Wrap



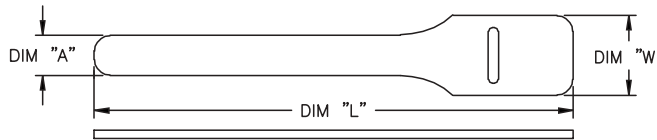
NOTE:

See FTH-27-12 and FTH-27RS (p. 85) for a Flat Tie Holder designed for RKW Series



Features

- Custom sizes and styles available by special order
- Excellent in reusable applications
- Won't pinch fiber



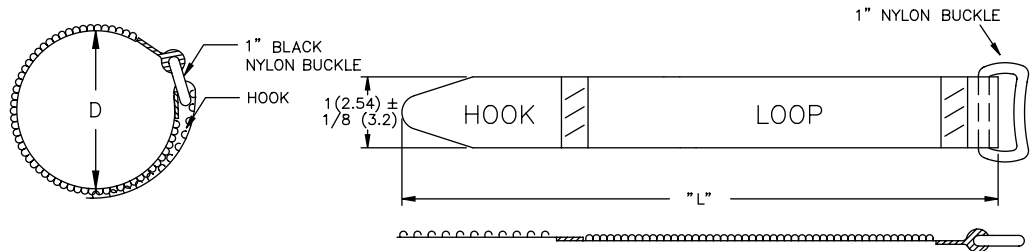
RKW

Material: Low Density Polyethelene Hook • Nylon Knit Loop
Color: Black (-BK), White (-W), Blue (-BL), Red (-R), Yellow (-YL), Green (-GN), Orange (-OR). Specify suffix when ordering.

Part No.	Standard Pack: 100 per bag		
	"A" ± 1/8 (3.2)	"W" ± .125 (3.2)	"L" ± 1/2 (12.7)
RKW-6-6	3/8 (9.5)	.75 (19.1)	6 (152.4)
RKW-8-6	1/2 (12.7)	1.0 (25.4)	8 (203.2)
RKW-8-8			11 (279.4)
RKW-8-11			15 (381.0)
RKW-12-15	3/4 (19.1)	1.5 (38.1)	18 (457.2)
RKW-12-18			24 (609.6)
RKW-12-24			

RKWD

Richco Kwik Wrap - D Style



RKWD

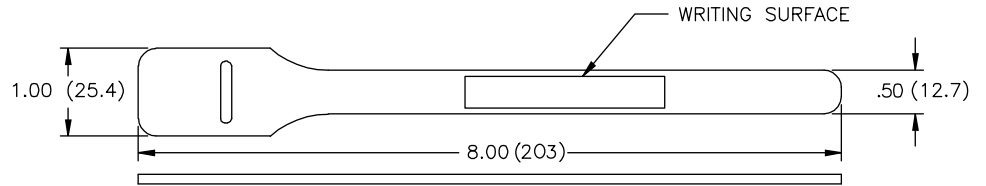
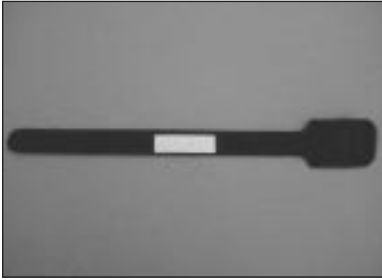
Material: Low Density Polyethelene Hook • Nylon Knit Loop
Color: Black (-BK), White (-W), Blue (-BL), Red (-R), Yellow (-YL), Green (-GN), Orange (-OR). Specify suffix when ordering.

Part No.	Standard Pack: 100 per bag	
	"L" ± 1/4 (.6.4)	"D" Approx. Bundle Dia. with Hook Fully Engaged
RKWD-16-9	9 (228.6)	2-1/2 (63.5)
RKWD-16-12	12 (304.8)	3 (76.2)
RKWD-16-15	15 (381)	4 (101.6)
RKWD-16-20	20 (508)	5-3/8 (136.5)
RKWD-16-24	24 (609)	6-7/8 (174.6)

CABLE TIES AND ACCESSORIES

RKwid-8-8

Richco Kwik Wrap, Identification

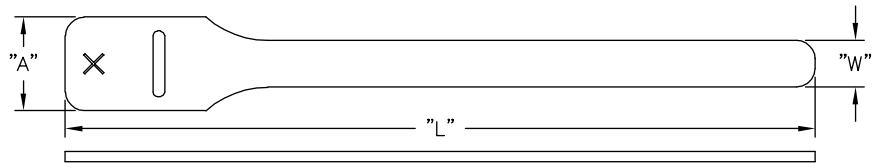


- Identifies wires, bundles, leads or terminals

Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black (-BK), White (-W), Blue (-BL), Red (-R), Yellow (-YL), Green (-GN), Orange (-OR). Specify suffix when ordering.
Standard Pack: 100 pieces

RKWS

Richco Kwik Wrap



- Screw mount eliminates the need for a mounting device

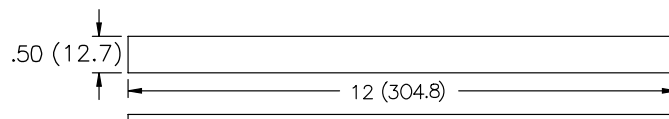
Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black (-BK), White (-W), Blue (-BL), Red (-R), Yellow (-YL), Green (-GN), Orange (-OR). Specify suffix when ordering.

Part No.	Standard Pack: 100 pieces		
	"A" ± .125 (3.2)	"W" ± .125 (3.2)	"L" ± 1/2 (12.7)
RKWS-8-9	1.0 (25.4)	1/2 (12.7)	9.0 (228.6)
RKWS-8-12			12.0 (304.8)

RKS-8-12

Richco Kwik Strap

- Strip allows the user to cut off any length needed

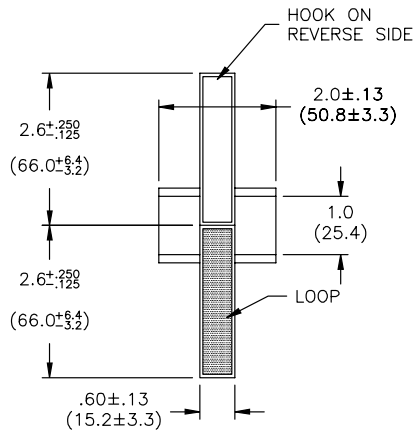


Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black (-B), White (-W). Specify suffix when ordering.
Standard Pack: 10 per bag

CABLE TIES AND ACCESSORIES

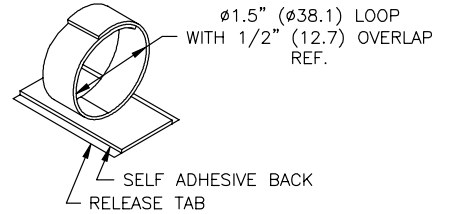
RKWB

Richco Kwik Wrap on Base



Features

- Accommodates a wide variety of diameters
- Releasable

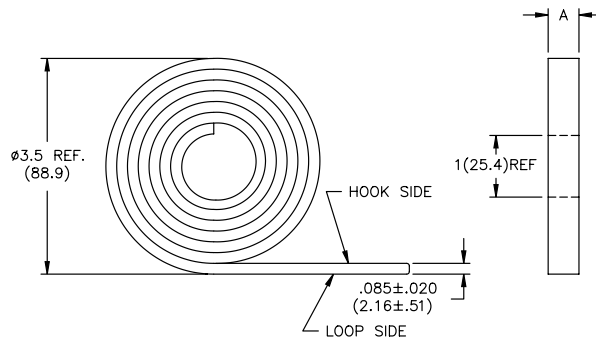


Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black

Standard Pack: 100 per bag

RKWR

Richco Kwik Wrap

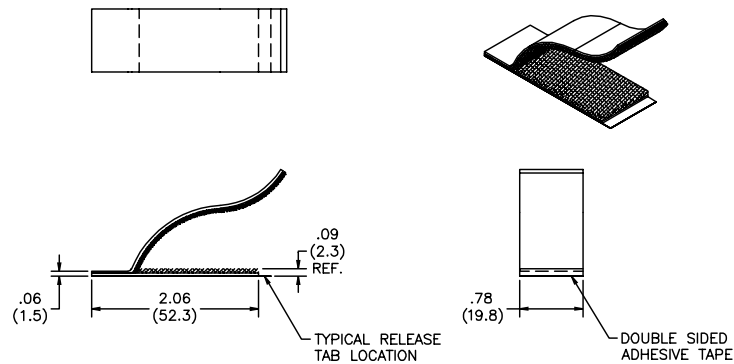
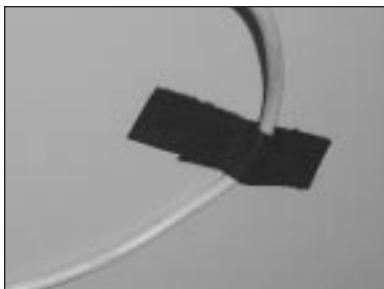


Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black (-B), Blue (-BL), Red (-R), Yellow (-YL), Green (-GN), Orange (-OR). Specify with suffix when ordering.

Part No.	Standard Pack: 1 roll per Bag	
	"A"	Total Length
RKWR-1	3/4 (19.1)	5 Yards (4.57m)
RKWR-2	1 (25.4)	

RKWFA-16-300

Richco Kwik Wrap - Adhesive Flat Wiring

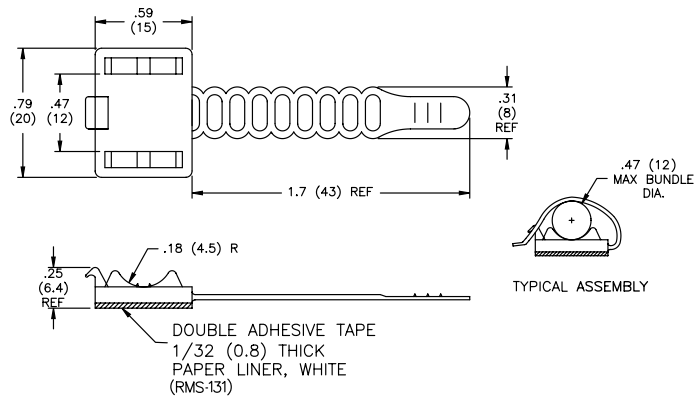


Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black

Standard Pack: 100 pieces

CABLE TIES AND ACCESSORIES

LTOB-1 Ladder Tie On Base



Features

- Releasable

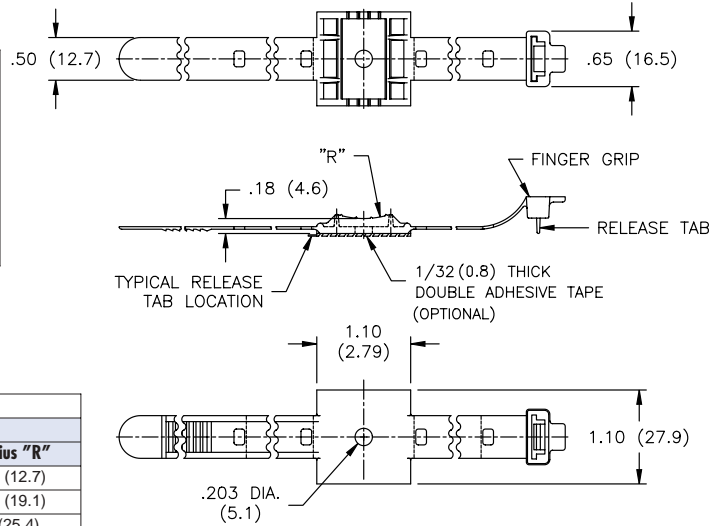
Material: Nylon 6, RMS-122 • Color: Black
Standard Pack: 100 per bag

UMS

Universal Mounting Strap



Richco Rivet No.	Panel Thickness Range
SR-5045	0.000 to 0.018
SR-5055	0.018 to 0.058
SR-5065	0.058 to 0.097
SR-5075	0.097 to 0.137
SR-5085	0.137 to 0.176
SR-5095	0.176 to 0.215
SR-5105	0.215 to 0.255



Features

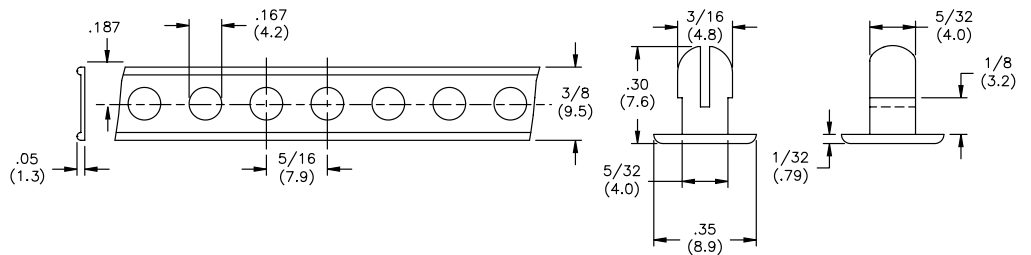
- Fastens with a #8 or #10 screw, rivet (see chart) or optional double-backed adhesive tape (RMS-15)

Material: Nylon 6/6, RMS-45 • Color: Black

Part No. W/O Tape	Part No. W/ Tape	Standard Pack: 100		
		Maximum Bundle Dia.	Max. Loop Tensile (lbs.)	Radius "R"
UMS-16-45	UMS-16-45A-RT	1 (25.4)	50	1/2 (12.7)
UMS-24-45	UMS-24-45A-RT	1 - 1/2 (38.1)		3/4 (19.1)
UMS-32-45	UMS-32-45A-RT	2 (50.8)		1 (25.4)

RNS/LB

Richco Nylon Strap and Locking Button



RNS-167

LB-5

Material: Nylon, RMS-17 • Color: Black

Part No.	
Standard Pack: 100 feet roll	Standard Pack: 100 per bag
RNS-167	LB-5

Features

- Suspend, fasten or support cables, wire bundles, tubing, pipe or wire harnesses

CABLE TIES AND ACCESSORIES

FTH/MFTH Flat Tie Holder

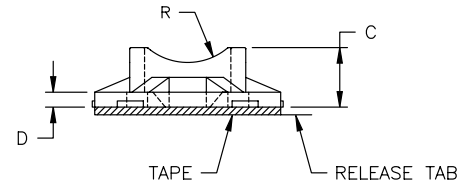
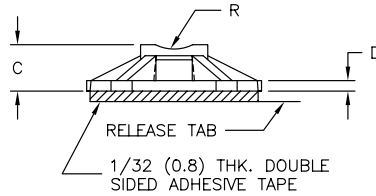
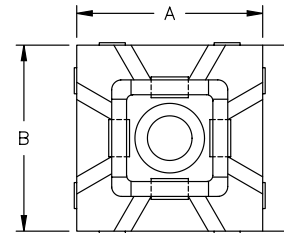
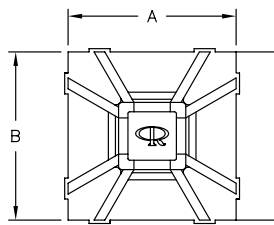


Fig. 1

Fig. 2

Features

- FTH-4 – Swivel head makes rerouting easy

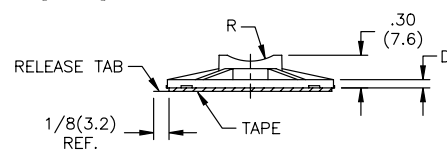
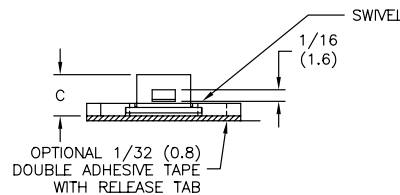
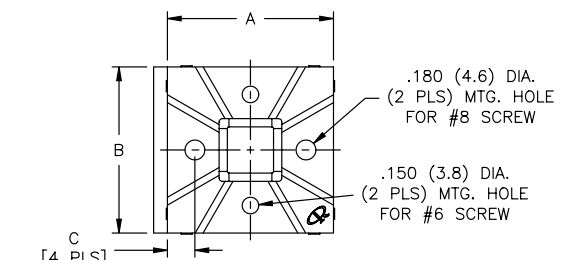
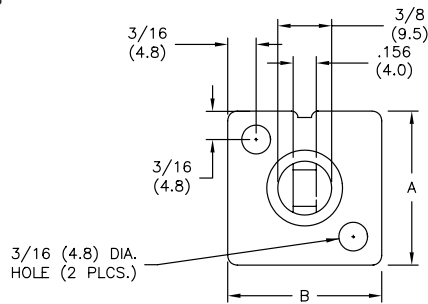


Fig. 3

Fig. 4



• UL #E71558

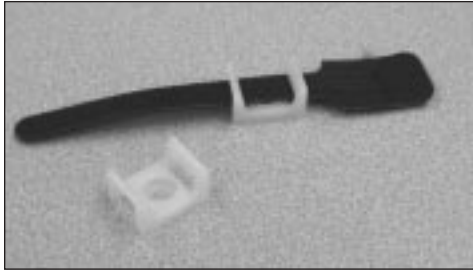
4-Way Adhesive Mounts

Part No.	Figure	Can be used with Ties	"A"	"B"	"C"	"D"	"R"	Recommended Mounting Screw	Std. Pack	Std. Pack	UVB Stabilized	Adhesive	
Nylon 6/6 RMS-01 Color: Natural Suffix									-C	-M	Nylon 6/6 RMS-46 Black -UVB		
MFTH-2-01A-RT MFTH-2-01A1-RT FTH-5-01	1	18	.50 (12.7)	.50 (12.7)	.14 (3.5)	.031 (0.8)	1/8 (3.2)	N/A	100	1000	SPECIAL	ACRYLIC-BASED RUBBER-BASED	
FTH-5A-RT FTH-5A1-RT	2	18, 30 & 40	.75 (19.1)	.75 (19.1)	.24 (6.1)	.06 (1.5)	1/4 (6.4)	#6			STANDARD	N/A - SCREW MOUNTED ACRYLIC-BASED RUBBER-BASED	
FTH-4-01 FTH-4A-RT	3				.31 (4.8)	N/A	N/A	#8			SPECIAL	N/A - SCREW MOUNTED ACRYLIC-BASED RUBBER-BASED	
FTH-7-01 FTH-7A-RT FTH-7A1-RT	2	50 & 60	1.00 (25.4)	1.00 (25.4)	.28 (7.1)		3/8 (9.5)	#8			STANDARD	N/A - SCREW MOUNTED ACRYLIC-BASED RUBBER-BASED	
FTH-8-01 FTH-8A-RT FTH-10-01 FTH-10A-RT	4	50, 60, 70 & 120	1.50 (38.1)	1.50 (38.1)	.25 (6.35)	.08 (2.0)	7/16 (11.1)	#6 (M3.5) or #8 (M4)			SPECIAL	N/A - SCREW MOUNTED ACRYLIC-BASED RUBBER-BASED N/A - SCREW MOUNTED ACRYLIC-BASED	
			2.00 (50.8)	2.00 (50.8)	.325 (8.26)								N/A - SCREW MOUNTED ACRYLIC-BASED

Double-backed acrylic adhesive A-RT, RMS-15; Double-backed rubber adhesive A1-RT, RMS-102
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

CABLE TIES AND ACCESSORIES

FTH-27 Flat Tie Holder



• UL #E71558

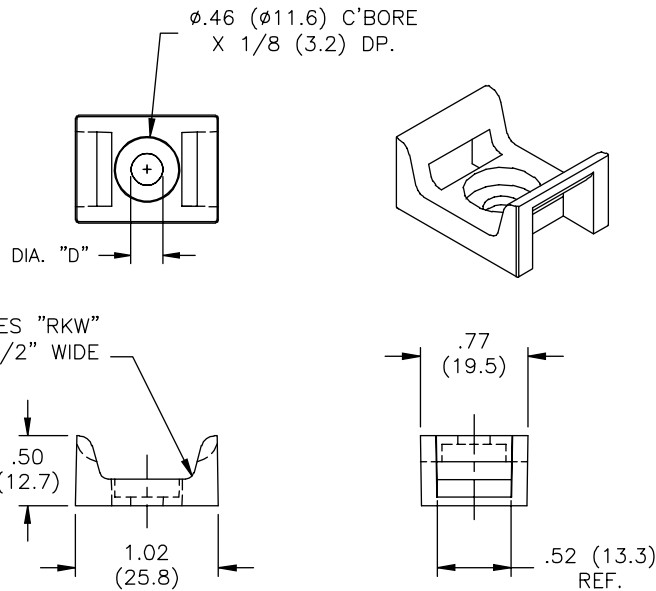
Features

- Accommodates RKW series ties up to 1/2" wide

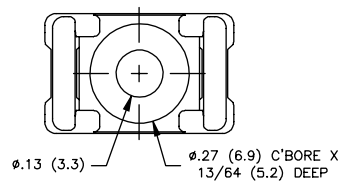
Material: Nylon 6/6 (RMS-01) • Color: Natural		
Part No.	Standard Pack: 1000 pieces	
	"D" Dia.	Mounting Screw
FTH-27-RS-01	.205 (5.2)	No. 10 (M5) Screw or Rivets
FTH-27-12-01	.230 (5.8)	No. 10 & No. 12 Screws

MOUNTING RIVETS FOR THE FTH-27RS

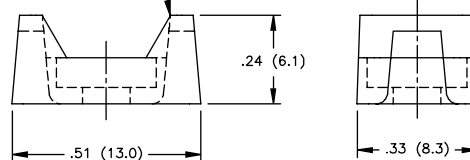
RIVET NO.	HOLE DIA.	PANEL THICKNESS RANGE
SR-5055	.201 (5.1)	.035-.075 (0.9-1.9)
SR-5065		.075-.114 (1.9-2.9)
SR-5075		.114-.154 (2.9-3.9)
SR-5085		.154-.193 (3.9-4.9)
SR-5095		.193-.232 (4.9-5.9)
SR-5105		.232-.272 (5.9-6.9)



FTH-28RS-01 Flat Tie Holder



ACCEPTS WIT-18 SERIES WIRE TIES



MOUNTING RIVETS FOR THE FTH-28RS		
RIVET NO.	HOLE DIA.	PANEL THICKNESS RANGE
SR-3035	.122-.126 (3.1-3.2)	UP TO .034 (0.9)
SR-3045		.034-.073 (0.9-1.9)
SR-3055		.073-.113 (1.9-2.9)
SR-3065		.113-.152 (2.9-3.9)
SR-3075		.152-.191 (3.9-4.9)
SR-3080		.172-.211 (4.4-5.4)
SR-3090		.211-.250 (5.4-6.4)
SR-3100		.250-.290 (6.4-7.4)

- Tie holder to accept either a 30XX series rivet or a #4 (M3) screw

Material: Nylon 6/6, RMS 01 Color: Natural
Standard Pack: 1000 per bag

CABLE TIES AND ACCESSORIES

FTH

Flat Tie Holder



NOTE:

FTH-27 Series (p. 85) has similar design for use with RKW Series.



• UL #E71558

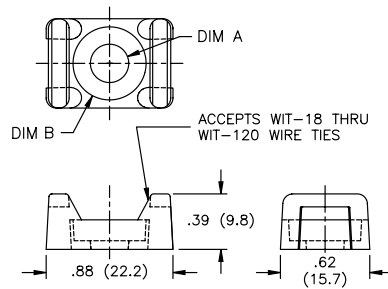
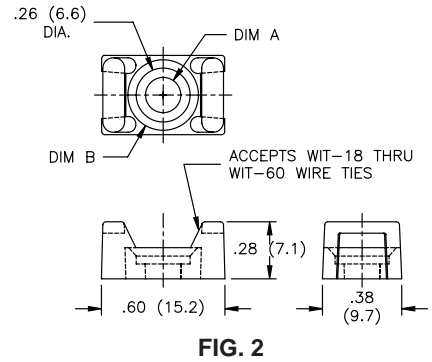
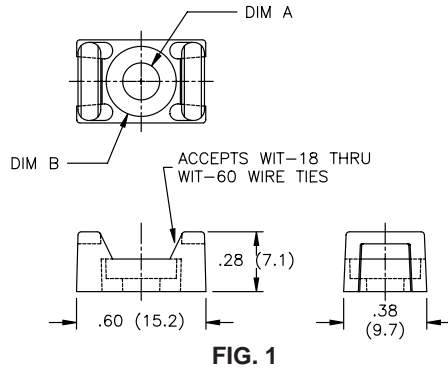


TABLE 1
MOUNTING RIVETS FOR FTH -13R-01

RIVET NO.	HOLE DIA.	PANEL THICKNESS RANGE
SR-4050	.161 (4.1)	.018 - .058 (0.5 - 1.5)
SR-4060	.161 (4.1)	.058 - .097 (1.5 - 2.5)
SR-4070	.161 (4.1)	.097 - .137 (2.5 - 3.5)
SR-4080	.161 (4.1)	.137 - .176 (3.5 - 4.5)
SR-4100	.161 (4.1)	.215 - .255 (5.5 - 6.5)

TABLE 2
MOUNTING RIVETS FOR FTH -14R-01

RIVET NO.	HOLE DIA.	PANEL THICKNESS RANGE
SR-5055	.201 (5.1)	.020 - .048 (0.5 - 1.2)
SR-5065	.201 (5.1)	.048 - .087 (1.2 - 2.2)
SR-5075	.201 (5.1)	.087 - .127 (2.2 - 3.2)
SR-5085	.201 (5.1)	.127 - .166 (3.2 - 4.2)
SR-5095	.201 (5.1)	.166 - .205 (4.2 - 5.2)
SR-5105	.201 (5.1)	.205 - .245 (5.2 - 6.2)

FIG. 3

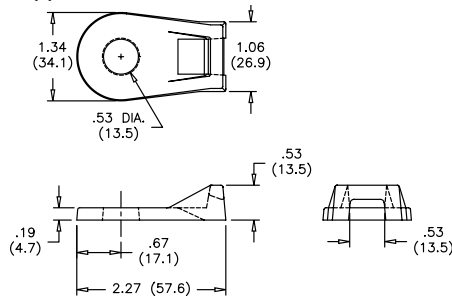
Material: Nylon 6/6, RMS 01 • Color: Natural					
Part No.	Figure	Can be used with Ties	Standard Pack: 100 (-C) or 1000 (-M)		Recommended Mounting
			"A" Dia.	"B" Dia.	
FTH-13R-01	1	WIT-18 to WIT-60	.17 (4.3)	.32 (8.1) C'bore	Rivet Mount See Table 1
FTH-13S-01	2		.32 (8.1) C'sink	# 6 (M3.5) Flat Head; # 8 (M4) Flat Head or Pan Head Screw	
FTH-14R-01	3	WIT-18 to WIT-120	.21 (5.2)	.38 (9.5) C'bore	Rivet Mount See Table 2
FTH-14S-01			.26 (6.6)	.49 (12.5) C'bore	" # 10 (M5) Flat, Round or Pan Head Screw "

UV stabilized material available by special order. To order add -UVB to the end of part number

FTH-17-8-01 Flat Tie Holder

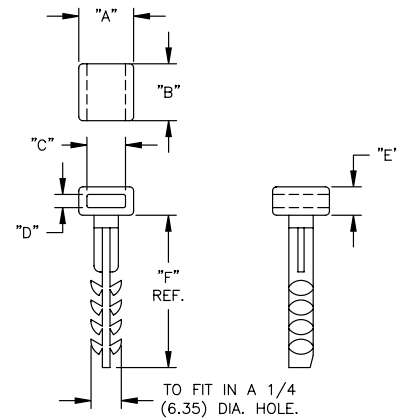
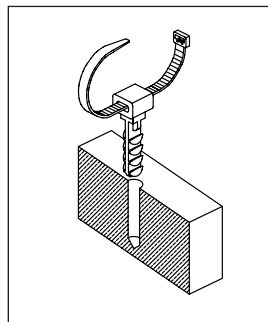
Features

- Accommodates up to WIT-225 size Richco wire ties for heavy duty applications



Material: Nylon 6/6, RMS 01
Color: Natural
Standard Pack: 100 per bag

FTH-19/FTH-20 Flat Tie Holder / Masonry Mount

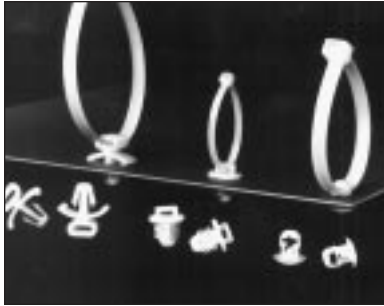


Material: UV Stabilized Nylon 6/6, RMS-46 • Color: Black
Standard Pack: 100 or 1000 per bag

Part No.	"A"	"B"	"C"	"D"	"E"	"E" Ref.	Accommodates Wire Tie Series
FTH-19	.38 (9.7)	.39 (9.9)	.22 (5.6)	.10 (2.5)	.26 (6.6)	1.25 (31.8)	WIT-18 TO WIT-70
FTH-20	.54 (13.7)	.56 (14.2)	.38 (9.7)	.13 (3.3)	.28 (7.1)	1.50 (38.1)	WIT-50 TO WIT-175

CABLE TIES AND ACCESSORIES

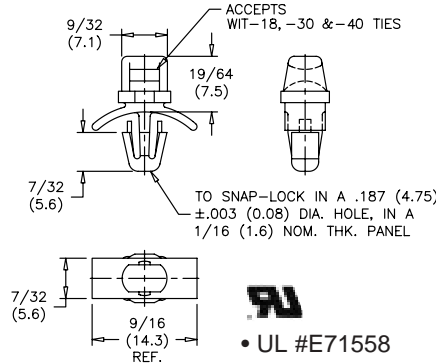
FTH Flat Tie Holder



Features

- Holds down cables for specific routing designs

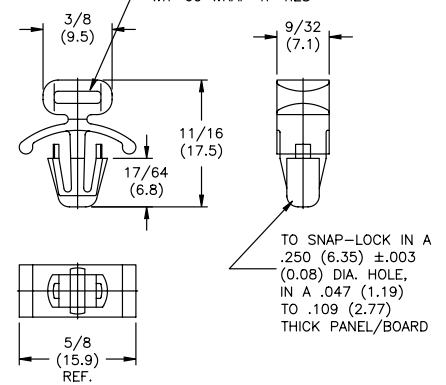
FTH-3-01 Flat Tie Holder



• UL #E71558

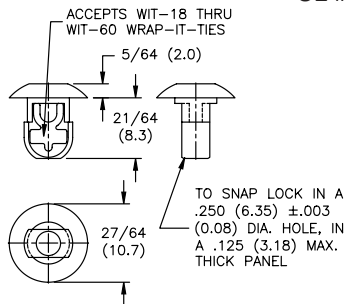
Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 (-C) or 1000 (-M) per bag.
Specify suffix when ordering.

FTH-6-01 Flat Tie Holder



Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 (-C) or 1000 (-M) per bag.
Specify suffix when ordering.

FTH-9-01 Flat Tie Holder

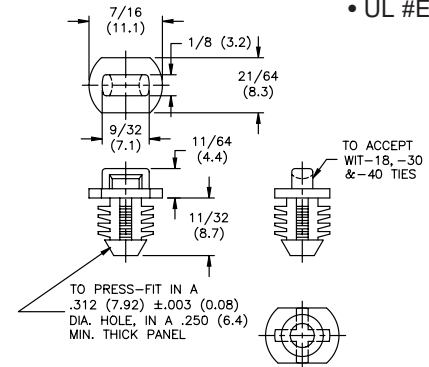


• UL #E71558

- For use when both sides of the panel are accessible

Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 (-C) or 1000 (-M) per bag.
Specify suffix when ordering.

FTH-15-01 Flat Tie Holder

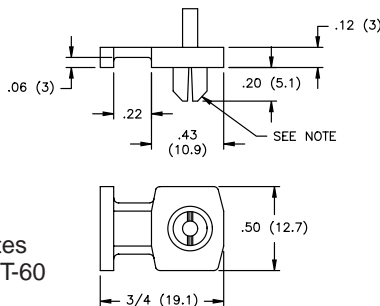


• UL #E71558

- For blind hole applications

Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 (-C) or 1000 (-M) per bag.
Specify suffix when ordering.

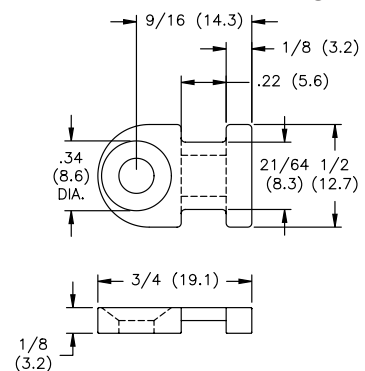
FTH-22-01 Flat Tie Holder



- Accommodates WIT-18 to WIT-60 ties
- To fit in a .196±.002 (5.0±.05) dia. hole with a .030-.125 (.08-3.2) panel thickness range

Material: Nylon 6/6, RMS 01 • Color: Yellow
Standard Pack: 1000 per bag

FTH-1 Flat Tie Holder



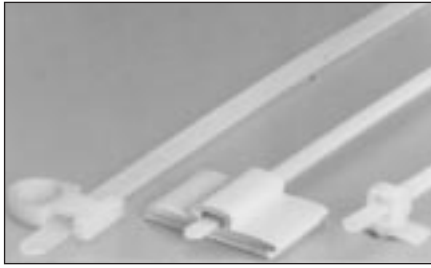
• UL #E71558

- Accommodates WIT-18 to WIT-50 ties
- Mounts with a #8-32 flat head screw

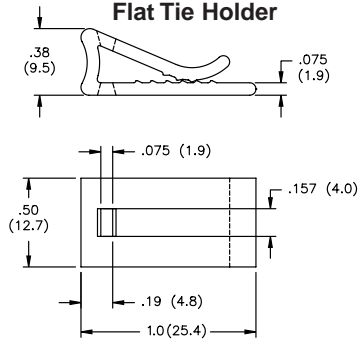
Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 (-C) or 1000 (-M) per bag.
Specify suffix when ordering.

CABLE TIES AND ACCESSORIES

FTH/THA Flat Tie Holder



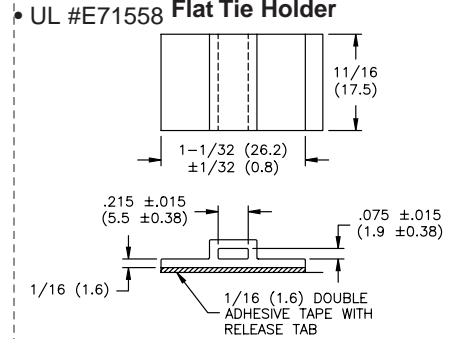
FTH-21-01 Flat Tie Holder



- Accepts WIT-18, WIT-30 and WIT-40 wrap-it ties
- To grip panel thickness range of .031-.106 (0.8-2.7)

Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 1000 per bag

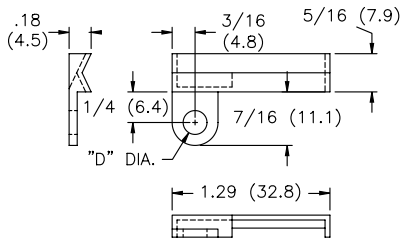
FTH-2A-RT Flat Tie Holder



- Accommodates WIT-18 to WIT-50 ties

Material: Noryl, RMS 05 • Color: White
Standard Pack: 100 (-C) or 1000 (-M) per bag.
Specify suffix when ordering
Adhesive, RMS-15

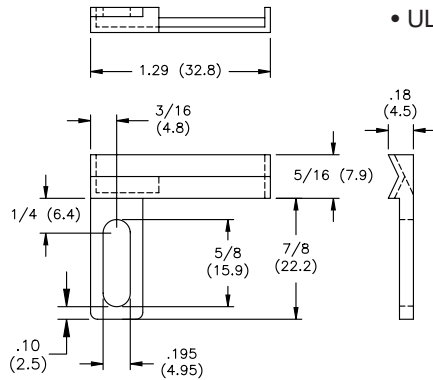
FTH-11 Flat Tie Holder



- Harness lays snugly in V-groove
- Attach harness to holder with various ties
- Mounts with screws

Material: Nylon 6/6, RMS-01 • Color: Natural			
Standard Pack: 100 per Bag			
Part No.	Can be used with Ties	"D" Dia.	Recommended Mounting Screw
FTH-11-8	All Sizes	.170 (4.3)	#8 (M4)
FTH-11-10	All Sizes	.195 (5.0)	#10 (M5)

FTH-12 Flat Tie Holder

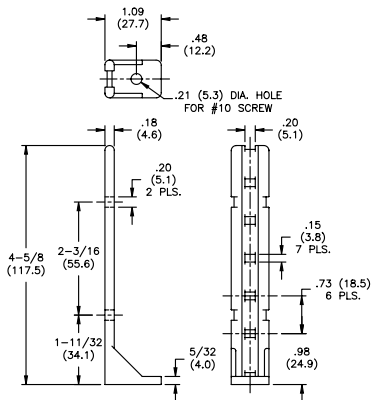


- Mounting slot allows for adjustable placement

Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 per bag

FTH-24-01 Flat Tie Holder

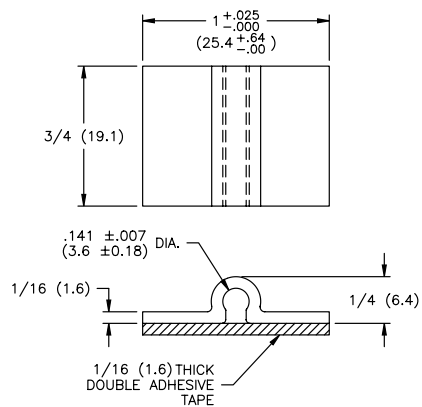
- UL #E71558



- Accommodates WIT-18 to WIT-60 ties
- Mounts multiple harnesses away from panel

Material: Nylon 6/6, RMS 01 • Color: Natural
Standard Pack: 100 per bag

THA-RT Beaded Tie Holder



- Accommodates the Beaded Tie Series (BT) on page 78

Material: Polyethylene, RMS-13 • Color: Black
Standard Pack: 1000 per bag
Adhesive, RMS-15

Introduction

General Features

Richco provides the most comprehensive range of wire, cable and hose management products in both plastic and metal materials. They include many types and styles for all your routing needs. Products are available with both fixed and adjustable holding diameters. Plastic clips, clamps, wire saddles and curly lok designs in addition to innovative products such as Cableater (SHR) and Raceway, are available. These parts have a wide variety of mounting methods including self-adhesive tape, user-applied adhesives, screws, rivets, blind hole, and push through arrowhead designs.

Applications

- Appliance Industry, including Dishwashers, Washers & Dryers, Refrigerators, and Food Preparation Equipment
- Automotive Industry, including heat-stabilized material (by special order) for under the hood applications
- Electronics Industry, including Computer, Copy Machines, TV and associated products
- Boating and RV Industries

Special Products

Richco maintains the largest selection of Clips, Clamps and Wire Routing products in the industry to assist you with cabling needs. Many of Richco's parts have interchangeable locking devices, which may not appear as standard on every part. We would ask that you please contact our engineering department should you require a part which is different than our standard product offerings.

Special Options

Materials

Most plastic clips and clamps are manufactured in Nylon 6/6, RMS-01 as a standard. Most parts which end in the 01 suffix can be order in special materials.

Material	Flammability Rating	Applications
Nylon 6/6	V-2	General Purpose
Flame Retardant Nylon	V-0	General Purpose
Nylon 4/6	V-2	High Temperature
Impact Modified Nylon	HB	Shear Force
Black Ultraviolet	UVB	Outdoor Applications

Special Packaging

Most Richco parts come "standard packed" 1,000 pieces per bag. Wire routing, clips and clamps can be specially packaged in any quantity as a special order. Minimum order requirements may apply to special material. Please consult the factory to discuss application.

Reminders

Proper Application Procedures for RMS-15 and RMS-34

Maximum recommended static loading at the adhesive surface is 1/4 pound per square inch of tape. Remove dirt, wax, dust, soap, or oil from contact surface. Apply to relatively flat surface on glass, metal, wood, tile, plastic, etc. Do not use on fabric, coarse concrete, loose paint, or rough wallpaper. Do not touch adhesive. Remove liner. Place article in desired position and press firmly to insure good adhesive contact. Do not attempt to reposition article. If possible, allow overnight dwell before loading.



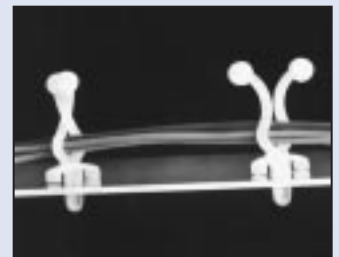
Steel Plated Santoprene Clamp



Adjustable Kwik Klip



Wire Saddle



Twist Lok, Type J

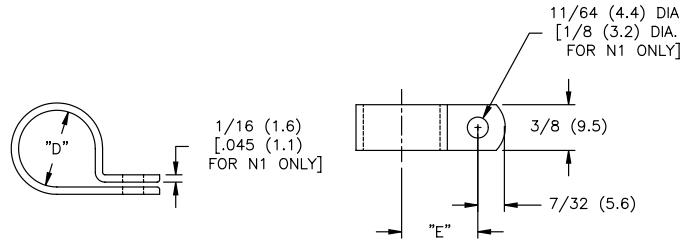


Tension Flat Cable Clamp with Arrowhead

WIRE ROUTING, CLIPS & CLAMPS

N

N/N-BK Cable Clamps

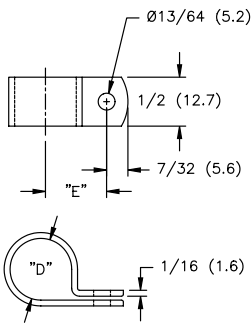


Part No.		Standard Pack: 1000 per bag	
Nylon 6/6, RMS-01 Natural	Nylon 6/6, RMS-49 Black	"D" Holding Dia.	"E" Ref.
N-1	N-1-BK	1/16 (1.6)	.27 (6.9)
N-2	N-2-BK	1/8 (3.2)	21/64 (8.3)
N-3	N-3-BK	3/16 (4.8)	25/64 (9.9)
N-4	N-4-BK	1/4 (6.4)	27/64 (10.7)
N-5	N-5-BK	5/16 (7.9)	29/64 (11.5)
N-6	N-6-BK	3/8 (9.5)	31/64 (12.3)
N-7	N-7-BK	7/16 (11.1)	17/32 (13.5)
N-8	N-8-BK	1/2 (12.7)	9/16 (14.3)

Flame Retardant Nylon, RMS-75, available by special order. To order add -75.
Nylon 6/6, RMS-46 Black UV material available by special order. To order add -UVB to the end of Part No.

NB

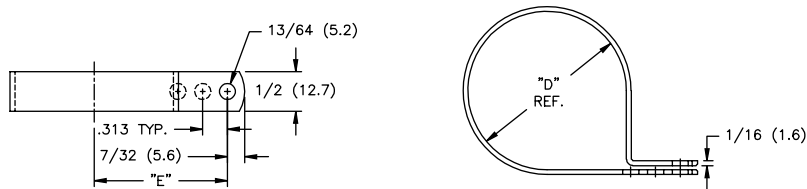
NB/NB-BK/NB-75 Cable Clamps



Part No.			"D" Holding Dia.	"E" Ref.	Standard Pack
Nylon 6/6, RMS-01 Natural	Nylon 6/6, RMS-49 Black	Nylon 6/6, RMS-75 Natural Flame Retardant			
N-2B	N-2B-BK	—	1/8 (3.2)	21/64 (8.3)	1000 per bag
N-3B	N-3B-BK	N-3B-75	3/16 (4.8)	25/64 (9.9)	
N-4B	N-4B-BK	N-4B-75	1/4 (6.4)	27/64 (10.7)	
N-5B	N-5B-BK	N-5B-75	5/16 (7.9)	29/64 (11.5)	
N-6B	N-6B-BK	N-6B-75	3/8 (9.5)	31/64 (12.3)	
N-7B	N-7B-BK	—	7/16 (11.1)	17/32 (12.0)	
N-8B	N-8B-BK	N-8B-75	1/2 (12.7)	9/16 (14.3)	
N-9B	N-9B-BK	—	9/16 (14.3)	19/32 (15.1)	
N-10B	N-10B-BK	N-10B-75	5/8 (15.9)	5/8 (15.9)	
N-11B	N-11B-BK	—	11/16 (17.5)	21/32 (16.7)	
N-12B	N-12B-BK	—	3/4 (19.1)	49/64 (19.4)	
N-14B	N-14B-BK	—	7/8 (22.2)	13/16 (20.6)	500 per bag
N-16B	N-16B-BK	—	1 (25.4)	29/32 (23.0)	
N-18B	N-18B-BK	—	1 - 1/8 (28.6)	31/32 (24.6)	

NB-3 Hole

Cable Clamps - 3 Holes



Features

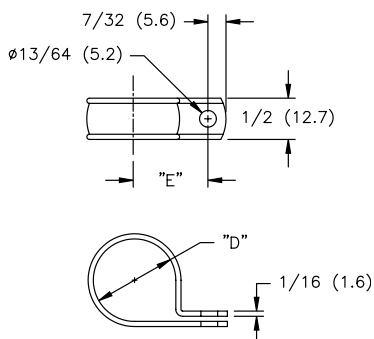
- Three hole feature allows for three different holding diameters for each clamp

Part No.		Dim. "E"	Standard Pack: 500 per bag		
Nylon 6/6, RMS-01 Natural	Nylon 6/6, RMS-49 Black		"D" Holding Dia. (Ref.)		
			Inside	Middle	Outside
N-20B	N-20B-BK	1.0 (25.4)	1.0 (25.4)	1-1/8 (28.6)	1.2 (30.5)
N-24B	N-24B-BK		1-1/4 (31.8)	1-3/8 (34.9)	1-1/2 (38.1)
N-32B	N-32B-BK	1-1/2 (38.1)	1-3/4 (44.5)	1-7/8 (47.6)	2.0 (50.8)

Flame Retardant Nylon, RMS-19, available by special order. To order add -19.

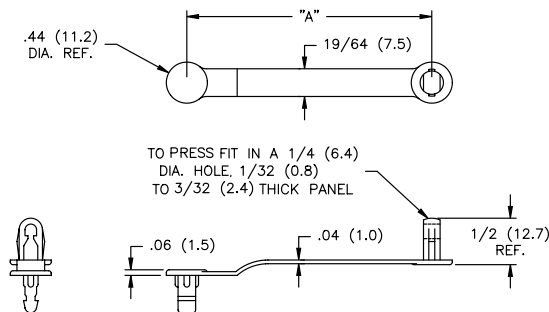
WIRE ROUTING, CLIPS & CLAMPS

E Propionate Cable Clamps



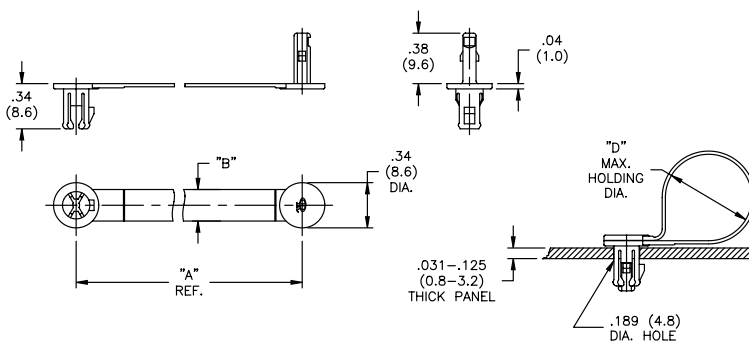
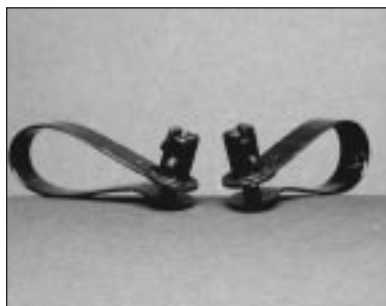
Material: Propionate, RMS-12				Standard Pack
Part No.		"D" Holding Dia.	"E" Ref.	
Color: Clear	Color: Amber			
E2-CL	E2-AM	1/8 (3.2)	21/64 (8.3)	1000 per bag
E3-CL	E3-AM	3/16 (4.8)	25/64 (9.9)	
E4-CL	E4-AM	1/4 (6.4)	27/64 (10.7)	
E5-CL	E5-AM	5/16 (7.9)	29/64 (11.5)	
E6-CL	E6-AM	3/8 (9.5)	31/64 (12.3)	
E7-CL	E7-AM	7/16 (11.1)	17/32 (13.5)	
E8-CL	E8-AM	1/2 (12.7)	9/16 (14.3)	
E9-CL	E9-AM	9/16 (14.3)	19/32 (15.1)	
E9-1/2-CL	E9-1/2-AM	19/32 (15.0)	.62 (15.7)	
E10-CL	E10-AM	5/8 (15.9)	5/8 (15.9)	
E11-CL	E11-AM	11/16 (17.5)	21/32 (16.7)	
E12-CL	E12-AM	3/4 (19.1)	49/64 (19.4)	
E14-CL	E14-AM	7/8 (22.2)	13/16 (20.6)	500 per bag
E16-CL	E16-AM	1 (25.4)	29/32 (23.0)	
E18-CL	E18-AM	1 - 1/8 (28.6)	31/32 (24.6)	
E19-CL	E19-AM	1 - 3/16 (30.1)	1 (25.4)	
E20-CL	E20-AM	1 - 1/4 (31.8)	1 - 1/16 (27.0)	
E22-CL	E22-AM	1 - 3/8 (34.9)	1 - 3/64 (26.6)	

CH Cable Hanger



Part No.				Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01 Color: Natural	Material: Nylon 6/6, RMS-01 Color: Black	Material: Polypropylene, RMS-10 Color: Natural	Material: Polypropylene, RMS-10 Color: Black	Nominal "A"	Max. Holding Diameter
CH-1-01	CH-1-01BK	CH-1-10	CH-1-10BK	1 - 3/4 (44.5)	3/8 (9.5)
CH-2-01	CH-2-01BK	CH-2-10	CH-2-10BK	2 - 5/8 (66.7)	5/8 (15.9)
CH-3-01	CH-3-01BK	CH-3-10	CH-3-10BK	3 - 3/4 (95.3)	1 (25.4)

RSC Richco Speed Clamps



Material: Nylon 6/6, RMS-01 Color: Black			
Part No.	Standard Pack: 1000 per bag		
	"A"	"B"	"D" Max Holding Dia.
RSC-3-01	1.10 (27.9)	.16 (4.1)	7/32 (5.6)
RSC-4-01	1.30 (33.0)	.24 (6.1)	1/4 (6.4)
RSC-6-01	1.69 (42.9)		3/8 (9.5)
RSC-9-01	2.48 (63.0)		5/8 (15.9)

WIRE ROUTING, CLIPS & CLAMPS

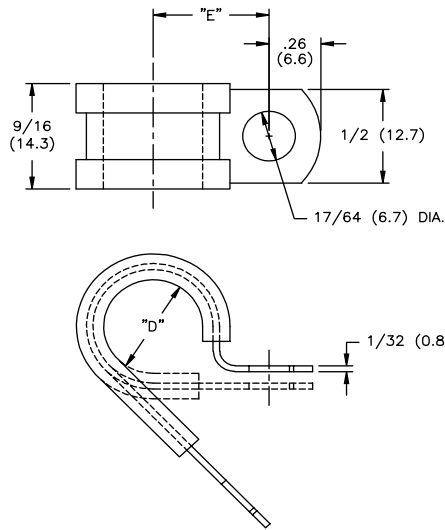
SPN

Steel Plated Santoprene Clamp



Features

- Santoprene meets MIL R-3065 and AMS-3209 specifications
- Zinc electroplated
- Cushion provides electrical insulation and vibration absorption



Material: Cold-Rolled Steel (CRS)
Finish: Zinc electroplated
Color: Silver with Black santoprene* cushion

Part No.	Holding Dia. "D"	"E" Ref.	Standard Pack
SPN-3	3/16 (4.8)	.50 (12.7)	500 per bag
SPN-4	1/4 (6.4)	.53 (13.5)	
SPN-5	5/16 (7.9)	.56 (14.2)	
SPN-6	3/8 (9.5)	.59 (15.0)	
SPN-7	7/16 (11.1)	.62 (15.7)	
SPN-8	1/2 (12.7)	.65 (16.5)	
SPN-9	9/16 (14.3)	.75 (19.1)	
SPN-10	5/8 (15.9)	.78 (19.8)	
SPN-11	11/16 (17.5)	.81 (20.6)	
SPN-12	3/4 (19.1)	.84 (21.3)	
SPN-14	7/8 (22.2)	.90 (22.9)	100 per bag
SPN-16	1 (25.4)	.96 (24.4)	
SPN-18	1 - 1/8 (28.6)	1.05 (26.7)	
SPN-20	1 - 1/4 (31.8)	1.11 (28.2)	

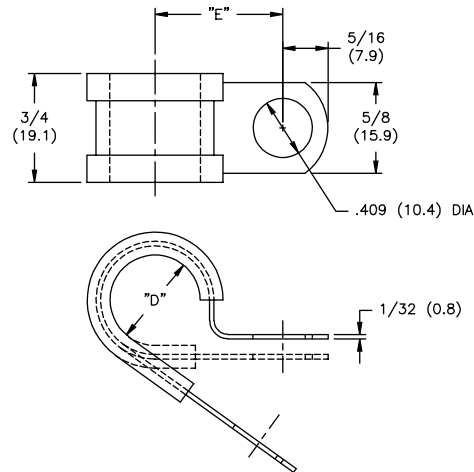
*See page 204 for santoprene specs.

SPNW

Steel Plated Santoprene Clamp - Wide

Features

- Santoprene meets MIL R-3065 and AMS-3209 specifications
- Zinc electroplated
- Cushion provides electrical insulation and vibration absorption



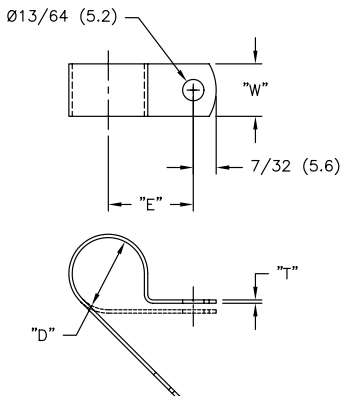
Material: Cold-Rolled Steel (CRS)
Finish: Zinc electroplated
Color: Silver with Black santoprene* cushion

Part No.	Holding Dia. "D"	"E" Ref.	Standard Pack
SPNW-3	3/16 (4.8)	.60 (15.2)	100 per bag
SPNW-4	1/4 (6.4)	.63 (16.0)	
SPNW-5	5/16 (7.9)	.66 (16.8)	
SPNW-6	3/8 (9.5)	.69 (17.5)	
SPNW-7	7/16 (11.1)	.72 (18.3)	
SPNW-8	1/2 (12.7)	.75 (19.1)	
SPNW-9	9/16 (14.3)	.85 (21.6)	
SPNW-10	5/8 (15.9)	.88 (22.4)	
SPNW-11	11/16 (17.5)	.91 (23.1)	
SPNW-12	3/4 (19.1)	.94 (23.9)	
SPNW-14	7/8 (22.2)	1.00 (25.4)	
SPNW-16	1 (25.4)	1.06 (26.9)	
SPNW-18	1 - 1/8 (28.6)	1.15 (29.2)	
SPNW-20	1 - 1/4 (31.8)	1.21 (30.7)	

*See page 204 for santoprene specs.

AL

Aluminum Cable Clamps



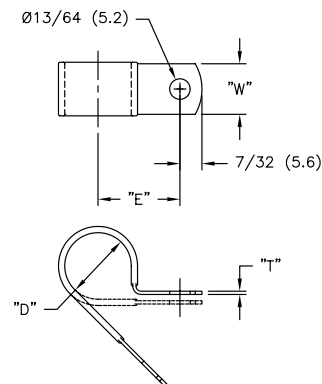
Material: Aluminum Alloy 5052 H-32
Color: AL - Silver, NE - Silver with Black Plastisol* Dip

Part No.	Holding Dia. "D"	"E" Ref.	"T"	"W"	Standard Pack	
AL2	—	1/8 (3.2)	.46 (11.7)	1/32 (0.8)	3/8 (9.5)	1000 per bag
AL3	NE3	3/16 (4.8)	.50 (12.7)			
AL4	NE4	1/4 (6.4)	.53 (13.5)			
AL5	NE5	5/16 (7.9)	.56 (14.2)			
AL6	NE6	3/8 (9.5)	.59 (15.0)			
AL7	NE7	7/16 (11.1)	.62 (15.7)			
AL8	NE8	1/2 (12.7)	.65 (16.5)			
AL9	NE9	9/16 (14.3)	.75 (19.1)			
AL10	NE10	5/8 (15.9)	.78 (19.8)			
AL11	NE11	11/16 (17.5)	.81 (20.6)			
AL12	NE12	3/4 (19.1)	.84 (21.3)	1/16 (1.6)	1/2 (12.7)	500 per bag
AL14	NE14	7/8 (22.2)	.90 (22.9)			
AL15	—	15/16 (23.8)	.93 (23.6)			
AL16	NE16	1 (25.4)	.96 (24.4)			
AL18	NE18	1 - 1/8 (28.6)	1.05 (26.7)			
AL20	NE20	1 - 1/4 (31.8)	1.11 (28.2)			

*See page 203 for vinyl specs.

NE

Plastisol Dipped Aluminum Cable Clamps



• Nominal 1/32" (.8mm) vinyl thickness

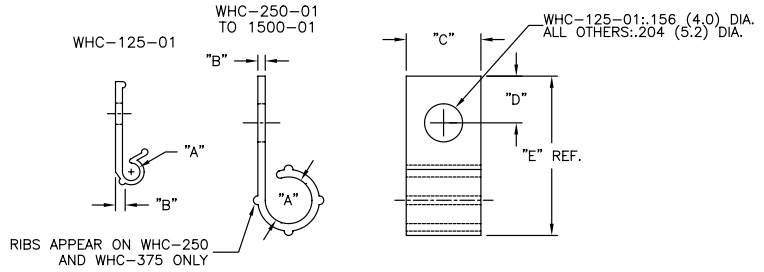
WIRE ROUTING, CLIPS & CLAMPS

WHC Wire Harness



Features

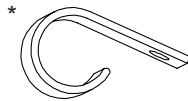
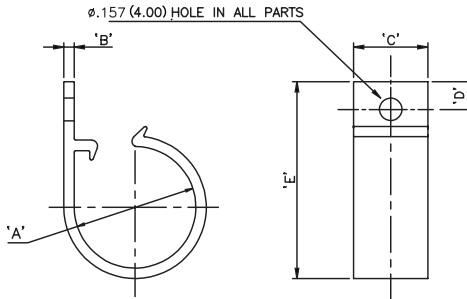
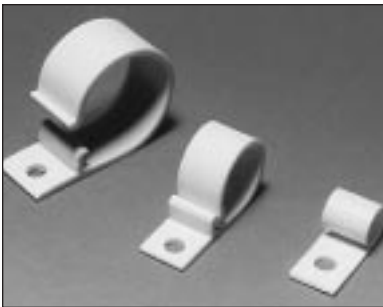
- Cable and wire can be installed or removed for repair without removing clamp
- Mounts with screws, mounting buttons or rivets



Material: Nylon 6/6, RMS-01 • Color: Natural						
Part No.	"A" (Holding Diameter)	"B"	"C"	"D"	"E" Ref.	Standard Pack
WHC-125-01	1/8 (3.2)	.05 (1.3)	.33 (8.4)	.23 (5.8)	.75 (19.1)	1000 per Bag
WHC-250-01	1/4 (6.4)	.04 (1.0)		.25 (6.4)	.83 (21.1)	
WHC-375-01	3/8 (9.5)	.05 (1.3)		.19 (4.8)	.83 (21.1)	
WHC-500-01	1/2 (12.7)	.07 (1.8)		.25 (6.4)	1 - 5/32 (29.4)	
WHC-625-01	5/8 (15.9)	.08 (2.0)	.50 (12.7)	.19 (4.8)	1 - 1/8 (28.6)	500 per Bag
WHC-750-01	3/4 (19.1)	.08 (2.0)			1 - 9/32 (32.5)	
WHC-1000-01	1 (25.4)	.09 (2.3)			1 - 17/32 (38.9)	
WHC-1500-01	1 - 1/2 (38.1)	.10 (2.5)			2 - 1/8 (53.9)	

Part available in V-0 material by special order. To order, replace -01 with -19.

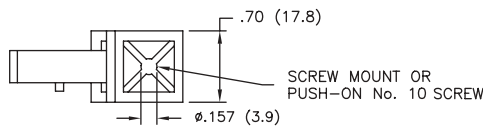
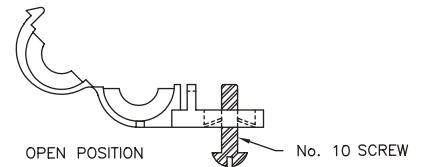
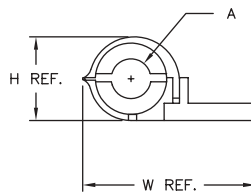
EXWHC Extruded Wire Harness Clip



Material: PVC • Color: Off White					
Part No.	Standard Pack: 1000				
	"A" Holding Dia.	"B"	"C"	"D"	"E" Ref.
EXWHC-250*	.25 (6.35)	.07 (1.8)	.394 (10.0)	.188 (4.8)	.854 (21.7)
EXWHC-500	.50 (12.7)		.118 (30.0)		
EXWHC-750	.75 (19.0)		.50 (12.7)		1.34 (34.0)

*EXWHC-250 is produced with no latch feature

HQC Hinged Quick Clip



Features

- Can be pushed on to a No. 10 screw or screw mounted
- Good for holding plastic conduit

Material: Nylon 6/6 • Color: Black			
Part No.	Standard Pack: 1000 per bag		
	"A" Max. Bundle Dia."	H Ref.	W Ref.
HQC-39	.390 (9.9)	79 (20.1)	1.65 (41.9)
HQC-74	.748 (18.9)	1.09 (27.6)	1.89 (48.0)

WIRE ROUTING, CLIPS & CLAMPS

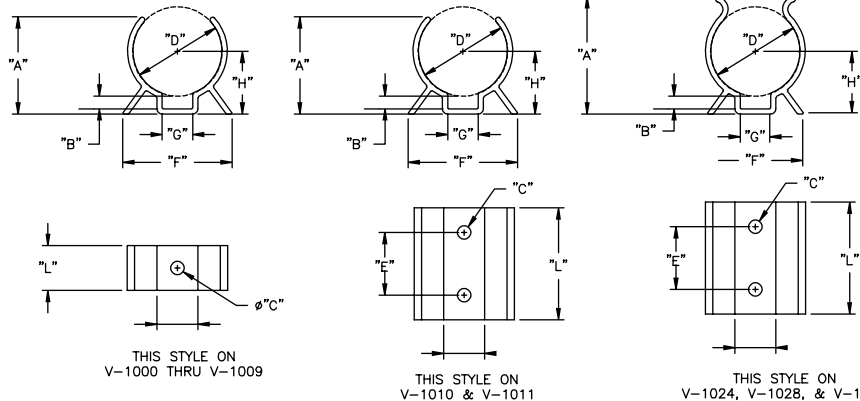
V

Component Clips



Features

- Holds capacitors, resistors, lamps, batteries and fuses
- Mounts securely with screws or rivets
- Legs help maintain tension



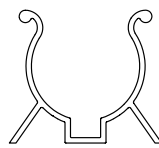
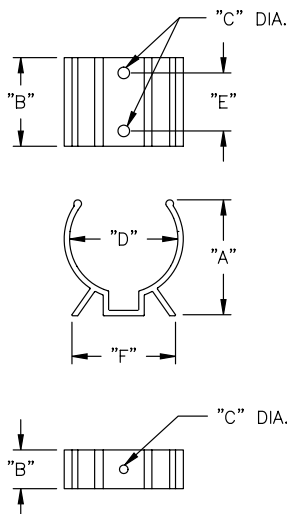
Material: PVC, RMS-04 • Color: Black											
Part No.	"D" Holding Diameter	Length "L"	Height "A" Ref.	"B" Ref	"C" Hole Dia.	"E"	"F" Ref.	"G" Ref.	"H" Ref.	Wall Ref.	Standard Pack
V-1000	.25 (6.4)	.50 ±.015 (12.7 ±0.4)	.30 (7.5)	.04 (1.0)	.094 (2.4)	Single Hole In Center	.50 (12.7)	.19 (4.8)	.19 (4.8)	.040 (1.0)	1000 per bag
V-1001	.31 (7.9)		.36 (9.1)	.06 (1.5)					.25 (6.4)	.045 (1.1)	
V-1002	.38 (9.5)		.41 (10.3)	.29 (7.4)							
V-1003	.44 (11.1)		.45 (11.5)	.36 (9.1)					.050 (1.3)		
V-1004	.50 (12.7)		.50 (12.7)	.34 (8.6)							
V-1005	.56 (14.3)		.61 (15.5)	.38 (9.7)					.060 (1.5)		
V-1006	.63 (15.9)		.63 (15.9)	.43 (10.9)							
V-1007	.69 (17.5)		.63 (15.9)	.04 (1.0)					.065 (1.7)		
V-1008	.75 (19.1)		.78 (19.8)	.12 (3.0)						.84 (21.3)	
V-1009	.88 (22.2)		.91 (23.0)	.06 (1.5)					.156 (4.0)	.75 (19.1)	
V-1010	1.00 (25.4)	.98 (25.0)	.12 (3.0)	1.08 (27.4)	.56 (14.2)						
V-1011	1.38 (34.9)	1.13 ±.020 (28.6 ±0.5)	1.34 (34.1)	.19 (4.8)	.75 (19.1)	1.13 (28.6)	.41 (10.4)	.70 (17.8)	.093 (2.4)		
V-1024	1.50 (38.1)	1.75 ±.020 (44.5 ±0.5)	1.81 (46.0)					1.25 (31.8)		.91 (23.1)	
V-1028	1.75 (44.5)	1.50 ±.020 (38.1 ±0.5)	1.92 (48.8)	.19 (4.8)	.75 (19.1)	1.42 (36.1)	.44 (11.2)	.99 (25.1)	.075 (1.9)		
V-1030	2.25 (57.1) - 2.75 (69.9)	1.50 ±.020 (38.1 ±0.5)	2.44 (61.9)					1.50 (38.1)		1.11 (28.2)	
Custom lengths available by special order											

VM

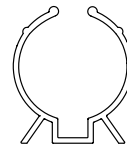
Component Clips, Molded

Features

- Smooth edges protect components from wear and abrasion
- Mounts securely with screws or rivets
- Legs help maintain tension



THIS STYLE ON
VM-1030 ONLY

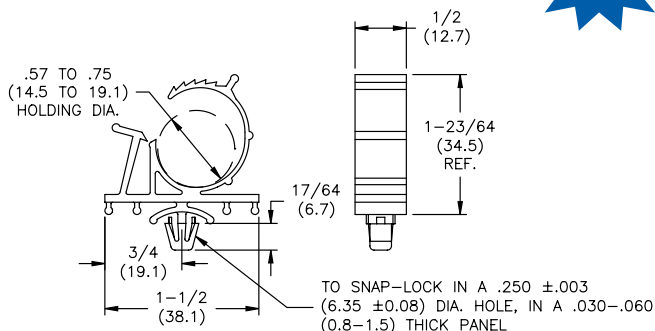


THIS STYLE ON
VM-1024 ONLY

Material: 25% Glass Filled Nylon, RMS-37 • Color: Black							
Part No.	Standard Pack: 100 per bag						
	"D" Holding Dia.	"A" Ref.	"B" ±.015	"C" ±.010	"E" ±.010	"F" Ref.	
VM-1002	3/8 (9.5)	.44 (11.2)	.50 (12.7)	.11 (2.8)	Single Hole In Center	.54 (13.7)	
VM-1004	1/2 (12.7)	.52 (13.2)				.75 (19.1)	
VM-1007	11/16 (17.5)	.78 (19.8)				.82 (20.8)	
VM-1008	3/4 (19.1)	.97 (24.6)				.98 (24.9)	
VM-1010	1 (25.4)	1.03 (26.1)	1.12 (28.4)	.15 (3.8)	.750 (19.1)	1.25 (31.8)	
VM-1011	1 - 3/8 (34.9)	1.51 (38.4)	1.16 (29.5)			1.37 (34.8)	
VM-1024	1 - 1/2 (38.1)	1.67 (42.4)	1.70 (43.2)			1.50 (38.1)	
VM-1030	2 - 1/4 (57.2)	2.50 (63.5)	1.52 (38.6)				3.00 (76.2)

WIRE ROUTING, CLIPS & CLAMPS

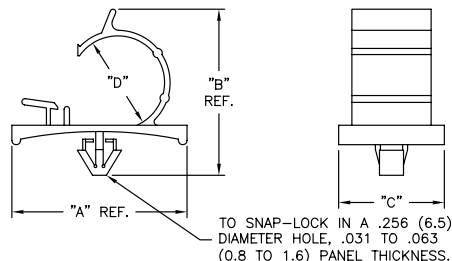
PAKKL Plug In Adjustable Kwik Klip



Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19
Color: Natural

Part No.	Standard Pack: 100 per bag	
	Material	
PAKKL-5775-01	Nylon 6/6 (RMS-01)	
PAKKL-5775-19	Nylon 6/6 (RMS-19)	

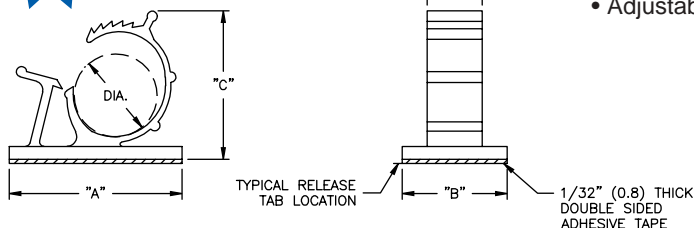
PKKL Plug In Kwik Klip, Locking



Material: Nylon 6/6, RMS-74
Color: Natural

Part No.	"A" Ref.	"B" Ref.	"C"	"D" Holding Dia.	Standard Pack
PKKL-3	1.02 (26.0)	.94 (23.9)	.67 (17.0)	.37 (9.4)	200
PKKL-3S	.83 (21.0)	.84 (21.3)	.75 (19.2)	.31 (7.9)	
PKKL-4	1.19 (30.3)	1.26 (32.0)	.76 (19.4)	.53 (13.5)	100

AKKL Adjustable Kwik Klip



Features

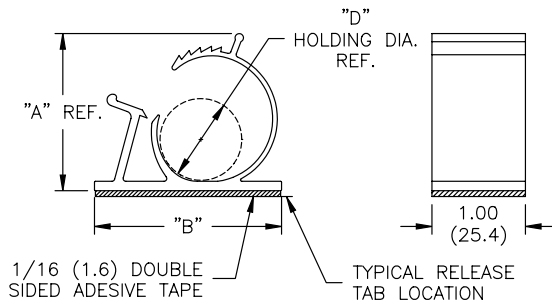
- Locks securely and can be easily reopened for routing changes
- Adjustable to various diameters

Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19; Adhesive Back, RMS-15*
Color: Natural

Part No.				Standard Pack: 100 pieces				
Nylon w/o Tape	Nylon w/Tape	V-0 Nylon w/o Tape	V-0 Nylon w/Tape	Bundle Dia. Range Ref.	"A" ± .015 (0.4)	"B" ± .015 (0.4)	"C" Ref.	"D"
AKKL-2140-01	AKKL-2140-A-RT*	AKKL-2140-19	AKKL-2140-A-RT-19*	.215-.258 (5.5-6.5)	.87 (22.0)	.669 (17.0)	.708 (18.0)	.39 (10.0)
AKKL-3140-01	AKKL-3140-A-RT	AKKL-3140-19	AKKL-3140-A-RT-19	.312-.406 (7.9-10.3)	1.0 (25.4)	.750 (19.1)	.866 (22.0)	.40 (10.2)
AKKL-4756-01	AKKL-4756-A-RT	AKKL-4756-19	AKKL-4756-A-RT-19	.469-.562 (11.9-14.3)	1.25 (31.8)		1.09 (27.7)	
AKKL-5775-01	AKKL-5775-A-RT	AKKL-5775-19	AKKL-5775-A-RT-19	.578-.750 (14.7-19.1)	1.50 (38.1)	1.0 (25.4)	1.25 (31.8)	.50 (12.7)
AKKL-8710-01	AKKL-8710-A-RT	AKKL-8710-19	AKKL-8710-A-RT-19	.875-1.00 (22.2-25.4)	2.0 (50.8)		1.75 (44.5)	

*AKKL-2140 available with Rubber Adhesive Tape (RMS-136) only.

EAKKL Extruded Adjustable Kwik Klip



Material: Rigid PVC, RMS-04 • Adhesive Back: RMS-15
Color: Gray

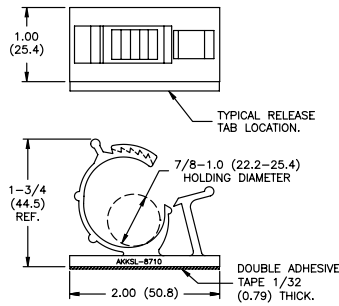
Part No.	Standard Pack: 100 per bag		
	"D" Holding Dia. Ref.	"A" Ref.	"B"
EAKKL-5062A-RT	1/2 - 5/8 (12.7 - 15.9)	1.15 (29.2)	1-1/4 (31.8)
EAKKL-8710A-RT	7/8 - 1 (22.2 - 25.4)	1.62 (41.1)	2 (50.8)
EAKKL-10112A-RT	1 - 1-1/8 (25.4 - 28.6)	2.05 (52.1)	2-1/2 (63.5)

Custom lengths available by special order.

WIRE ROUTING, CLIPS & CLAMPS

AKKSL

Adjustable Kwik Klip Side Lock



Features

- Side lock prevents clip from sliding open

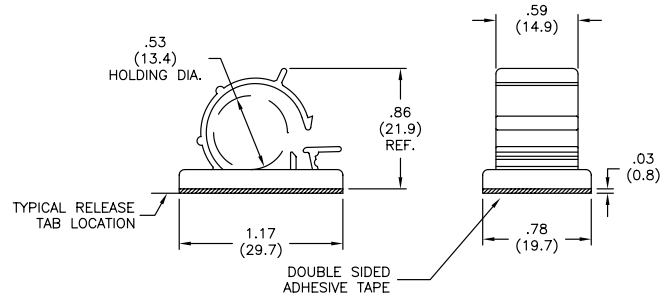
Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15
Color: Natural

Part No.	Standard Pack: 100 per bag
	Description
AKKSL-8710A-RT	W/ Adhesive Tape
AKKSL-8710-01	Without Tape

Flame Retardant Nylon, RMS-19 available by special order. To order replace the -01 with -19.

KKLE-13M-01A-RT

Kwik Klip LE

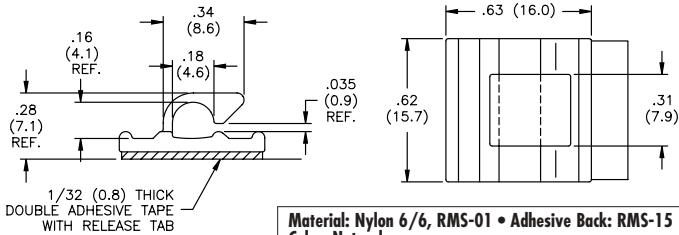


Material: Nylon 6/6, RMS-01
Adhesive Back: RMS-15
Color: Natural

Standard Pack: 1000 per bag
Flame Retardant Nylon, RMS-19 available by special order. To order replace the -01 with -19.

WCK-180

Wire Cord Klip



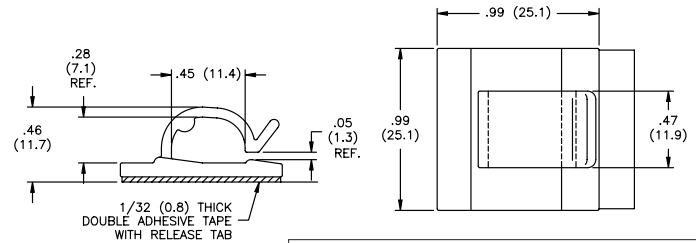
Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15
Color: Natural

Part No.	Standard Pack: 1000 per bag
	Description
WCK-180-01A-RT	W/Tape
WCK-180-01	W/O Tape

Part No. WCK-180-01A1-RT with Double Sided Adhesive Rubber Tape (RMS-102) available by special order.
Flame Retardant Nylon, RMS-19 available by special order. To order replace the -01 with -19.

WCK-460

Wire Cord Klip



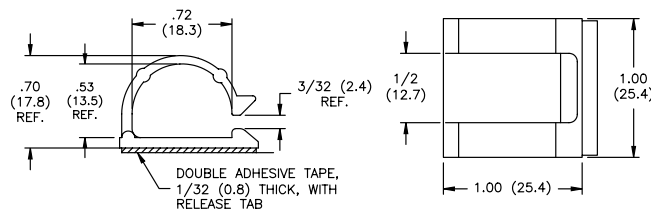
Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15
Color: Natural

Part No.	Standard Pack: 1000 per bag
	Description
WCK-460-01A-RT	W/Tape
WCK-460-01	W/O Tape

Part No. WCK-460-01A1-RT with Double Sided Adhesive Rubber Tape (RMS-102) available by special order.
Flame Retardant Nylon, RMS-19 available by special order. To order replace the -01 with -19.

WCK-720

Wire Cord Klip



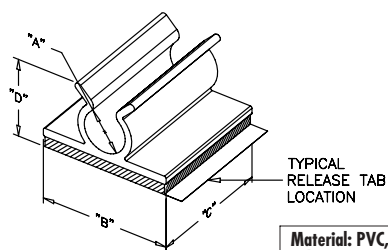
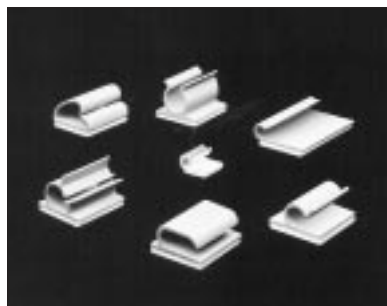
Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15
Color: Natural

Part No.	Standard Pack: 1000 per bag
	Description
WCK-720-01A-RT	W/Tape
WCK-720-01	W/O Tape

Part No. WCK-720-01A1-RT with double sided adhesive rubber tape (RMS-102) by special order.
Flame Retardant Nylon, RMS-19 available by special order. To order replace the -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

KKU Kwik Klip Type "U"

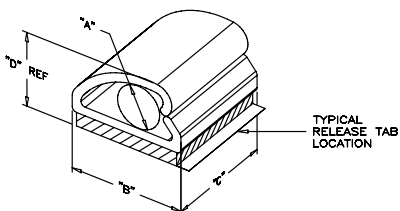


Material: PVC, RMS-04 • Adhesive Back, 1/16" (1.59mm) thick, RMS-15
Color: Gray

Part No.	Holding Capacity "A"	"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.	Standard Pack
KKU-2-RT	1/8 (3.2)	3/4 (19.1)	3/4 (19.1)	9/32 (7.1)	500
KKU-4-RT	1/4 (6.4)			15/32 (11.9)	
KKU-6-RT	3/8 (9.5)			19/32 (15.1)	
KKU-8-RT	1/2 (12.7)	1 (25.4)	1 (25.4)	11/16 (17.5)	100
KKU-9-RT	9/16 (14.3)			3/4 (19.1)	
KKU-12-RT	3/4 (19.1)			29/32 (23.0)	

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

KKD Kwik Klip Type "D"

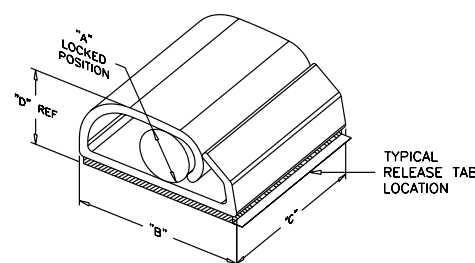


Material: PVC, RMS-04 • Adhesive Back, 1/16" (.4mm) thick, RMS-15
Color: Gray

Part No.	Holding Capacity "A"	"B" ±.02 (0.5)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.	Standard Pack
KKD-4-RT	1/4 (6.4)	1/2 (12.7)	1/2 (12.7)	.40 (10.2)	500
KKD-8-RT	1/2 (12.7)	3/4 (19.1)	3/4 (19.1)	.73 (18.5)	
KKD-12-RT	3/4 (19.1)	1 - 1/8 (28.6)	1 (25.4)	1.02 (25.9)	
KKD-16-RT	1 (25.4)	1 - 1/2 (38.1)	1 - 1/4 (31.8)	1.30 (33.0)	

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

KKDL Kwik Klip Type "DL" - Locking



Material: PVC, RMS-04 • Adhesive Back, 1/16" (.4mm) thick, RMS-15
Color: Gray

Part No.	Holding Capacity "A"	"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.	Standard Pack per bag
KKDL-4-RT	1/8 (3.2)	1/2 (12.7)	1/2 (12.7)	.28 (7.1)	500
KKDL-8-RT	7/32 (5.6)	3/4 (19.1)	3/4 (19.1)	.43 (10.9)	100

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

KKL Kwik Klip Type "L" - Locking

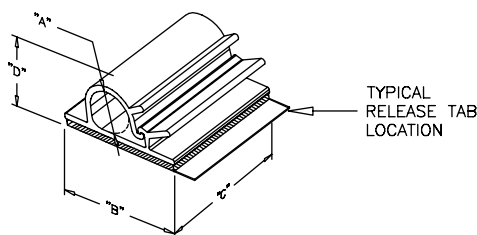


Fig. 1

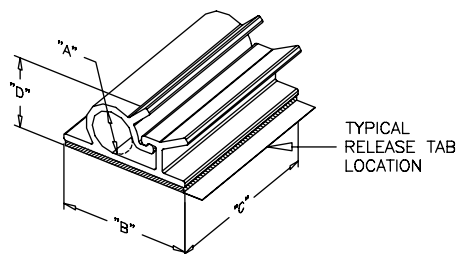


Fig. 2

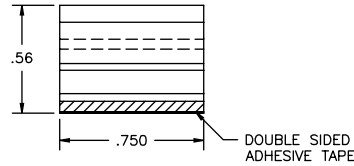
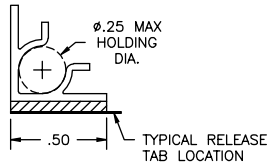
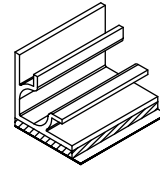
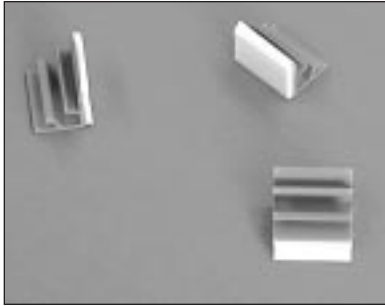
Material: PVC, RMS-04 • Adhesive Back, 1/16" (.4mm) thick, RMS-15
Color: Gray

Part No.	Holding Capacity "A"	"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.	Fig. No.	Standard Pack
KKL-4-RT	1/4 (6.4)	3/4 (19.1)	3/4 (19.1)	9/16 (14.3)	1	500
KKL-8-RT	1/2 (12.7)	1 (25.4)	1 (25.4)	27/32 (21.4)	2	
KKL-12-RT	3/4 (19.1)			1 (25.4)		

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

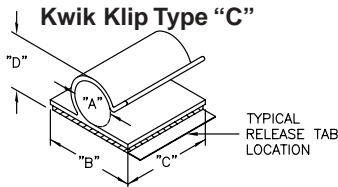
WIRE ROUTING, CLIPS & CLAMPS

KKK-4-RT Kwik Korner Klip



Material: PVC, RMS-04 • Adhesive Back, 1/16" (1.6mm) thick, RMS-15 • Color: Gray
Standard Pack: 1000 per bag
 Also available in clear PVC, RMS-32 by special order. Custom lengths available by special order.

KKC Kwik Klip Type "C"

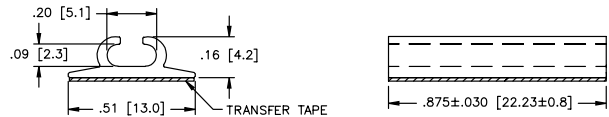
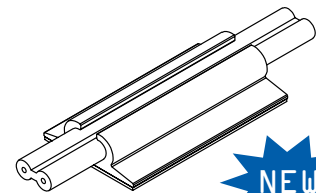
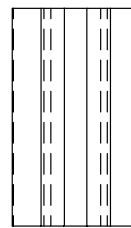


Material: PVC, RMS-04 • Adhesive Back, 1/16" (1.6mm) thick, RMS-15 Color: Gray

Part No.	Holding Capacity "A"	"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.	Standard Pack
KKC-2-RT	1/8 (3.2)	3/4 (19.1)	3/4 (19.1)	.31 (7.9)	500
KKC-3-RT	3/16 (4.8)			.33 (8.4)	
KKC-4-RT	1/4 (6.4)			.42 (10.7)	
KKC-5-RT	5/16 (7.9)			.48 (12.2)	
KKC-6-RT	3/8 (9.5)			.60 (15.2)	
KKC-8-RT	1/2 (12.7)	1 (25.4)	1 (25.4)	.69 (17.5)	100
KKC-12-RT	3/4 (19.1)			.94 (23.9)	

Also available in clear PVC, RMS-32 by special order. Custom lengths available by special order.

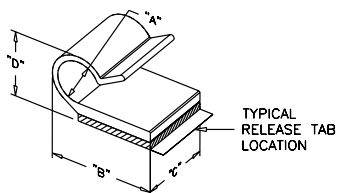
KKCD-1.5 Kwik Klip Type "C", Double



Features:
 • Holding area of .09 by .20 (2.29mm - 5.08mm)

Material: Soft Vinyl, RMS-83 • Color: Clear
Standard Pack: 1000 per bag
 Custom lengths available by special order.

MKKJ Micro Kwik Klip Type "J"

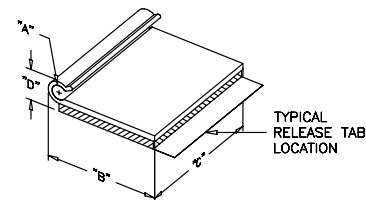


Material: Rigid PVC, RMS-32 • Adhesive Back, 1/32" (.8mm) thick, RMS-15 Color: Clear

Part No.	Holding Capacity "A"	Standard Pack: 1000 per bag		
		"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.
MKKJ-2-RT	1/8 (3.2)	7/16 (11.1)	3/8 (9.5)	15/64 (6.0)
MKKJ-3-RT	3/16 (4.8)	5/8 (15.9)	7/16 (11.1)	21/64 (8.3)
MKKJ-4-RT	1/4 (6.4)	21/32 (16.7)	1/2 (12.7)	13/32 (10.3)
MKKJ-5-RT	5/16 (7.9)	13/16 (20.6)	9/16 (14.3)	31/64 (12.3)
MKKJ-6-RT	3/8 (9.5)	7/8 (22.2)	5/8 (15.9)	9/64 (14.3)

Custom lengths available by special order.

KKJ Kwik Klip Type "J"



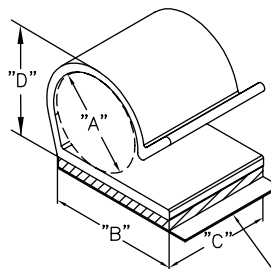
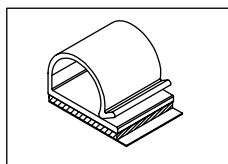
Material: PVC, RMS-04 • Adhesive Back, 1/16" (1.6mm) thick, RMS-15 Color: Gray

Part No.	Holding Capacity "A"	Standard Pack: 500 per bag		
		"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.
KKJ-2-RT	1/8 (3.2)	27/32 (21.4)	1 (25.4)	1/4 (6.4)
KKJ-3-RT	3/16 (4.8)	7/8 (22.2)	1 - 1/4 (31.8)	5/16 (7.9)
KKJ-4-RT	1/4 (6.4)	29/32 (23.0)	1 - 1/2 (38.1)	13/32 (10.3)
KKJ-5-RT	5/16 (7.9)	1 - 7/32 (31.0)	1 - 3/4 (44.5)	7/16 (11.1)
KKJ-6-RT	3/8 (9.5)	1 - 9/32 (32.5)	2 (50.8)	17/32 (13.5)

Also available in clear PVC, RMS-32 by special order. Custom lengths available by special order.

WIRE ROUTING, CLIPS & CLAMPS

KKR Kwik-Klip, Type "R"

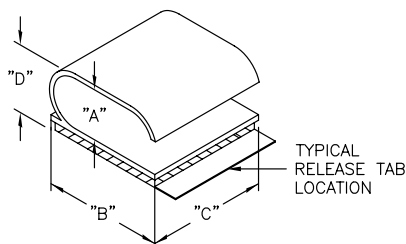


TYPICAL RELEASE
TAB LOCATION

Material: Rigid PVC, RMS-04 • Color: Gray					
Part No.	Holding Capacity "A"	Standard Pack: 500 per bag			Double Sided Adhesive Tape 1/16" thick
		"B" ±.020 (0.5)	"C" ±.020 (0.5)	"D" at Max. Capacity Ref.	
KKR-5A1-RT	.521 (13.2)	.750 (19.1)	.625 (15.9)	.680 (17.3)	Rubber, RMS-102

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

KKF-10X4-RT Kwik Klip Type "F"



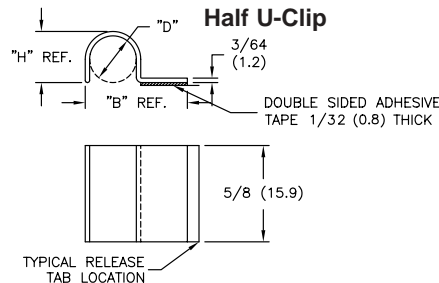
Features:

- Made especially to hold 3 wire cords, e.g., air conditioner leads

Material: PVC, RMS-04 • Adhesive Back, 1/16" (.4mm) thick, RMS-15 Color: Gray				
Part No.	Holding Capacity "A"	Standard Pack: 100 per bag		
		"B" ±.015 (0.4)	"C" ±.02 (0.5)	"D" At Max Capacity Ref.
KKF-10X4-RT	9/16 x 13/64 (14.3 x 5.2)	3/4 (19.1)	3/4 (19.1)	23/64 (9.1)

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

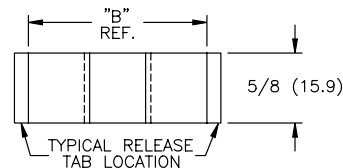
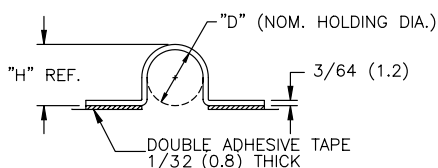
HUC Half U-Clip



Material: PVC, RMS-04 • Adhesive Back: RMS-15 • Color: Black			
Part No.	Standard Pack: 1000 per bag		
	"D" Bundle Dia.	"B"	"H"
HUC-2-RT	1/8 (3.2)	23/32 (18.3)	11/64 (4.4)
HUC-4-RT	1/4 (6.4)	27/32 (21.4)	19/64 (7.5)
HUC-6-RT	3/8 (9.5)	31/32 (24.6)	27/64 (10.7)
HUC-8-RT	1/2 (12.7)	1 - 3/32 (27.8)	35/64 (13.9)

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

UC U-Clip



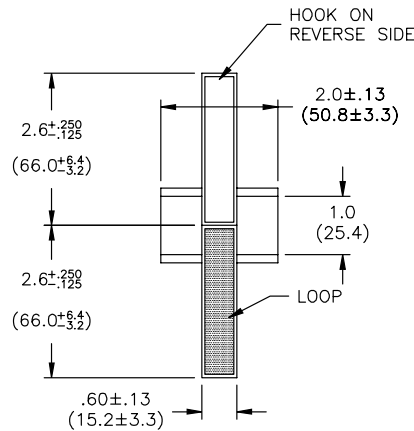
Material: PVC, RMS-04 • Adhesive Back: RMS-15 • Color: Black			
Part No.	Standard Pack: 1000 per bag		
	"D" Bundle Dia.	"B"	"H"
UC-2-RT	1/8 (3.2)	1 - 7/32 (30.9)	11/64 (4.4)
UC-4-RT	1/4 (6.4)	1 - 11/32 (34.1)	19/64 (7.5)
UC-6-RT	3/8 (9.5)	1 - 15/32 (37.3)	27/64 (10.7)
UC-8-RT	1/2 (12.7)	1 - 19/32 (40.4)	35/64 (13.9)

Also available in clear PVC, RMS-32 by special order.
Custom lengths available by special order.

WIRE ROUTING, CLIPS & CLAMPS

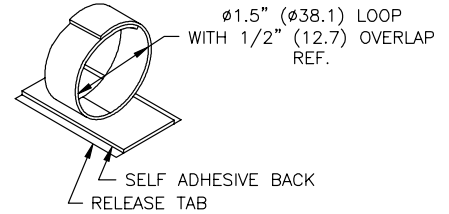
RKWB

Richco Kwik Wrap on Base



Features

- Accommodates a wide variety of diameters
- Releasable



Material: Low Density Polyethylene Hook • Nylon Knit Loop
Color: Black

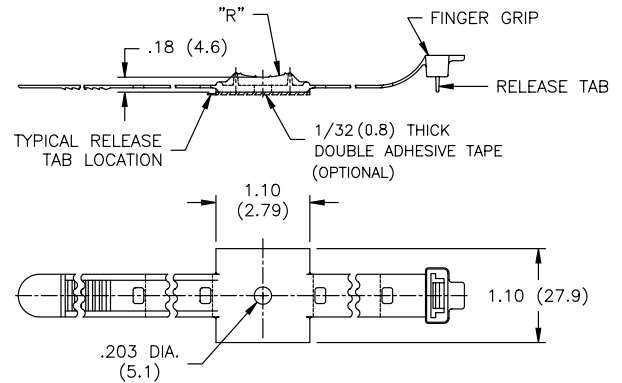
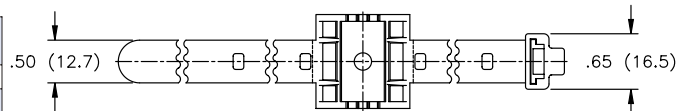
Standard Pack: 100 per bag

UMS

Universal Mounting Strap



Richco Rivet No.	Panel Thickness Range
SR-5045	0.000 to 0.018
SR-5055	0.018 to 0.058
SR-5065	0.058 to 0.097
SR-5075	0.097 to 0.137
SR-5085	0.137 to 0.176
SR-5095	0.176 to 0.215
SR-5105	0.215 to 0.255



Features

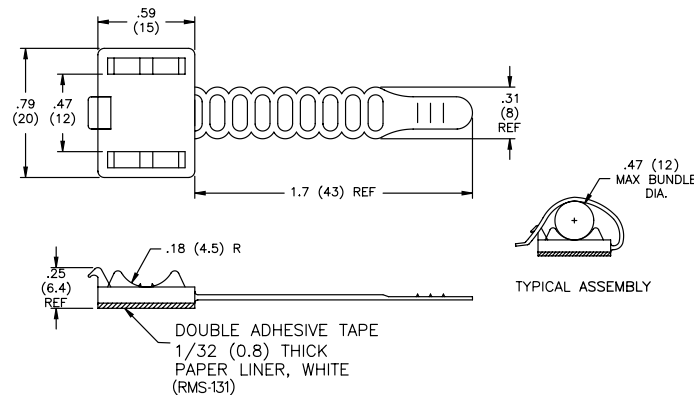
- Fastens with a #8 or #10 screw, rivet (see chart) or optional 2 adhesive tape (RMS-15)

Material: Nylon 6/6, RMS-45 • **Color:** Black

Part No. W/O Tape	Part No. W/ Tape	Standard Pack: 100		
		Maximum Bundle Dia.	Max. Loop Tensile (lbs.)	Radius "R"
UMS-16-45	UMS-16-45A-RT	1 (25.4)	50	1/2 (12.7)
UMS-24-45	UMS-24-45A-RT	1 - 1/2 (38.1)		3/4 (19.1)
UMS-32-45	UMS-32-45A-RT	2 (50.8)		1 (25.4)

LTOB-1

Ladder Tie On Base



Features

- Releasable

Material: Nylon 6, RMS-122 • **Color:** Black

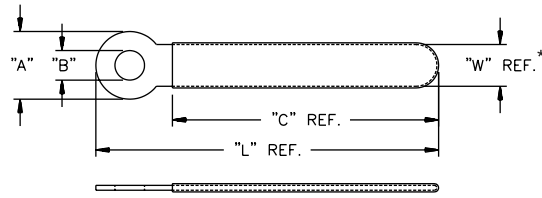
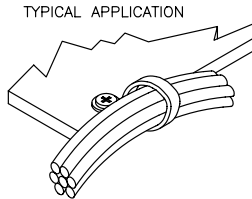
Standard Pack: 100 per bag

WIRE ROUTING, CLIPS & CLAMPS

VCC Vinyl Coated Clamp

Features

- Bends and forms to desired shape for varying holding diameters
- Flexible material allows for easy closing and re-opening



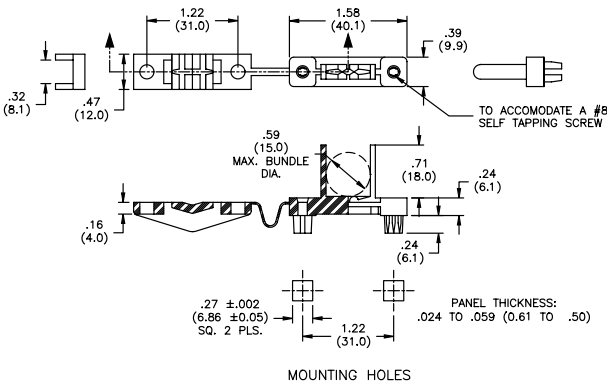
* Minimum drip is allowed at the tip of the part

Material: Body - Steel, Dead Soft .020 (0.5mm) thick • Coating - Soft Black PVC .032 (0.8mm) thick • Color: Black

Part Number	Length "L"	"C"	"A"	"B"	"W"	Approx. Bundle Dia.	Standard Pack
VCC-83028	1.10 (27.9)	.71 (18.0)	.32 (8.1)	.12 (3.0)	.12 (3.0)	.22 (5.7)	1000
VCC-83534	1.34 (34.0)	.94 (23.9)		.16 (4.1)	.16 (4.1)	.30 (7.6)	
VCC-83535	1.37 (34.8)	.98 (24.9)		.14 (3.5)	.20 (5.1)	.31 (7.9)	
VCC-83540	1.57 (39.9)	1.18 (30.0)	.24 (6.1)	.12 (3.0)	.08 (2.0)	.50 (12.7)	
VCC-63048	1.89 (48.0)	1.57 (39.9)		.18 (4.5)	.19 (4.8)	.52 (13.3)	
VCC-84554	2.13 (54.1)	1.81 (46.0)	.24 (6.1)	.13 (3.2)	.14 (3.6)	.57 (14.6)	
VCC-83664	2.52 (64.0)	2.09 (53.1)	.32 (8.1)	.16 (4.1)	.20 (5.1)	.66 (16.9)	
VCC-84576	2.99 (75.9)	2.56 (65.0)		.18 (4.5)	.18 (4.5)	.81 (20.7)	
VCC-84584	3.31 (84.1)	2.83 (71.9)		.18 (4.5)	.18 (4.5)	.90 (22.9)	
VCC-845126	4.96 (126.0)	4.41 (112.0)		.24 (6.1)	1.40 (35.6)	100	

V-0 PVC coating available by special order.

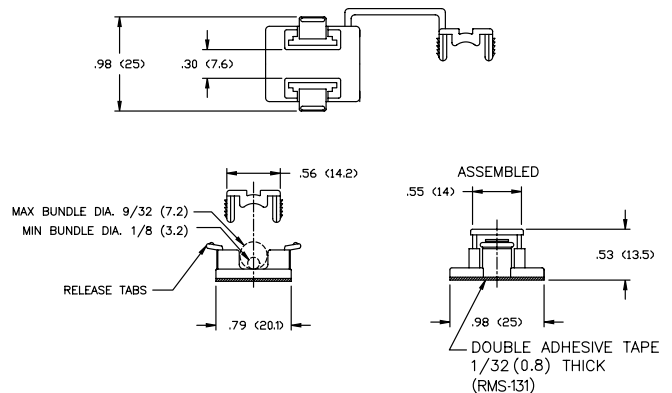
HMCC-1-01 Hinged Main Cable Clamp



Note:
#8 self-tapping screws are required for installation

Material: Nylon 6/6, RMS-01
Color: Natural
Standard Pack: 1000 per bag

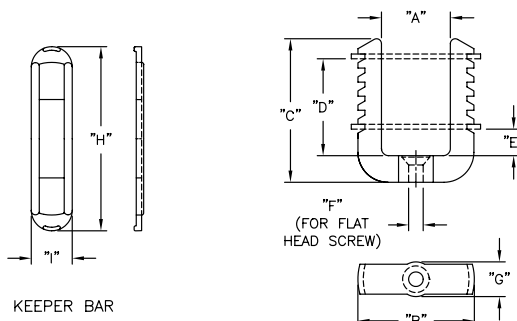
RC-1 Ratchet Clamp



Material: Nylon 6/6, RMS-122 • Color: Black
Standard Pack: 100 per bag

Features
• Releasable

D-Clamp D-Clamp



Features

- Mounts with a 3/16" flat-head machine screw or bolt.
- Removable keeper bar
- Adjustable holding capacity

Material: Nylon 6/6, RMS-01 • Color: Natural

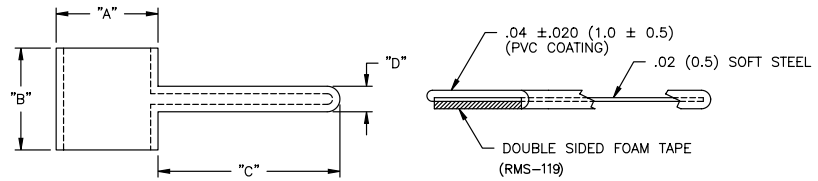
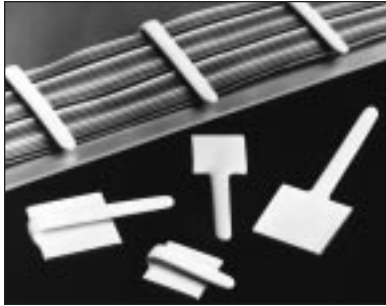
Part No.	Standard Pack: 100 per bag								
	"A" Ref.	"B" Ref.	"C" Ref.	"D" Ref.	"E" Ref.	"F" Ref.	"G" Ref.	"H" Ref.	"I" Ref.
D-1	.990 (25.1)	1.530 (38.9)	1.72 (43.7)	1.25 (31.8)	.50 (12.7)	.200 (5.1)	.40 (10.2)	1.86 (47.2)	.56 (14.2)
D-1.5	1.457 (37.0)	2.175 (55.3)	2.23 (56.6)	1.65 (41.9)	.66 (16.8)	.200 (5.1)	.46 (11.7)	2.47 (62.7)	.70 (17.8)

Part available in V-0 material by special order. To order, add -19 to end of part number.

WIRE ROUTING, CLIPS & CLAMPS

PCC

Plastic Coated Clamp



Features

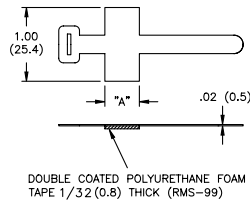
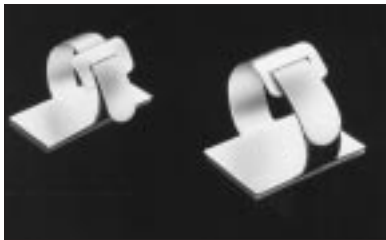
- PVC coating protects and insulates wires and components
- Flexible arm holds flat, round or oddly shaped components

Material: PVC Coating on Soft Steel; PVC - RMS-118
Color: White

Part No.	Standard Pack: 200 per bag			
	"A" Ref.	"B" ±.020 (0.5)	"C" Ref.	"D" Ref.
PCC-5	.31 (7.9)	.31 (7.9)	.59 (15.0)	.08 (2.0)
PCC-9	.55 (14.0)	.55 (14.0)	.98 (24.9)	.14 (3.6)
PCC-12	.75 (19.1)	.75 (19.1)	1.58 (40.1)	.16 (4.1)

ABK

Aluminum Buckle Klip



Features

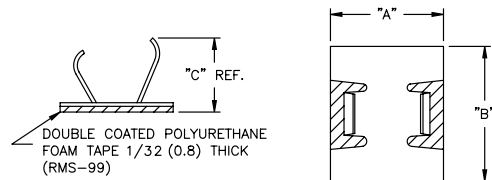
- Locks securely around load
- Soft aluminum can be flexed several times without breaking

Material: Aluminum; Bright Finish
Color: Silver

Part No.	Standard Pack: 250 per box	
	"A"	Max Bundle Dia.
ABK-05	.47 (11.9)	1/2 (12.7)
ABK-06	.64 (16.3)	3/4 (19.1)

ASK

Aluminum Sticky Klip

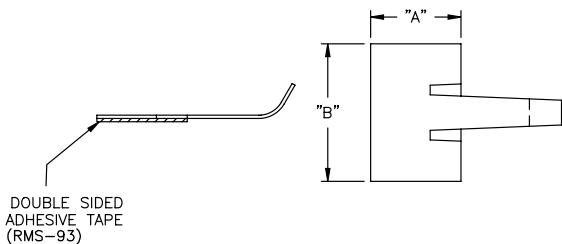


Material: Aluminum; Bright Finish • **Color:** Silver

Part No.	Standard Pack: 250 per box			
	"A"	"B"	"C"	Max Bundle Dia.
ASK-3	.42 (10.7)	.62 (15.7)	3/8 (9.5)	15/64 (6.0)
ASK-6	.62 (15.7)	.74 (18.8)	9/16 (14.3)	3/8 (9.5)

RAK

Aluminum Clamp

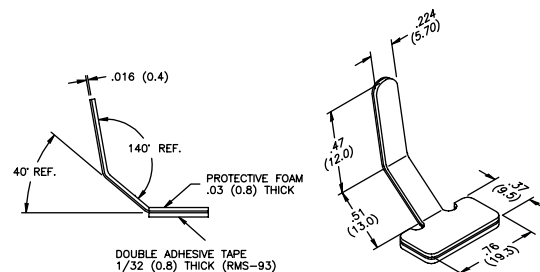


Material: Aluminum; Bright Finish
Color: Silver

Part No.	Standard Pack: 250 per box		
	"A"	"B"	Max Bundle Dia.
RAK-1	.44 (11.2)	.67 (17.0)	.23 (5.8)
RAK-2	.64 (16.3)	.76 (19.3)	.38 (9.7)

PFC-25M

Plastic Foam Coated Clip



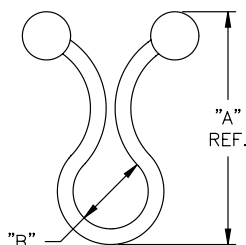
Material: Aluminum, Gray coated • **Color:** Gray
Standard Pack: 1000 per bag

WIRE ROUTING, CLIPS & CLAMPS

TL Twist-Lok



• UL #E71558



Material: Nylon 6/6, RMS-01
Color: Natural

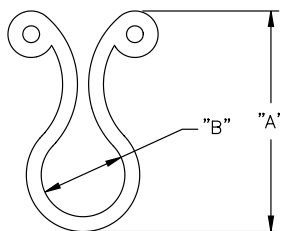
Part No.	Standard Pack: 1000 per bag	
	"A" Ref. Approximate Overall Height	"B" Ref. Wire Bundle
TL-250	.90 (22.9)	.20 (5.1) - .30 (7.6)
TL-350	1.03 (26.2)	.30 (7.6) - .40 (10.2)
TL-450	1.20 (30.5)	.40 (10.2) - .50 (12.7)
TL-600	1.33 (33.8)	.55 (14.0) - .65 (16.5)
TL-750	1.55 (39.4)	.70 (17.8) - .80 (20.3)
TL-950	1.70 (43.2)	MAX 1.00 (25.4)
TL-1125	2.19 (55.6)	MAX 1 - 3/16 (30.2)
TL-1375	2.68 (68.1)	MAX 1 - 7/16 (36.5)
TL-1500	2.93 (74.4)	MAX 1 - 9/16 (39.7)
TL-1750	3.45 (87.6)	MAX 1 - 13/16 (46.0)

Other colors available by special order
Flame Retardant Nylon, RMS-19 available by special order. To order, add -19.

KL Kurly Lok



• UL #E71558



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag	
	"A" Approximate Height	"B" Wire Bundle Dia.
KL-125	.48 (12.2)	± 1/16 (1.6)
KL-200	.82 (20.8)	.13 (3.2) - .15 (3.8)
KL-250	.82 (20.8)	.16 (4.1) - .24 (6.1)
KL-350	1.03 (26.2)	.20 (5.1) - .30 (7.6)
KL-450	1.20 (30.5)	.30 (7.6) - .40 (10.2)
KL-600	1.25 (31.8)	.40 (10.2) - .50 (12.7)
KL-750	1.52 (38.6)	.55 (14.0) - .65 (16.5)
KL-950	1.75 (44.5)	.70 (17.8) - .80 (20.3)

Other colors available by special order
Flame Retardant Nylon, RMS-19 available by special order. To order, add -19.

Features

- Rounded edges prevent abrasion

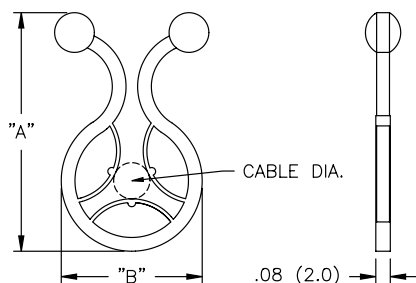
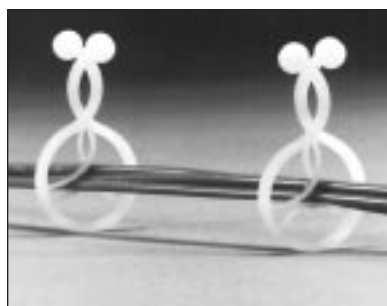
NOTE:

Hold up to 20 lbs tensile strength

WTL Webbed Twist Lok



• UL #E71558



Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 1000 per bag		
	"A" Ref.	"B" Ref.	Cable Dia
WTL-600	1.30 (33.0)	.77 (19.6)	.20 (5.1)
WTL-750	1.54 (39.1)	.91 (23.1)	.22 (5.6)

Flame Retardant Nylon, RMS-19 available by special order. To order, add -19.

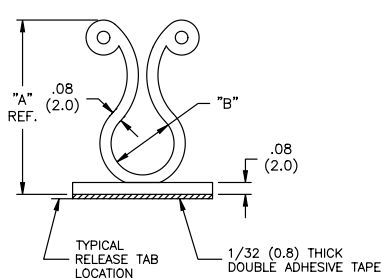
Features

- Web design provides self-centering and insulating grip of bundle

WIRE ROUTING, CLIPS & CLAMPS

KLB

Kurly Lock on Base



• UL #E71558

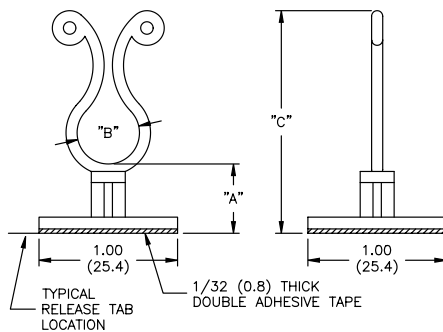
Material: Nylon 6/6, RMS-01 • **Adhesive Back:** RMS-15
Color: Natural

Part No.	Standard Pack: 1000 per bag	
	"A" Ref	"B" Bundle Dia Range
KLB-350A-RT	1.07 (27.2)	.30 (7.6) - .40 (10.2)
KLB-450A-RT	1.23 (31.2)	.40 (10.2) - .50 (12.7)
KLB-750A-RT	1.58 (40.1)	.70 (17.8) - .80 (20.3)

Flame Retardant Nylon, RMS-19 available by special order.
Available without adhesive - To order, remove A-RT.

KLBS

Kurly-Lok on Base, Stand-Off



• UL #E71558

Material: Nylon 6/6, RMS-01 • **Adhesive Back:** RMS-15
Color: Natural

Part No.	Standard Pack: 1000 per bag		
	Height "A"	"C" Ref.	"B" Bundle Dia.
KLBS350-4-01A-RT	1/4 (6.4)	1 - 9/32 (32.5)	.30 (7.6) - .40 (10.2)
KLBS350-8-01A-RT	1/2 (12.7)	1 - 17/32 (38.9)	
KLBS350-12-01A-RT	3/4 (19.1)	1 - 25/32 (45.2)	
KLBS350-16-01A-RT	1 (25.4)	2 - 1/32 (51.6)	.40 (10.2) - .50 (12.7)
KLBS450-4-01A-RT	1/4 (6.4)	1 - 15/32 (37.3)	
KLBS450-8-01A-RT	1/2 (12.7)	1 - 23/32 (43.7)	
KLBS450-12-01A-RT	3/4 (19.1)	1 - 31/32 (50.0)	
KLBS450-16-01A-RT	1 (25.4)	2 - 7/32 (56.4)	

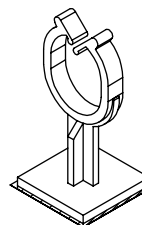
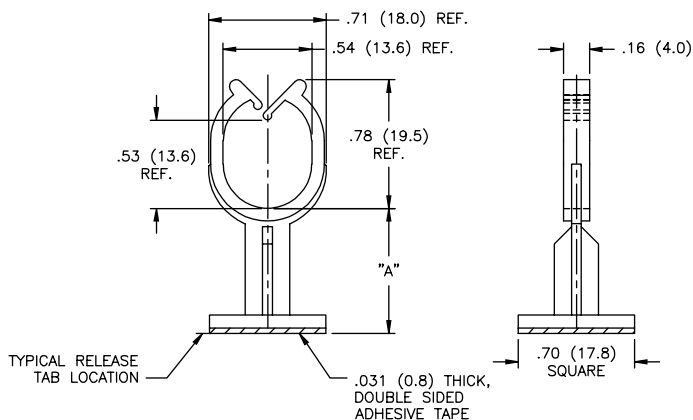
Flame Retardant Nylon, RMS-19 available by special order.
To order, replace -01 with -19.

Features

- Lifts wires off board to avoid hot components

SHKBS

Standoff Harness Clip on Adhesive Base



Material: Nylon 6/6, RMS-01; **Adhesive Back,** RMS-15 • **Color:** Natural

Part No.	Standard Pack: 1000
	"A"
SHKBS-4-01A-RT	.25 (6.4)
SHKBS-8-01A-RT	.50 (12.7)
SHKBS-12-01A-RT	.75 (19.1)
SHKBS-16-01A-RT	1.00 (25.4)

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

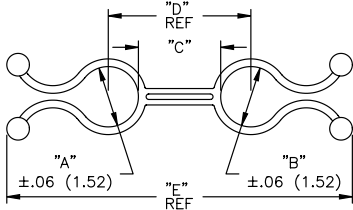
DTL Dual Twist Lok



• UL #E71558

NOTE:

Bundle diameters offered in any combination by special order.



PART NUMBER ORDER CODE

Note: i.e., DTL-2535-4-01

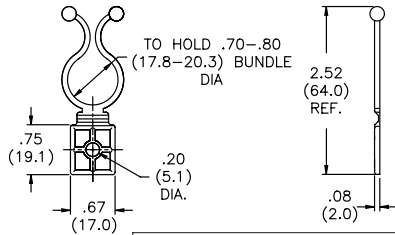
DTL	--	--	-	-
Description	1st Bundle	2nd Bundle	Spacing Height	Material

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 500 pieces				
	"A" Bundle Dia. Range	"B" Bundle Dia. Range	"C" Bundle to Bundle	"D" Ref. Center to Center	"E" Ref. Overall Length
DTL2525-4-01	.20 (5.1) - .30 (7.6)	.20 (5.1) - .30 (7.6)	1/4 (6.4)	1/2 (12.7)	1.92 (48.8)
DTL2525-12-01			3/4 (19.1)	1 (25.4)	2.42 (61.5)
DTL2525-20-01			1 - 1/4 (31.8)	1 - 1/2 (38.1)	2.92 (74.2)
DTL2525-28-01			1 - 3/4 (44.5)	2 (50.8)	3.42 (86.9)
DTL3535-4-01	.30 (7.6) - .40 (10.2)	.30 (7.6) - .40 (10.2)	1/4 (6.4)	.60 (15.2)	2.18 (55.4)
DTL3535-12-01			3/4 (19.1)	1.10 (27.9)	2.68 (68.1)
DTL3535-20-01			1 - 1/4 (31.8)	1.60 (40.6)	3.18 (80.8)
DTL3535-28-01			1 - 3/4 (44.5)	2.10 (53.3)	3.68 (93.5)
DTL4545-4-01	.40 (10.2) - .50 (12.7)	.40 (10.2) - .50 (12.7)	1/4 (6.4)	.70 (17.8)	2.42 (61.5)
DTL4545-12-01			3/4 (19.1)	1.20 (30.5)	2.92 (74.2)
DTL4545-20-01			1 - 1/4 (31.8)	1.70 (43.2)	3.42 (86.9)
DTL4545-28-01			1 - 3/4 (44.5)	2.20 (55.9)	3.92 (99.6)
DTL5555-4-01	.50 (12.7) - .60 (15.2)	.50 (12.7) - .60 (15.2)	1/4 (6.4)	.80 (20.3)	2.65 (67.3)
DTL5555-12-01			3/4 (19.1)	1.30 (33.0)	3.15 (80.0)
DTL5555-20-01			1 - 1/4 (31.8)	1.80 (45.7)	3.65 (92.7)
DTL5555-28-01			1 - 3/4 (44.5)	2.30 (58.4)	4.15 (105.4)
DTL6565-4-01	.60 (15.2) - .70 (17.8)	.60 (15.2) - .70 (17.8)	1/4 (6.4)	.90 (22.9)	2.88 (73.2)
DTL6565-12-01			3/4 (19.1)	1.40 (35.6)	3.38 (85.9)
DTL6565-20-01			1 - 1/4 (31.8)	1.90 (48.3)	3.88 (98.6)
DTL6565-28-01			1 - 3/4 (44.5)	2.40 (61.0)	4.38 (111.3)
DTL7575-4-01	.70 (17.8) - .80 (20.3)	.70 (17.8) - .80 (20.3)	1/4 (6.4)	1 (25.4)	3.10 (78.7)
DTL7575-12-01			3/4 (19.1)	1 - 1/2 (38.1)	3.60 (91.4)
DTL7575-20-01			1 - 1/4 (31.8)	2 (50.8)	4.10 (104.1)
DTL7575-28-01			1 - 3/4 (44.5)	2 - 1/2 (63.5)	4.60 (116.8)

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

TLHE-1-750-01 Twist Lok, Hinged



Material: Nylon 6/6, RMS-01
Color: Natural

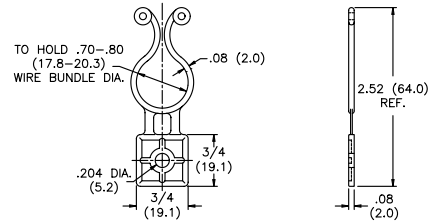
Standard Pack: 1000 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.

NOTE:

Mounts with a #8 (M4) screw or rivet

KLH-750-01 Kurly Lok, Hinged



Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.

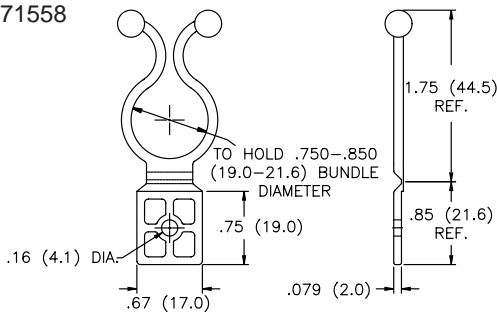
• UL #E71558

NOTE:

Mounts with a #8 (M4) screw or rivet

TLH-800-01

• UL #E71558



Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.

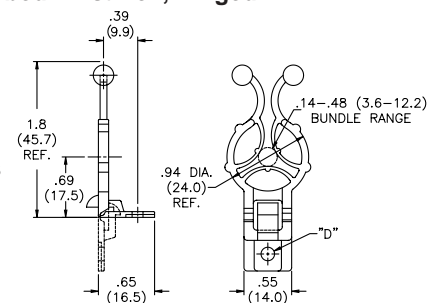
NOTE:

Mounts with a #6 (M6) screw or rivet

WTLH Webbed Twist-Lok, Hinged

Features

- Base and webbed twist lok snap lock at a 90° angle.
- Web design provides constant and self centering grip of bundle



Material: Nylon 6/6, RMS-01
Color: Natural

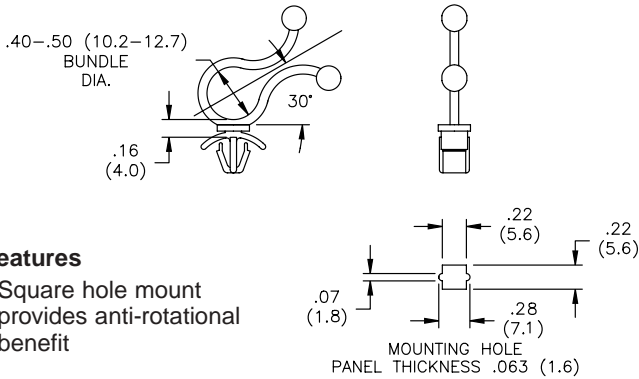
Standard Pack: 500 per bag

Part No.	Standard Pack: 500 per bag	
	Hole Dia. "D"	Recommended Screw Size
WTLH90-300-4-01	.13 (3.3)	#4 (M3)
WTLH90-300-6-01	.15 (3.8)	#6 (M3.5)
WTLH90-300-M4-01	.17 (4.3)	M4

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

TLSE-450-SH-01 Twist Lock Side Entry Square Hole



Features

- Square hole mount provides anti-rotational benefit

Material: Nylon 6/6, RMS-01
Color: Natural

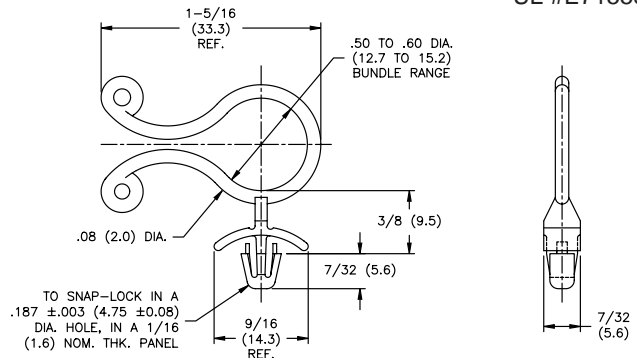
Standard Pack: 1000 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

SKLO-550-01 Stand-Off Kurly Lok



• UL #E71558



Material: Nylon 6/6, RMS-01
Color: Natural

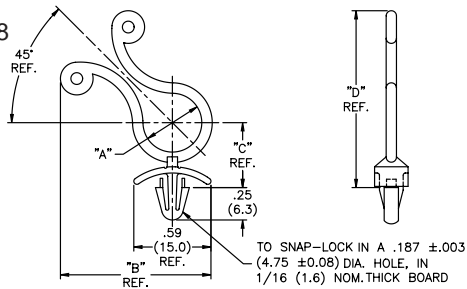
Standard Pack: 1000 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

SKL Stand-Off Kurly Lok



• UL #E71558



Material: Nylon 6/6, RMS-01, Color: Natural

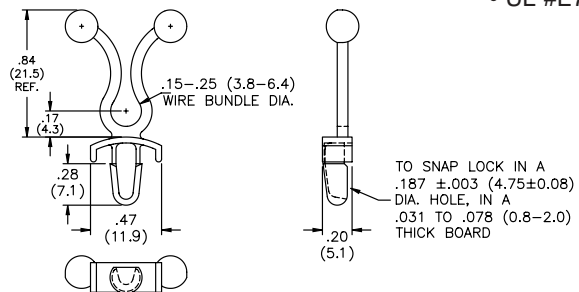
Part No.	Standard Pack: 1000 per bag			
	"A" Bundle Dia Range	"B"	"C" Ref.	"D" Ref.
SKL45-250	.15 (3.8) - .25 (6.4)	.98 (24.9)	.33 (8.4)	1.05 (26.7)
SKL45-350	.30 (7.6) - .40 (10.2)	1.07 (27.2)	.43 (10.9)	1.20 (30.5)
SKL45-450	.40 (10.2) - .47 (11.9)	1.12 (28.4)	.47 (11.9)	1.30 (33.0)

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

TLJ-200-01 Twist-Lock, Type "J"



• UL #E71558

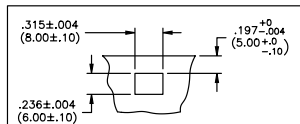
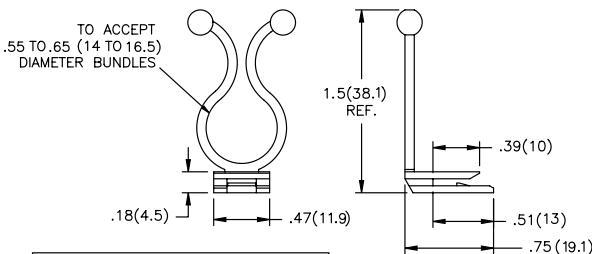


Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 500 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

STL-SME-01-600-01 Stand-Off Twist Lok - Saddle Mount



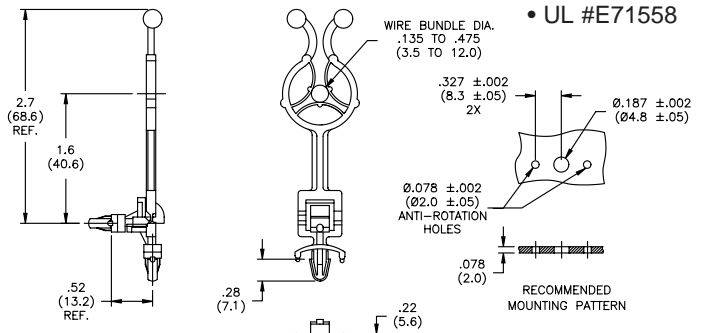
Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

TLHS90-300-01 Twist-Lock, Hinged, Stand-Off



• UL #E71558



Features

- Base and webbed twist lok snap-lock at a 90° angle

Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

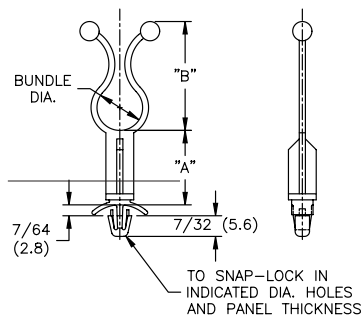
WIRE ROUTING, CLIPS & CLAMPS

STL

Standoff Twist Lok

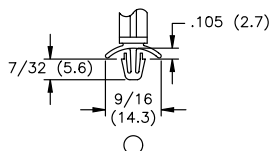


• UL #E71558



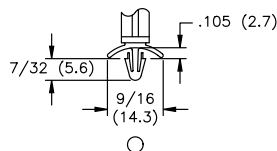
Features

- Lifts wires off board to avoid hot components
- STL-2 mounts into a square hole providing anti-rotational benefit



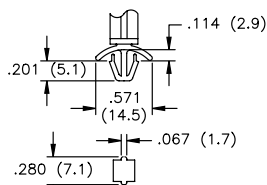
187 ±.003 (4.75 ±0.08) DIA. HOLE
.031 TO .078 (0.8 TO 2.0)
PANEL THICKNESS

STL



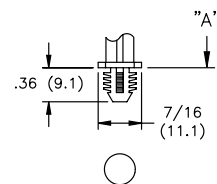
156 ±.003 (4.0 ±0.08) DIA. HOLE
.031 TO .078 (0.8 TO 2.0)
PANEL THICKNESS

STL-1



.280 (7.1)
.217 (5.5) SQ. HOLE
.031 TO .078 (0.8 TO 2.0)
PANEL THICKNESS

STL-2



TO PRESS-FIT IN A .312 (7.9)
DIA. HOLE IN A .25 (6.4)
MINIMUM PANEL THICKNESS

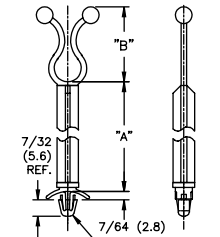
STL-3

Material: Nylon 6/6, RMS-01 Color: Natural				Standard Pack: 1000 per bag		
Part No.				"A"	"B" Ref.	Bundle Dia.
STL-250-3-01	STL-1-250-3-01	STL-2-250-3-01	STL-3-250-3-01	3/16 (4.8)	.75 (19.1)	.20 (5.1) - .30 (7.6)
STL-250-8-01	STL-1-250-8-01	STL-2-250-8-01	STL-3-250-8-01	1/2 (12.7)		
STL-250-12-01	STL-1-250-12-01	STL-2-250-12-01	STL-3-250-12-01	3/4 (19.1)		
STL-250-16-01	STL-1-250-16-01	STL-2-250-16-01	STL-3-250-16-01	1 (25.4)		
STL-250-20-01	STL-1-250-20-01	STL-2-250-20-01	STL-3-250-20-01	1-1/4 (31.8)	.91 (23.1)	.30 (7.6) - .40 (10.2)
STL-350-3-01	STL-1-350-3-01	STL-2-350-3-01	STL-3-350-3-01	3/16 (4.8)		
STL-350-8-01	STL-1-350-8-01	STL-2-350-8-01	STL-3-350-8-01	1/2 (12.7)		
STL-350-12-01	STL-1-350-12-01	STL-2-350-12-01	STL-3-350-12-01	3/4 (19.1)		
STL-350-16-01	STL-1-350-16-01	STL-2-350-16-01	STL-3-350-16-01	1 (25.4)	1.09 (27.7)	.40 (10.2) - .50 (12.7)
STL-350-20-01	STL-1-350-20-01	STL-2-350-20-01	STL-3-350-20-01	1-1/4 (31.8)		
STL-450-3-01	STL-1-450-3-01	STL-2-450-3-01	STL-3-450-3-01	3/16 (4.8)		
STL-450-8-01	STL-1-450-8-01	STL-2-450-8-01	STL-3-450-8-01	1/2 (12.7)		
STL-450-12-01	STL-1-450-12-01	STL-2-450-12-01	STL-3-450-12-01	3/4 (19.1)	1.28 (32.5)	.50 (12.7) - .60 (15.2)
STL-450-16-01	STL-1-450-16-01	STL-2-450-16-01	STL-3-450-16-01	1 (25.4)		
STL-450-20-01	STL-1-450-20-01	STL-2-450-20-01	STL-3-450-20-01	1-1/4 (31.8)		
STL-600-3-01	STL-1-600-3-01	STL-2-600-3-01	STL-3-600-3-01	3/16 (4.8)		
STL-600-8-01	STL-1-600-8-01	STL-2-600-8-01	STL-3-600-8-01	1/2 (12.7)	1.45 (36.8)	.70 (17.8) - .80 (20.3)
STL-600-12-01	STL-1-600-12-01	STL-2-600-12-01	STL-3-600-12-01	3/4 (19.1)		
STL-600-16-01	STL-1-600-16-01	STL-2-600-16-01	STL-3-600-16-01	1 (25.4)		
STL-600-20-01	STL-1-600-20-01	STL-2-600-20-01	STL-3-600-20-01	1-1/4 (31.8)		
STL-750-3-01	STL-1-750-3-01	STL-2-750-3-01	STL-3-750-3-01	3/16 (4.8)	1.45 (36.8)	.70 (17.8) - .80 (20.3)
STL-750-8-01	STL-1-750-8-01	STL-2-750-8-01	STL-3-750-8-01	1/2 (12.7)		
STL-750-12-01	STL-1-750-12-01	STL-2-750-12-01	STL-3-750-12-01	3/4 (19.1)		
STL-750-16-01	STL-1-750-16-01	STL-2-750-16-01	STL-3-750-16-01	1 (25.4)		
STL-750-20-01	STL-1-750-20-01	STL-2-750-20-01	STL-3-750-20-01	1-1/4 (31.8)		

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.
Metric standoff sizes are available by special order.

WIRE ROUTING, CLIPS & CLAMPS

STL-120/280 Standoff Twist Locks



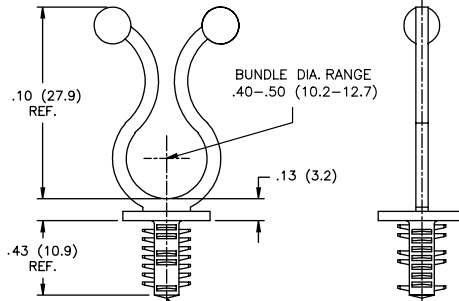
TO SNAP LOCK IN A .187±.003 (4.57±0.075) DIA. HOLE IN A .03-.08 (0.78-2.00) THICK PANEL.

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000		
	"A"	"B"	Bundle Dia.
STL-120-3-01	.19 (4.8)	.52 (13.1)	.07-.17 (1.8-4.3)
STL-120-8-01	.50 (12.7)		
STL-120-12-01	.75 (19.1)		
STL-120-16-01	1.00 (25.4)		
STL-120-20-01	1.25 (31.8)		
STL-280-3-01	.19 (4.8)	.85 (21.5)	.23-.33 (5.8-8.3)
STL-280-8-01	.50 (12.7)		
STL-280-12-01	.75 (19.1)		
STL-280-16-01	1.00 (25.4)		
STL-280-20-01	1.25 (31.8)		

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

STL-8-450-2-01 Standoff Twist Lok Blind Hole Fix



TO PRESS FIT IN A .250±.003 (6.35±0.075) DIA. HOLE IN A .28 (0.72) MIN. THICK BOARD

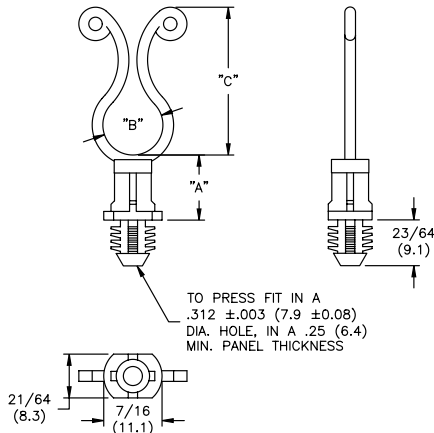
Material: Nylon 6/6, RMS-01 • Color: Natural

Standard Pack: 1000	
Flame Retardant Nylon available by special order. To order replace the -01 with -19.	

BHKL Blind Hole Kurly-Lok



• UL #E71558

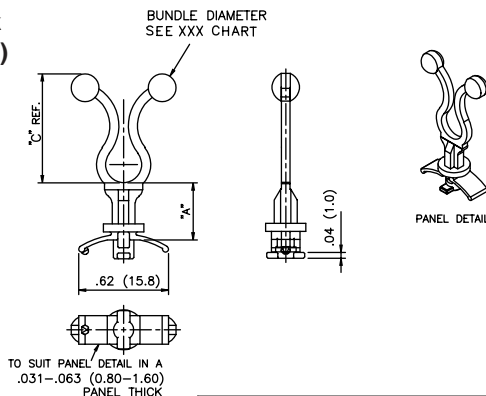
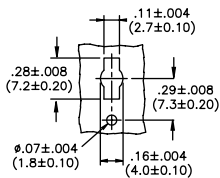


**Material: Nylon 6/6, RMS-01
Color: Natural**

Part No.	Standard Pack: 1000 per bag		
	"A"	"B" Bundle Dia. Range	"C" Ref
BHKL-350-4-01	1/4 (6.4)	.30 (7.6) - .40 (10.2)	1 (25.4)
BHKL-350-6-01	3/8 (9.5)		
BHKL-350-8-01	1/2 (12.7)		
BHKL-350-10-01	5/8 (15.9)	.40 (10.2) - .50 (12.7)	1 - 1/8 (28.6)
BHKL-450-4-01	1/4 (6.4)		
BHKL-450-6-01	3/8 (9.5)		
BHKL-450-8-01	1/2 (12.7)	.70 (17.8) - .80 (20.3)	1 - 1/2 (38.1)
BHKL-450-10-01	5/8 (15.9)		
BHKL-750-4-01	1/4 (6.4)		
BHKL-750-6-01	3/8 (9.5)		
BHKL-750-8-01	1/2 (12.7)		
BHKL-750-10-01	5/8 (15.9)		

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

STL-J9 Standoff Twist Lok (Quarter-Turn Base)



PANEL DETAIL

Features

- Easily removable by turning 90 degrees
- Low protrusion base, only 1mm below chassis

"XXX"	"C"	Bundle Dia.
-250	.75 (19.1)	.20-30 (5.1-7.6)
-350	.91 (23.1)	.30-.40 (7.6-10.2)
-450	1.09 (27.7)	.40-.50 (10.2-12.7)
-600	1.28 (32.5)	.50-.60 (12.7-15.2)

Part number example STL-J9-250-4M-01

Material: Nylon 6/6, RMS-01 • Color: Natural

Part Number XXX = Bundle Diameter	Standard Pack: 1000	
	"A"	
STL-J9-XXX-4M-01	.16 (4.0)	
STL-J9-XXX-6M-01	.24 (6.0)	
STL-J9-XXX-8M-01	.32 (8.0)	
STL-J9-XXX-10M-01	.39 (10.0)	
STL-J9-XXX-12M-01	.47 (12.0)	
STL-J9-XXX-14M-01	.55 (14.0)	
STL-J9-XXX-16M-01	.63 (16.0)	
STL-J9-XXX-18M-01	.71 (18.0)	
STL-J9-XXX-20M-01	.79 (20.0)	
STL-J9-XXX-22M-01	.87 (22.0)	
STL-J9-XXX-24M-01	.95 (24.0)	
STL-J9-XXX-26M-01	1.02 (26.0)	

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19

WIRE ROUTING, CLIPS & CLAMPS

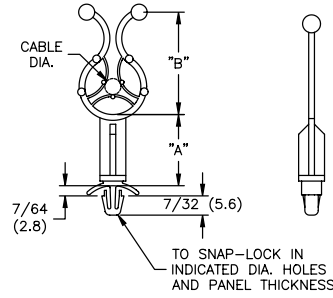
WSTL

Webbed Stand-Off Twist Lok - Metric

UL #E71558

Features

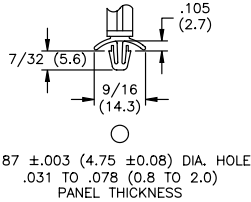
- Lifts wires off board to avoid hot components
- Web design provides constant and self centering grip of bundle
- WSTL-2 mounts into a square hole providing anti-rotational benefits



Material: Nylon 6/6, RMS-01 • Color: Natural

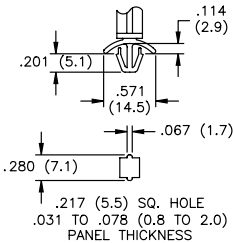
Part No.				Standard Pack: 1000 per bag		
				"A"	"B" Ref.	Cable dia.
WSTL-600-8-01	WSTL-1-600-8-01	WSTL-2-600-8-01	WSTL-3-600-8-01	1/2 (12.7)	1.18 (30.0)	.187 (4.7)
WSTL-600-12-01	WSTL-1-600-12-01	WSTL-2-600-12-01	WSTL-3-600-12-01	3/4 (19.1)		
WSTL-600-16-01	WSTL-1-600-16-01	WSTL-2-600-16-01	WSTL-3-600-16-01	1 (25.4)		
WSTL-600-20-01	WSTL-1-600-20-01	WSTL-2-600-20-01	WSTL-3-600-20-01	1 - 1/4 (31.8)		
WSTL-750-3-01	WSTL-1-750-3-01	WSTL-2-750-3-01	WSTL-3-750-3-01	3/16 (4.8)	1.36 (34.5)	.236 (6.0)
WSTL-750-8-01	WSTL-1-750-8-01	WSTL-2-750-8-01	WSTL-3-750-8-01	1/2 (12.7)		
WSTL-750-12-01	WSTL-1-750-12-01	WSTL-2-750-12-01	WSTL-3-750-12-01	3/4 (19.1)		

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.
Metric standoff sizes are available by special order.



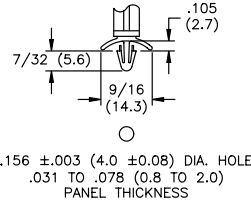
.187 ±.003 (4.75 ±0.08) DIA. HOLE
.031 TO .078 (0.8 TO 2.0) PANEL THICKNESS

WSTL



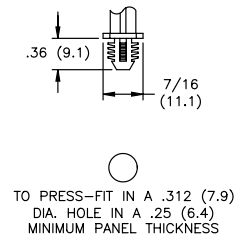
.217 (5.5) SQ. HOLE
.031 TO .078 (0.8 TO 2.0) PANEL THICKNESS

WSTL-2



.156 ±.003 (4.0 ±0.08) DIA. HOLE
.031 TO .078 (0.8 TO 2.0) PANEL THICKNESS

WSTL-1

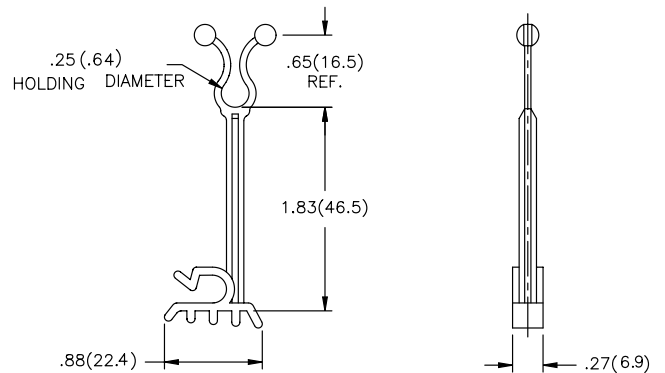


TO PRESS-FIT IN A .312 (7.9) DIA. HOLE IN A .25 (6.4) MINIMUM PANEL THICKNESS

WSTL-3

STLSC-250-46.5M-19

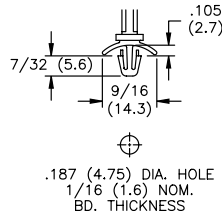
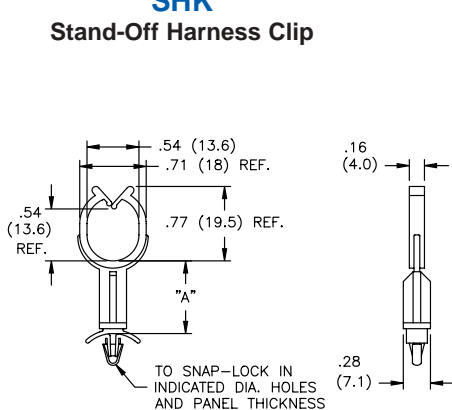
Standoff Twist Lock - Side Clip



Material: Nylon 6/6, RMS-19
Color: Natural

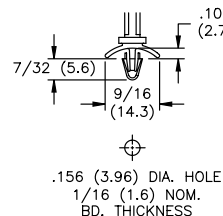
Standard Pack: 1000 per bag

SHK Stand-Off Harness Clip



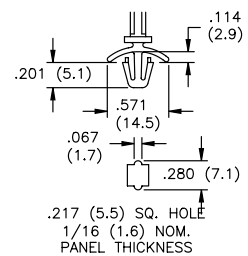
.187 (4.75) DIA. HOLE
1/16 (1.6) NOM. BD. THICKNESS

SHK



.156 (3.96) DIA. HOLE
1/16 (1.6) NOM. BD. THICKNESS

SHK-1



.217 (5.5) SQ. HOLE
1/16 (1.6) NOM. PANEL THICKNESS

SHK-2

Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.			Standard Pack: 1000 per bag	
			"A" ±.015 (0.4)	
SHK-6-01	SHK-1-6-01	SHK-2-6-01	3/8 (9.5)	
SHK-8-01	SHK-1-8-01	SHK-2-8-01	1/2 (12.7)	
SHK-12-01	SHK-1-12-01	SHK-2-12-01	3/4 (19.1)	
SHK-16-01	SHK-1-16-01	SHK-2-16-01	1 (25.4)	
SHK-20-01	SHK-1-20-01	SHK-2-20-01	1 - 1/4 (31.8)	

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.
Metric standoff sizes are available by special order.

Features

- Lifts wires off board to avoid hot components
- SHK-2 mounts into a square hole providing anti-rotational benefit

WIRE ROUTING, CLIPS & CLAMPS

SLCS

Stand-Off Lock Clip



• UL #E71558

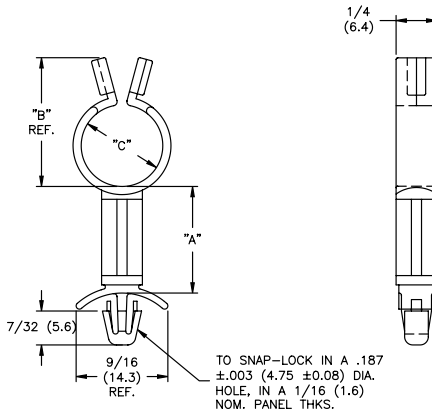


Features

- Lifts wires off board to avoid hot components
- Twist to lock; twist to open

PART NUMBER ORDER CODE

SLCS	500	-	8	-	01
Part No.	Size		Ht. Suffix		Material



Color: Natural	
Suffix	"A" ±.015 (0.4)
-3	3/16 (4.8)
-4	1/4 (6.4)
-6	3/8 (9.5)
-8	1/2 (12.7)
-10	5/8 (15.9)
-12	3/4 (19.1)
-14	7/8 (22.2)
-16	1 (25.4)

Material: Nylon 6/6, RMS-01 • Color: Natural		
Part No.	Standard Pack: 1000 per bag	
	"B"	Max Bundle Dia. "C" Locked
SLCS-250-A-01	.53 (13.5)	3/16 (4.8)
SLCS-370-A-01	.66 (16.8)	5/16 (7.9)
SLCS-500-A-01	.79 (20.1)	7/16 (11.1)
SLCS-750-A-01	1.04 (26.4)	11/16 (17.5)

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

SLCSE/SLCSE2

Stand-Off Lock Clip



• UL #E71558

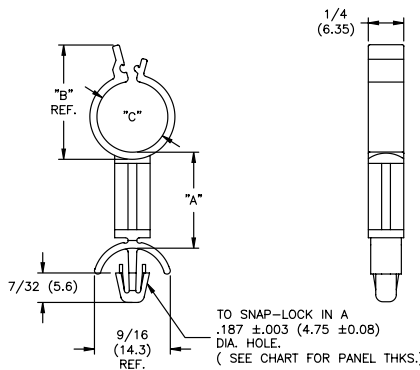


Features

- Lifts wires off board to avoid hot components
- Press to lock; twist to open

PART NUMBER ORDER CODE

SLCSE	500	-	8	-	01
Part No.	Size		Ht. Suffix		Material



Color: Natural	
Suffix (A)	"A" ±.015 (0.4)
-3	3/16 (4.8)
-4	1/4 (6.4)
-6	3/8 (9.5)
-8	1/2 (12.7)
-10	5/8 (15.9)
-12	3/4 (19.1)
-14	7/8 (22.2)
-16	1 (25.4)

Material: Nylon 6/6, RMS-01 • Color: Natural			
Part No.	"B"	Standard Pack: 1000 per bag	
		Board Thickness Range	Max. Bundle Dia. "C" Locked
SLCSE-250-A-01	.57 (14.5)	.031 (0.8) - .078 (2.0)	.22 (5.6)
SLCSE-370-A-01	.71 (18.0)		.35 (8.9)
SLCSE-500-A-01	.83 (21.1)		.47 (11.9)
SLCSE-750-A-01	1.08 (27.4)	.078 (2.0) - .160 (4.0)	.73 (18.5)
SLCSE2-250-A-01	.57 (14.5)		.22 (5.6)
SLCSE2-370-A-01	.71 (18.0)		.35 (8.9)
SLCSE2-500-A-01	.83 (21.1)		.47 (11.9)
SLCSE2-750-A-01	1.08 (27.4)		.73 (18.5)

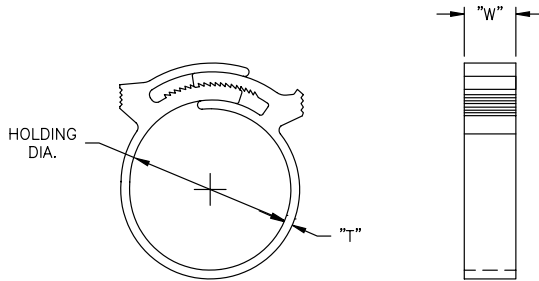
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

SHC Snap-It Hose Clamps



Patent No. 4,128,9128

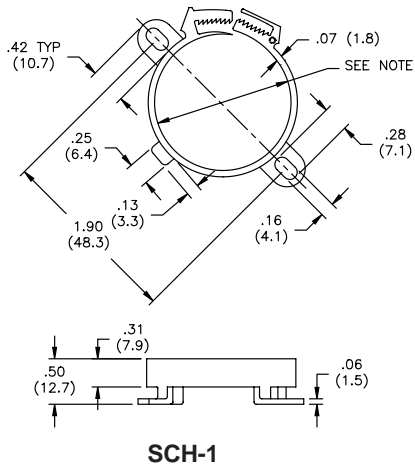


Material: Nylon 6/6, RMS-73
Color: White, Black by special order. To order, add -BK to end of part number

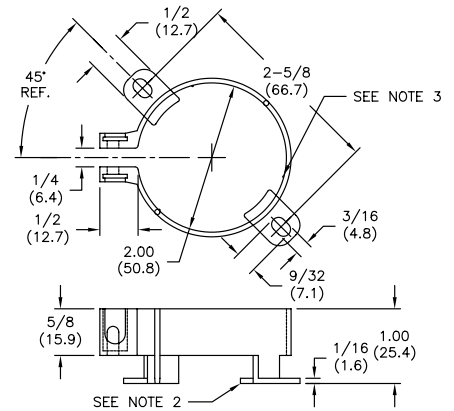
Part No.	Standard Pack: 100 per bag		
	Holding Dia. Range	Thickness "T"	Width "W"
SHC-16GF*	1/4 - 5/16 (6.4 - 7.9)	.06 (1.5)	.13 (3.3)
SHC-23	23/64 - 25/64 (9.1 - 9.9)	.07 (1.8)	.22 (5.6)
SHC-26	25/64 - 15/32 (9.9 - 11.9)		
SHC-30	15/32 - 17/32 (11.9 - 13.5)		
SHC-32	17/32 - 19/32 (13.5 - 15.1)		
SHC-38	19/32 - 21/32 (15.1 - 16.7)		
SHC-44	11/16 - 13/16 (17.5 - 20.6)		
SHC-50	3/4 - 7/8 (19.1 - 22.2)		
SHC-56	7/8 - 1 (22.2 - 25.4)		
SHC-62	61/64 - 1-3/32 (24.2 - 27.8)		
SHC-68	1-1/32 - 1-3/16 (26.2 - 30.2)		
SHC-80	1-1/4 - 1-7/16 (31.8 - 36.5)		
SHC-92	1-13/32 - 1-5/8 (35.7 - 41.3)		
SHC-104	1-19/32 - 1-13/16 (40.5 - 46.0)		
SHC-114	1-45/64 - 2-1/32 (43.3 - 51.6)		
SHC-124	1-7/8 - 2-1/8 (47.6 - 54.0)		
SHC-134	2-1/8 - 2-3/8 (54.0 - 60.3)	.36 (9.1)	
			.40 (10.2)

Glass filled nylon, RMS-35 available by special order on all sizes except SHC-16. To order add -GF to end of part number.
***SHC-16 available only in the Glass-filled Nylon, RMS-35 as standard.**
Custom sizes available by special order.

SCH/SCHS Standing Capacitor Holder



SCH-1



SCH-2/SCHS-2

Features

- Screw mounts to chassis
- Reusable
- Twist to release lock

Notes

Adjustable holding dia.
Min. - 1-21/64" (33.7mm) with all teeth engaged
Max. - 1-7/16" (36.5mm) with 3 teeth engaged

Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 100 per Bag

Material: Glass Filled Nylon, RMS-35
Color: Black

Part No.	Standard Pack: 100 per bag
	Description
SCHS-2	w/spacer, w/o hardware (Note 1)
SCH-2	w/o spacer, w/o hardware
SCHS-2-H	w/spacer, w/clamping hardware
SCH-2-H	w/o spacer, w/clamping hardware

Notes:

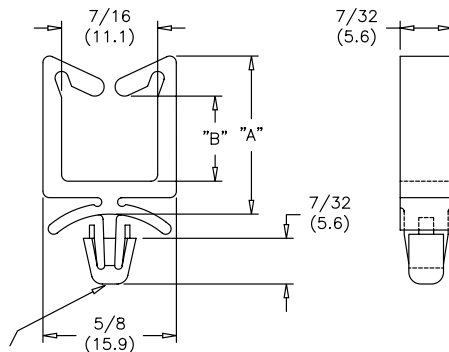
Optional:

1. Clamping hardware; Screw P/N S6B, Quick Nut P/N QN6
2. Spacer to elevate capacitor 3/32" (2.4mm) from chassis
3. Anti-rotation rib (3 locations)

WIRE ROUTING, CLIPS & CLAMPS

WS-A

Wire Saddle with Arrowhead



• UL #E71558

TO SNAP LOCK IN A
 $.187 \pm .003$ (4.75 \pm 0.08)
 DIA. HOLE, IN A $1/16"$ (1.6)
 NOMINAL THICK PANEL/BD.

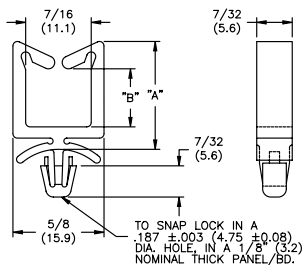
Features

- Lifts wires off board to avoid hot components and minimize transient interference

Color: Natural			
Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.
WS-A-1-01	WS-A-1-19	.51 (13.0)	.19 (4.8)
WS-A-2-01	WS-A-2-19	.71 (18.0)	.39 (9.9)
WS-A-3-01	WS-A-3-19	1.06 (26.9)	.75 (19.1)
WS-A-4-01	WS-A-4-19	1.37 (34.8)	1.07 (27.2)

WS-A-2

Wire Saddle with Arrowhead



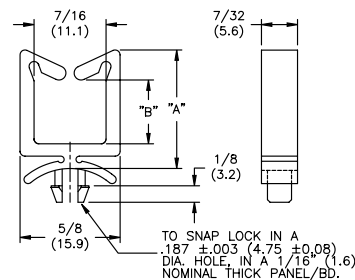
• UL #E71558

TO SNAP LOCK IN A
 $.187 \pm .003$ (4.75 \pm 0.08)
 DIA. HOLE, IN A $1/8"$ (3.2)
 NOMINAL THICK PANEL/BD.

Color: Natural			
Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.
WS-A-2-1-01	WS-A-2-1-19	.51 (13.0)	.19 (4.8)
WS-A-2-2-01	WS-A-2-2-19	.71 (18.0)	.39 (9.9)
WS-A-2-3-01	WS-A-2-3-19	1.06 (26.9)	.75 (19.1)
WS-A-2-4-01	WS-A-2-4-19	1.37 (34.8)	1.07 (27.2)

WS

Wire Saddle



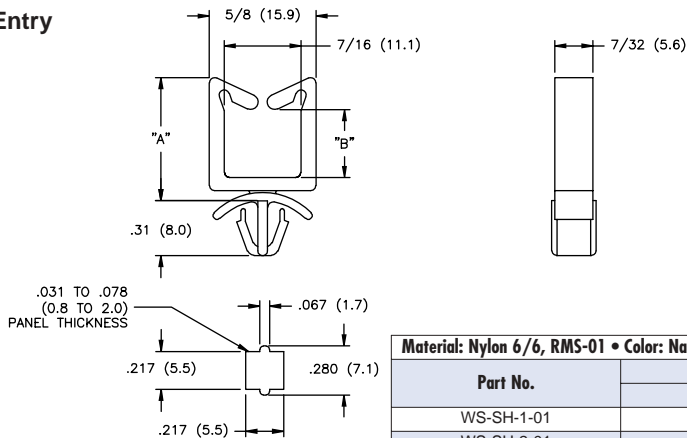
• UL #E71558

TO SNAP LOCK IN A
 $.187 \pm .003$ (4.75 \pm 0.08)
 DIA. HOLE, IN A $1/16"$ (1.6)
 NOMINAL THICK PANEL/BD.

Color: Natural			
Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.
WS-1-01	WS-1-19	.51 (13.0)	.19 (4.8)
WS-2-01	WS-2-19	.71 (18.0)	.39 (9.9)
WS-3-01	WS-3-19	1.06 (26.9)	.75 (19.1)
WS-4-01	WS-4-19	1.37 (34.8)	1.07 (27.2)

WS-SH

Wire Saddle Square Hole Entry



• UL #E71558

Features

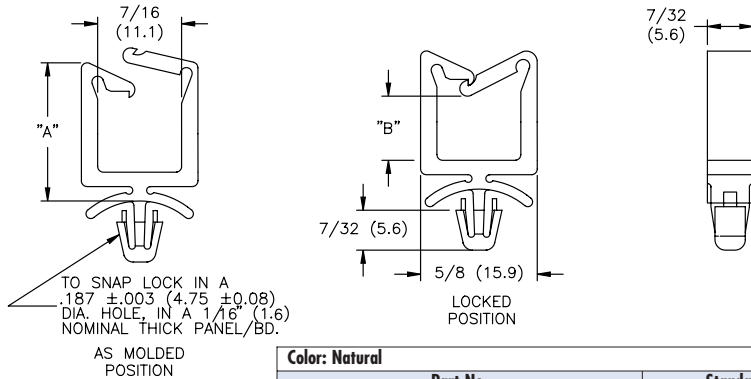
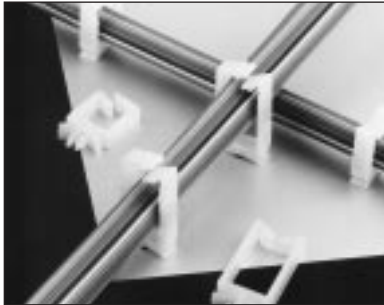
- Square hole mount provides anti-rotation benefit

Material: Nylon 6/6, RMS-01 • Color: Natural			
Part No.	Standard Pack: 1000 per bag		
	"A" Ref.	"B" Ref.	
WS-SH-1-01	.51 (13.0)	.19 (4.8)	
WS-SH-2-01	.71 (18.0)	.39 (9.9)	
WS-SH-3-01	1.06 (26.9)	.75 (19.1)	
WS-SH-4-01	1.37 (34.8)	1.07 (27.2)	

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

LWS-A Locking Wire Saddle with Arrowhead



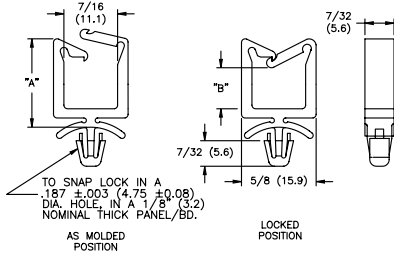
• UL #E71558

Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref	"B" Ref.
LWS-A-1-01	LWS-A-1-19	.51 (13.0)	.14 (3.6)
LWS-A-2-01	LWS-A-2-19	.71 (18.0)	.34 (8.6)
LWS-A-3-01	LWS-A-3-19	1.07 (27.2)	.72 (18.3)
LWS-A-4-01	LWS-A-4-19	1.38 (35.1)	1.02 (25.9)

LWS-A-2 Locking Wire Saddle with Arrowhead



• UL #E71558



Material: Nylon 6/6, RMS-01 • Color: Natural		
Part No.	Standard Pack: 1000 per bag	
	"A" Ref.	"B" Ref.
LWS-A-2-1-01	.51 (13.0)	.14 (3.6)
LWS-A-2-2-01	.71 (18.0)	.34 (8.6)
LWS-A-2-3-01	1.07 (27.2)	.72 (18.3)
LWS-A-2-4-01	1.38 (35.1)	1.02 (25.9)

Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19

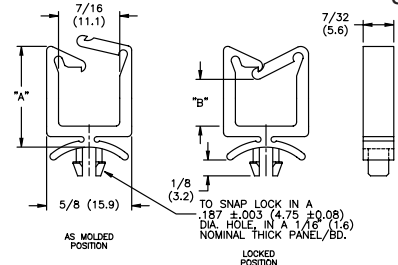
LWS Locking Wire Saddle



• UL #E71558

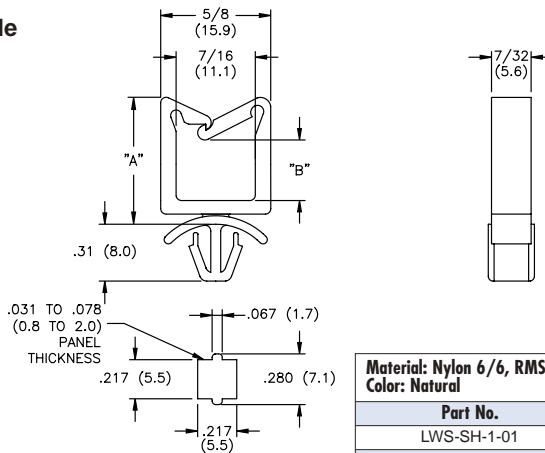
Features

- Lock is releasable by simply twisting open



Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.
LWS-1-01	LWS-1-19	.51 (13.0)	.14 (3.6)
LWS-2-01	LWS-2-19	.71 (18.0)	.34 (8.6)
LWS-3-01	LWS-3-19	1.07 (27.2)	.72 (18.3)
LWS-4-01	LWS-4-19	1.38 (35.1)	1.02 (25.9)

LWS-SH Locking Wire Saddle Square Hole Entry



• UL #E71558

Features

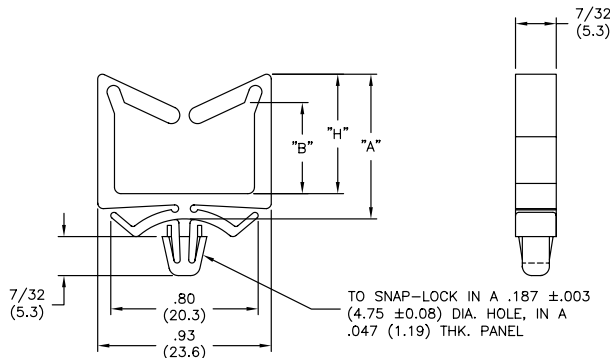
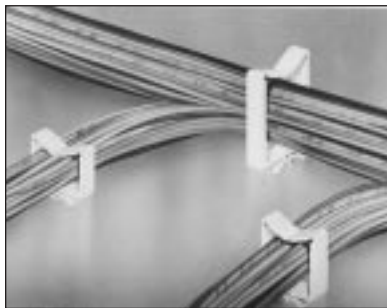
- Square hole mount provides anti-rotation benefit

Material: Nylon 6/6, RMS-01 Color: Natural		
Part No.	"A" Ref.	"B" Ref.
LWS-SH-1-01	.51 (13.0)	.13 (3.3)
LWS-SH-2-01	.71 (18.0)	.34 (8.6)
LWS-SH-3-01	1.06 (26.9)	.72 (18.3)
LWS-SH-4-01	1.38 (35.1)	1.02 (25.9)

Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

WWS Wide Wire Saddle



• UL #E71558

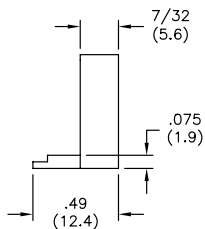
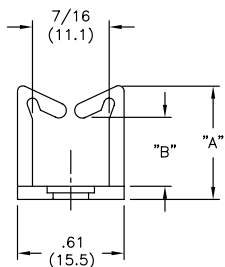
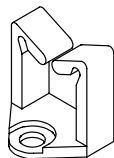
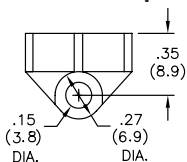
Features

- For wire bundles up to 3/4" (19.1mm) wide

Color: Natural		Standard Pack: 1000 per bag			
Part No.	Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A"	"B"	"H"
WWS-A-2-01	WWS-A-2-19		.77 (19.6)	.50 (12.7)	.64 (16.3)
WWS-A-3-01	WWS-A-3-19		1.12 (28.4)	.85 (21.6)	.99 (25.1)

WS-SR

Wire Saddle - Snap Rivet



Features

- Rivet sold separately
- Mount with screw or rivet
- Panel Mounting Hole = .142 - .146

Material: Nylon 6/6, RMS-01 • Color: Natural		
Part No.	Standard Pack: 1000 per bag	
	"A" Ref.	"B" Ref.
WS-SR-1-01	.45 (11.4)	.17 (4.3)
WS-SR-2-01	.64 (16.3)	.36 (9.1)
WS-SR-3-01	1.00 (25.4)	.73 (18.5)
WS-SR-4-01	1.31 (33.3)	1.04 (26.4)

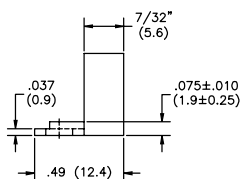
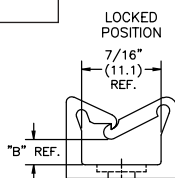
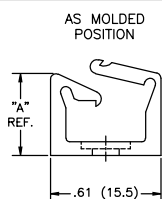
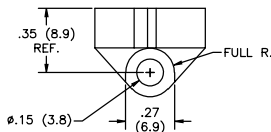
Flame Retardant Nylon available by special order. To order, replace -01 with -19.

Use Richco Rivet No.	Standard Pack: 1000 per bag	
	For Chassis Thickness Range	
SR-3535	.010 (0.3) - .046 (1.2)	
SR-3545	.046 (1.2) - .081 (2.1)	
SR-3550	.069 (1.8) - .105 (2.7)	
SR-3555	.081 (2.1) - .120 (3.0)	
SR-3560	.109 (2.8) - .144 (3.7)	
SR-3570	.140 (3.6) - .180 (4.6)	
SR-3580	.180 (4.6) - .219 (5.6)	

*Snap Rivets are shown on page 54

LWS-SR

Locking Wire Saddle - Snap Rivet



Features

- Rivet sold separately
- Mount with screw or rivet
- Panel Mounting Hole = .142 - .146

Material: Nylon 6/6, RMS-01 • Color: Natural		
Part No.	Standard Pack: 1000 per bag	
	"A"	"B"
LWS-SR-1-01	.45 (11.4)	.14 (3.6)
LWS-SR-2-01	.65 (16.5)	.34 (8.6)
LWS-SR-3-01	1.03 (26.2)	.72 (18.3)
LWS-SR-4-01	1.31 (33.3)	1.00 (25.4)

Flame Retardant Nylon available by special order. To order, replace -01 with -19.

Use Richco Rivet No.	Standard Pack: 1000 per bag	
	For Chassis Thickness Range	
SR-3535	.010 (0.3) - .046 (1.2)	
SR-3545	.046 (1.2) - .081 (2.1)	
SR-3550	.069 (1.8) - .105 (2.7)	
SR-3555	.081 (2.1) - .120 (3.0)	
SR-3560	.109 (2.8) - .144 (3.7)	
SR-3570	.140 (3.6) - .180 (4.6)	
SR-3580	.180 (4.6) - .219 (5.6)	

*Snap Rivets are shown on page 54

WIRE ROUTING, CLIPS & CLAMPS

WS-SE-A

Wire Saddle Side Entry

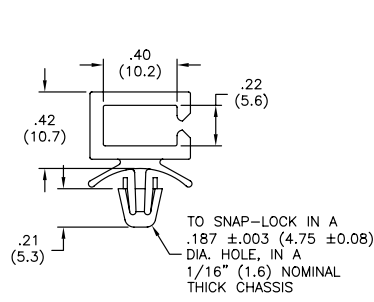
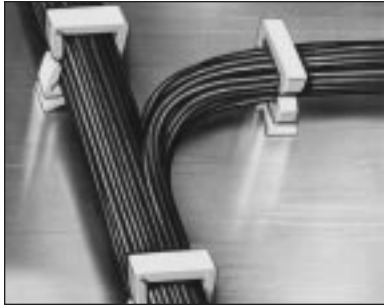


Fig. 1

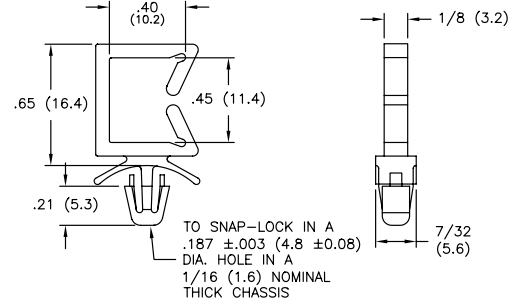
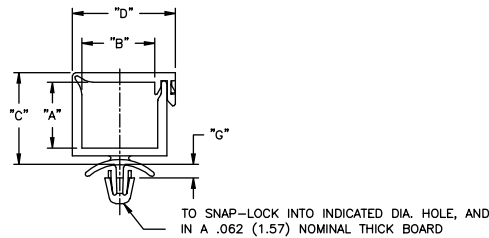
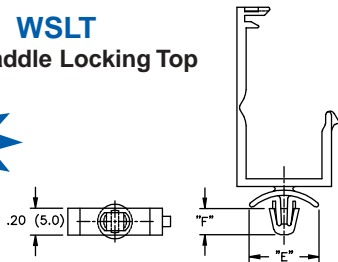


Fig. 2

Color: Natural		Part No.	Standard Pack: 1000
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19		Figure
WS-SE-A-1-01	WS-SE-A-1-19		1
WS-SE-A-2-01	WS-SE-A-2-19		2

WSLT

Wire Saddle Locking Top



• UL #E71558

Features

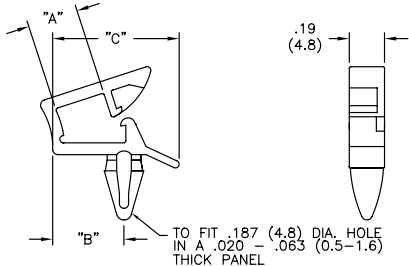
- Safely isolates cable or wire from board components
- Lock is releasable for repair, replacement or addition of wire or cable

Color: Natural		Standard Pack: 1000 per bag							
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	Dim. "A"	Dim. "B"	Dim. "C"	Dim. "D"	Dim. "E"	Dim. "F"	Dim. "G"	Hole Dia. ± .003 (±0.08)
WSLT-3.5-2-1-01	WSLT-3.5-2-1-19	.13 (3.4)	.53 (13.5)	.35 (8.8)	.77 (19.6)	.38 (9.5)	.118 (3.0)	.10 (2.5)	.138 (3.50)
WSLT-01-1-01	WSLT-01-1-19								
WSLT-01A-01	WSLT-01A-19	.19 (4.8)	.42 (10.7)	.41 (10.4)	.66 (16.8)	.62 (15.8)	7/32 (5.6)	.11 (2.8)	.187 (4.75)
WSLT-01-2-01	WSLT-01-2-19	.36 (9.1)		.59 (15.0)					
WSLT-02A-01	WSLT-02A-19	.39 (10.0)	.64 (16.3)	.61 (15.5)	.88 (22.4)				
WSLT-03-2-01	WSLT-03-2-19	.56 (14.1)		.87 (22.0)					
WSLT-03-3-01	WSLT-03-3-19	.85 (21.7)	.71 (18.0)	1.08 (27.5)	.95 (24.1)				

LWS-SE2

Locking Wire Saddle, Side Entry

• UL #E71558



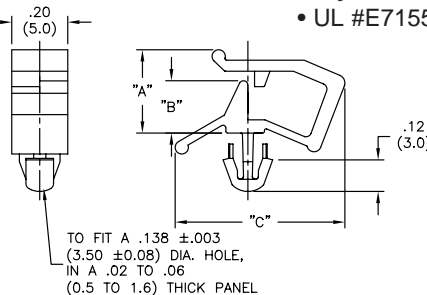
Material: Nylon 6/6, RMS-01		Color: Natural	
Part No.	Standard Pack: 1000 per bag		
	"A"	"B"	"C"
LWS-SE2-1-01	.27 (6.9)	.38 (9.7)	.67 (17.0)
LWS-SE2-2-01	.40 (10.2)	.53 (13.5)	.82 (20.8)

Flame Retardant Nylon, RMS-19 available by special order

WS-SE1

Wire Saddle, Side Entry

• UL #E71558



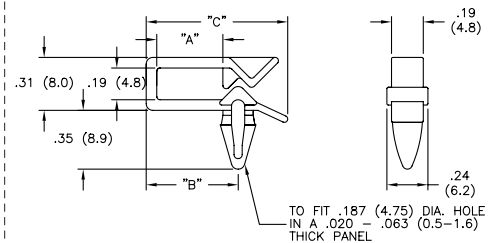
Material: Nylon 6/6, RMS-01		Color: Natural	
Part No.	Standard Pack: 1000 per bag		
	"A"	"B"	"C"
WS-SE1-1-01	.19 (4.8)	.09 (2.3)	.50 (12.7)
WS-SE1-2-01	.26 (6.6)	.16 (4.1)	.59 (15.0)
WS-SE1-3-01	.34 (8.6)	.23 (5.8)	.81 (20.6)

Flame Retardant Nylon, RMS-19 available by special order

WS-SE2

Wire Saddle, Side Entry

• UL #E71558



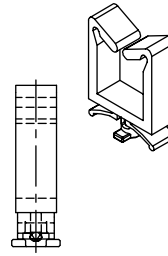
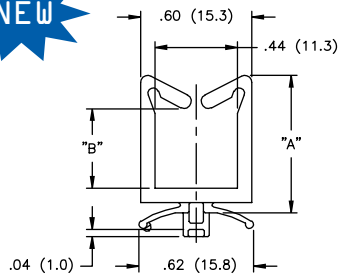
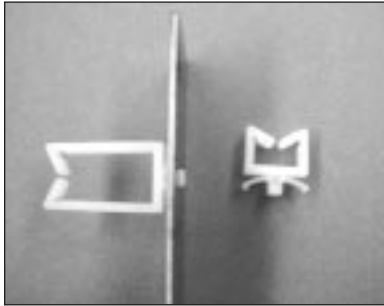
Material: Nylon 6/6, RMS-01		Color: Natural	
Part No.	Standard Pack: 1000 per bag		
	"A"	"B"	"C"
WS-SE2-1-01	.26 (6.6)	.43 (10.9)	.71 (18.0)
WS-SE2-2-01	.39 (9.9)	.53 (13.5)	.82 (20.8)

Flame Retardant Nylon, RMS-19 available by special order

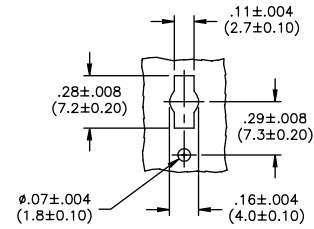
WIRE ROUTING, CLIPS & CLAMPS

WS-9

Wire Saddle, Quarter-Turn Base

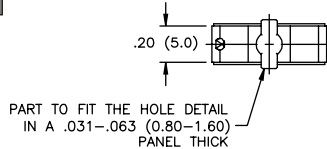


MOUNTING HOLE DETAIL



Features

- Easily removable by turning 90 degrees
- Low protrusion base, only 1mm below chassis



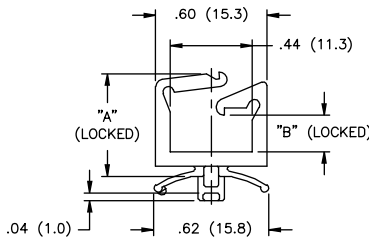
Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000	
	"A"	"B"
WS-9-1-01	.512 (13.0)	.189 (4.8)
WS-9-2-01	.740 (18.8)	.390 (9.9)
WS-9-3-01	1.059 (26.9)	.752 (19.1)
WS-9-4-01	1.370 (34.8)	1.071 (27.2)

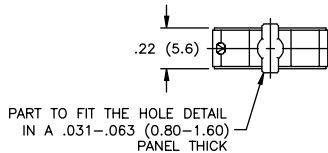
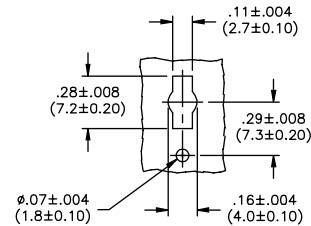
Flame retardant nylon available by special order. To order, replace -01 with -19

LWS-9

Locking Wire Saddle, Quarter-Turn Base



MOUNTING HOLE DETAIL



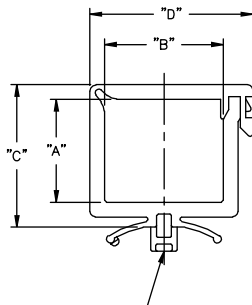
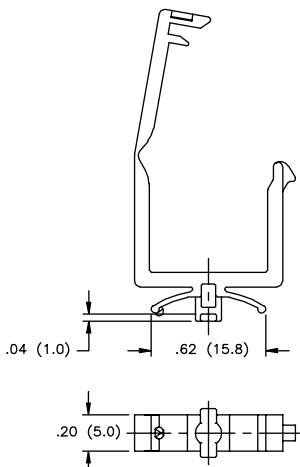
Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000	
	"A"	"B"
LWS-9-1-01	.512 (13.0)	.189 (4.8)
LWS-9-2-01	.740 (18.8)	.386 (9.8)
LWS-9-3-01	1.071 (27.2)	.748 (19.0)
LWS-9-4-01	1.382 (35.1)	1.055 (26.8)

Flame retardant nylon available by special order. To order, replace -01 with -19

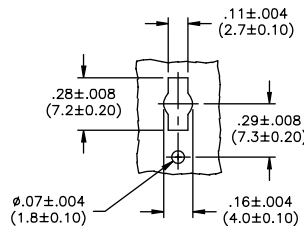
WSLT-9

Wire Saddle, Locking Top Quarter-Turn Base



PART TO FIT THE HOLE DETAIL IN A .031-.063 (0.80-1.60) PANEL THICK

MOUNTING HOLE DETAIL




Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 1000							
	"A"	"B"	"C" Ref.	"D"	"E"	"F"	"G"	"H"
WSLT-9-01A-01	.201 (5.1)	.26 (6.6)	.441 (11.2)	.661 (16.8)				
WSLT-9-01-2-01	.358 (9.1)	.421 (10.7)	.441 (11.2)	.661 (16.8)				
WSLT-9-02-1-01	.134 (3.4)	.531 (13.5)	.209 (5.3)	.772 (19.6)	.563 (14.3)	.197 (5.0)	.134 (3.4)	.039 (1.0)
WSLT-9-02A-1-01	.394 (10.0)	.642 (16.3)	.461 (11.7)	.882 (22.4)				
WSLT-9-03-2-01	.555 (14.1)	.717 (18.2)	.717 (18.2)	.949 (24.1)				
WSLT-9-03-3-01	.854 (21.7)	.709 (18.0)	.933 (23.7)	.949 (24.1)				

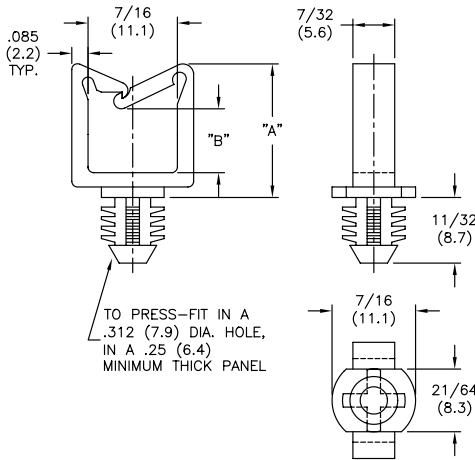
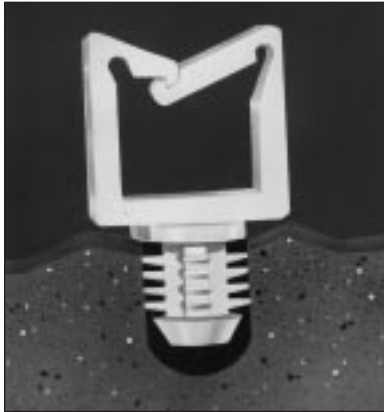
Flame retardant nylon available by special order. To order, replace -01 with -19

WIRE ROUTING, CLIPS & CLAMPS

LWS-BH

• UL #E71558 

Locking Wire Saddle, Blind Hole



Features

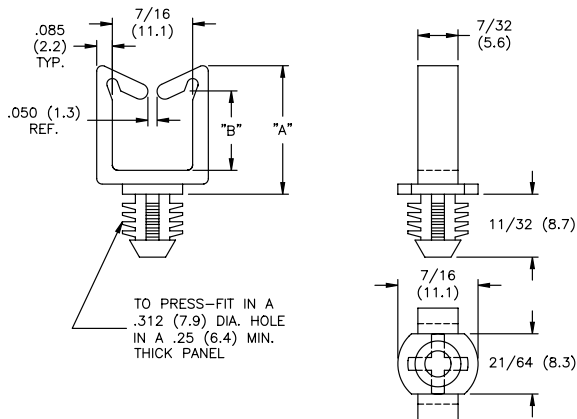
- Grips wood, metal (threaded), rubber, particle board and more
- Blunt tip allows maximum grip in blind holes and minimum protrusion in pass-through applications
- Lock is releasable simply by twisting open

Material: Nylon 6/6, RMS-01 Color: Natural		
Part No.	Standard Pack: 1000 per bag	
	"A" Ref.	"B" Ref.
LWSBH-1-01	.51 (13.0)	.14 (3.6)
LWSBH-2-01	.72 (18.3)	.34 (8.6)
LWSBH-3-01	1.07 (27.2)	.70 (17.8)
LWSBH-4-01	1.40 (35.6)	1.02 (25.9)
Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.		

WSBH

Wire Saddle, Blind Hole

• UL #E71558 



Features

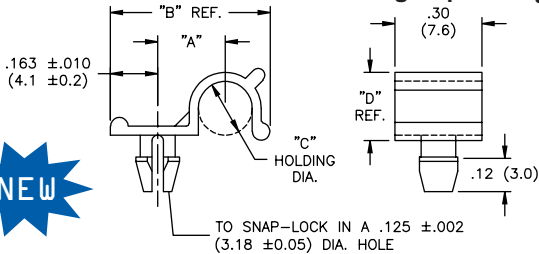
- Grips wood, metal (threaded), rubber, particle board and more
- Blunt tip allows maximum grip in blind holes and minimum protrusion in pass-through applications

Material: Nylon 6/6, RMS-01 Color: Natural		
Part No.	Standard Pack: 1000 per bag	
	"A" Ref.	"B" Ref.
WSBH-1-01	.51 (13.0)	.23 (5.8)
WSBH-2-01	.72 (18.3)	.44 (11.2)
WSBH-3-01	1.07 (27.2)	.79 (20.1)
WSBH-4-01	1.40 (35.6)	1.11 (28.2)
Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.		

HURC

Half "U" Routing Clip


• UL #E71558 

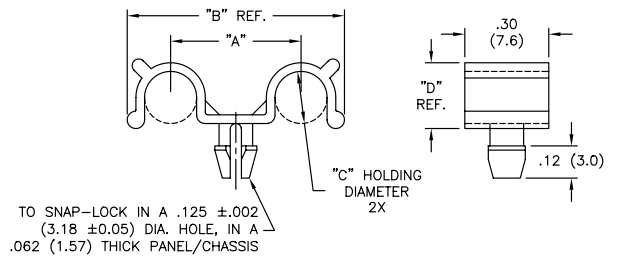


Material: Nylon 6/6, RMS-01 • Color: Natural				
Part No.	Standard Pack: 1000 per bag			
	Holding Dia.	"A" Ref.	"B" Ref.	"D" Ref.
HURC-2-01	1/8 (3.2)	.20 (5.1)	.49 (12.4)	.17 (4.3)
HURC-3-01	3/16 (4.8)	.24 (6.1)	.56 (14.2)	.24 (6.1)
HURC-4-01	1/4 (6.4)	.27 (6.9)	.62 (15.7)	.30 (7.6)
HURC1-2-01	1/8 (3.2)	.20 (5.1)	.49 (12.4)	.17 (4.3)
HURC1-3-01	3/16 (4.8)	.24 (6.1)	.56 (14.2)	.24 (6.1)
HURC1-4-01	1/4 (6.4)	.27 (6.9)	.62 (15.7)	.30 (7.6)
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.				

DHURC

Double Half "U" Routing Clip

• UL #E71558 

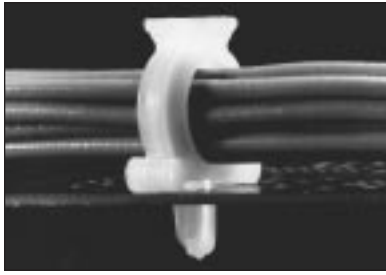


Material: Nylon 6/6, RMS-01 Color: Natural				
Part No.	Standard Pack: 1000 per bag			
	Holding Dia. "C"	"A" Ref.	"B" Ref.	"D" Ref.
DHURC-2-01	1/8 (3.2)	.41 (10.4)	.66 (16.8)	.17 (4.3)
DHURC-3-01	3/16 (4.8)	.48 (12.2)	.79 (20.1)	.24 (6.1)
DHURC-4-01	1/4 (6.4)	.55 (14.0)	.94 (23.9)	.30 (7.6)
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.				

WIRE ROUTING, CLIPS & CLAMPS

RWS

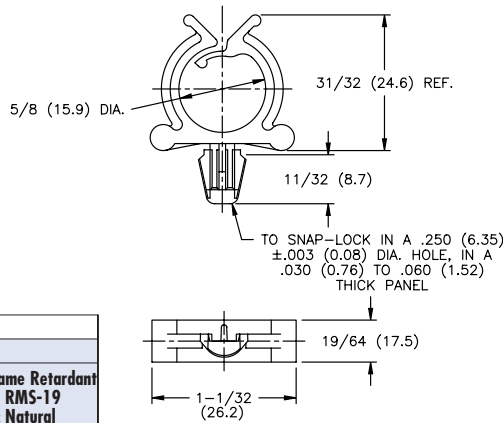
Round Wire Saddle



Standard Pack: 1000 per bag		
Part Number		
Material: Nylon 6/6, RMS-01 Color: Natural	Material: Nylon 6/6, RMS-01 Color: Black	Material: Flame Retardant Nylon, RMS-19 Color: Natural
RWS-10-01	RWS-10-01BK	RWS-10-19
RWS-16-01	RWS-16-01BK	RWS-16-19

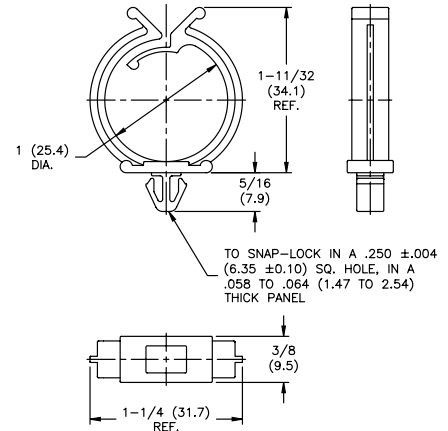
RWS-10

 • UL #E71558



ROUND HOLE MOUNT

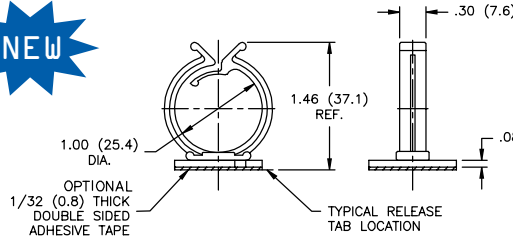
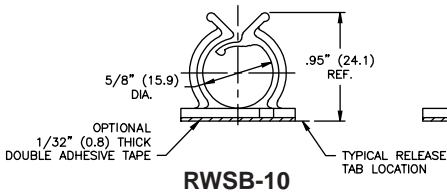
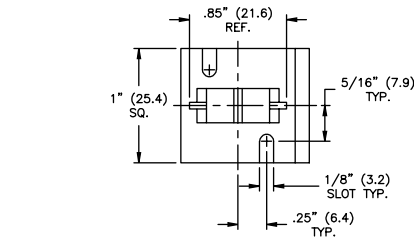
RWS-16



SQUARE HOLE MOUNT

RWSB

Round Wire Saddle on Base



RWSB-16

Features

- Mounts with adhesive or a rivet or screw

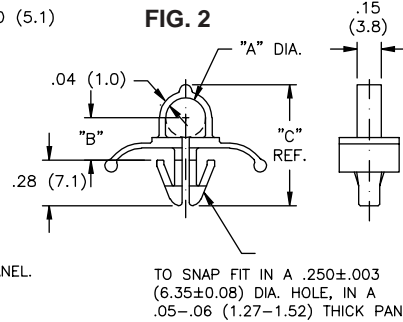
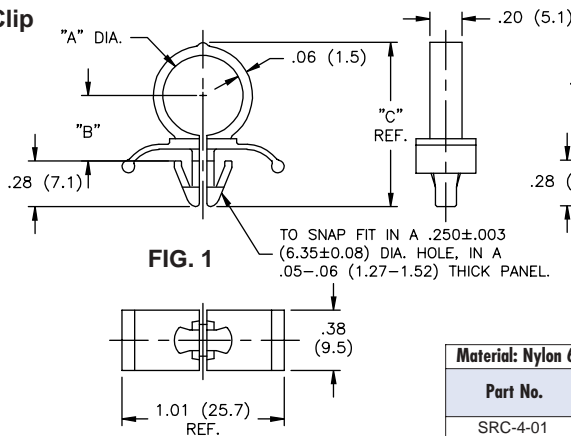
Material: Nylon 6/6, RMS-01; Adhesive Back, RMS-15 • Color: Natural			
Standard Pack: 1000			
5/8" Dia. Part No.		1" Dia. Part No.	
W/O Tape	With Tape	W/O Tape	With Tape
RWSB-10-01	RWSB-10-01A-RT	RSWB-16-01	RWSB-16-01A-RT

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

SRC

Split Routing Clip

 • UL #E71558



Material: Nylon 6/6, RMS-01 • Color: Natural				
Part No.	Standard Pack: 1000 per bag			Fig#
	"A"	"B" ± .015 (.4)	"C" Ref.	
SRC-4-01	1/4 (6.4)	.26 (6.6)	.75 (19.1)	2
SRC-7-01	7/16 (11.1)	.39 (9.9)	.97 (24.6)	1
SRC-8-01	1/2 (12.7)	.43 (10.9)	1.04 (26.4)	
SRC-10-01	5/8 (15.9)	.50 (12.7)	1.18 (30.0)	

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

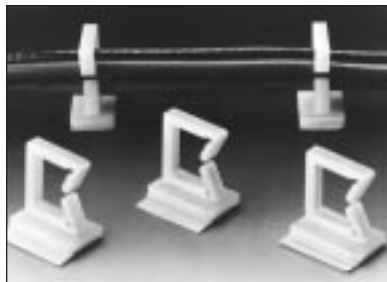
Features

- Wraps around cables locking them in place

WIRE ROUTING, CLIPS & CLAMPS

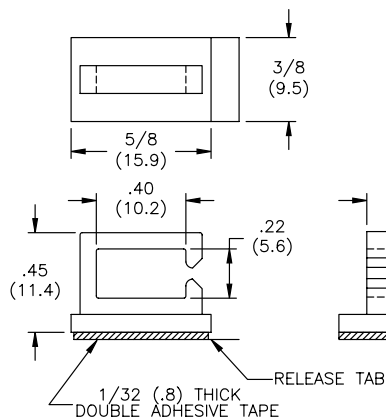
WS-SE-B

Wire Saddle Side Entry On Base

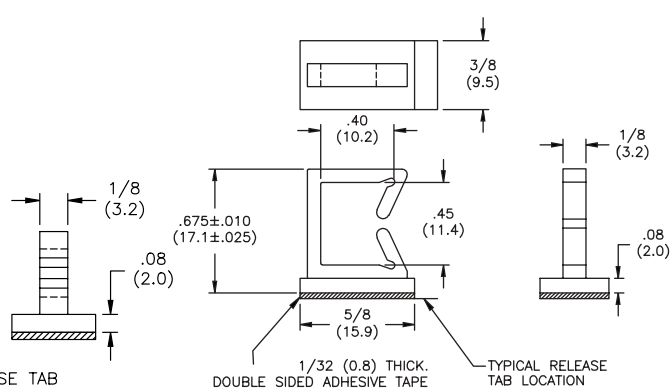


• UL #E71558

WS-SE-B-1-01A-RT



WS-SE-B-2-01A-RT



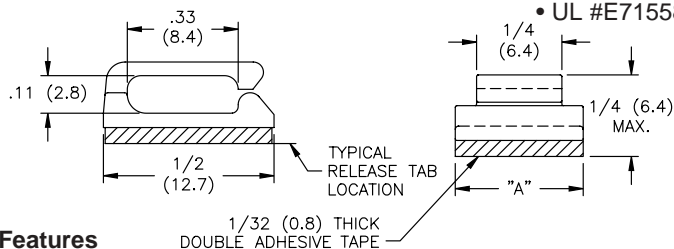
Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15 Color: Natural
Standard Pack: 1000 per bag
Flame Retardant Nylon, RMS-19 available by special order. To order replace -01 with -19.

MWSSEB/MWSSEBE

Micro Wire Saddle, Side Entry, On Base



• UL #E71558



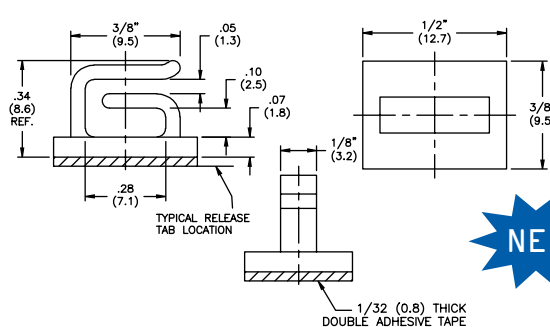
Features

• Low profile will not exceed standard I.C. height

Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15 Color: Natural	
Part No.	Standard Pack: 1000 per bag "A"
MWSSEB-1-01A-RT	3/8 (9.5)
MWSSEBE-1-01A-RT	1/2 (12.7)
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.	

MOFNSB

Mini Optical Fiber Network Saddle on Base

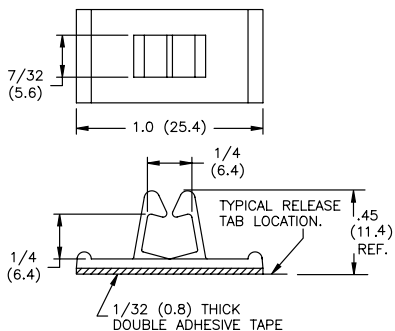


Adhesive Back: RMS-15 • Color: Natural	
Standard Pack: 1000 per bag	
Part No.	
Material: Nylon 6/6, RMS-01 MOFNSB-2-01A-RT	Material: Flame Retardant Nylon, RMS-19 MOFNSB-2-19A-RT

WCB-250-01A-RT

Wire Clip On Base

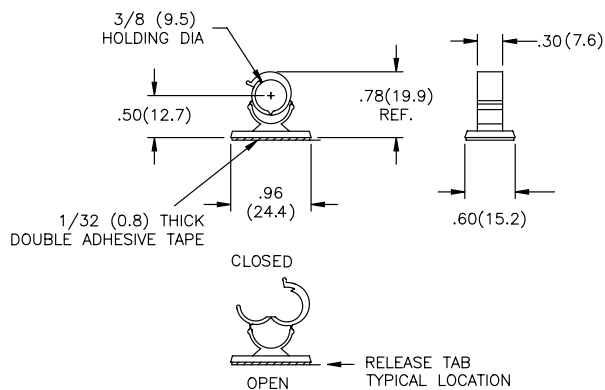
• UL #E71558



Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15 Color: Natural	
Standard Pack: 1000 per bag	
Flame Retardant Nylon, RMS-19 available by special order To order, replace -01 with -19. Available without adhesive by special order To order, remove A-RT.	

KSK-3140A-RT

Klicking Sticky Klip

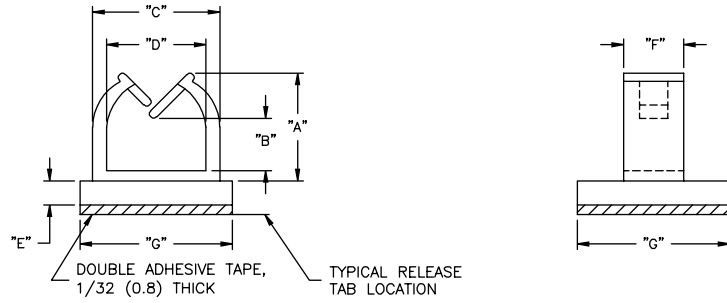
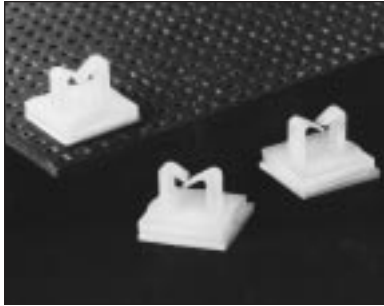


Material Nylon 6/6, RMS-01 Color: Black	
Standard Pack: 1000 per bag	

WIRE ROUTING, CLIPS & CLAMPS

MWSEB

Micro Wire Saddle On Base



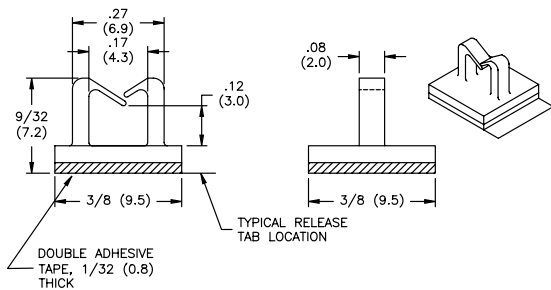
Material: Adhesive, RMS-15 • Color: Natural								
Part No.		Standard Pack: 1000 per bag						
Nylon 6/6, RMS-01	Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.	"C"	"D"	"E"	"F"	"G"
MWSEB-1-01A-RT	MWSEB-1-19A-RT	.16 (4.1)	.04 (1.0)	.28 (7.1)	.18 (4.6)	.06 (1.5)	.08 (2.0)	.37 (9.4)
MWSEB-2-01A-RT	MWSEB-2-19A-RT	.24 (6.1)	.11 (2.8)					
MWSEB-3-01A-RT	MWSEB-3-19A-RT	.29 (7.4)	.12 (3.0)	.36 (9.1)	.25 (6.4)	.08 (2.0)	.16 (4.1)	.50 (12.7)
MWSEB-4-01A-RT	MWSEB-4-19A-RT	.36 (9.1)	.16 (4.1)	.42 (10.7)	.31 (7.9)			
MWSEB-5-01A-RT	MWSEB-5-19A-RT	.44 (11.2)	.24 (6.1)	.47 (11.9)	.35 (8.9)			
MWSEB-6-01A-RT	MWSEB-6-19A-RT	.51 (13.0)	.30 (7.6)					



• UL #E71558

MWSB

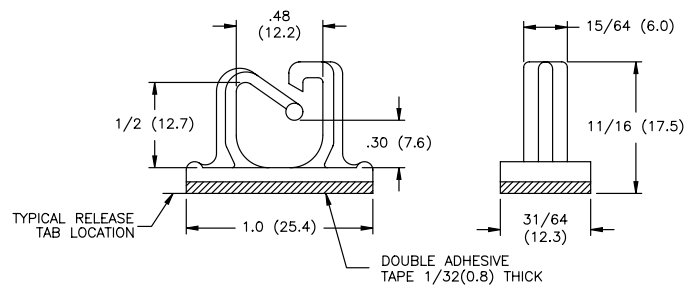
Micro Wire Saddle On Base



Material: Adhesive Back, RMS-15 • Color: Natural	
Standard Pack: 1000	
Part No.	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19
MWSB-1-01A-RT	MWSB-1-19A-RT

WSB-2-01A-RT

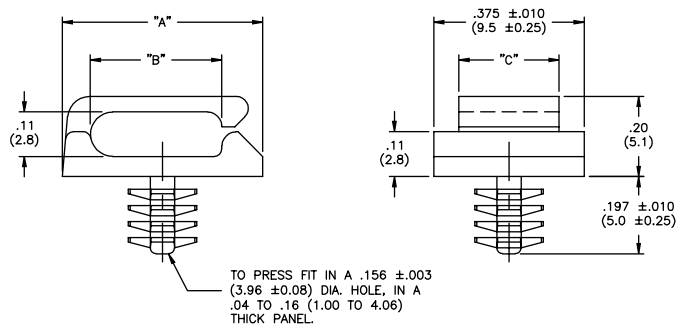
Wire Saddle On Base



Material: Nylon 6/6, RMS-01 • Adhesive Back: RMS-15	
Color: Natural	
Standard Pack: 1000 per bag	

MBHWSSE

Micro-Blind Hole, Wire Saddle, Side Entry



Material: Nylon 6/6, RMS-01			
Color: Natural			
Part No.	Standard Pack: 1000 per bag		
	"A" ±.010 (0.25)	"B" ±.010 (0.25)	"C" ±.010 (0.25)
MBHWSSE-1-01	.50 (12.7)	.33 (8.3)	.25 (6.4)
MBHWSSE1-1-01	.67 (17.0)	.49 (12.5)	.315 (8.0)

Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

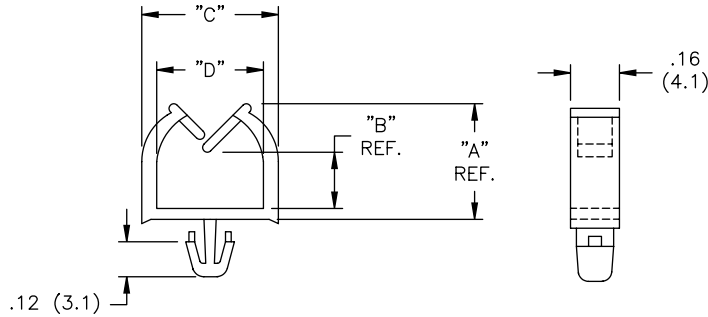
WIRE ROUTING, CLIPS & CLAMPS

MWSEA1/MWSEA2

Micro Wire Saddle

Features

- MWSEA1 snap locks into a $.118 \pm .002$ (3.0 \pm .05) hole dia.
- MWSEA2 snap locks into a $.138 \pm .002$ (3.5 \pm .05) hole dia.



• UL #E71558

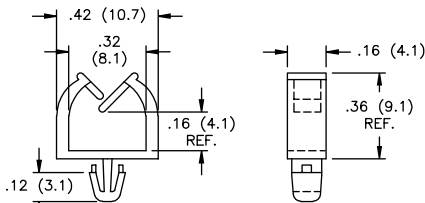
Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19
Color: Natural

Part No.				Standard Pack: 1000 per bag				Panel Thickness*
RMS-01		RMS-19		"A" Ref.	"B" Ref.	"C"	"D"	
MWSEA1-1-01	MWSEA2-1-01	MWSEA1-1-19	MWSEA2-1-19	.29 (7.4)	.12 (3.0)	.36 (9.1)	.26 (6.6)	.063 (1.6)
MWSEA1-2-01	MWSEA2-2-01	MWSEA1-2-19	MWSEA2-2-19	.36 (9.1)	.16 (4.1)	.42 (10.7)	.32 (8.1)	
MWSEA1-3-01	MWSEA2-3-01	MWSEA1-3-19	MWSEA2-3-19	.44 (11.2)	.24 (6.1)	.47 (11.9)	.36 (9.1)	
MWSEA1-4-01	MWSEA2-4-01	MWSEA1-4-19	MWSEA2-4-19	.51 (13.0)	.30 (7.6)			

*.093 panel thickness available by special order.

MWSEA3

Micro Wire Saddle



TO SNAP-LOCK IN A $.138 \pm .002$ (3.5 \pm 0.05) DIA. HOLE, IN A .063 (1.6) THICK BOARD

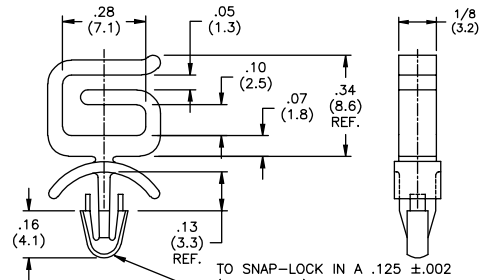
Features

- Little stress on fiber when inserted into saddle

Material: Nylon 6/6, RMS-01 Color: Natural	Material: Flame Retardant Nylon 6/6, RMS-19 Color: Natural
Standard Pack: 1000	
MWSEA3-2-01	MWSEA3-2-19

MOFNSA

Mini Optical Fiber Network Saddle, Arrowhead



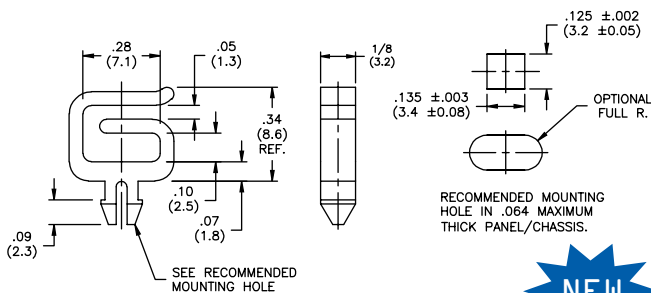
TO SNAP-LOCK IN A $.125 \pm .002$ (3.18 \pm 0.05) DIA. HOLE, IN A .093 (2.36) NOM. THICK PANEL.



Color: Natural	
Standard Pack: 1000 per bag	
Part No.	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19
MOFNSA-2-01	MOFNSA-2-19

MOFNSP

Mini Optical Fiber Network Saddle, 2 Prong



RECOMMENDED MOUNTING HOLE IN .064 MAXIMUM THICK PANEL/CHASSIS.

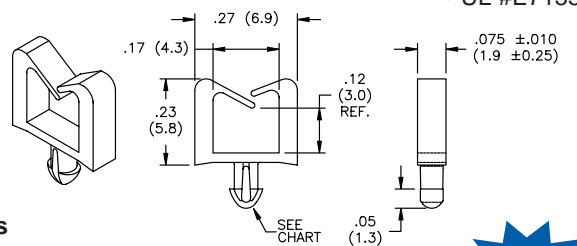


Color: Natural	
Standard Pack: 1000 per bag	
Part No.	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19
MOFNSP-2-01	MOFNSP-2-19

MWS/MWS1

Micro Wire Saddle

• UL #E71558



Features

- Holds up to ten 26 gauge wires (1/32" [0.8mm]) outside diameter



Material: Nylon 6/6, RMS-01 or UL 94V-0, RMS-19 Color: Natural			
Part No.		Standard Pack: 1000 per bag	
RMS-01	RMS-19	Hole Dia.	Panel Thk
MWS-1-01	MWS-1-19	.070 \pm .002	.062 (1.6)
MWS1-1-01	MWS1-1-19	(1.75 \pm 0.05)	.093 (2.4)

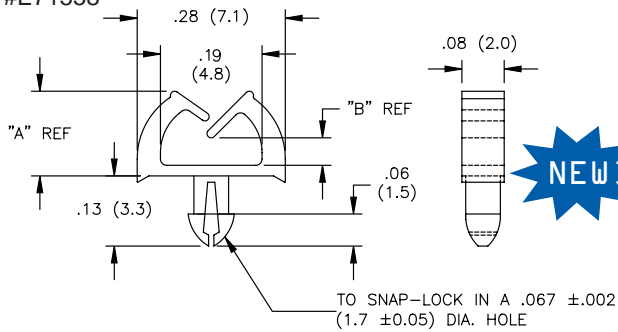
WIRE ROUTING, CLIPS & CLAMPS



• UL #E71558

MWSET1

Micro Wire Saddle, Teardrop



Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19
Color: Natural

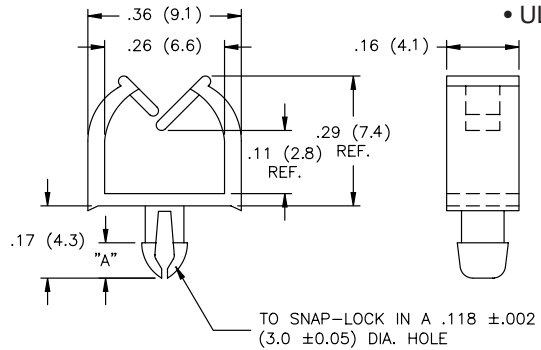
Part No.		Standard Pack: 1000 per bag		
RMS-01	RMS-19	"A" Ref.	"B" Ref.	Panel Thickness
MWSET1-1-01	MWSET1-1-19	.16 (4.1)	.04 (1.0)	.063 (1.6) Nom.
MWSET1-2-01	MWSET1-2-19	.24 (6.1)	.11 (2.8)	
MWSET1-1-1-01	MWSET1-1-1-19	.16 (4.1)	.04 (1.0)	.093 (2.4)



• UL #E71558

MWSET2

Micro Wire Saddle, Teardrop

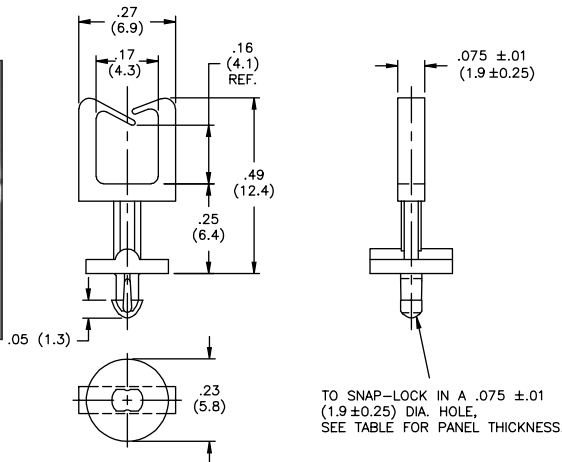


Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19
Color: Natural

Part No.		Standard Pack: 1000 per bag	
RMS-01	RMS-19	"A"	Panel Thickness
MWSET2-1-01	MWSET2-1-19	.11 (2.8)	.04 - .05 (1.0 - 1.3)
MWSET2-2-01	MWSET2-2-19	.10 (2.5)	.05 - .06 (1.3 - 1.5)

SMWS

Standoff Micro Wire Saddle

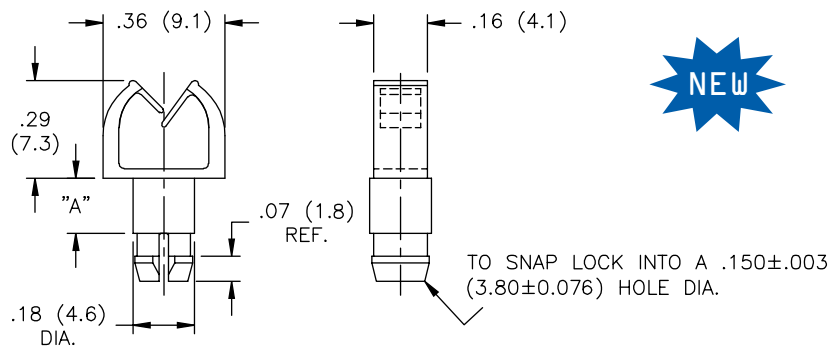


Color: Natural

Part No.		Standard Pack: 1000 per bag	
Nylon 6/6 RMS-01	Flame Retard. Nylon RMS-19	Hole Dia.	Panel Thickness
SMWS-1-01	SMWS-1-19	.070 ± .002	.062 (1.57)
SMWS1-1-01	SMWS1-1-19	(1.75 ± 0.05)	.093 (2.36)

MWSELF

Micro Wire Saddle - Locking Fix



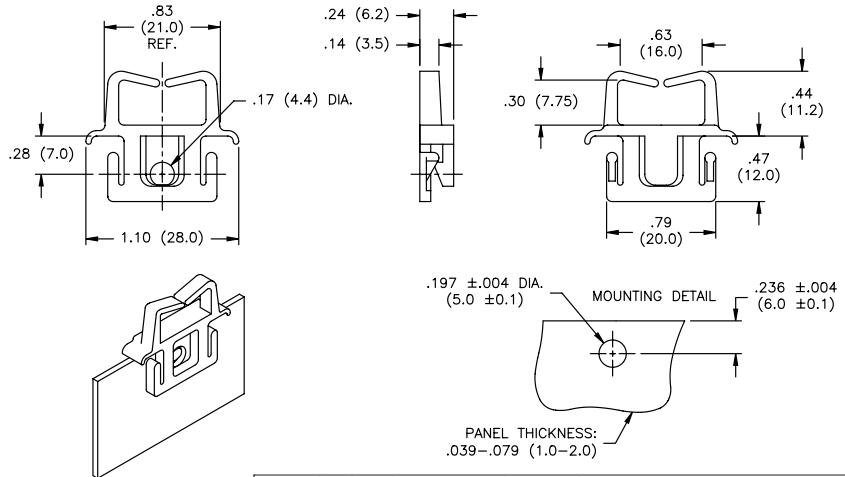
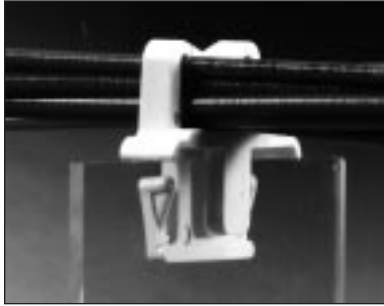
Color: Natural

Part No.		Standard Pack: 1000	
Nylon 6/6, RMS-01	Flame Retardant Nylon, RMS-19	"A"	Panel Thickness
MWSELF-1-4.1-01	MWSELF-1-4.1-19	.16 (4.1)	.063 (1.6)
MWSELF-1-7.7-01	MWSELF-1-7.7-19	.30 (7.6)	.079 (2.0)
MWSELF-2-7.7-01	MWSELF-2-7.7-19		

WIRE ROUTING, CLIPS & CLAMPS

EHWSE-1-01

Edge Hold Wire Saddle



Features

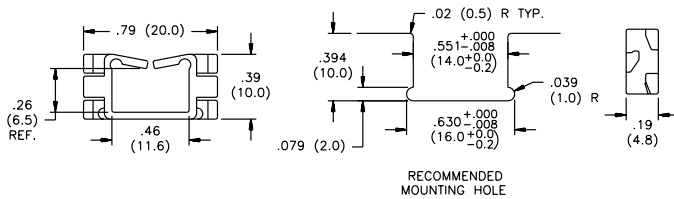
- Straddles the edge of a chassis or PCB
- Mounts vertically or horizontally

Material: Nylon 6/6, RMS-01 • Color: Natural
Standard Pack: 500 per bag
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.



EWSE Edge Wire Saddle

- UL #E71558

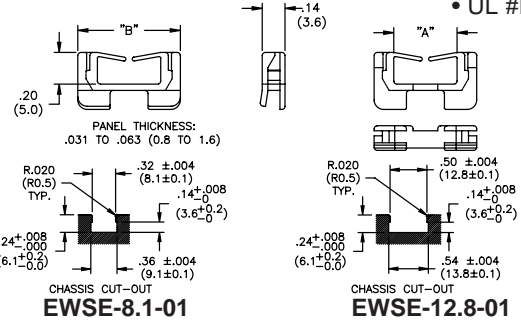


Material: Nylon 6/6, RMS-01		
	Standard Pack: 1000 per bag	
Part No.	Panel Thickness	Color
EWSE-1-01	.031 - .047 (0.8 - 1.2)	Black
EWSE-2-01	.047 - .063 (1.2 - 1.6)	Natural
EWSE-3-01	.063 - .079 (1.6 - 2.0)	Gray
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.		

EWSE

Edge Wire Saddle

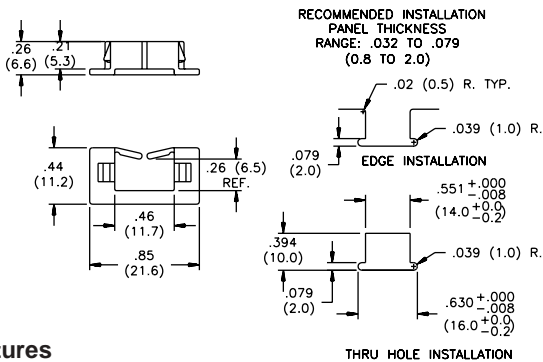
- UL #E71558



Material: Nylon 6/6, RMS-01 • Color: Natural		
	Standard Pack: 1000 per bag	
Part No.	Dim. A	Dim. B
EWSE-8.1-01	.20 (5.0)	.44 (11.3)
EWSE-12.8-01	.39 (10.0)	.64 (16.2)
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.		

EWSJS-1-01

Edge Wire Saddle



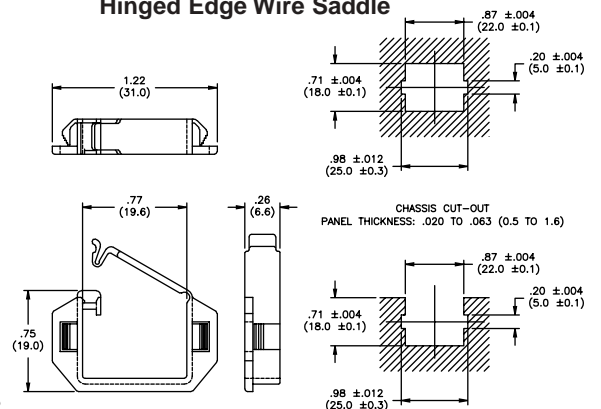
Features

- Can be installed in a mounting slot-edge or through hole

Material: Nylon 6/6, RMS-01 • Color: Natural
Standard Pack: 1000 per bag
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

HEWSE-22-01

Hinged Edge Wire Saddle



Features

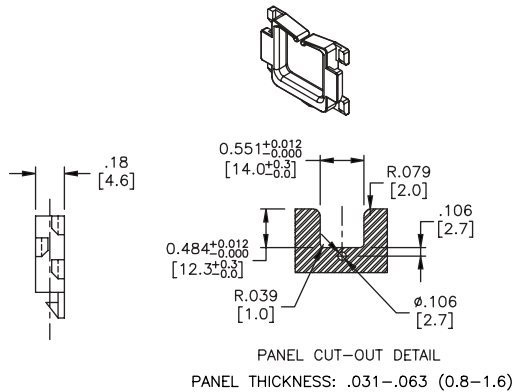
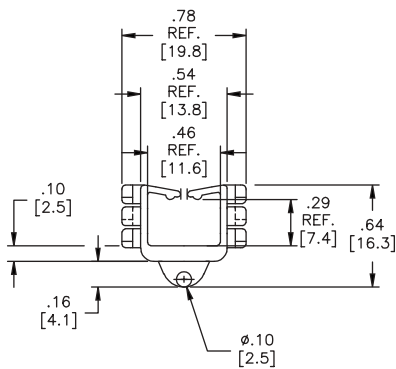
- Hinged feature allows ability to retrofit pre-existing cables into a new panel

Material: Nylon 6/6, RMS-01 • Color: Natural
Standard Pack: 1000 per bag
Flame Retardant Nylon, RMS-19 available by special order. To order, replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

LEWSE-14-01

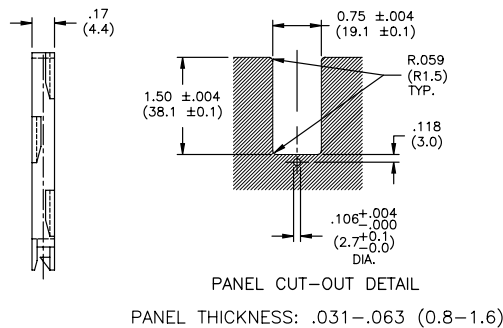
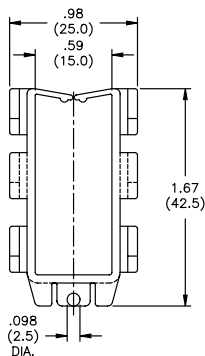
Edging Saddle



Material: Nylon 6/6, RMS-01 • Color: Natural
 Standard Pack: 1000 per bag
 Flame Retardant Nylon, RMS-19 available by special order.
 To order, replace -01 with -19.

LEWSE-18.4-01

Long Edge Wire Saddle



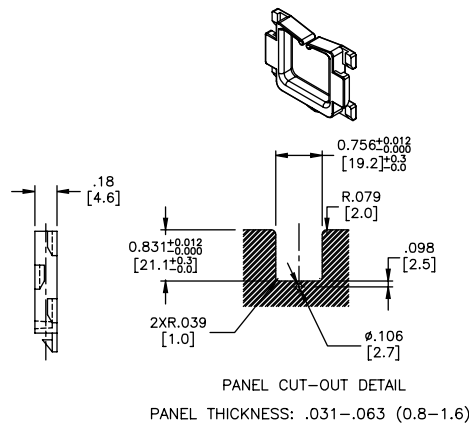
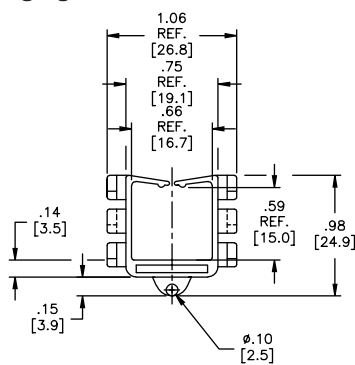
Features

- Notch at bottom of part provides a locking mechanism for a tight fit.

Material: Nylon 6/6, RMS-01 • Color: Natural
 Standard Pack: 1000 per bag
 Flame Retardant Nylon, RMS-19 available by special order.
 To order, replace -01 with -19.

LEWSE-19-01

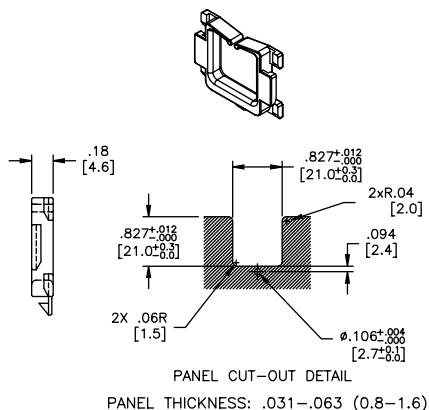
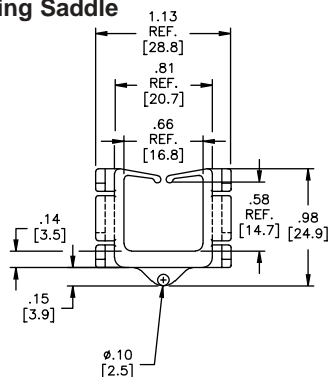
Edging Saddle



Material: Nylon 6/6, RMS-01 • Color: Natural
 Standard Pack: 1000 per bag
 Flame Retardant Nylon, RMS-19 available by special order.
 To order, replace -01 with -19.

LEWSE-21-01

Edging Saddle



Material: Nylon 6/6, RMS-01 • Color: Natural
 Standard Pack: 1000 per bag
 Flame Retardant Nylon, RMS-19 available by special order.
 To order, replace -01 with -19.

WIRE ROUTING, CLIPS & CLAMPS

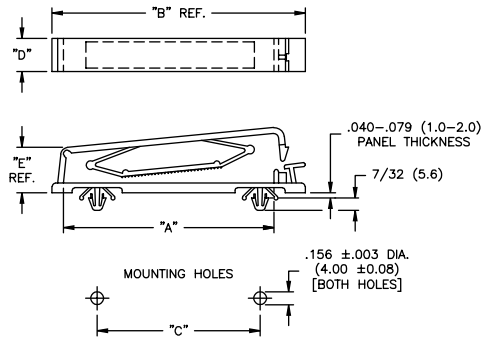
TFCCA

Tension Flat Cable Clamp with Arrowhead



Features

- Tensioning device holds cables firmly in place.

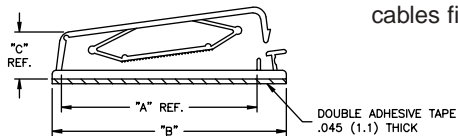
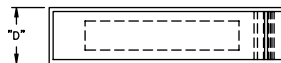


Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Max. No. of Conductors	Standard Pack: 100 per bag				
		"A" ± .020 (0.5)	"B" Ref.	"C" ±.005 (0.13)	"D" ±.015 (0.4)	"E" Ref.
TFCCA-15-01	10	.57 (14.5)	1.28 (32.5)	.591 (15.0)	.36 (9.1)	.54 (13.7)
TFCCA-25-01	20	.98 (25.0)	1.56 (39.6)	.787 (20.0)	.52 (13.2)	.51 (13.0)
TFCCA-40-01	40	2.13 (54.1)	2.64 (67.0)	1.575 (40.0)	.39 (10.0)	.64 (16.3)
TFCCA-50-01	50	2.54 (64.5)	3.06 (77.7)	1.957 (49.7)	.40 (10.2)	.54 (13.7)

TFCC

Tension Flat Cable Clamp



Features

- Tensioning device holds cables firmly in place.

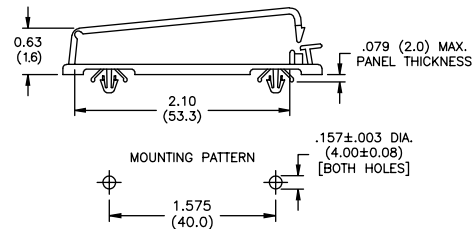
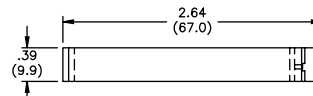


Material: Nylon 6/6, RMS-01 • Double Adhesive Back, RMS-92
Color: Natural

Part No.	Max. No of Conductors	Standard Pack: 100 per bag			
		"A" Ref.	"B" ±.015 (0.4)	"C" Ref.	"D" ± .015 (0.4)
TFCC-30-01	30	1.26 (32.0)	1.76 (44.7)	.62 (15.7)	.73 (18.5)
TFCC-40-01	40	2.13 (54.1)	2.64 (67.0)		.62 (15.7)
TFCC-50-01	50	2.56 (65.0)	3.08 (78.2)		.74 (18.8)
TFCC-64-01	64	3.28 (83.3)	3.84 (97.5)		.63 (16.0)

FCCA-40A-01

Flat Cable Clamp with Arrowheads



Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 100 per bag

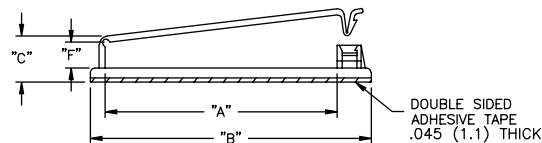
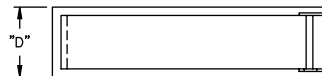
FCW

Flat Cable Clamp



Features

- Holds flat cables up to 50 conductors wide



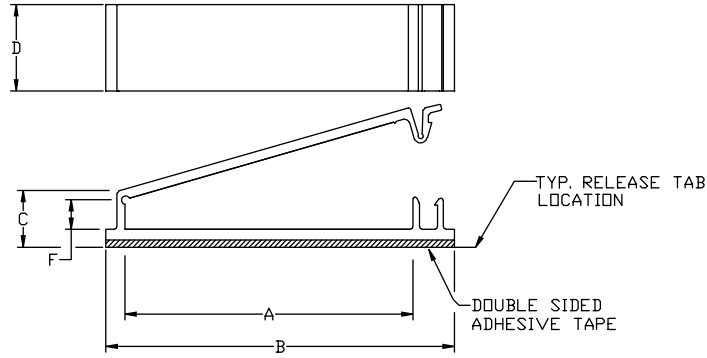
Material: Nylon 6/6, RMS-01 • Double Adhesive Back, RMS-92
Natural

Part No.	Max No. of Conductors	Standard Pack: 100 per bag				
		"A"	"B"	"C"	"D"	"F"
FCW-29-01	30	1.24 (31.5)	1.79 (45.5)	.40 (10.2)	.75 (19.1)	.22 (5.6)
FCW-30-01		1.26 (32.0)	1.80 (45.7)			
FCW-40-01	40	1.56 (39.6)	2.11 (53.6)	.45 (11.4)	.76 (19.3)	.28 (7.1)
FCW-50-01	50	2.52 (64.0)	3.05 (77.5)	.69 (17.6)	.75 (19.1)	.26 (6.6)
FCW-50H-01		2.54 (64.5)	3.09 (78.5)			.51 (13.0)

WIRE ROUTING, CLIPS & CLAMPS

EFCW

Extruded Flat Cable Clamp

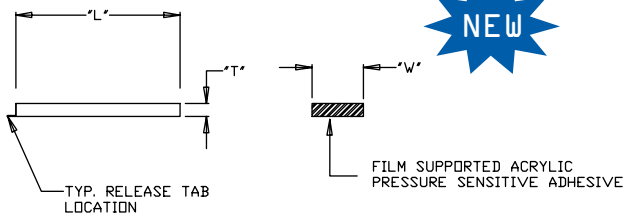


Material: Clip Base - Rigid PVC, RMS-04; Bottom Adhesive 1/16 (1.6) Thick, RMS-15 • Color: Natural

Part No.	Max. No. of Conductors	Standard Pack: 100 per bag				
		"A" ± .015 (0.4)	"B" ± .020 (0.5)	"C" Ref.	"D" ± .014 (0.4)	"F" ± .020 (0.5)
EFCW-29A-RT	30	1.24 (31.5)	1.79 (45.5)	.40 (10.2)	.75 (19.1)	.22 (5.6)
EFCW-30A-RT		1.26 (32.0)	1.80 (45.7)			
EFCW-40A-RT	40	1.56 (39.6)	2.11 (53.6)	.51 (13.0)	.76 (19.3)	.28 (7.1)
EFCW-50A-RT	50	2.52 (64.0)	3.05 (77.5)			

SF

Silicone Foam



• UL #E57750

SILICONE FOAM ROLLS			
Part No.	"T" ± .015 (0.4)	"L" ± .13 (3.2)	"W" .030 (0.8)
SF2R	.13 (3.2)	180 (4572)	.75 (19.1)
SF3R	.19 (4.8)		

Material: Adhesive Backed V-0 Silicone Foam, RMS-135 • Color: Gray

Part No.	Standard Pack: 100 per bag		
	"T" ± .015 (0.4)	"L" ± .030 (0.8)	"W" ± .030 (0.8)
SF2-30	.13 (3.3)	1.23 (31.2)	.75 (19.1)
SF2-40		1.53 (38.9)	
SF2-50		2.49 (63.2)	
SF3-30	.19 (4.8)	1.23 (31.2)	
SF3-40		1.53 (38.9)	
SF3-50		2.49 (63.2)	

USAGE CHART

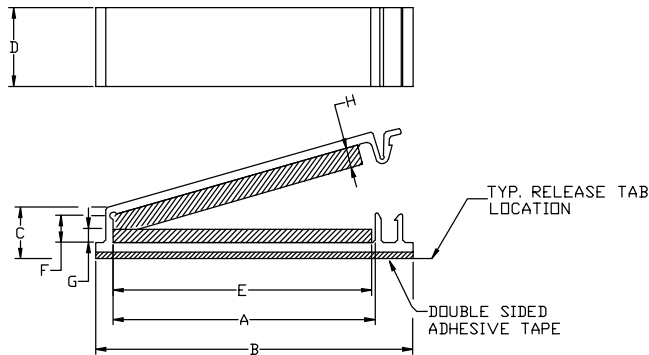
Silicone Foam is cut to length to fit into the Extruded Flat Cable Clamps

Part No.	Apply this Part No.	In this Quantity
EFCW-29	SF2-30	2
	SF3-30	1
EFCW-30	SF2-30	1
	SF3-30	1
EFCW-40	SF2-40	1
	SF3-40	1
EFCW-50	SF2-50	1
	SF3-50	1

Install SF2 on bottom and SF3 on top. Exception for EFCW-29 install SF2 on top and bottom.

EFCWSF

Extruded Flat Cable Clamp with Silicone Foam

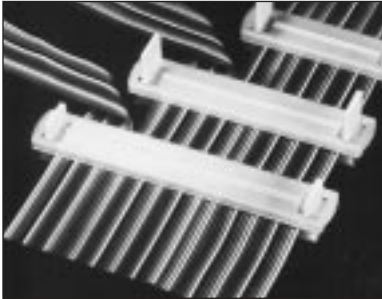


Material: Clip Base - Rigid PVC, RMS-04; Foam - V-0 Silicone, RMS-135; Bottom Adhesive 1/16 (1.6) Thick, RMS-15 • Color: Natural

Part No. with Rubber Cushion	Max. No. of Conductors	Standard Pack: 100 per bag							
		"A" ± .015 (0.4)	"B" ± .020 (0.5)	"C" Ref.	"D" ± .015 (0.4)	"E" Ref.	"F" ± .020 (0.5)	"G" Ref.	"H" Ref.
EFCWSF-29A-RT	30	1.24 (31.5)	1.79 (45.5)	.40 (10.2)	.75 (19.1)	1.23 (31.2)	.22 (5.6)	.13 (3.3)	.13 (3.2)
EFCWSF-30A-RT		1.26 (32.0)	1.80 (45.7)						
EFCWSF-40A-RT	40	1.56 (39.6)	2.11 (53.6)	.51 (13.0)	.76 (19.3)	1.53 (38.9)	.28 (7.1)	.13 (3.3)	.19 (4.8)
EFCWSF-50A-RT	50	2.52 (64.0)	3.05 (77.5)						

WIRE ROUTING, CLIPS & CLAMPS

FCRC/FCRCS/FCRCSH Flat Cable Routing Clamp

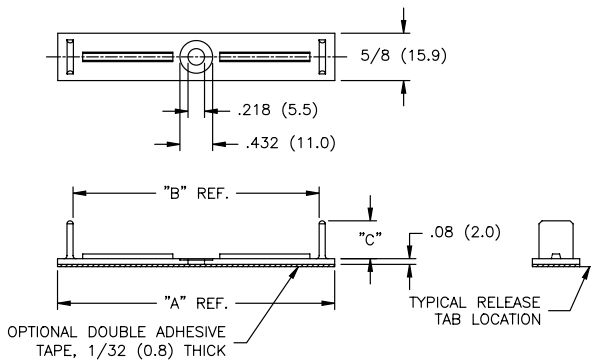


Features

- Two part design with clamp base and tension-locking cover
- For a strain relief application, double back cable and secure with a second cover
- Base secures with a screw or rivet or with adhesive backing

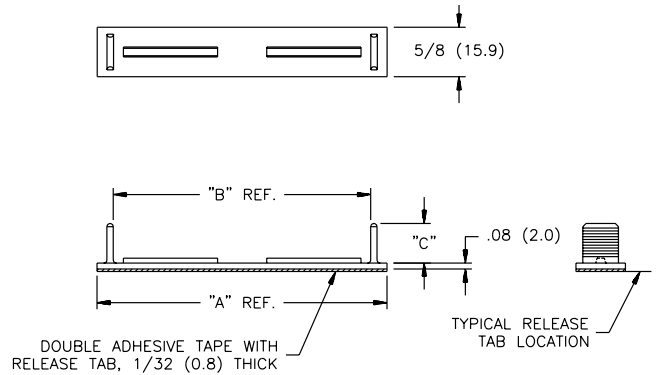
FCRC

Flat Cable Routing Clamp



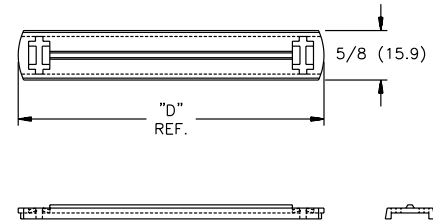
FCRCS

Flat Cable Routing Clamp, Serrated



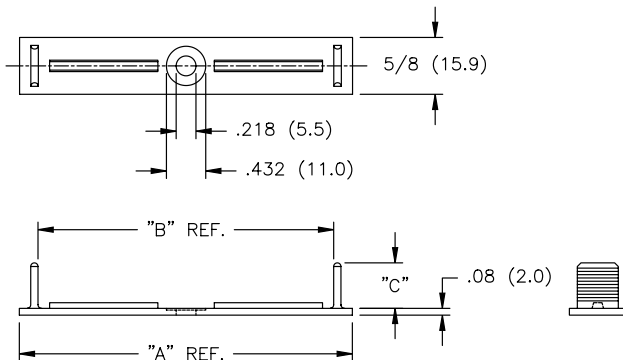
FCRC-C

Flat Cable Routing Clamp (Cover)



FCRCSH

Flat Cable Routing Clamp, Serrated W/Hole



Material: Nylon 6/6, RMS-01
Color: Natural

Cover Part No.	Standard Pack: 100 per bag	
	"D" Ref.	
FCRC-13C	2.24 (56.9)	
FCRC-19C	2.92 (74.2)	
FCRC-21C	3.17 (80.5)	
FCRC-26C	3.86 (98.0)	

Flame Retardant Nylon, RMS-19 available by special order. To order, add -19.

Material: Nylon 6/6, RMS-01 • Color: Natural

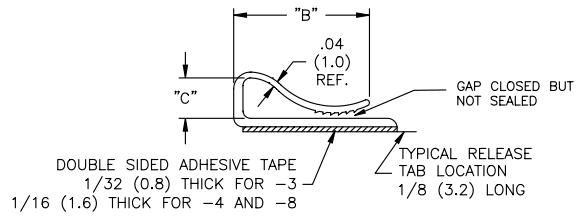
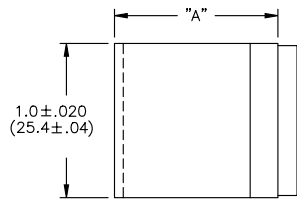
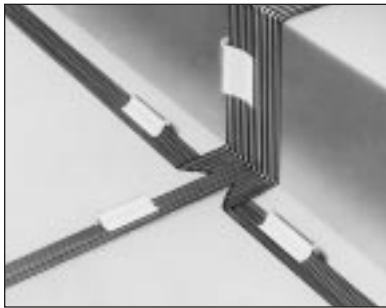
Part No.						Standard Pack: 100 per bag			
W/Out Adhesive	With Adhesive	W/Out Adhesive	With Adhesive	W/Out Adhesive	With Adhesive	"A" Ref.	"B" Ref.	"C" ± .015 (0.4)	Use Cover Part No.
FCRC-13B-4	FCRC-13B-4A-RT	FCRCS-13B-4	FCRCS-13B-4A-RT	FCRCSH-13B-4	FCRCSH-13B-4A-RT	2.04 (51.8)	1.62 (41.1)	1/2 (12.7)	FCRC-13C
FCRC-19B-4	FCRC-19B-4A-RT	FCRCS-19B-4	FCRCS-19B-4A-RT	FCRCSH-19B-4	FCRCSH-19B-4A-RT	2.72 (69.1)	2.31 (58.7)		FCRC-19C
FCRC-21B-4	FCRC-21B-4A-RT	FCRCS-21B-4	FCRCS-21B-4A-RT	FCRCSH-21B-4	FCRCSH-21B-4A-RT	2.98 (75.7)	2.55 (64.8)		FCRC-21C
FCRC-26B-4	FCRC-26B-4A-RT	FCRCS-26B-4	FCRCS-26B-4A-RT	FCRCSH-26B-4	FCRCSH-26B-4A-RT	3.66 (93.0)	3.24 (82.3)		FCRC-26C
FCRC-13B-6	FCRC-13B-6A-RT	FCRCS-13B-6	FCRCS-13B-6A-RT	FCRCSH-13B-6	FCRCSH-13B-6A-RT	2.04 (51.8)	1.62 (41.1)	3/4 (19.1)	FCRC-13C
FCRC-19B-6	FCRC-19B-6A-RT	FCRCS-19B-6	FCRCS-19B-6A-RT	FCRCSH-19B-6	FCRCSH-19B-6A-RT	2.72 (69.1)	2.31 (58.7)		FCRC-19C
FCRC-21B-6	FCRC-21B-6A-RT	FCRCS-21B-6	FCRCS-21B-6A-RT	FCRCSH-21B-6	FCRCSH-21B-6A-RT	2.98 (75.7)	2.55 (64.8)		FCRC-21C
FCRC-26B-6	FCRC-26B-6A-RT	FCRCS-26B-6	FCRCS-26B-6A-RT	FCRCSH-26B-6	FCRCSH-26B-6A-RT	3.66 (93.0)	3.24 (82.3)		FCRC-26C

Flame Retardant Nylon, RMS-19 available by special order. To order, add -19

WIRE ROUTING, CLIPS & CLAMPS

CFCC

C-Type Flat Cable Clamp



Features

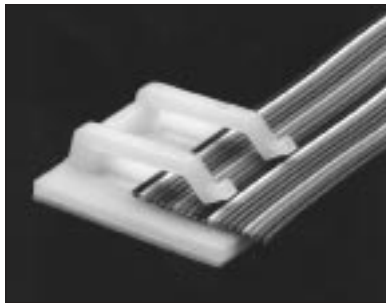
- Serrated grip prevents slippage

Adhesive Back: RMS-15				
Part No.	Standard Pack: 1000 per bag			Material/Color
	"A"	"B" Ref.	"C" Ref.	
CFCC-3-05A-RT	9/16 (14.3)	.49 (12.4)	.18 (4.6)	Noryl, RMS-05 / White
CFCC-4-05A-RT		.40 (10.2)		
CFCC-8-05A-RT	1 - 1/16 (27.0)	.88 (22.4)	1/4 (6.4)	
CFCC-8-04A-RT				

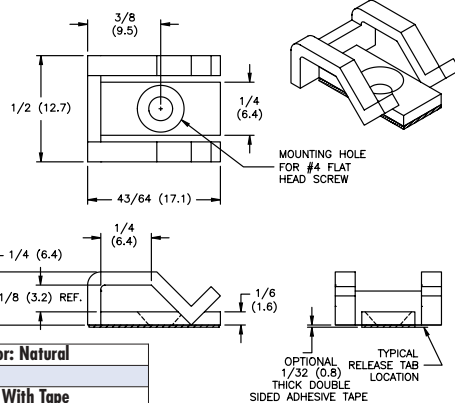
Custom lengths available by special order.

SFCC

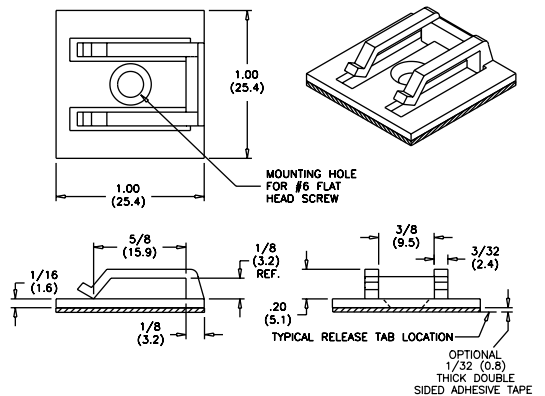
Split Flat Cable Clamp



SFCC-4



SFCC-8



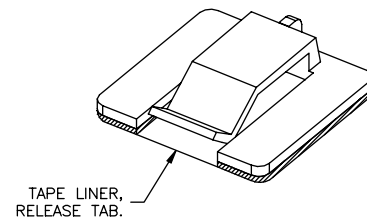
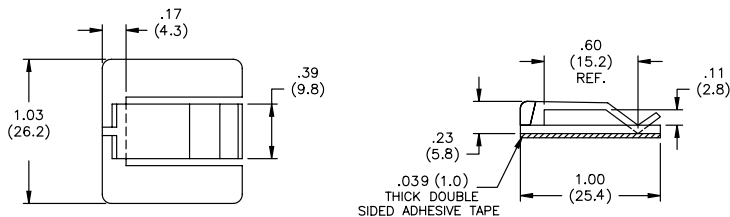
Material: Nylon 6/6, RMS-01; Adhesive Back, RMS-15 • Color: Natural
Standard Pack: 1000 per bag

Part No. W/O Tape	Part No. With Tape
SFCC-4-01	SFCC-4-01A-RT
SFCC-8-01	SFCC-8-01A-RT

Flame Retardant Nylon available by special order. To order replace -01 with -19

CFCCS-8-01A

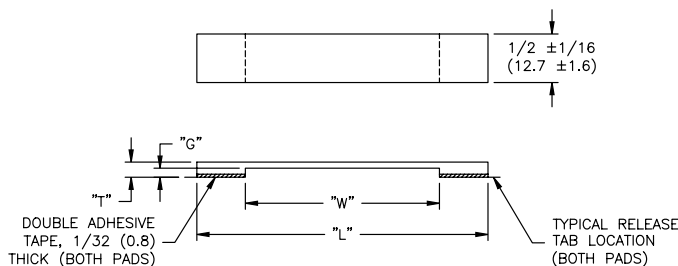
C-Type Flat Cable Clamps - Split



Material: Nylon 6/6, RMS-01 • Adhesive Back, RMS-93 Color: Natural Standard Pack: 1000 per bag
--

WIRE ROUTING, CLIPS & CLAMPS

FCC Flat Cable Clamp

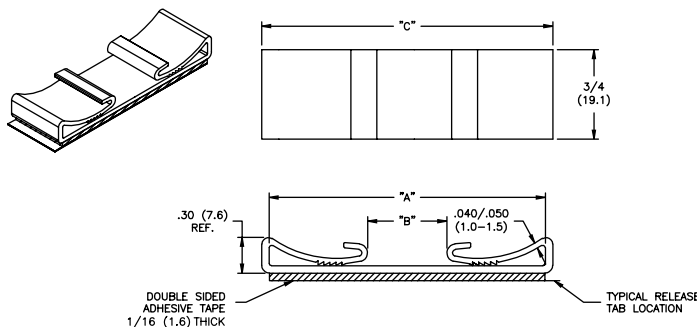


Material: PVC, RMS-04 • **Adhesive Back:** RMS-15
Color: Black

Part No.	Standard Pack: 100 per bag			
	Clamp Width "L" +1/8 (3.2) -0	Opening Width "W" +1/16 (1.6) -0	Clamp Thickness "T" +.015 (0.4) -.020 (0.5)	Holding Thickness "G" +.010 (0.3) -.020 (0.5)
FCC-4-3-RT	1.5 (38.1)	.500 (12.7)	5/32 (4.0)	3/32 (2.4)
FCC-6-3-RT	1.7 (43.2)	.700 (17.8)		
FCC-8-3-RT	2 (50.8)	1 (25.4)		
FCC-16-3-RT	3 (76.2)	2 (50.8)		
FCC-24-3-RT	4 (101.6)	3 (76.2)		

Custom lengths are available by special order.

DFCC Dual Flat Cable Clamp



Material: PVC, RMS-04 • **Adhesive Back:** RMS-15
Color: Black

Part No.	Standard Pack: 100 per bag			
	"A" ± 1/32 (0.8)	"B" Ref.	"C" Ref.	No. of Conductors
DFCC-2-RT	2 - 5/16 (58.7)	21/32 (16.7)	2-7/16 (61.9)	34-37-40
DFCC-3-RT	3 - 1/4 (82.6)	1-39/64 (40.9)	3-3/8 (85.7)	50-60-64

Custom lengths are available by special order.

Features

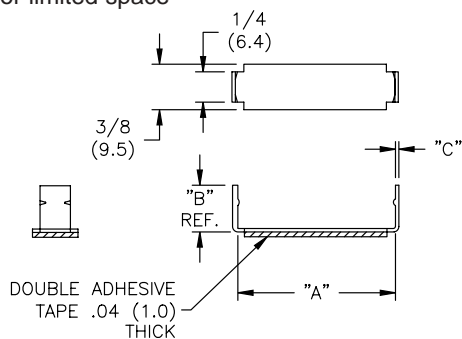
- Serrated grips prevent slippage
- Self extinguishing V-0 rated material

AFCC Aluminum Flat Cable Clamp

Aluminum Flat Cable Clamp

Features

- Simply bend retaining arms to secure ribbon cable
- Low profile for limited space applications

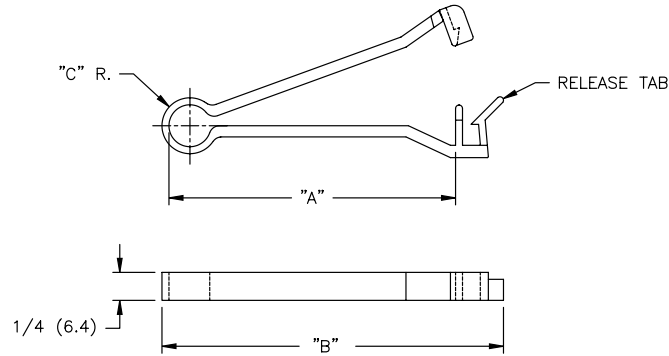
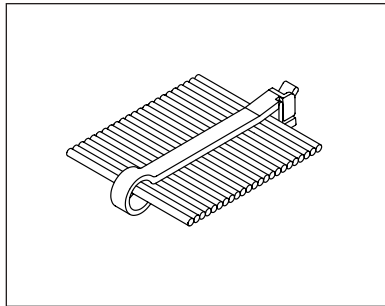


Material: Aluminum • **Adhesive Back:** RMS-34
Color: Bright Finish

Part No.	Standard Pack: 250 per bag		
	Cable Width "A"	"B"	"C"
AFCC-08	1/2 (12.7)	1/4 (6.4)	.02 (0.5)
AFCC-12	3/4 (19.1)	1/4 (6.4)	
AFCC-16	1 (25.4)	5/16 (7.9)	
AFCC-20	1 - 1/4 (31.8)	3/8 (9.5)	
AFCC-21	1 - 5/16 (33.3)	.385 (9.8)	.03 (0.8)
AFCC-24	1 - 1/2 (38.1)	7/16 (11.1)	
AFCC-27.5	1.715 (43.6)	.490 (12.4)	
AFCC-28	1 - 3/4 (44.5)	1/2 (12.7)	
AFCC-32	2 (50.8)	9/16 (14.3)	
AFCC-36	2 - 1/4 (57.2)	5/8 (15.9)	
AFCC-40	2 - 1/2 (63.5)	11/16 (17.5)	
AFCC-44	2 - 3/4 (69.9)	3/4 (19.1)	
AFCC-48	3 (76.2)	13/16 (20.6)	

WIRE ROUTING, CLIPS & CLAMPS

FCLC/FCLCS Flat Cable Loop Clip



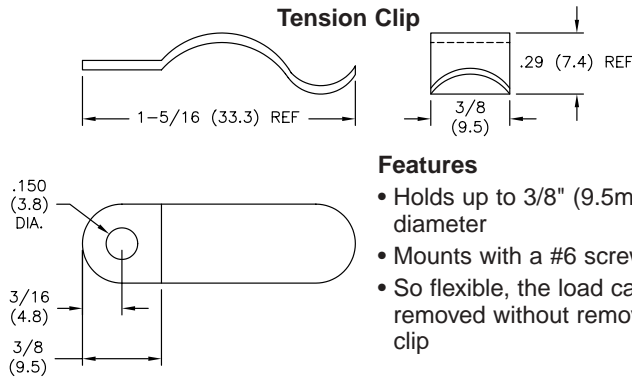
Material: Nylon 6/6, RMS-01
Color: Natural

Part No.	Standard Pack: 500 per bag		
	"A" Max. Cable Width	"B" Ref.	"C" Ref.
FCLCS	1.5 (38.1)	2.0 (50.8)	.23 (5.8)
FCLC	2.5 (63.5)	3.0 (76.2)	.25 (6.4)

Features

- Releasable and reusable

TC-30-1 Tension Clip

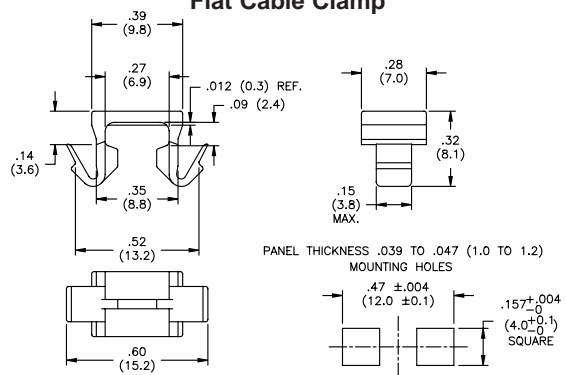


Features

- Holds up to 3/8" (9.5mm) diameter
- Mounts with a #6 screw
- So flexible, the load can be removed without removing clip

Material: Acetal, RMS-14
Color: Natural or Black, specify when ordering. To order black, use Part Number TC-30-1BK
Standard Pack: 1000 per bag
Nylon 6/6, RMS-01 available by special order

FCCE-9-01 Flat Cable Clamp



PANEL THICKNESS .039 TO .047 (1.0 TO 1.2)
MOUNTING HOLES

NOTE:

Holds down ribbon cable up to 1/4" wide

Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

HFC

Hinged Flat Cable Clamp



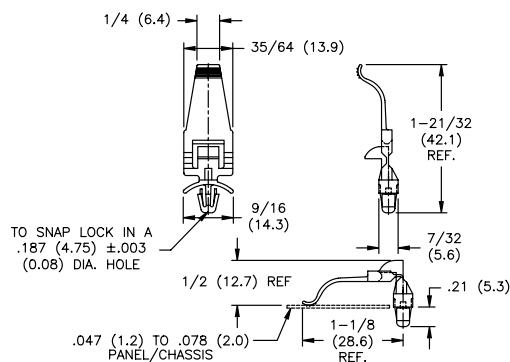
Features

- Hinged design allows cables to be orientated prior to closure

NOTE:

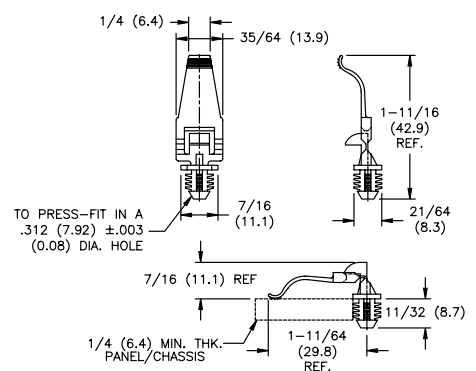
Use HFCC-A for thinner panels
Use HFCC-BH primarily for particle board

HFCC-A-8-01



TO SNAP LOCK IN A
.187 (4.75) ±.003
(0.08) DIA. HOLE

HFCC-BH-8-01



TO PRESS-FIT IN A
.312 (7.92) ±.003
(0.08) DIA. HOLE

Material: Nylon 6/6, RMS-01
Color: Natural

Standard Pack: 1000 per bag

Introduction

General Features

Richco manufactures a complete line of products for the management of fiber and copper bundles. Richco's fiber optic management network is the only complete system of specialized products designed to protect and route fiber. These products have been designed to eliminate the potential hazards resulting from the mishandling of optical fibers during installation, maintenance and upgrade. The products can be used as a system or individually as appropriate. Richco also offers a complete line of Harness Rap, Corrugated Tubing, and Slotted Ducting to cover a wide range of applications. The following are just a few of the products you will find in this section.

Slit Harness Wrap

This innovative product has been designed to cut your installation time substantially over traditional harness wrap. With easy motion, the installation tool allows wrap to glide over wiring to both secure and protect.

The Miniflex Optical Fiber Bend Limiting Tubing

The OFBLT offers the highest available fiber protection by resisting crushing, kinking, and limiting fiber bends to an acceptable radius. This product is second to none for fiber routing management, patching, reconfiguration and fiber protection during rough or repeated handling. This product is excellent for use in patch cord applications.

Applications

Special Packaging

Typical Applications Include:

- Datacom Industry
- Wire Harness Industry
- Telecom Industry
- Electrical Industry
- Office Automation Industry
- Aircraft Industry

For ease of use, individual products are standard pack. Custom kits for specific installing applications are available by special order. Please consult the factory to discuss your requirement.

Optical Fiber Installation - The Achilles Heel

Optical Fiber is the future for communications into the 21st century. However, optical fibers are vulnerable, particularly within the critical areas of fiber breakout and management. It is here that transient losses in signal strength can occur which may trigger alarms or cause data errors. Total signal failure, or permanent reduction, will mean costly rework of joints and terminations.

The problems include:

- Kinking of fiber element tubes at cable breakout and routing areas.
- Micro-bending of fibers from crushing and pulling.
- Macro-bending of fibers from poor management and congestion.

Any or all of these problems can occur during routing work on the fiber infrastructure and some problems will not become evident until the system is in use and complaints are received!

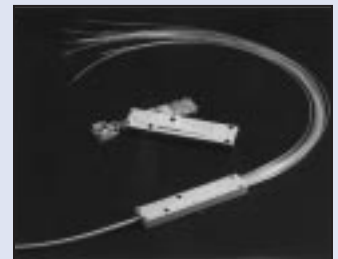
The Solution

Miniflex technology manufactured by Richco and Richco standard products provide the complete solution to the above problems.

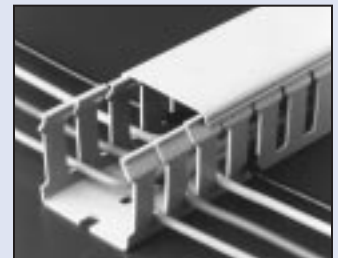
The following pages show a range of unique fiber optic products created by Miniflex and Richco. They give the installers and users total peace of mind by ensuring that fiber are protected in all circumstances.



Optical Fiber Bend Limiting Tubing



Optical Fiber Flat Manifold



Slotted Richco Wiring Duct



Slit Harness Wrap



Cable Breakout Unit

CABLE & FIBER MANAGEMENT

HR Harness Rap

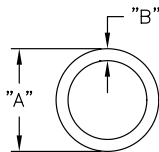
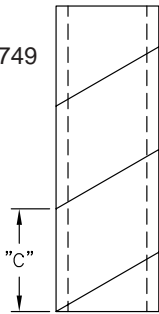


Features

- Free assembly tool with every 100 feet
- Retains elasticity



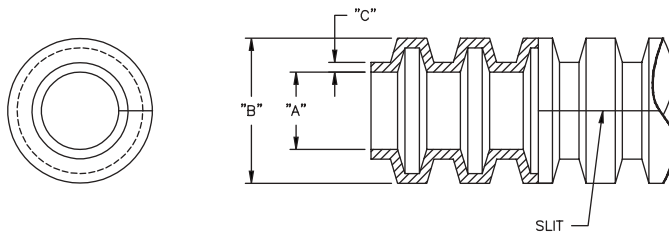
• UL #E208749



Part No.	Material / Color	"A" Ref.	"B" Ref.	"C" Ref.	Bundle Range	Standard Pack in Feet
HR2N-1/8	Nylon (RMS-88) Natural	1/8 (3.2)	.020 (0.5)	.17 (4.3)	1/16 to 1/2 (1.6 - 12.7)	100' rolls
HR3N-3/16		3/16 (4.8)	.030 (0.8)	.25 (6.4)	1/8 to 1 (3.2 - 25.4)	
HR4N-1/4		1/4 (6.4)	.040 (1.0)	.30 (7.6)	3/16 to 1-1/2 (4.8 - 38.7)	
HR6N-3/8		3/8 (9.5)		.38 (9.5)	5/16 to 2 (7.9 - 50.8)	
HR8N-1/2		1/2 (12.7)	.060 (1.5)	.50 (12.7)	3/4 to 4 (19.1 - 101.6)	
HR12N-3/4		3/4 (19.1)		.75 (19.1)	3/4 to 5 (19.1 - 127.0)	
HR16N-1	1 (25.4)	.070 (1.8)	1.0 (25.4)	1 to 7 (25.4 - 177.8)		
HR2P-1/8	Polyethylene (RMS-06) Natural	1/8 (3.2)	.020 (0.5)	.17 (4.3)	1/16 to 1/2 (1.6 - 12.7)	
HR3P-3/16		3/16 (4.8)	.030 (0.8)	.25 (6.4)	1/8 to 1 (3.2 - 25.4)	
HR4P-1/4		1/4 (6.4)		.30 (7.6)	3/16 to 1-1/2 (4.8 - 38.7)	
HR6P-3/8		3/8 (9.5)	.050 (1.3)	.38 (9.5)	5/16 to 2 (7.9 - 50.8)	
HR8P-1/2		1/2 (12.7)	.060 (1.5)	.50 (12.7)	3/4 to 4 (19.1 - 101.6)	
HR12P-3/4		3/4 (19.1)		.75 (19.1)	3/4 to 5 (19.1 - 127.0)	
HR16P-1	1 (25.4)	.070 (1.8)	1.0 (25.4)	1 to 7 (25.4 - 177.8)		
HR2R-1/8	Flame Retardant Polyethylene (RMS-07) White	1/8 (3.2)	.020 (0.5)	.17 (4.3)	1/16 to 1/2 (1.6 - 12.7)	
HR3R-3/16		3/16 (4.8)	.030 (0.8)	.25 (6.4)	1/8 to 1 (3.2 - 25.4)	
HR4R-1/4		1/4 (6.4)	.050 (1.3)	.30 (7.6)	3/16 to 1-1/2 (4.8 - 38.7)	
HR6R-3/8		3/8 (9.5)		.38 (9.5)	5/16 to 2 (7.9 - 50.8)	
HR8R-1/2		1/2 (12.7)	.060 (1.5)	.50 (12.7)	3/4 to 4 (19.1 - 101.6)	
HR12R-3/4		3/4 (19.1)		.75 (19.1)	3/4 to 5 (19.1 - 127.0)	
HR16R-1	1 (25.4)	.070 (1.8)	1.0 (25.4)	1 to 7 (25.4 - 177.8)		
HR2U-1/8	U.V. Stabilized Polyethylene (RMS-06) Black	1/8 (3.2)	.020 (0.5)	.17 (4.3)	1/16 to 1/2 (1.6 - 12.7)	
HR3U-3/16		3/16 (4.8)	.030 (0.8)	.25 (6.4)	1/8 to 1 (3.2 - 25.4)	
HR4U-1/4		1/4 (6.4)	.050 (1.3)	.30 (7.6)	3/16 to 1-1/2 (4.8 - 38.7)	
HR6U-3/8		3/8 (9.5)		.38 (9.5)	5/16 to 2 (7.9 - 50.8)	
HR8U-1/2		1/2 (12.7)	.060 (1.5)	.50 (12.7)	3/4 to 4 (19.1 - 101.6)	
HR12U-3/4		3/4 (19.1)		.75 (19.1)	3/4 to 5 (19.1 - 127.0)	
HR16U-1	1 (25.4)	.070 (1.8)	.50 (12.7)	1 to 7 (25.4 - 177.8)		
HR2V-1/8	Polycarbonate (RMS-23) Clear	1/8 (3.2)	.030 (0.8)	1.0 (25.4)	1/16 to 1/2 (1.6 - 12.7)	
HR3V-3/16		3/16 (4.8)		.25 (6.4)	1/8 to 1 (3.2 - 25.4)	
HR4V-1/4		1/4 (6.4)	.025 (0.6)	.30 (7.6)	3/16 to 1-1/2 (4.8 - 38.7)	
HR6V-3/8		3/8 (9.5)	.030 (0.8)	.38 (9.5)	5/16 to 2 (7.9 - 50.8)	
HR8V-1/2		1/2 (12.7)	.035 (0.9)	.50 (12.7)	3/4 to 4 (19.1 - 101.6)	
HR12V-3/4		3/4 (19.1)	.045 (1.1)	.75 (19.1)	3/4 to 5 (19.1 - 127.0)	

Custom lengths and colors available by special order.
HR is a RIGHT-handed wrap. LEFT-handed wrap is available by special order.

CT Corrugated Tubing



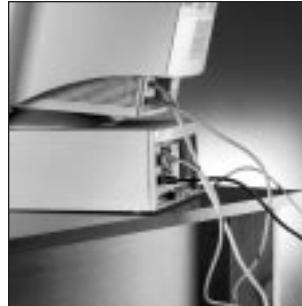
Material: Nylon 6, RMS-58 • Color: Black

Part No.	Standard Pack: 100 Feet Coils (30 meters)		
	"A" ±.015 (±0.4)	"B" Ref.	"C"
CT-4	.270 (6.9)	.389 (9.9)	.017±.003 (0.40±0.08)
CT-6	.417 (10.6)	.545 (13.8)	
CT-8	.505 (12.8)	.685 (17.4)	
CT-10	.655 (16.6)	.820 (20.8)	
CT-14	.760 (19.3)	.940 (23.9)	
CT-16	.935 (23.7)	1.100 (27.9)	
CT-20	1.260 (32.0)	1.500 (38.1)	.020±.005 (0.50±0.13)



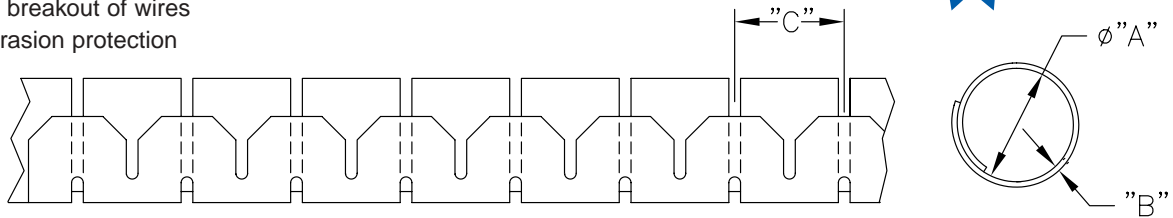
• UL #E208749

SHR Slit Harness Wrap



Features

- Easy to use. Simply feed the wires into the tools, feed the wrap over the horn and zip
- Allows easy breakout of wires
- Provides abrasion protection



Material: See Chart • Color: See Chart

Part No.	A Ref.	Max. Bundle Dia.	B Ref.	C Ref.	Standard Lengths	Material / Color	Installation Tool Part No.	Installation Tool Material
SHR-08-6NB	.31 (8.0)	.39 (10.0)	.032 (0.8)	.39 (10.0)	100m (328 ft)	Nylon (RMS-88) / Black	CAT-08-PP	Polypropylene
SHR-15-6NB	.59 (15.0)	.63 (16.0)	.032 (0.8)	.55 (14.0)	50m (164 ft)		CAT-15-PP	
SHR-20-6NB	.79 (20.0)	.90 (23.0)	.035 (0.9)	.67 (17.0)	30m (98 ft)		CAT-20-PP	
SHR-25-6NB	.98 (25.0)	.98 (25.0)	.039 (1.0)	.79 (20.0)	20m (65 ft)		CAT-25-PP	
SHR-32-6NB	1.25 (32)	1.25 (32)	.050 (1.3)	.98 (24.9)	15m (49 ft)		CAT-32-PP	
SHR-08-6V0B	.31 (8.0)	.39 (10.0)	.032 (0.8)	.39 (10.0)	100m (328 ft)	Flame Retardant Nylon (RMS-95) / Black	CAT-08-PP	
SHR-15-6V0B	.59 (15.0)	.63 (16.0)	.032 (0.8)	.55 (14.0)	50m (164 ft)		CAT-15-PP	
SHR-20-6V0B	.79 (20.0)	.90 (23.0)	.035 (0.9)	.67 (17.0)	30m (98 ft)		CAT-20-PP	
SHR-25-6V0B	.98 (25.0)	.98 (25.0)	.039 (1.0)	.79 (20.0)	20m (65 ft)		CAT-25-PP	
SHR-32-6V0B	1.25 (32)	1.25 (32)	.050 (1.3)	.98 (24.9)	15m (49 ft)		CAT-32-PP	
SHR-08-PPB	.31 (8.0)	.39 (10.0)	.032 (0.8)	.39 (10.0)	100m (328 ft)	Polypropylene (RMS-94) / Black	CAT-08-PP	
SHR-15-PPB	.59 (15.0)	.63 (16.0)	.032 (0.8)	.55 (14.0)	50m (164 ft)		CAT-15-PP	
SHR-20-PPB	.79 (20.0)	.90 (23.0)	.035 (0.9)	.67 (17.0)	30m (98 ft)		CAT-20-PP	
SHR-25-PPB	.98 (25.0)	.98 (25.0)	.039 (1.0)	.79 (20.0)	20m (65 ft)		CAT-25-PP	
SHR-32-PPB	1.25 (32)	1.25 (32)	.050 (1.3)	.98 (24.9)	15m (49 ft)		CAT-32-PP	

Available in various colors by special order.

Tool available in bulk packages of 100/box. To order add -BU to the end of the part number.

Tool for sizes -20, -25 and -32 available in glass filled nylon for frequent use. To order, replace -PP with -IX

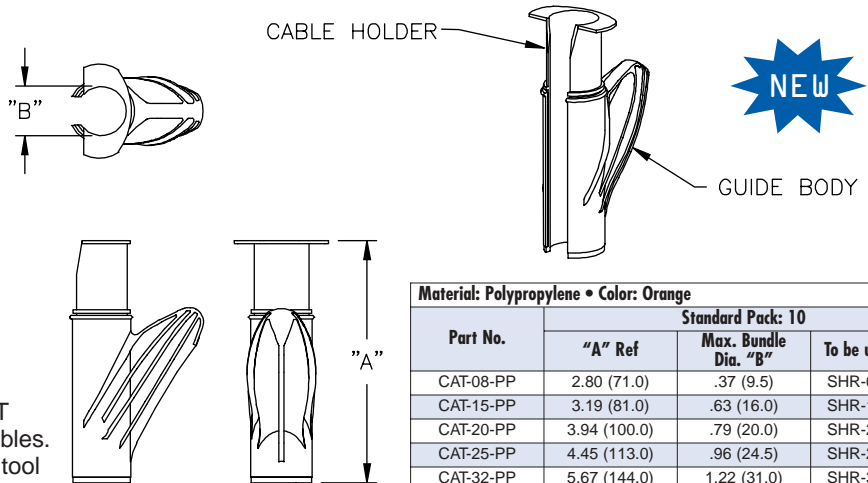
CAT Installation Tool



Sample kits are available that include the -08 size of the wrap with the CAT tool. They are available free from the Richco Sample Department.

Note:

- To use the SHR, insert cables into the CAT tool. Rotate the tool shut, locking in the cables. Slide the tubing over the horn and zip the tool along the cables locking them in.



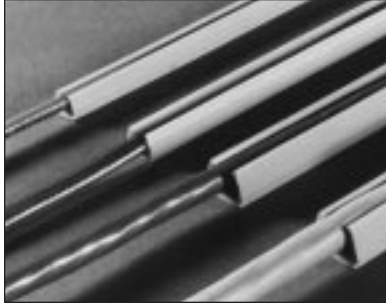
Material: Polypropylene • Color: Orange			
Part No.	Standard Pack: 10		
	"A" Ref	Max. Bundle Dia. "B"	To be used with
CAT-08-PP	2.80 (71.0)	.37 (9.5)	SHR-08-YYY*
CAT-15-PP	3.19 (81.0)	.63 (16.0)	SHR-15-YYY*
CAT-20-PP	3.94 (100.0)	.79 (20.0)	SHR-20-YYY*
CAT-25-PP	4.45 (113.0)	.96 (24.5)	SHR-25-YYY*
CAT-32-PP	5.67 (144.0)	1.22 (31.0)	SHR-32-YYY*

*YYY-SHR material

CABLE & FIBER MANAGEMENT

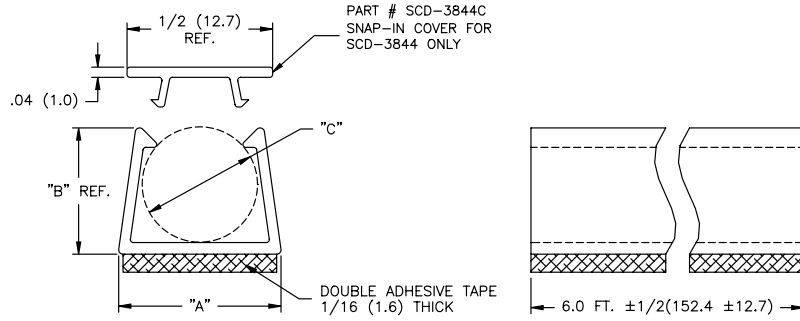
SCD

Single Cable Duct



Features

- Designed to hold a single cable

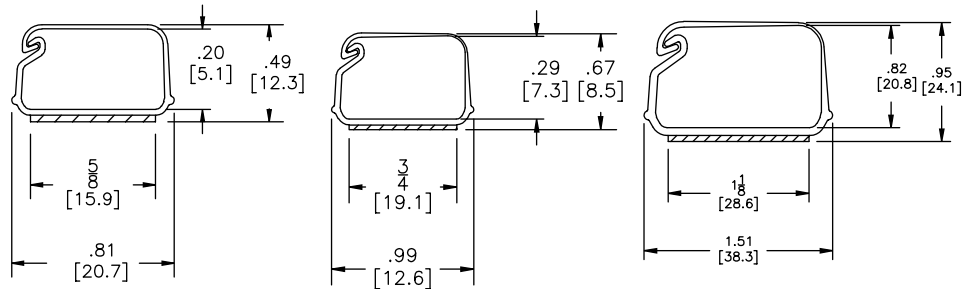


Material: Rigid PVC, RMS-32; Adhesive, RMS-15 • Color: Computer Tan

Part No.	Standard Pack: 60 ft.; ten 6 foot long pieces			Cable Recommendations	
	"A"	"B" Ref.	"C" Holding Dia.	COAX	COMPUTER
SCD-1521	.30 (7.6)	.25 (6.4)	.156 - .218 (4.0 - 5.5)	RG58	—
SCD-2228	.36 (9.1)	.29 (7.4)	.218 - .280 (5.5 - 7.1)	RG59,62,6	9 Line
SCD-2838	.47 (11.9)	.38 (9.7)	.280 - .375 (7.1 - 9.5)	Twiax	9-15 Line
SCD-3844	.55 (14.0)	.43 (10.9)	.375 - .438 (9.5 - 11.1)	—	25 Line

SRL

Surface Raceway



SRL-3-WH6A

SRL-5-WH6A

SRL-10-WH6A

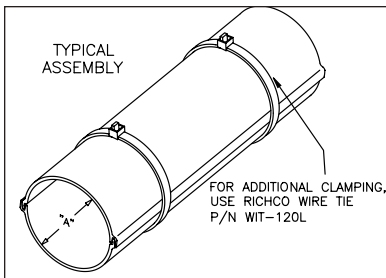
Material: Rigid PVC, RMS -04; Adhesive, RMS-15, 1/32 Thick • Color: White

Part No.	Standard Pack: 6' length; custom lengths available by special order		
	Tape	Wall Thickness (typ.)	Length
SRL-3-WH6A	5/8 x 1/32	.029	72 ± .25
SRL-5-WH6A	3/4 x 1/32	.04	
SRL-10-WH6A	1-1/8 x 1/32	.06	



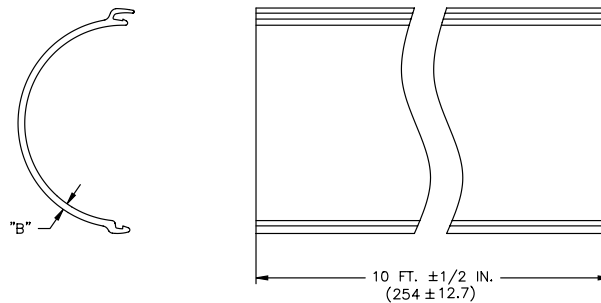
P-O-D

Pair-O-Ducts



Features

- Dense shipping with split design
- Halves snap together to form a tube
- Mainly used for underground applications



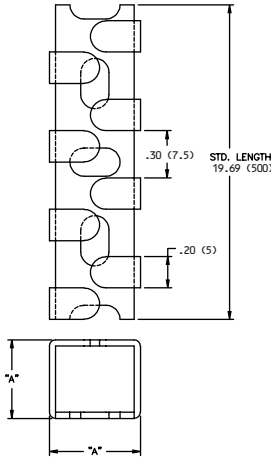
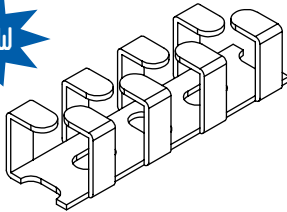
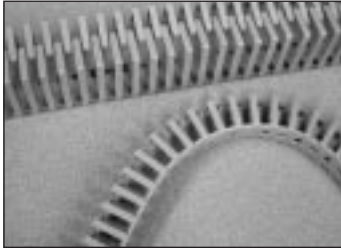
Material: Rigid PVC, RMS-32 • Color: White

Part No.	Standard Pack: 10 foot halves	
	"A" Ref.	"B"
POD-3.5	3.5 (88.9)	.120 (3.0)
POD-4	4 (101.6)	.127 (3.2)
POD-5	5 (127.0)	.145 (3.7)

Custom lengths are available by special order.

RX

Richflex Flexible Channel



Features

- Available with or without adhesive

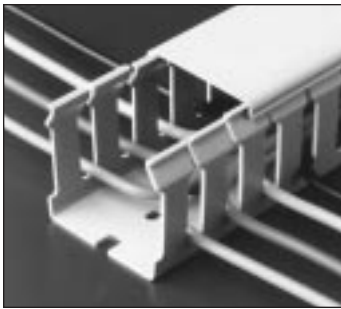
Material: Polypropylene • Color: Grey

Part No.	Ext. Dim. "A" x "A" in (mm)	Type	Int. Section in ² (mm ²)	Standard Packing (pcs)
RX1313-0	.492 x .492	VMHDY40	.171 (110)	112
RX1313-4	(12.5 x 12.5)	AMHD40		
RX1616-0	.630 x .630	VMHDY40	.287 (185)	84
RX1616-4	(16 x 16)	AMHD40		
RX2020-0	.787 x .787	VMHDY40	.496 (320)	112
RX2020-4	(20 x 20)	AMHD40		
RX2525-0	.984 x .984	VMHDY40	.775 (500)	70
RX2525-4	(25 x 25)	AMHD40		
RX3030-0	1.181 x 1.181	VMHDY40	1.116 (720)	50
RX3030-4	(30 x 30)	AMHD40		
RX4040-0	1.575 x 1.575	VMHDY40	2.046 (1320)	50
RX4040-4	(40 x 40)	AMHD40		
RX5050-0	1.969 x 1.969	VMHDY40	3.162 (2040)	32
RX5050-4	(50 x 50)	AMHD40		

Part Type Code: A - Adhesive Backing; D - UL94V2; H - Halogen Presence Insignificant (<70%); M - Polypropylene; V - Screw Mount; 40 - Gray RAL7040.

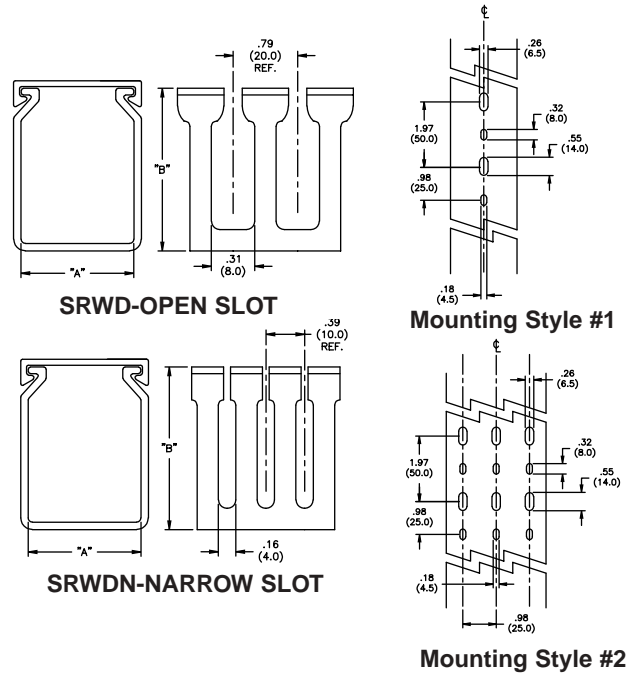
SRWD/SRWDN

Slotted Richco Wiring Duct



Features

- Holds breakout wires while providing flexibility for adding or removing wires later
- Simply deflect the plastic fingers to insert or remove wires
- Non-slip cover is easy to use and included with base
- Parts are 6-1/2' (1.98m) long
- Material is serviceable from -40°F – 140°F (-40°C – 60°C)
- Fingers are scored for easy break out



Material: PVC (UL #E161178) (CSA #LR40012-7)
Color: Gray

Part No.	"A"	"B"	Standard Pack	Mounting Style
SRWD-0820	.75 (19.1)	2.0 (50.8)	78' (1981.2)	1
SRWD-1015	1.0 (25.4)	1.5 (38.1)		
SRWD-1020		2.0 (50.8)		
SRWD-1030		3.0 (76.2)		
SRWD-1040		4.0 (101.6)		
SRWD-1515	1.5 (38.1)	78' (1981.2)		
SRWD-1520	1.5 (38.1)	2.0 (50.8)	52' (1320.8)	
SRWD-1530		3.0 (76.2)		
SRWD-1540		4.0 (101.6)		
SRWD-2010		1.0 (25.4)		
SRWD-2015	1.5 (38.1)	52' (1320.8)		
SRWD-2020	2.0 (50.8)			
SRWD-2030	3.0 (76.2)			
SRWD-2040	4.0 (101.6)			
SRWD-2040	4.0 (101.6)	26' (660.4)	2	
SRWD-3015	1.5 (38.1)	52' (1320.8)		
SRWD-3020	2.0 (50.8)			
SRWD-3030	3.0 (76.2)			
SRWD-3040	4.0 (101.6)			
SRWD-4020	2.0 (50.8)	26' (660.4)		
SRWD-4030	3.0 (76.2)			
SRWD-4040	4.0 (101.6)			
SRWD-4050	5.0 (127.0)			

Parts also available in White, Black and Blue by special order. To order, add suffix W for White, BL for Blue, and B for Black

Material: PVC (UL #E161178) (CSA #LR40012-7)
Color: Gray

Part No.	"A"	"B"	Standard Pack	Mounting Style
SRWDN-0820	.75 (19.1)	2.0 (50.8)	78' (1981.2)	1
SRWDN-1015	1.0 (25.4)	1.5 (38.1)		
SRWDN-1020		2.0 (50.8)		
SRWDN-1030		3.0 (76.2)		
SRWDN-1515		1.5 (38.1)	78' (1981.2)	
SRWDN-1520	1.5 (38.1)	2.0 (50.8)	52' (1320.8)	
SRWDN-1530		3.0 (76.2)		
SRWDN-2015		1.5 (38.1)		
SRWDN-2020		2.0 (50.8)		
SRWDN-2030	3.0 (76.2)	26' (660.4)		
SRWDN-3015	1.5 (38.1)			
SRWDN-3020	2.0 (50.8)			
SRWDN-3030	3.0 (76.2)			
SRWDN-4020	2.0 (50.8)	26' (660.4)		
SRWDN-4030	3.0 (76.2)			

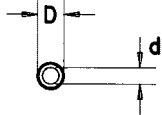
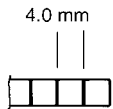
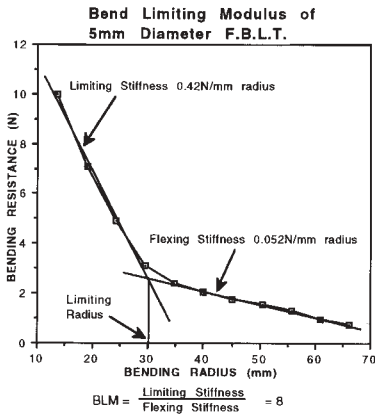
Parts also available in White, Black and Blue by special order. To order, add suffix W for White, BL for Blue, and B for Black

OFBLT

Optical Fiber Bend Limiting Tubing



Miniflex technology manufactured by Richco – Patented



Description

The routing of fiber, cable and patch cords in racks and cable nodes is generally a difficult exercise. The resulting “spaghetti” is prone to transient losses and transmission failures, seriously risking fiber life and efficiency.

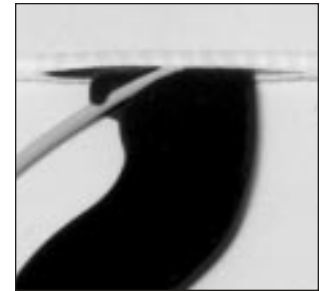
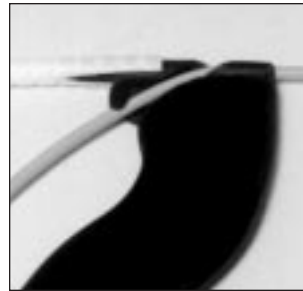
Miniflex Optical Fiber Bend Limiting Tubing (OFBLT) gives the highest available protection to these problems by resisting crushing and kinking and limiting fiber bends to an acceptable radius. A range of fittings and adapters are available for use with the Optical Fiber Bend Limiting Tubing. This allows fiber routing management, patching, reconfiguration and rough handling to occur repeatedly without fiber breaks or unintentional transmission loss.

Features

- Smooth bore
- Bend limitation at a controlled radius of 30mm
- Can be cut to length with fiber inside
- Suitable for fiber or patch cords up to .12 (3.1mm) OD
- Crush protection
- Improved fiber management
- Bend-limiting modulus: > 8 (see graph)
- Crush resistance is measured over 100mm; distortion < .5mm

Part No.		Standard Pack: 100 meters / reel		
Material: Polypropylene Color: White	Material: P.B.T. UL94 V-0 Rated Color: Black	D	d	Crush Resistance
STANDARD VERSION				
OFBLT-2.6-05-PP	—	.20 (5.0mm)	.10 (2.6mm)	>1.0kN
OFBLT-3.1-05-PP	OFBLT-3.1-05-PBT V0	.20 (5.0mm)	.12 (3.1mm)	>0.5kN
OFBLT-4.2-635-PP	OFBLT-4.2-635-PBT V0	.25 (6.35mm)	.17 (4.2mm)	>0.5kN
PULL-CORD VERSION				
OFBLT-P-2.6-05-PP	—	.20 (5.0mm)	.10 (2.6mm)	>1.0kN
OFBLT-P-3.1-05-PP	OFBLT-P-3.1-05-PBT V0	.20 (5.0mm)	.12 (3.1mm)	>0.5kN
OFBLT-P-4.2-635-PP	OFBLT-P-4.2-635-PBT V0	.25 (6.35mm)	.17 (4.2mm)	>0.5kN
SLIT VERSION				
OFBLTS-2.6-05-PP	—	.20 (5.0mm)	.10 (2.6mm)	N/A
OFBLTS-3.1-05-PP	OFBLTS-3.1-05-PBT V0	.20 (5.0mm)	.12 (3.1mm)	N/A
OFBLTS-4.2-635-PP	OFBLTS-4.2-635-PBT V0	.25 (6.35mm)	.17 (4.2mm)	N/A

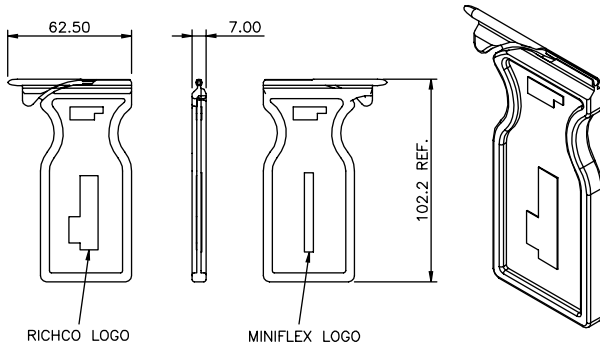
Parts available in PVDF (plenum rated) material by special order. To order, replace -PP or -PBT V0 with -PVDF • Color: Clear



OFZT-2-14-RED

OFBLT Zip Tool - 2mm

(For Fiber Bundles up to 2mm Diameter)



Features

- To be used with OFBLTS-2.6-05 tubing

Material: Acetal, RMS-14 • Color: Red
Standard Pack: 1

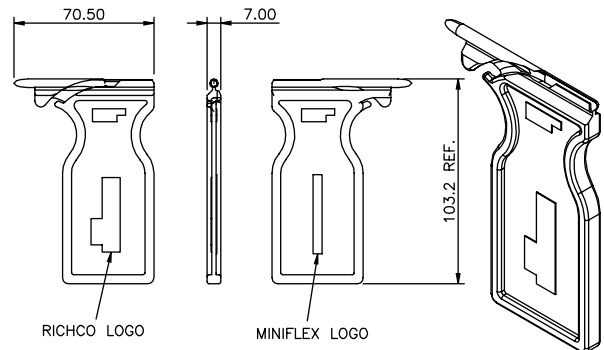
Dimensioned in millimeters



OFZT-3-14-BLK

OFBLT Zip Tool - 3mm

(For Fiber Bundles up to 3mm Diameter)



Features

- To be used with OFBLTS-3.1-05 or OFBLTS-4.2-635 tubing

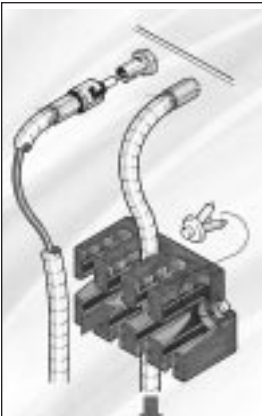
Material: Acetal, RMS-14 • Color: Black
Standard Pack: 1

Dimensioned in millimeters

CABLE & FIBER MANAGEMENT

OFSMB

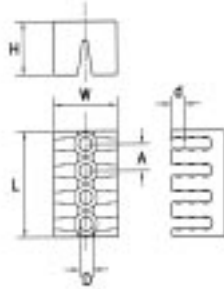
Optical Fiber Slotted Multi Bracket



Miniflex technology manufactured by Richco – Patented

Description

Miniflex Optical Fiber Slotted Multi Brackets (OFSMB/OFSSMB) are for use at distribution points where orderly fiber management, protection and strain relief is required.



Slotted Multi Brackets can be adapted to individual needs with the use of **Miniflex** Optical Fiber Bend Limiting Tubing (OFBLT). From the initial fiber entry point, superior fiber protection against bending, crushing and kinking is secured. Assembly of tubes is made easy by a simple “lay-through” design, no threaded is required. Mounting of either bracket is easy, using screws or push rivets as shown.

An additional security feature allows fitting of a cable tie around SSMB's which prevents removal of any retained tubes.

Features

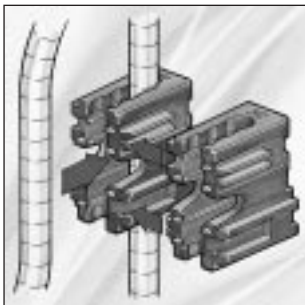
- OFBLT retention: >70N (22 lbs.)
- Holds a maximum of 12 tubes

Material: Glass Filled Flame Retardant Nylon, RMS-104 (UL 94VO) • Color: Black

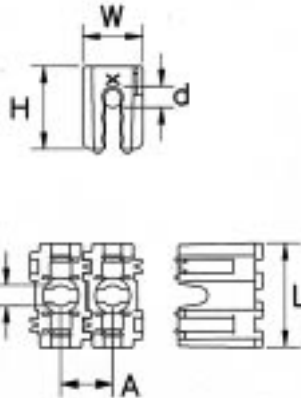
Part No.	Standard Pack: 10/bag					
	D Ø	A	d Ø	H	L	W
OFSMB-4-05-GFBLK	.20 (5.0 mm)	.39 (10.0 mm)	.20 (5.0 mm)	.78 (20.0 mm)	1.57 (40.0 mm)	.98 (25.0 mm)

OFSSMB

Optical Fiber Single Slotted Multi Bracket



Miniflex technology manufactured by Richco – Patented



Features

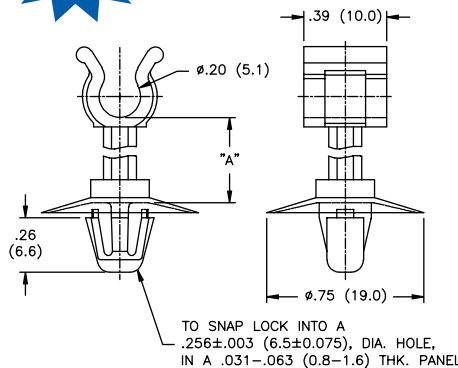
- OFBLT retention: >70N (22lb.)
- Holds a maximum of 3 tubes
- Ability to latch to other SSMB's

Material: Glass Filled Flame Retardant Nylon, RMS-104 (UL 94VO) • Color: Black

Part No.	Standard Pack: 10/bag					
	D Ø	A	d Ø	H	L	W
OFSSMB-1-05-GFBLK	.20 (5.0mm)	.49 (12.5 mm)	.20 (5.0 mm)	.78 (20.0 mm)	.98 (25.0 mm)	.57 (14.5 mm)

TPCE-5-5.1

Tube & Pipe Clip



Features

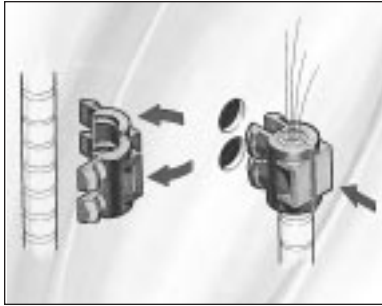
- Holds 5mm OD Optical Fiber Bend Limiting Tubing (OFBLT) for routing through any design.
- Excellent for above board routing requirements.

Color: Natural

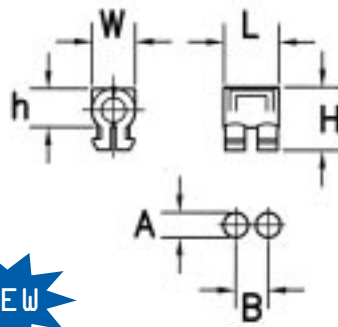
Material: Nylon 6/6, RMS-01 Part No.	Material: Flame Retardant Nylon, RMS-19 Part No.	Standard Pack: 1000 "A"
TPCE-5-5.1-4M-01	TPCE-5-5.1-4M-19	.16 (4.0)
TPCE-5-5.1-6M-01	TPCE-5-5.1-6M-19	.24 (6.0)
TPCE-5-5.1-8M-01	TPCE-5-5.1-8M-19	.32 (8.0)
TPCE-5-5.1-10M-01	TPCE-5-5.1-10M-19	.39 (10.0)

OFTGS

Optical Fiber Tube Gripper Saddle



Miniflex technology manufactured by Richco – Patented



Description

The **Miniflex** Optical Fiber Tube Gripper Saddle (OFTGS) enables Optical Fiber Bend Limiting Tube (OFBLT) to be anchored to a chassis or splice tray by the simple provision of 2 holes.

The saddle is placed over the OFBLT and closed down to engage on the external grooves of the tube, no threading is required. Secure attachment is completed by pressing the retaining feet through location holes

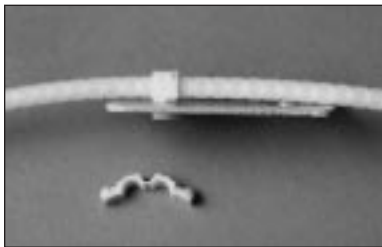
Features

- Mid point or end termination of OFBLT
- Easy to locate and use
- Provides secure fixing
- Controlled routing of fiber circuits
- Maximum panel thickness: 1.75mm (.068")

Part No.	Material	Color	Standard Pack:	h	A	B	H	L	W
OFTGS-1-05-E901	Elastomer, RMS-98	Black	100/bag	.24 (6.1mm)	.20 (5.0mm)	.275 (7.0mm)	.39 (10.0mm)	.39 (10.0mm)	.26 (6.5mm)
OFTGSP-2-05-19	Flame Retardant Nylon 6/6, RMS-19	Natural							

OFTGSP-1-05-19

Optical Fiber Tube Gripper Saddle

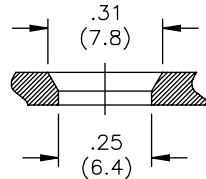


Miniflex technology manufactured by Richco – Patented

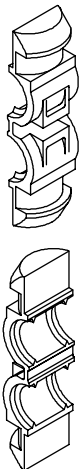
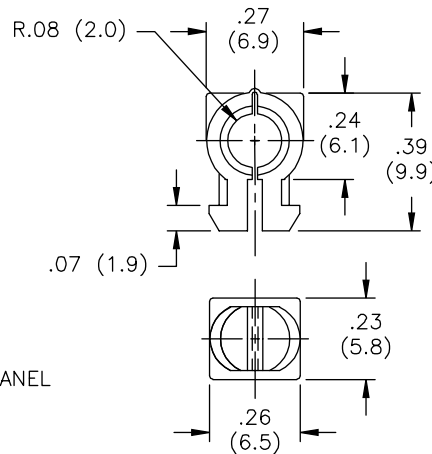
Features

- Requires only one hole for mounting

Material: Nylon 6/6 Flame Retardant, RMS-19
Color: Natural
Standard Pack: 100 per bag

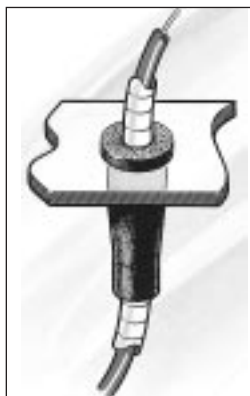


MOUNTING HOLE DETAIL
.095(2.4) MAXIMUM THICK PANEL

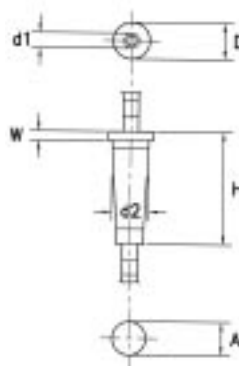


OFSRG

Optical Fiber Strain Relief Gland



Miniflex technology manufactured by Richco – Patented



Mounting Hole

Description

The **Miniflex** Optical Fiber Strain Relief Gland (OFSRG) enables ruggedized patch cords, or fiber bundles, protected in Optical Fiber Bend Limiting Tube (OFBLT) to be anchored to a chassis, or distribution trunking system, by the simple provision of a single hole.

The OFBLT is passed through the gland and is secured by the integral Tube Gripper Clip. This ensures a pull out resistance of over 100N (22 lbs.) while still ensuring a 30mm radius bend control and crush protection.

Features

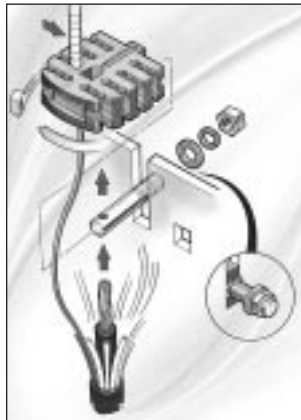
- OFBLT retention: >100N (22 lbs.)
- Mid point or end termination of OFBLT
- Provides secure fixing

Part No.	Standard Pack: 10/bag					
	D Ø	d1 Ø	d2 Ø	A Ø	H	W
OFSRG-05-BLK	.59 (15.0mm)	.20 (5.0mm)	.47 (12.0mm)	.43 (11.0 mm)	1.46 (37.0 mm)	0.12 (3.0mm)

CABLE & FIBER MANAGEMENT

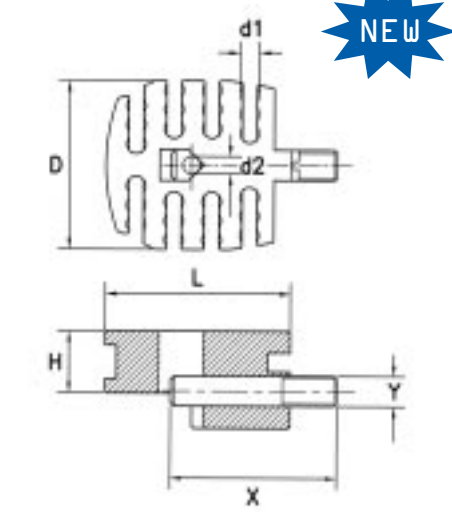
OFBCBU/OFBUGB

Optical Fiber Cable Breakout Unit



Miniflex technology manufactured by Richco – Patented

OFBUGB - "Gland Box"



Part Number	Cable Diameter
OFBCBUGB-00	4.0 - 8.5
OFBCBUGB-0	7.5 - 20.0
OFBCBUGB-1	9.5 - 13.0
OFBCBUGB-2	13.0 - 18.0
OFBCBUGB-3	17.5 - 25.0

Dimensioned in millimeters

Part No.	Standard Pack: 10/bag						
	d1	d2	D	H	L	X	Y
OFBCBU-24-05-19BLK	.20 (5.0 mm)	.19 (4.7mm)	1.73 (44.0 mm)	.63 (16.0 mm)	1.93 (49.0 mm)	1.73 (44.0 mm)	.31 (8.0 mm)

Description

At distribution points, multi-fiber cables need to have the individual fibers or cable elements separated and protected by a management system.

The cable strength member has to be terminated and anchored to prevent damage to the fibers from cable movement or pull out.

The **Miniflex** Optical Fiber Cable Breakout Unit (OFBCBU) affords quick, easy and positive arrangements of the fibers or cable elements, which are sheathed in Miniflex Optical Fiber Bend Limiting Tubing (OFBLT) to give permanent protection. Assembly of tubes is made easy by a simple "lay through" design, no threading is required.

The strength member retainer is simply inserted over the terminated cable as shown and clamps both the cable and the breakout unit to the jointing chassis.

A secure fiber management system that minimizes installation time and maximizes fiber integrity and security. Once installed, it can be left with total peace of mind.

For further protection, a GRP Gland box is available. Please contact the factory for details.

Features

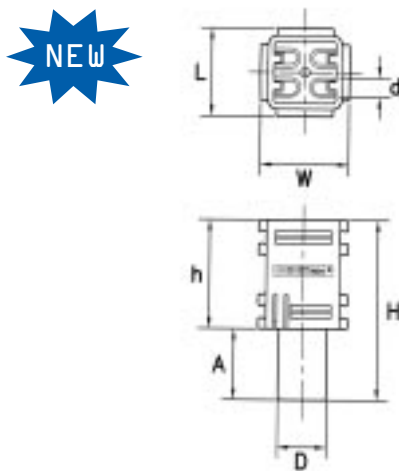
- Cable retention: >1.5kN (337 lbs.)
- OFBLT retention: >100N (22 lbs.)
- Maximum of 24 cable elements or 24 fiber bundles

OFM

Optical Fiber Manifold



Miniflex technology manufactured by Richco – Patented



Description

The **Miniflex**, 1 into 4, Optical Fiber Manifold (OFM) enables small multiple fiber cables with aramid and similar strength reinforcement or central GRP strength member to be mechanically and securely terminated. Optical Fiber Bend Limiting Tubing (OFBLT) at the output ports gives full radius control and crush protection while still allowing an easy to route fiber "lay-through" design. OFBLT can also be used at the input port

Features

- Fiber Bend Control: 30mm (1.18") radii minimum
- Ability to stack
- Tube retention: >100N (22 lbs.)
- For OFM Crimp Rings (For terminating GRP strength members) order: OFM-CR
- For a Development Kit containing all adaptors, order: OFM-4-05-19BLK

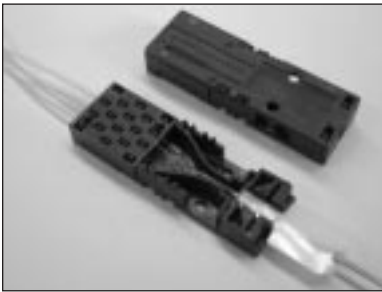
Part No.	D	h	A	d	H	L	W
OFM series	.51 (13.0 mm)	1.14 (29.0 mm)	.73 (18.5 mm)	.20 (5.0 mm)	1.87 (47.5 mm)	0.91 (23.0 mm)	0.91 (23.0 mm)

OFM-04-PG16BLK - "Gland Box"

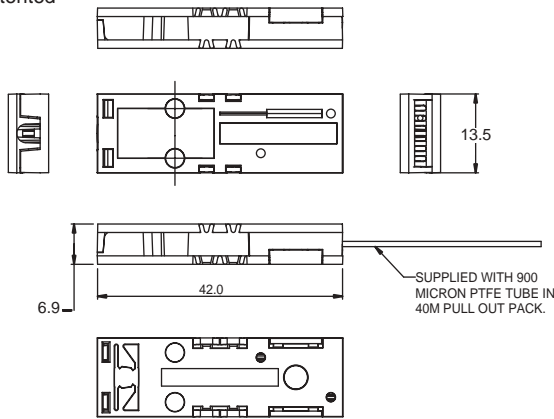


Part No.	Standard Pack: 10/bag	
	Incoming Cable Size Diameter	Adaptor Color
OFM-C-1-05-19BLK	.098 - .138 (2.5 - 3.5mm)	Black
OFM-C-2-05-19BLK	.118 - .157 (3.0 - 4.0mm)	Blue
OFM-C-3-05-19BLK	.161 - .197 (4.1 - 5.0mm)	Brown
OFM-C-4-05-19BLK	.201 - .236 (5.1 - 6.0mm)	Green
OFM-C-5-05-19BLK	.240 - .276 (6.1 - 7.0mm)	Red
OFM-C-6-05-19BLK	.280 - .335 (7.1 - 8.5mm)	Black Rubber
OFM-C-7-05-19BLK	.335 - .425 (8.5 - 10.8mm)	Black Rubber
OFM-T-05-19BLK	.197 (5.0mm) OFBLT	Split Black
OFM-T-635-19BLK	.197 - .250 (5.0 - 6.35mm) OFBLT	Split Blue

OFFM Optical Fiber Flat Manifold



Miniflex technology manufactured by Richco – Patented



Description

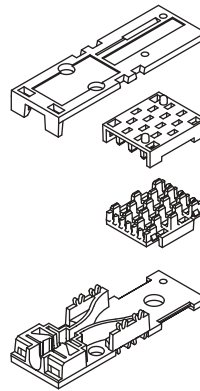
The **Miniflex** Optical Fiber Flat Manifold (OFFM) has the ability to breakout and protect primary fiber from cable element tubing, ribbon fiber or a blown fiber unit. The input fiber tube is secured by a clamping system molded into the product. Each output fiber is protected in a 900µm PTFE tube, also secured by a molded detail. Threading the fiber is achieved by the effective guide provided in the snap-on lid. Assembly of the manifold is made easy by a simple “lay-through” design, which prevents fiber kinking or breakage. Installing fiber is easy, clean, neat and extremely compact while still controlling all bend radii. Mounts with the self-adhesive pad provided or by the integral screw holes, which give the ability to stack.

Features

- Internal Fiber Bend Control: 30mm (1.2”) radii minimum
- Maximum of 12 fibers
- Ability to stack
- Cable element tubing, ribbon fiber or blown fiber unit
- Fiber threading guide system in lid

Material: Glass-filled PBT - (UL 94 V0) Color: Charcoal Grey			
Part Number	Standard Pack: 10/bag		
	H	L	W
OFFM-4-1 (4 tubes, 1 meter long per manifold)	.25 (6.5mm)	2.59 (66.0mm)	.51 (13.0mm)
OFFM-6-1 (6 tubes, 1 meter long per manifold)			
OFFM-8-1 (8 tubes, 1 meter long per manifold)			
OFFM-8-2 (8 tubes, 2 meters long per manifold)			
OFFM-1-12 (1 coil, 120 meters long per bag of 10)			

Material: Poly Tetra Flouro Ethelene (UL 94V0) Color: Natural	
Standard Pack: 120 meter coil per bag	
Part No.	
PTFE-1-120-NAT	



Features

- Supplied with ribbon fiber adapter to accept ribbon fiber
- Molded detail that secures 900 micron PTFE tubing is separate from body and cover for ease of handling

Material: 6% Glass Reinforced PBT UL94 V0 Rated Color: Charcoal Grey	
Standard Pack: 10 per bag	
Part No.	
OFFM-MK2-10-40 GREY	

Dimensioned in millimeters

OFD Optical Fiber Duplexer



Miniflex technology manufactured by Richco – Patented

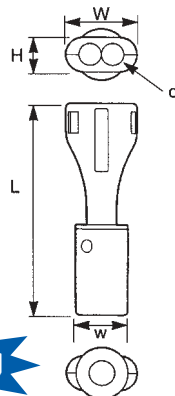
Features

- Fiber bend control: 30mm radii minimum
- Tube retention: >100N
- For a Development Kit containing all adapters, order: OFD-C-05-19BLK

Description

The **Miniflex** Optical Fiber Duplexer enables cables with aramid strands to be broken out and mechanically terminated. It provides an easy-to-use assembly with no crimping, while still retaining a minimum of a 100 Newton pull. Used with the 5mm diameter Optical Fiber Bend Limiting Tubing (OFBLT) at the output port, it gives full bend control and crush protection for ongoing fibers. The Duplexer gives an easy-to-use lay through facility with internal fiber radius control.

The Duplexer gives a range of input adaptors to cover OFBLT, fiber bundles, cable and patchcords from 2.5mm to 7.00mm in diameter. For cables up to 10.8mm in diameter, a rubber sleeve is provided. See cable size chart below.

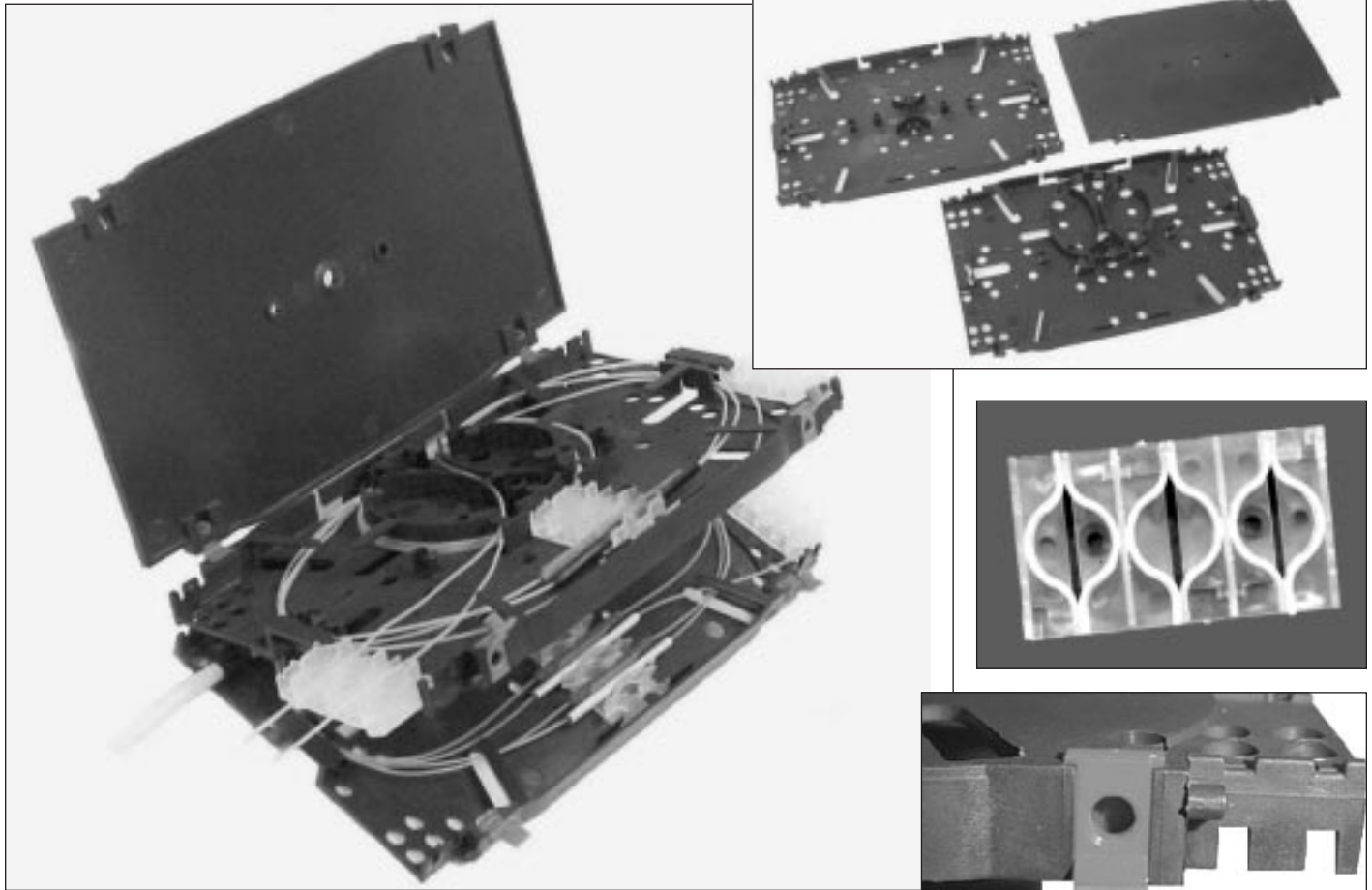


Part Number	L	W	w	H	d
OFD series	1.95 (49.6)	0.64 (16.2)	0.52 (13.2)	0.31 (8.0)	0.20 (5.0)

Material: Flame Retardant Nylon, RMS-19 (UL 94V0) • Color: Black		
Part Number	Standard Pack: 10/bag	
	Incoming Cable Size Diameter	Adaptor Color
OFD-C-1-05-19BLK	.098 - .138 (2.5 - 3.5mm)	Black
OFD-C-2-05-19BLK	.118 - .157 (3.0 - 4.0mm)	Blue
OFD-C-3-05-19BLK	.161 - .197 (4.1 - 5.0mm)	Brown
OFD-C-4-05-19BLK	.200 - .236 (5.1 - 6.0mm)	Green
OFD-C-5-05-19BLK	.240 - .276 (6.1 - 7.0mm)	Red
OFD-C-6-05-19BLK	.280 - .335 (7.1 - 8.5mm)	Black Rubber
OFD-C-9-05-19BLK	.335 - .425 (8.5 - 10.8mm)	Black Rubber
OFD-C-7-05-19BLK	.197 (5.0mm) OFBLT	Split Black
OFD-C-8-635-19BLK	.250 (6.35mm) OFBLT	Split Blue

CABLE & FIBER MANAGEMENT

Splice Tray System



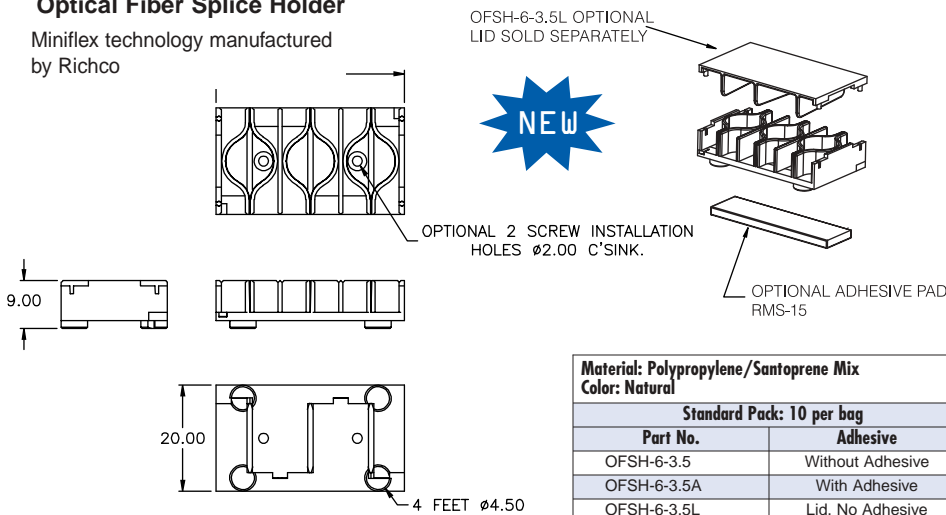
Features

- Stackable to any number of trays
- Inter-tray fiber routing possible through slots along one of the long sides
- Color coded hinges indicates side of tray to open from
- OFSH-6-3.5 holds from 3mm components or jacketed fiber in various positions on the tray for splice holding and for entry and exit port holders

OFSH-6-3.5

Optical Fiber Splice Holder

Miniflex technology manufactured by Richco



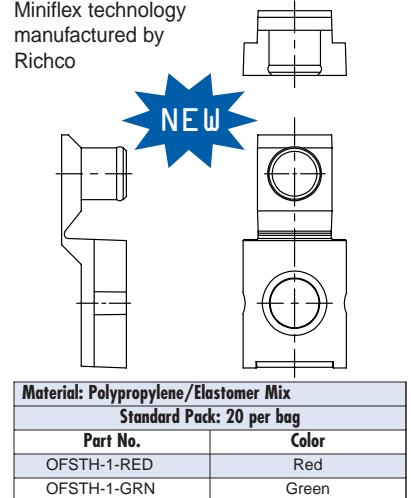
Material: Polypropylene/Santoprene Mix	
Color: Natural	
Standard Pack: 10 per bag	
Part No.	Adhesive
OFSH-6-3.5	Without Adhesive
OFSH-6-3.5A	With Adhesive
OFSH-6-3.5L	Lid, No Adhesive

Dimensioned in millimeters

OFSTH-1

Optical Fiber Splice Tray Hinge

Miniflex technology manufactured by Richco



Material: Polypropylene/Elastomer Mix	
Standard Pack: 20 per bag	
Part No.	Color
OFSTH-1-RED	Red
OFSTH-1-GRN	Green

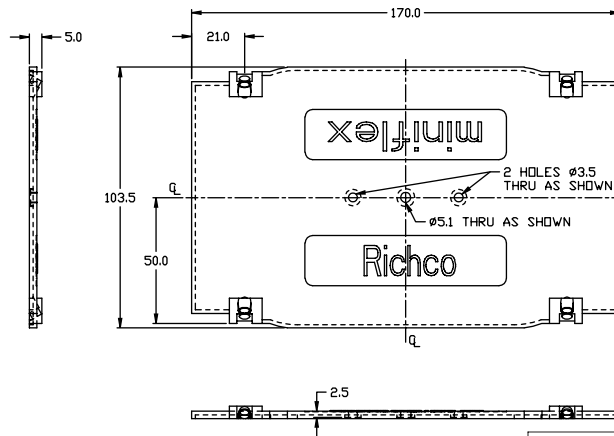
CABLE & FIBER MANAGEMENT

OFST-1-L

Optical Fiber Splice Tray Lid



Miniflex technology manufactured by Richco

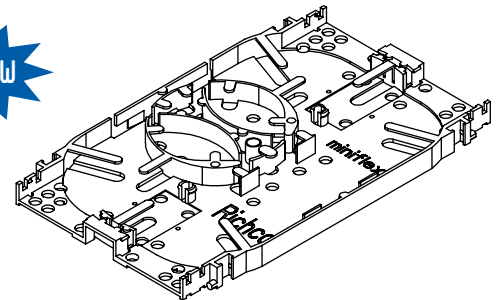
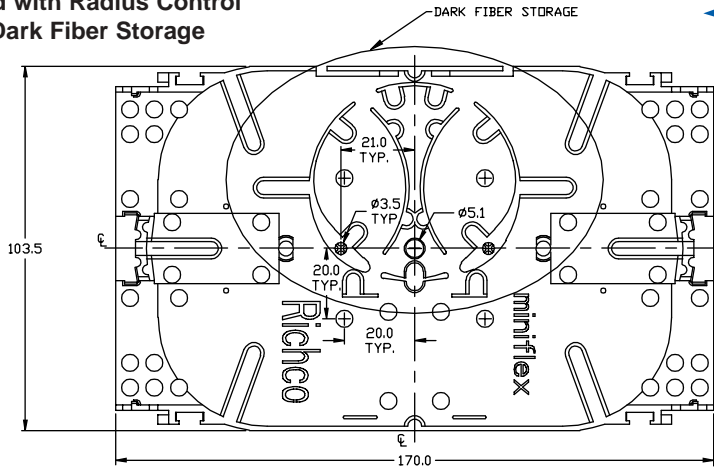


Material: Flame Retardant ABS, RMS-105 (UL 94V0)	
Color: Black	
Standard Pack: 10 per bag	
Part No.	
OFST-1-L	

Dimensioned in millimeters

OFST-1-M

Optical Fiber Splice Tray - Managed with Radius Control and Dark Fiber Storage



Miniflex technology manufactured by Richco

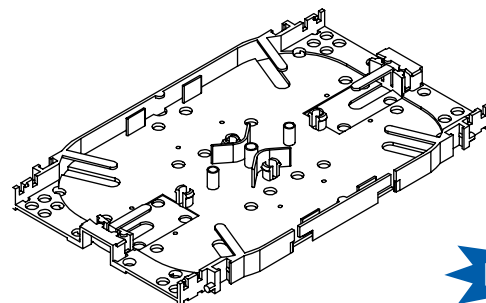
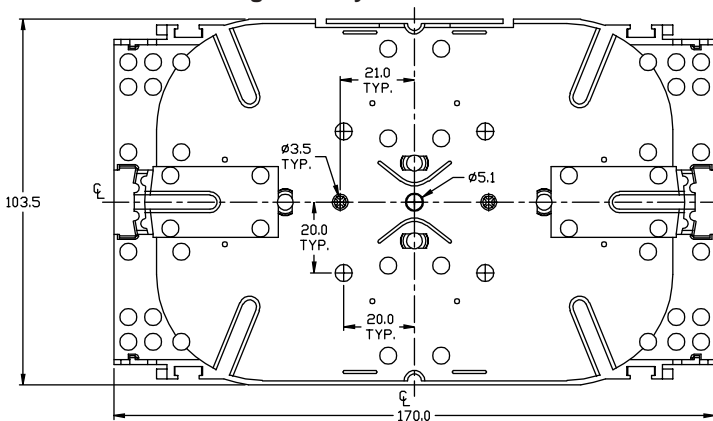
Tray Thickness = 10mm

Material: Flame Retardant Nylon, RMS-104 (UL 94V0)	
Color: Black	
Standard Pack: 10 per bag	
Part No.	
OFST-1-M	

Dimensioned in millimeters

OFST-1-P

Optical Fiber Splice Tray - Plain with Basic Storage Facility



Miniflex technology manufactured by Richco

Tray Thickness = 10mm

Material: Flame Retardant Nylon, RMS-104 (UL 94V0) • Color: Black	
Part No.	Standard Pack
OFST-1-P	10 per bag
OFST-A-P-1	1 per Bag - Includes: 2 Red Hinges, 2 Green Hinges, 1 - OFST-1-L, Lid and 1 - OFST-1-P, Plain tray

Dimensioned in millimeters

CABLE & FIBER MANAGEMENT

OFSH-T Splice Holder

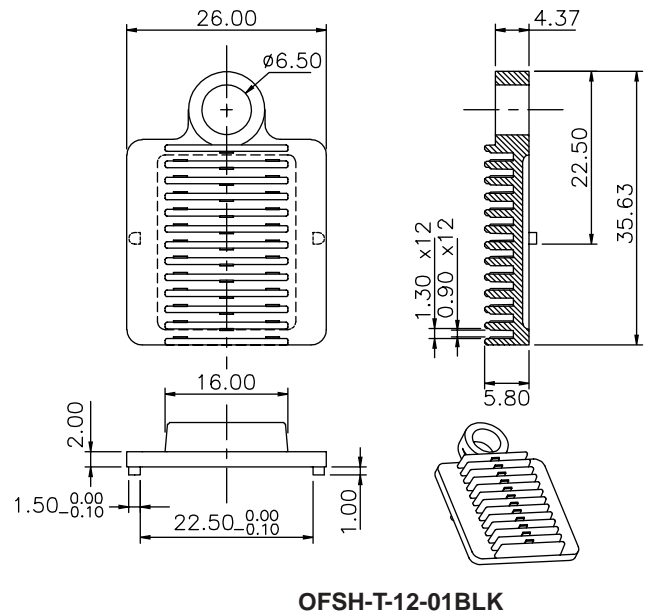
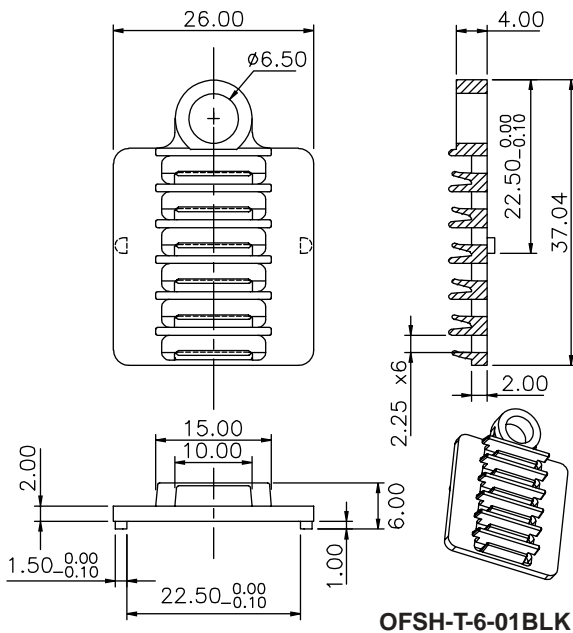


Features

- OFSH-T-6 designed to hold 3mm fiber or components, i.e. couplers, splice protectors (OFSP on page 154), and WDM's
- OFSH-T-12 designed to hold crimp splice protectors

Material: Nylon 6/6 • Color: Black	
Standard Pack: 100 per bag	
Part No. RMS 01	Part No. RMS 19
OFSH-T-6-01BLK	OFSH-T-6-19BLK
OFSH-T-12-01BLK	OFSH-T-12-19BLK

Dimensioned in millimeters

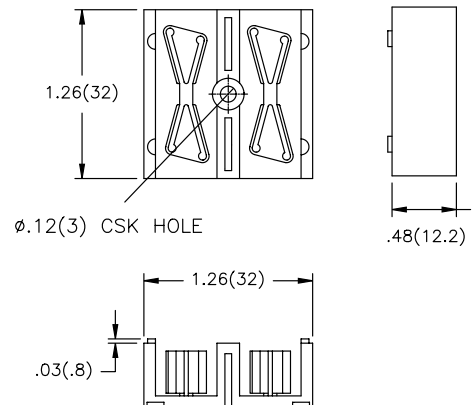


OFSH-4-1-01LA Optical Fiber Splice Holder



Features

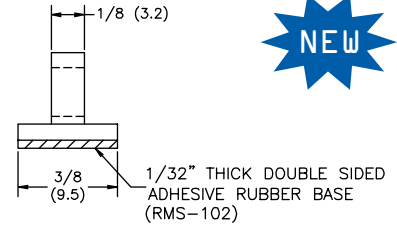
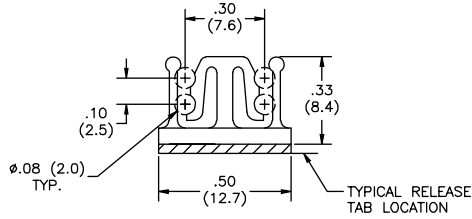
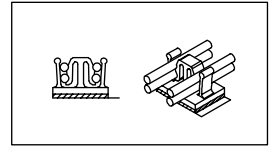
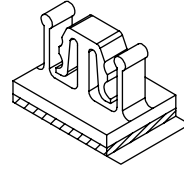
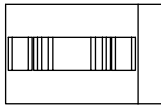
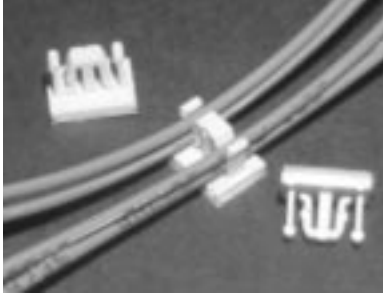
- Holds twelve 2.7 or four 4.2 splices
- Ability to stack with "no screw lugs"
- Secures optical splices in an efficient and compact manner while still maintaining integrity
- Fastens with either a self-adhesive pad, provided, or via a screw or rivet



Material: Nylon 6/6, RMS-01 • Color: Natural
Standard Pack: 50 per bag
Flame Retardant Nylon, RMS-19 available by special order. Replace -01 with -19

OFHB2-4A1-RT-19

Optical Fiber Holder on Base, 2mm



Features

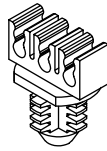
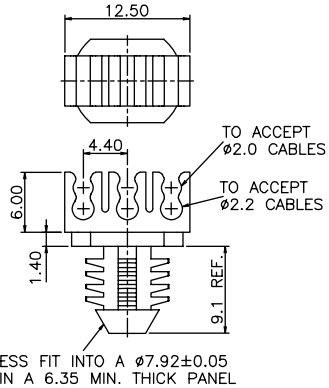
- Designed to hold up to four 2mm diameter fiber cables

Material: Nylon 6/6, UL 94-V0, RMS-19
Color: Natural

Standard Pack: 1000 per bag

OFB-BH-6-19

Optical Fiber Bracket, Blind Hole



Features

- Designed to hold up to six 2mm diameter fiber cables

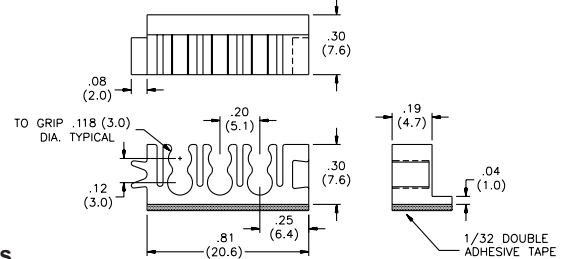
Material: Nylon 6/6 Flame Retardant, RMS-19
Color: Natural

Standard Pack: 1000 per bag

Dimensioned in millimeters

OFEB-3-19

Optical Fiber Expandable Bracket



Features

- Designed to hold up to six .118" (3.0) diameter fiber optic cables
- Cable snaps into groove easily without damaging fiber
- Brackets connect easily to each other to provide for additional cables



TYPICAL APPLICATION
SCALE 1=1

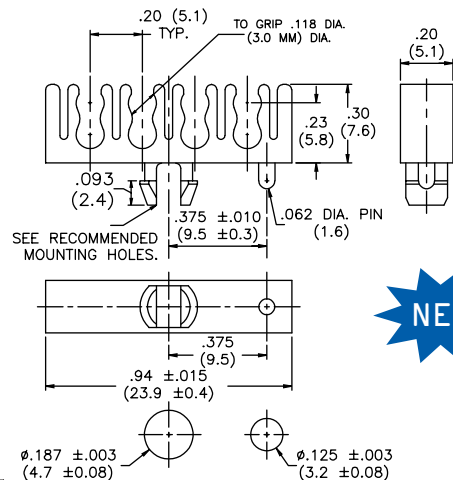
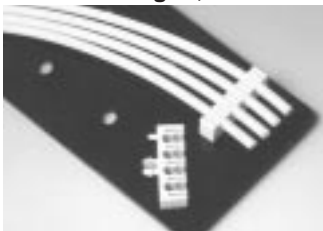
Material: Flame Retardant Nylon RMS-19
Color: Natural

Standard Pack: 1000 per bag

Adhesive Backing, RMS-15

OFB3P-4-19

Optical Fiber Bracket, 3mm, Plug-In, 4 Slot



Features

- Designed to hold up to eight 3mm diameter fiber cables
- Anti-rotation pin prevents fiber kinking due to bracket turning in the mounting hole

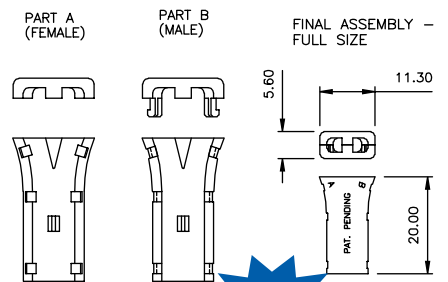
Material: Nylon 6/6 Flame Retardant, RMS-19
Color: Natural

Standard Pack: 1000 per bag

RECOMMENDED MOUNTING HOLES IN .064 MAXIMUM THICK PANEL/CHASSIS.

OFDS-1

Optical Fiber Duplex Splitter



Features

- For use on 3mm dual patchcord fibers to stop continued pigtail splitting
- Two-piece design snaps together

Material: ABS • Color: Black

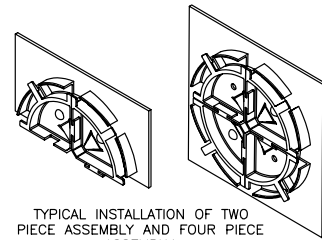
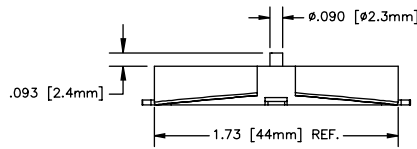
Standard Pack: 1000 of each per bag

Dimensioned in millimeters

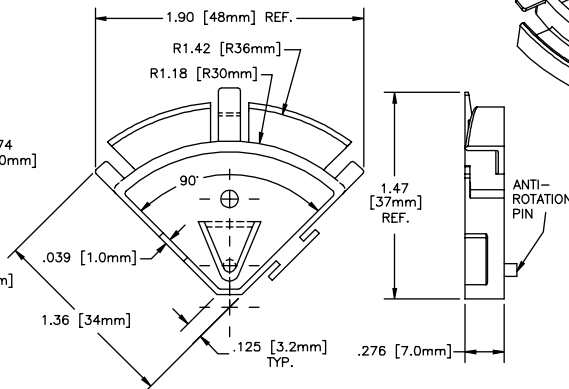
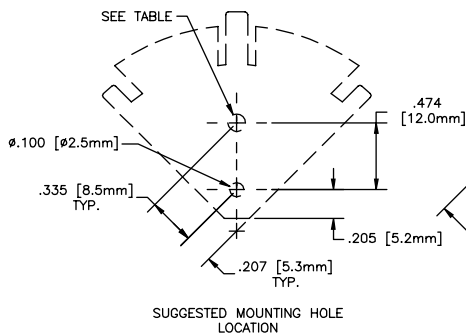
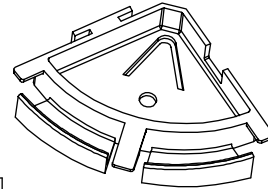
CABLE & FIBER MANAGEMENT

OFS90-30R

Optical Fiber Segment -
90 Degree - 30mm Radius



TYPICAL INSTALLATION OF TWO
PIECE ASSEMBLY AND FOUR PIECE
ASSEMBLY.



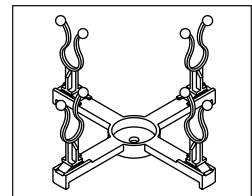
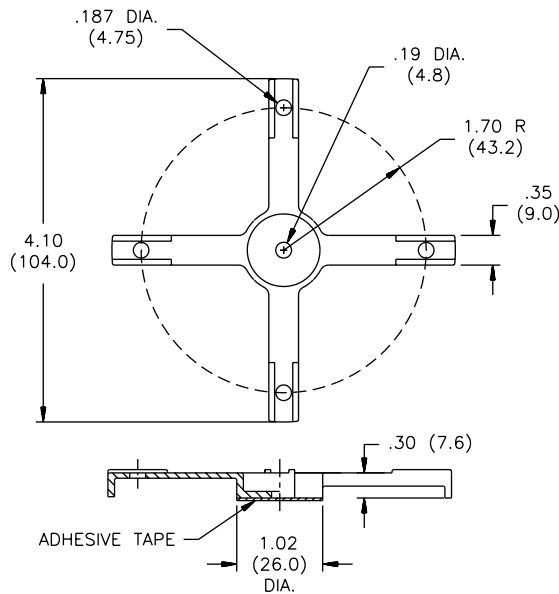
Material: Flame Retardant Nylon, RMS-19		
Color: Natural		
Standard Pack: 100 per bag		
MOUNTING RIVETS FOR THE OFS90-30R		
Rivet No.	Panel Thickness Range	Mounting Hole Dia.
SRV0-3035	Up to .039 (1.0)	.122-.126 (3.1-3.2)
SRV0-3045	.039-.079 (1.0-2.0)	
SRV0-3055	.079-.118 (2.0-3.0)	
SRV0-3065	.118-.158 (3.0-4.0)	
SRV0-3075	.158-.197 (4.0-5.0)	
SRV0-3080	.177-.217 (4.5-5.5)	
SRV0-3090	.217-.256 (5.5-6.5)	
SRV0-3100	.256-.295 (6.5-7.5)	

Features

- Assemble two pieces for bend control around a 180 degree turn
- Assemble four pieces for excess fiber spooling at 30mm radius
- In a four-piece assembled mode, stores approximately 6000mm of 900 micron fiber
- Rivet mounted with SR-3XXX series Richco rivet

OFSB

Optical Fiber Support Base

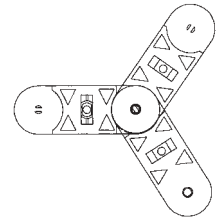
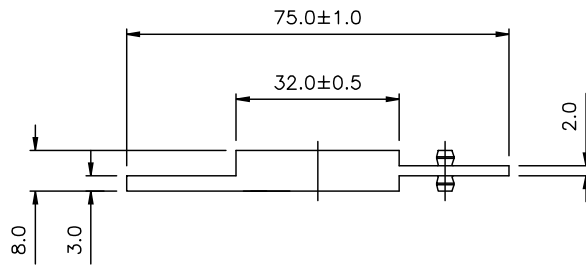


Features

- Constructs a path for spooling fiber optic cables
- Designed for use in fiber optic patch panels applications
- Central hole for rivet or screw fixing if needed
- Use Richco rivet series SR-5XXX for rivet mounting
- Can be used with Richco wire saddles and twist loks; STL, WS, LWS
- Base is available with or without tape
- Has .187" (4.75mm) hole on legs to allow for any number of Richco wiring products
- Tape: Double-backed adhesive 1/32 thick, RMS-15

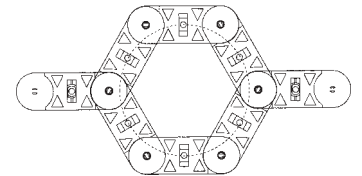
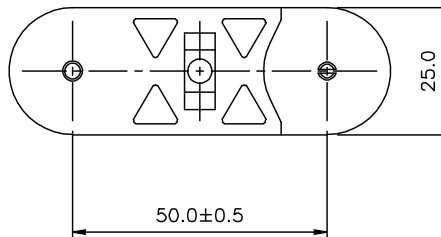
Material: Nylon 6/6, RMS-01; Flame Retardant Nylon, RMS-19 • Color: Natural	
Part No.	Standard Pack: 10 per bag
	Mounting Style
OFSB-4-85-01A	Adhesive Tape
OFSB-4-85-01	Screw Mount
OFSB-4-85-19A	Adhesive Tape
OFSB-4-85-19	Screw Mount

OFCP-50-19 Chain Plate



Features

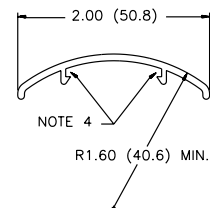
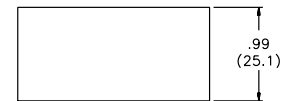
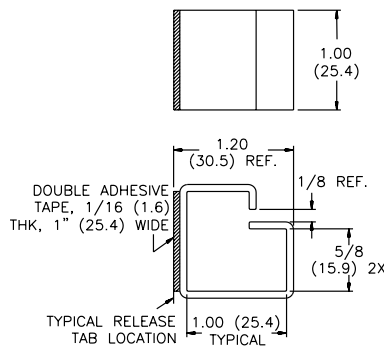
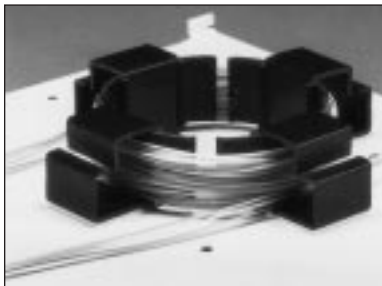
- Connect multiple OFCP's together to form a "chain" for routing fiber.
- Complete the circle for an excess fiber spool.
- Form a "Y" for breakout points.
- All connections maintain a greater than 30mm bend radius.
- .187" diameter center mounting hole per OFCP for any standard Richco routing device.



Material: Nylon 6/6 Flame Retardant, RMS-19
Color: White
Standard Pack Quantity: 100

Dimensioned in millimeters

OFCC/OFCG Optical Fiber Coiling Clip

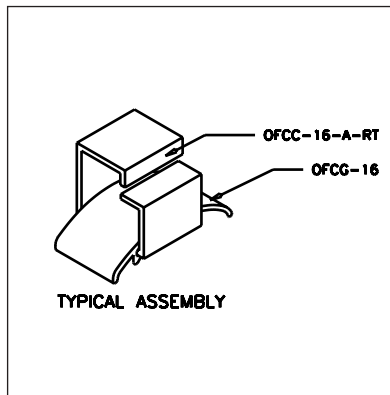


Features

- Two extruded clips snap into each other to form a clip with a smooth, curved surface to accommodate fiber optic bundles
- OFCG-16 snap fits Part# OFCC-16-A-RT as shown
- Wall: .070 (1.8) typical

OFCC-16-A-RT

OFCG-16



Material: Rigid PVC, RMS-04; Adhesive, RMS-15
Color: Black
Standard Pack: 100 per bag

CABLE & FIBER MANAGEMENT

OFSP/ROFSP

Optical Fiber and Ribbon Fiber Splice Protector

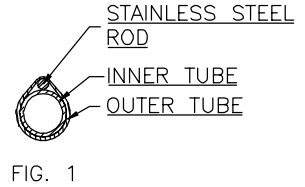
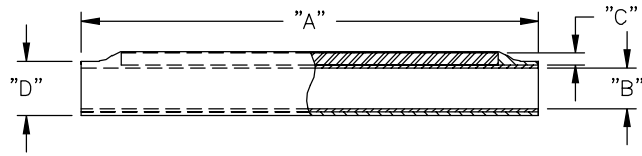


FIG. 1

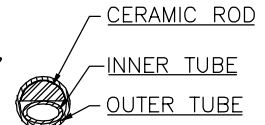
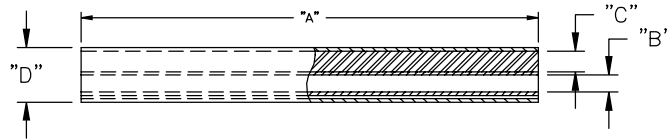


FIG. 2

Features

- Splice region becomes mechanically and environmentally protected
- ROFSP for ribbon or flat fiber splice protection
- OFSP-08 for space saving miniature splice protection
- Custom lengths available by Special Order

Description

Richco's Optical Fiber Splice Protector (OFSP) provides excellent protection and support for fiber optic heat fusion splices. The OFSP is assembled with a stainless steel backbone and a meltable inner liner. When installed over a heat fusion splice, all insulation and mechanical properties are restored while creating an impervious barrier around the splice region

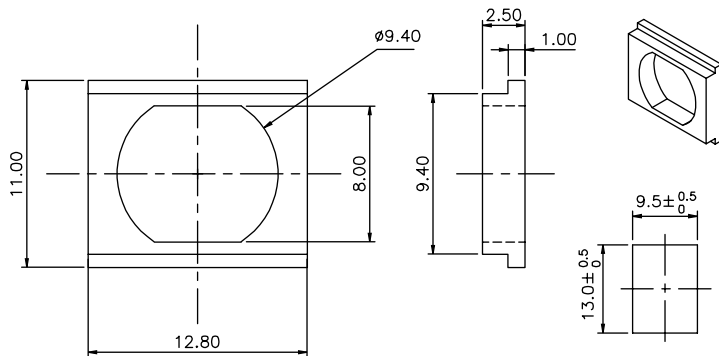
Material: Outer Tube - Heatshrink 3:1 Ratio Cross-Linked Modified Polyolefin; INNER TUBE - Modified PE Copolymer Adhesive; ROD - Stainless Spring Steel to BS & ASA 2056 Type 302 S 26 • Color: Clear

Part No.	Nominal Sleeve Length "A" Ref.	Inner Tube Dia. Min. "B"	Standard Pack: 100 per bag			Figure No.
			Nominal Rod Dia. "C"	Recovered Dia. "D" Ref.		
OFSP-10-25*	.98 (25.0)	.06 (1.5)	.04 (1.0)	.09 (2.4)	1	
OFSP-10-30*	1.18 (30.0)					
OFSP-10-35*	1.38 (35.0)					
OFSP-10-40*	1.57 (40.0)					
OFSP-10-45*	1.77 (45.0)					
OFSP-10-61*	2.40 (61.0)					
OFSP-15-40*	1.57 (40.0)	.06 (1.5)	.06 (1.5)	.11 (2.8)		
OFSP-15-61*	2.40 (61.0)					
OFSP-08-25	.98 (25.0)	.02 (0.5)	.03 (0.8)	.06 (1.6)		
OFSP-08-40	1.57 (40.0)					
ROFSP-40-40**	1.57 (40.0)	.14 X .04 (3.6 X 1.0)	.16 X .07 (4.0 X 1.8)	.20 X .12 (5.0 X 3.0)	2	

*Black (BLK), Brown (BRN), Green (GRN), Blue (BLU), Light Blue (LBL), Yellow (YEL), Red (RED), Pink (PNK), Orange (ORG), Violet (VIO), Gray (GRY) and White (WHT), available by Special Order only.
** Material: OUTER TUBE - Heatshrink 3:1 Ratio Cross-Linked Modified Polyolefin; INNER TUBE - Modified PE Copolymer Adhesive; ROD - Ceramic • Color: Clear

OFCA-SC/ST-01

Optical Fiber Connector Cutout Adaptor - SC/ST



HOLE DETAIL - PANEL THICKNESS 1.4 - 3.5

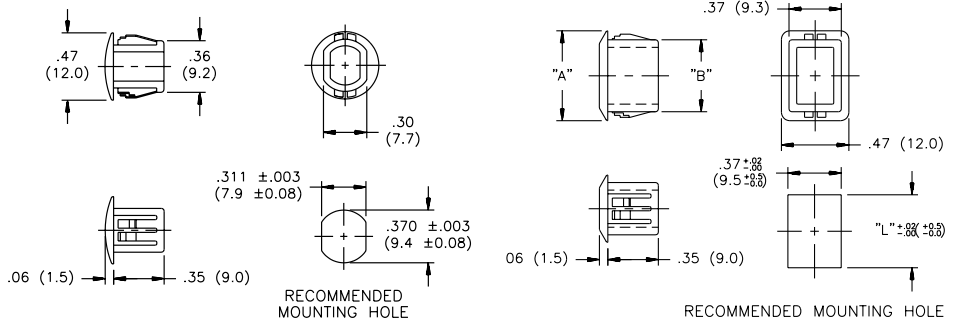
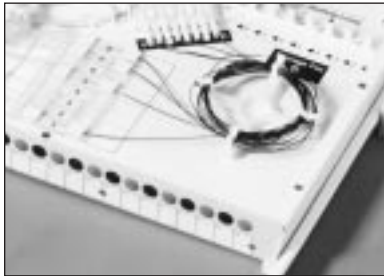
Features

- Converts a hole cut out for an SC connector into a hole cut out for an ST connector

Material: Nylon 6/6, RMS-01
Color: Natural
Standard Pack: 1000 per bag

Dimensioned in millimeters

BPE-SC / BPE-ST-1-01 Blanking Plug, O.F. Connector



BPE-ST-1-01

BPE-SC

Features

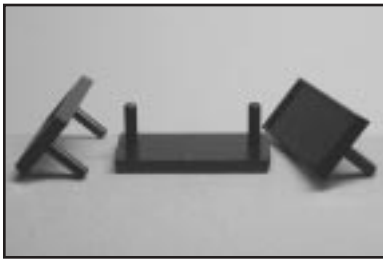
- ST Series covers "Double-D," "D" or round hole cutouts for unused terminals in fiber optic boxes
- SC Series covers rectangular hole cutouts for unused terminals in fiber optic boxes
- Both series used in a panel thickness range of .06 - .14 (1.4 - 3.5)

Material: Nylon 6/6, RMS-01
Color: Black; other colors available by special order

Part No.	Standard Pack: 1000 per bag		
	"A"	"B"	"L"
BPE-SC-1-01	.87 (22.0)	.50 (12.8)	.51 (13.0)
BPE-SC-2-01	.63 (16.0)		
BPE-SC-3-01	1.38 (35.0)	1.02 (25.8)	1.02 (26.0)

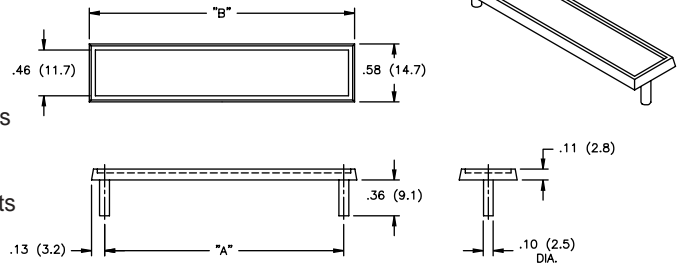
RCCC

Connector Cut-Out Cover

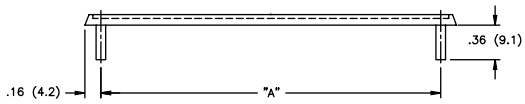
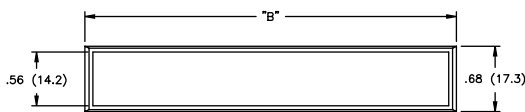


Features

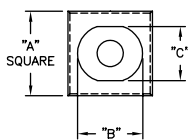
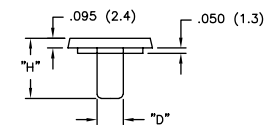
- Supplied with stainless steel push-on clips that allow for varying panel thicknesses
- RCCC-10 for "D"-Sub Cutouts
- RCCC-12 for Microribbon Cutouts
- RCCC-14 for "D" Hole Cutouts



RCCC-10



RCCC-12



RCCC-14

Material: ABS UL94V-0 • Color: Black

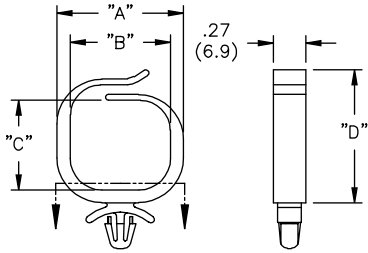
Part No.	Standard Pack: 1000 per bag	
	"A"	"B"
RCCC-10-9	.98 (25.0)	1.23 (31.2)
RCCC-10-15	1.31 (33.3)	1.56 (39.6)
RCCC-10-25	1.85 (47.0)	2.10 (53.3)
RCCC-10-37	2.50 (63.5)	2.75 (69.9)
RCCC-10-50	2.40 (61.1)	2.66 (67.6)
RCCC-12-14	1.42 (36.0)	1.74 (44.3)
RCCC-12-24	1.84 (46.8)	2.17 (55.1)
RCCC-12-36	1.35 (59.7)	2.68 (68.1)
RCCC-12-50	2.95 (74.9)	3.28 (83.2)
RCCC-12-64	3.54 (90.0)	3.87 (98.4)

Material: ABS UL94 V-0 • Color: Black

Part No.	Standard Pack: 1000 per bag				
	"A"	"B"	"C"	"D"	"H"
RCCC-14-11		.187 (4.7)	.155 (3.9)		
RCCC-14-12	.375 (9.5)	.245 (6.2)	.215 (5.5)	.125 (3.2)	
RCCC-14-13		.276 (7.0)	.235 (6.0)		.47 (11.9)
RCCC-14-21		.360 (9.1)	.310 (7.9)		
RCCC-14-22	.625 (15.9)	.430 (10.9)	.375 (9.5)		
RCCC-14-23		.495 (12.6)	.430 (10.9)	.252 (6.4)	
RCCC-14-31		.625 (15.9)	.520 (13.2)		
RCCC-14-32	.812 (20.6)	.750 (19.1)	.630 (16.0)		.58 (14.7)

CABLE & FIBER MANAGEMENT

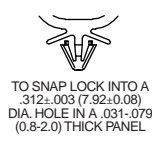
OFNS Optical Fiber Network Saddle



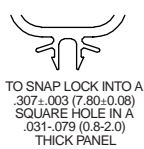
Style 1
TO SNAP LOCK INTO A .187±.003 (4.75±0.08) DIA. HOLE IN A .031-.079 (0.8-2.0) THICK PANEL



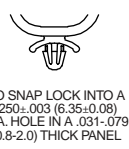
Style 2



Style 3



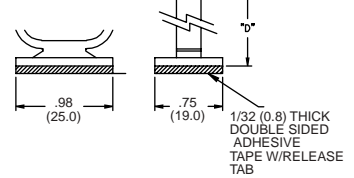
Style 4



Style 5



Style 6



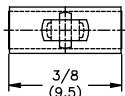
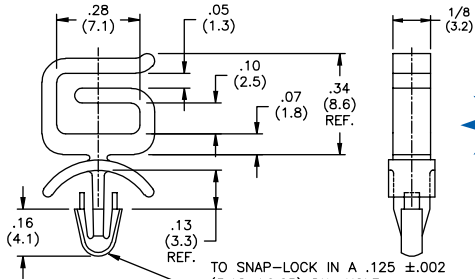
Features

- No stress applied to fiber upon entry
- Smooth rounded corners
- Six different mounting styles

Color: Natural		Standard Pack: 1000 per bag				
Part No.		"A" Ref.	"B" Ref.	"C" Ref.	"D" Ref.	Style
Nylon 6/6, RMS-01	Flame Retardant Nylon, RMS-19					
OFNS-13-187-01	OFNS-13-187-19	1.06 (26.8)	.83 (21.2)	.75 (19.0)	1.11 (28.2)	1
OFNS-13-312-01	OFNS-13-312-19					2
OFNS-13-250-01	OFNS-13-250-19					4
OFNS-13-S9.5M-01	OFNS-13-S9.5M-19					5
OFNSB-13-01A-RT	OFNSB-13-19A-RT					1.29 (32.7)
OFNS-16-187-01	OFNS-16-187-19	1.35 (34.3)	1.13 (28.7)	.99 (25.1)	1.35 (34.4)	1
OFNS-16-312-01	OFNS-16-312-19					2
OFNS-16-S307-01	OFNS-16-S307-19					3
OFNS-16-S9.5M-01	OFNS-16-S9.5M-19					5
OFNSB-16-01A-RT	OFNSB-16-19A-RT					1.53 (38.9)

MOFNSA

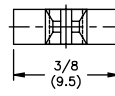
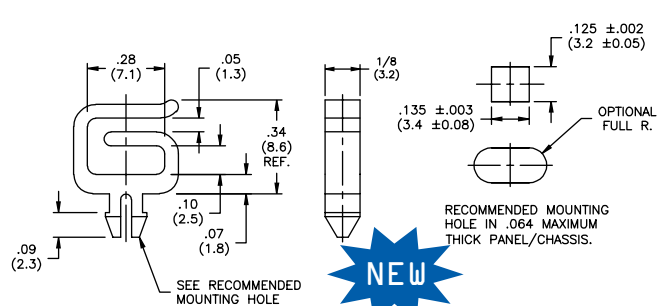
Mini Optical Fiber Network Saddle, Arrowhead



Color: Natural	
Standard Pack: 1000 per bag	
Part No.	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19
MOFNSA-2-01	MOFNSA-2-19

MOFNSP

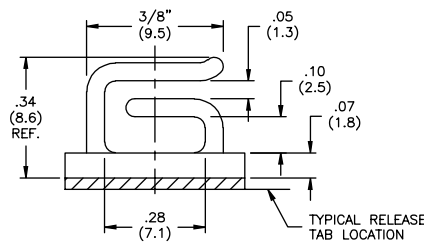
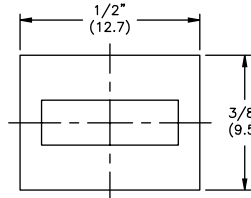
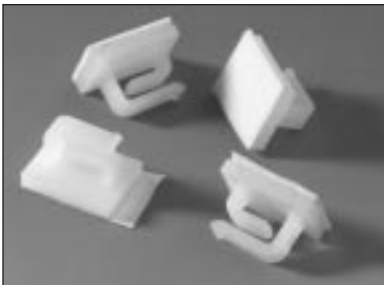
Mini Optical Fiber Network Saddle, 2 Prong



Color: Natural	
Standard Pack: 1000 per bag	
Part No.	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19
MOFNSP-2-01	MOFNSP-2-19

MOFNSB

Mini Optical Fiber Network Saddle on Base



Adhesive Back: RMS-15 • Color: Natural	
Standard Pack: 1000 per bag	
Part No.	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19
MOFNSB-2-01A-RT	MOFNSB-2-19A-RT

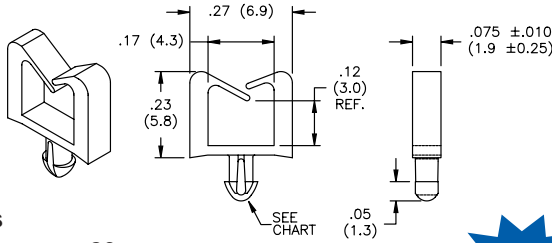
Features

- Low profile, approximately 3/8" above board
- No stress applied to fiber upon entry
- Smooth rounded corners

MWS/MWS1 Micro Wire Saddle



• UL #E71558



Features

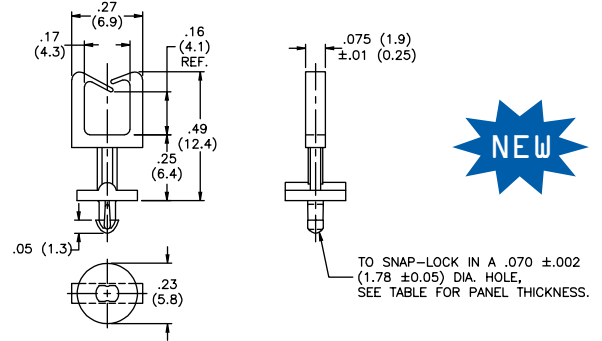
- Holds up to ten 26 gauge wires (1/32" [0.8mm]) outside diameter



Material: Nylon 6/6, RMS-01 or UL 94V-0, RMS-19 Color: Natural			
Part No.		Standard Pack: 1000 per bag	
RMS-01	RMS-19	Hole Dia.	Panel Thk
MWS-1-01	MWS-1-19	.070 ± .002	.062 (1.6)
MWS1-1-01	MWS1-1-19	(1.75 ± 0.05)	.093 (2.4)

SMWS

Standoff Micro Wire Saddle

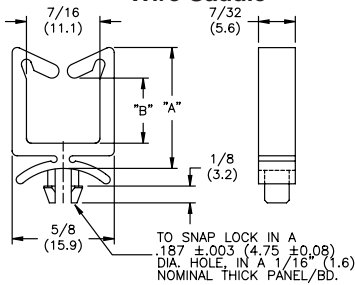


Color: Natural			
Part No.		Standard Pack: 1000 per bag	
Nylon 6/6 RMS-01	Flame Retard. Nylon RMS-19	Hole Dia.	Panel Thickness
SMWS-1-01	SMWS-1-19	.070 ± .002	.062 (1.57)
SMWS1-1-01	SMWS1-1-19	(1.75 ± 0.05)	.093 (2.36)

WS Wire Saddle



• UL #E71558



Color: Natural			
Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.
WS-1-01	WS-1-19	.51 (13.0)	.19 (4.8)
WS-2-01	WS-2-19	.71 (18.0)	.39 (9.9)
WS-3-01	WS-3-19	1.06 (26.9)	.75 (19.1)
WS-4-01	WS-4-19	1.37 (34.8)	1.07 (27.2)

LWS

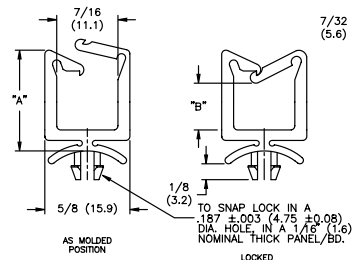
Locking Wire Saddle



• UL #E71558

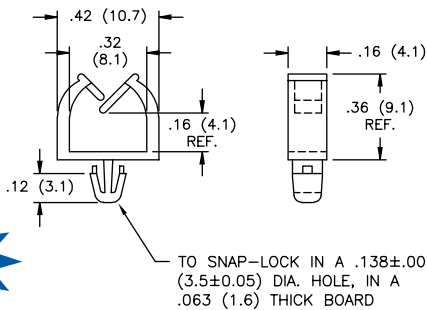
Features

- Lock is releasable by simply twisting open



Color: Natural			
Part No.		Standard Pack: 1000 per bag	
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon, RMS-19	"A" Ref.	"B" Ref.
LWS-1-01	LWS-1-19	.51 (13.0)	.14 (3.6)
LWS-2-01	LWS-2-19	.71 (18.0)	.34 (8.6)
LWS-3-01	LWS-3-19	1.07 (27.2)	.72 (18.3)
LWS-4-01	LWS-4-19	1.38 (35.1)	1.02 (25.9)

MWSEA3 Micro Wire Saddle



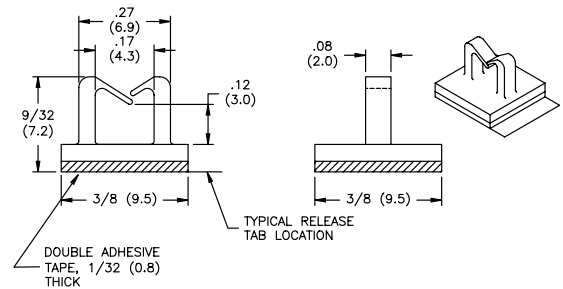
Features

- Little stress on fiber when inserted into saddle

Material: Nylon 6/6, RMS-01 Color: Natural	Material: Flame Retardant Nylon 6/6, RMS-19 Color: Natural
Standard Pack: 1000	
MWSEA3-2-01	MWSEA3-2-19

MWSB

Micro Wire Saddle On Base



Material: Adhesive Back, RMS-15 • Color: Natural	
Standard Pack: 1000	
Part No.	
Material: Nylon 6/6, RMS-01 MWSB-1-01A-RT	Material: Flame Retardant Nylon, RMS-19 MWSB-1-19A-RT

OTHER RICHCO STANDARD PRODUCTS USED IN THE FIBER OPTIC INDUSTRY:

Various Wire Saddles – p.103-122 and p.126

- Routing devices for specific fiber placement in any design with snap-in or adhesive mounting configurations.

Grommet Strips – p.158-160

- Attaches to the inside of a hole for protection of cables routed through the hole.

Wrap – p.132-133

- Encases cables for added protection and routing benefits remaining flexible for easy routing.

Ducting – p.134-135

- Encases cables for added protection and routing benefits.

Hook and Loop Ties – p.80-82

- Soft hook and loop products are ideal for use on fiber cables for routing in any design. Offered with adhesive mounting or screw mount hole mounting configurations. Separate tie holders available for mounting as well.

Cable Ties – p.70-88

- Standard cable ties can be used in conjunction with the optical fiber bend limiting tubing (OFBLT) for routing in any design. Cable tie holders available for screw, rivet or adhesive mounting

Rivets – p.54-64

- Holds two or more panels together and with an easily releasable design, can be used to hold patch panels in place with easy removability for cable additions or repair.



Introduction

Richco's range of dedicated TV accessories have been developed for use in conjunction with the major international OEM manufacturers to support television and computer monitor infrastructure by routing and securing both high and low voltage wiring. These products provide highly cost-effective solutions to critical wire and component management issues. Following are some examples of products you will find in this section.

Single & Dual Insulator Rings

These parts were specially designed to hold the high voltage anode wire away from other components. Flexible leg design eases wire insertion. Inner legs surrounding wire allow for a positive fit.

Yoke Wedges

These parts are used in the alignment and tightening of the deflection yoke. Custom sizes are available by special order. Wedges either come individually or on a strip for quick release and more efficient assembly.

Applications

Typical Applications Include:

- Television
- Computer Monitors

- *Up-to-the-minute product updates can be seen on our corporate web page at www.richco-inc.com*

- *Raw Material Specifications can be found at the end of the catalog - pages 184-192*

- *Want to try a sample?
Please call 1-800-621-1892*



Insulator Ring



Yoke Wedge



Degaussing Clip



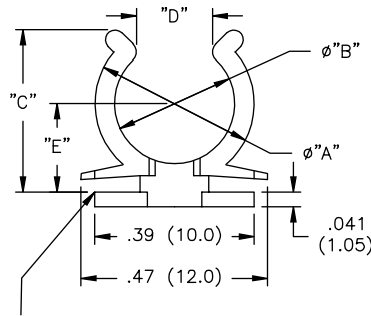
"Quick Fit" Fuse Cover



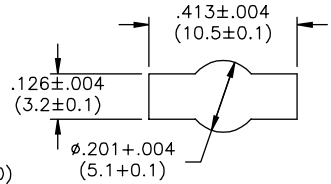
Degaussing Coil Clamper

T.V. & MONITOR ACCESSORIES

DGC Degaussing Clip



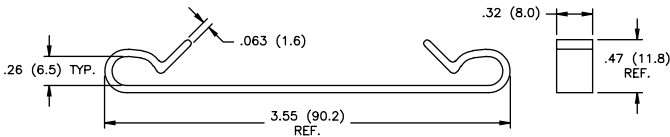
MOUNTING SLOT



TO TWIST LOCK IN A
.032 (0.8) TO .047 (1.2)
PANEL THICKNESS

Color: Natural		Standard Pack: 1000 per bag				
Material: Nylon 6/6, RMS-01	Material: Flame Retardant Nylon V-0 Rated, RMS-91	"A" Dia.	"B" Dia.	"C" Ref.	"D" Ref.	"E"
DGC-6.5-01	DGC-6.5-91	.37 (9.3)	.26 (6.5)	.40 (10.0)	.094 (2.4)	.20 (5.1)
DGC-8.5-01	DGC-8.5-91	.44 (11.3)	.33 (8.5)	.45 (11.5)	.18 (4.6)	.24 (6.10)

DGCE-6-1-19 Degaussing Clip

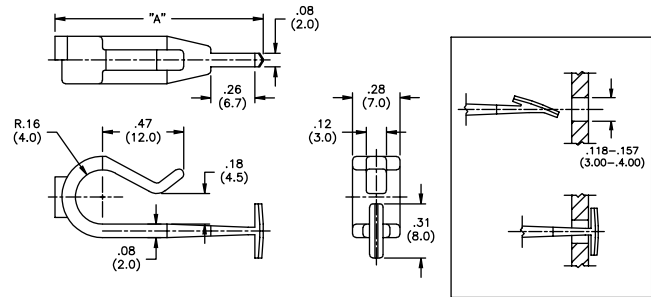


Features

- Hook and strap design allows for fast and accurate securing of the degaussing coil

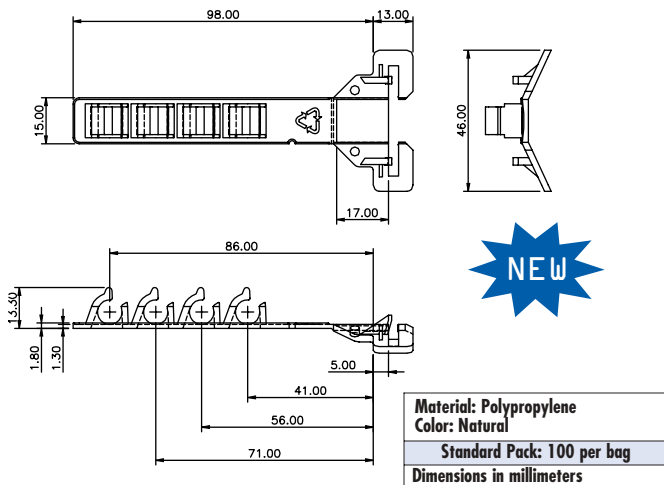
Material: Flame Retardant Nylon 6/6, RMS-19 Color: Natural
Standard Pack: 500 per Bag

DGCE Degaussing Clip



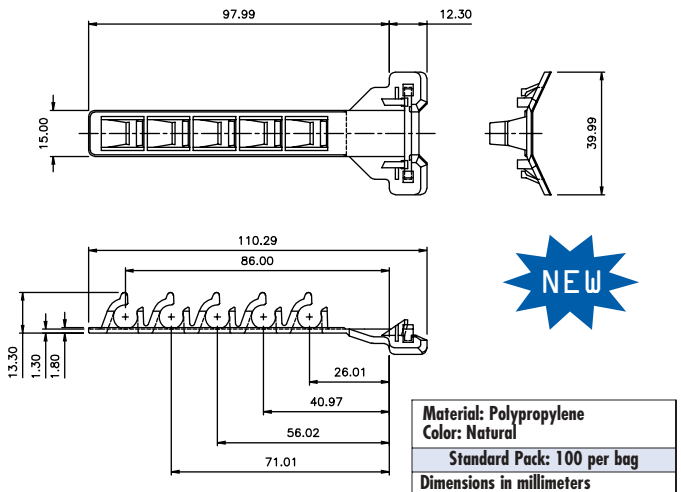
Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19 Color: Natural		
Nylon Part No.	Flame Retardant Nylon Part No.	Standard Pack: 1000 per bag "A" Ref.
DGCE-4-1-01	DGCE-4-1-19	1.21 (30.7)
DGCE-4-2-01	DGCE-4-2-19	1.60 (40.6)

DGCE-5 Degaussing Coil Clamper



Material: Polypropylene Color: Natural
Standard Pack: 100 per bag Dimensions in millimeters

DGCE-7 Degaussing Coil Clamper

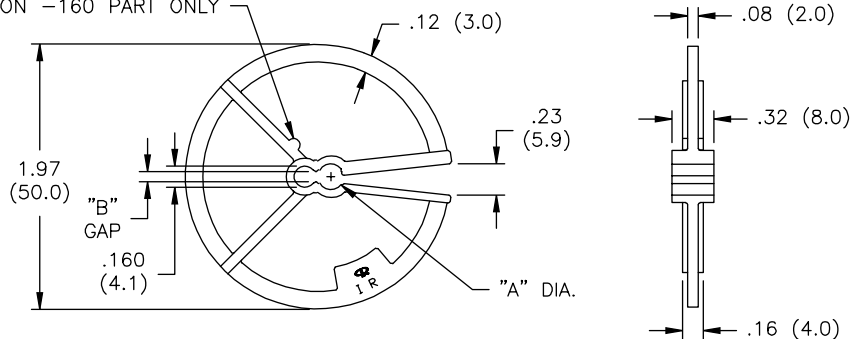


Material: Polypropylene Color: Natural
Standard Pack: 100 per bag Dimensions in millimeters

IR Insulator Ring



THIS TAB ON -160 PART ONLY



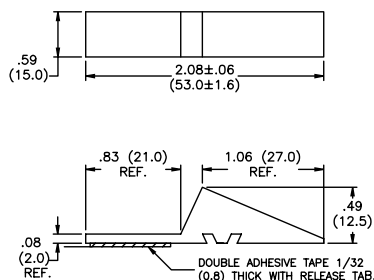
NOTE: All dimensions are for reference only

Material: Nylon 6/6, RMS-01 or Flame Retardant Nylon, RMS-19 • Color: Natural			
Part No. Nylon	Part No. Flame Retardant Nylon	Standard Pack: 500 per bag	
		"A"	"B"
IR-160-01	IR-160-19	.160 (4.1)	.080 (2.0)
IR-200-01	IR-200-19	.200 (5.1)	.113 (2.9)
IR-4151-01	IR-4151-19		

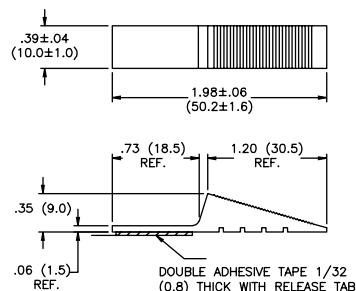
Features

- Ideal for electronics industry, i.e., televisions and computer monitors
- Keeps high voltage electrical wires (anode) away from other components

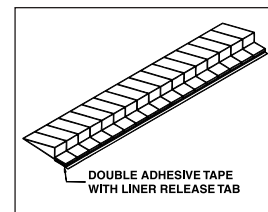
YW Yoke Wedge/ Yoke Wedge on a Strip



YW-101A-RT



YW-102A-RT



Yoke Wedge on a Strip
Special packaging to allow easier handling

Features

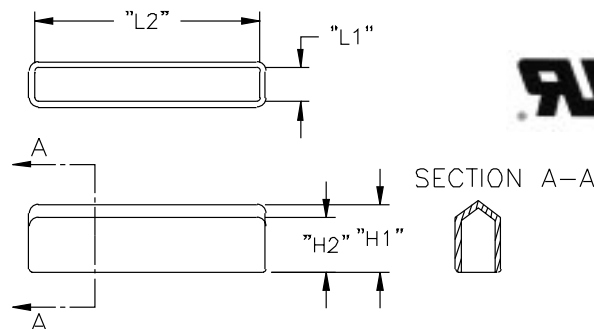
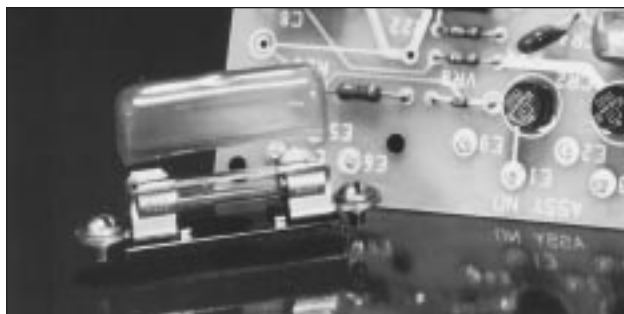
- Used to align and tighten deflection yoke
- Used in televisions and computer monitors
- Adhesive backing, RMS-15, on tail allows temporary holding of the wedge before final attachment of yoke
- Available without adhesive by special order
- Other styles and sizes available by special order

Material: Flexible PVC UL Rated 94-V0, RMS-70
Color: Black

Standard Pack: 250 per bag

840XXX

"Quick Fit" Fuse Covers



Material: Flexible PVC, RMS-55 • Color: Transparent Blue • UL N°E 120063 Rating: 105°C, 600V

Part No.	Standard Pack: 1000 per bag				Fuse Type
	"H1" Ref.	"H2" Ref.	"L1"	"L2"	
840620	1/2 (12.7)	0.391 (9.9)	.24 (6.1)	.79 (20.1)	METRIC
840730	1/2 (12.7)	0.391 (9.9)	.28 (7.1)	1.18 (30.0)	METRIC
840832	5/8 (15.9)	0.578 (14.7)	.32 (8.1)	1.26 (32.0)	METRIC
840836	1/2 (12.7)	0.391 (9.9)	.32 (8.1)	1.42 (36.1)	STD 0.25X1.25

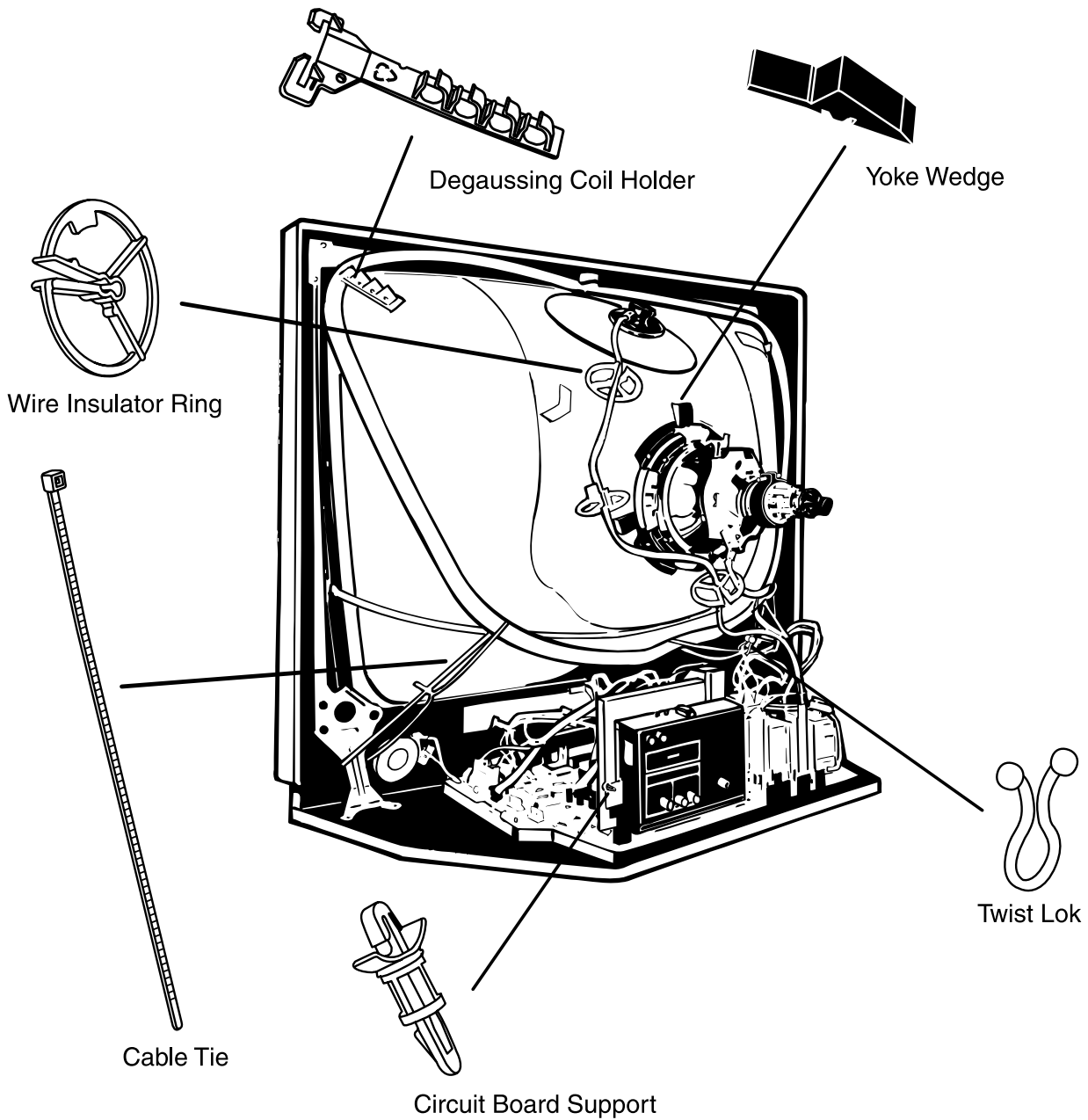
Material Characteristics

- Specific Gravity: 1.2-1.5
- Heat Resistance: 105°C
- Flame Resistance: Less than 60 S.E., 0 seconds (UL224)

- Hi Pot: 2400V for 1 minute (UL510)
- Corrosion when exposed to copper: None
- Voltage: 600V

APPLICATION

Richco manufactures a wide range of products for industry. Some products, like our TV accessories have been specifically designed for use with a single application such as computer monitors and television. These products include Yoke Wedges, Insulator Rings and Degaussing Coil Holders.



Grommets & Bushings

Richco's grommets and bushings are designed to prevent abrasion from sharp edges especially where vibration is an issue. They are a long-term solution to edge protection problems. These grommets are available in both plastic and metal and are designed to be easy to install requiring no special adhesives or tools. Special Features are included with the following products.

MCG/MCCG - Metal Continuous Grommet comes in two versions, coated and cushioned. It is easy to install and does not require adhesives.

NGSG/SNGSG - These continuous grommets come with a sticky adhesive installed in the grommet to aid in installation and eliminate the mess of working with epoxy.

LED Spacers & Insulators

LED spacers are designed to protect the lead wires that extend from an LED and to support the LED at various heights from the circuit board to achieve a flush panel fit. Richco's LED spacers are offered in many different heights and styles:

- For T-1 LED's
- For T-1½ LED's
- Square
- 3 lead LED's
- Extruded for special heights

Other Related Products

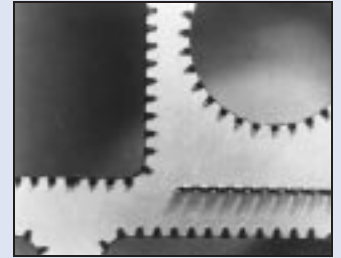
- Panel Mount LED Holder
- Terminal Insulators
- Transistor Insulators
- Screw Insulators
- Shoulder Washers

Applications

Typical Applications Include:

- Telecom Industry
- Datacom Industry
- Electrical Industry
- Consumer Electronics
- White Goods Industry
- Military Industry
- Aircraft Industry
- Computer Industry

Introduction



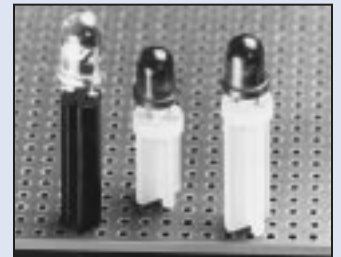
Metal Continuous Grommet



Duro Strip Channel



Hole Grommet



Led Spacer, Molded

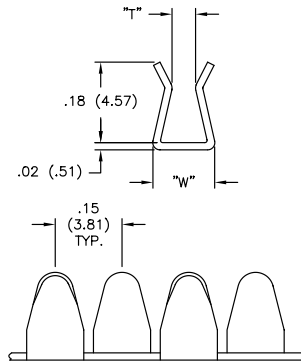
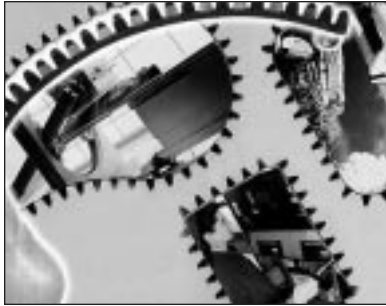


Molded Nylon Insulator

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

MCG

Metal Continuous Grommet



Features:

Heat Continuous:
290 degrees F
(145 degrees C)

Salt Spray:
2000 hours per MIL-STD-202D; Method: 101D

Dielectric (per MIL-STD-202; Method 301):
MCG-XE - 750 volts @ 60Hz
MCG-XN - 1000 volts @ 60Hz

Abrasion (MCG-XN only):
ASTM D1044 CS17 Wheel
1000g Weight
0.008g Loss 5000 Cycles

Shock and Vibration:

MIL-STD-1344, Method 2005
Test Condition VI Letter J.
Duration: 8 hours in the longitudinal and 8 hours in the perpendicular direction.
Shock: Overall RMS: G41.7

Flammability:

MCG-XE - UL 746C
(exceeds UL 94-V0)
MCG-XN - UL 94-V0

NOTE:
Hand held cutting tool needed, order part number MCGS-1

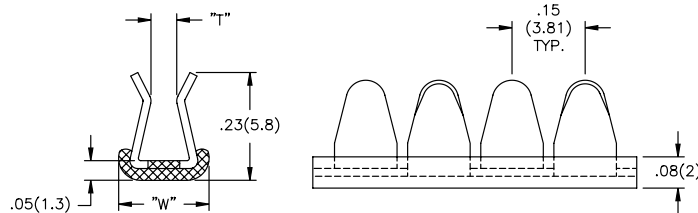
Material: 300 Series Stainless Steel with coating options

100 ft Reel Epoxy Coated Color: Green*	100 ft Reel Fusion Bonded Nylon 11 Coated Color: Black	"W"	"T" Application Thickness
MCG-1E	MCG-1N	.14 (3.6)	.025 (0.64) - .036 (0.91)
MCG-2E	MCG-2N		.037 (0.93) - .055 (1.40)
MCG-3E	MCG-3N		.056 (1.42) - .074 (1.90)
MCG-4E	MCG-4N	.18 (4.6)	.075 (1.91) - .093 (2.36)
MCG-6E	MCG-6N		.113 (2.87) - .134 (3.40)

*Discontinued stock in Brown color with the Epoxy coating will be sold until stock is depleted.

MCCG

Metal Continuous Cushioned Grommet



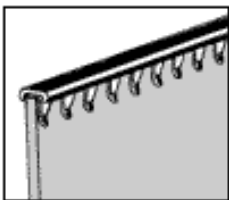
NOTE:
Hand held cutting tool needed, order part number MCGS-1

Material: 300 Series Stainless Steel with Fusion Bonded Nylon 11 Coating and a 46 Durometer, Shore D Cushion

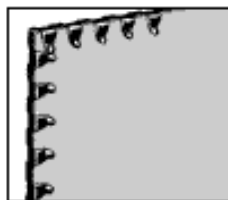
100 ft Reel Color: Black	"W"	"T" Application Thickness
MCCG-1N	.19 (4.8)	.025 (0.64) - .036 (0.91)
MCCG-2N		.037 (0.93) - .055 (1.40)
MCCG-3N		.056 (1.42) - .074 (1.90)
MCCG-4N	.22 (5.6)	.075 (1.91) - .093 (2.36)
MCCG-6N		.113 (2.87) - .134 (3.40)

*Extra flexible grommet is available by special order.

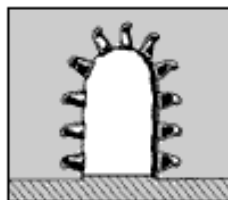
Applications



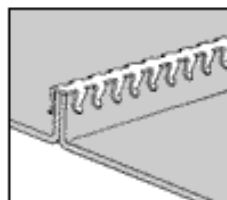
Cushion



Outside Right Angles



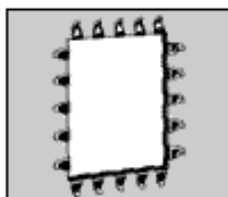
U-Shape (Mouse Hole)



Grounding Clip (EMI/RFI)
Uncoated part only



Continous Straight Edge



Inside Right Angles



Irregular Holes



Flexible Grommet*

Features:

Heat Continuous:
185 degrees F (85 degrees C)

Salt Spray:
2000 hours per MIL-STD-202D
Method: 101D

Dielectric:
1200 volts @ 60Hz per MIL-STD-202; Method 301.

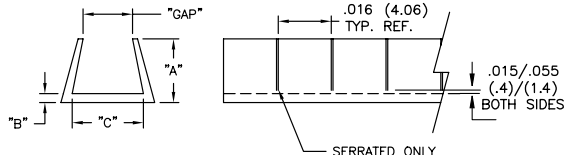
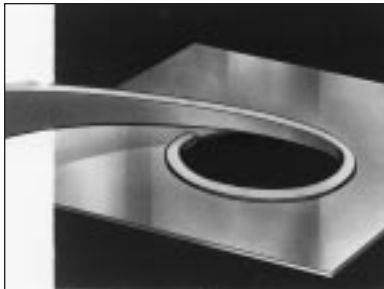
Shock and Vibration:
MIL-STD-1344, Method 2005
Test Condition VI Letter J.
Duration: 8 hours in the longitudinal and 8 hours in the perpendicular direction.
Shock: Overall RMS: G41.7

Flammability: UL 94-V0

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

NGS/PGS/SNGS/SPGS

Continous Grommet Strip



Color: Natural or Black; Add B for black.

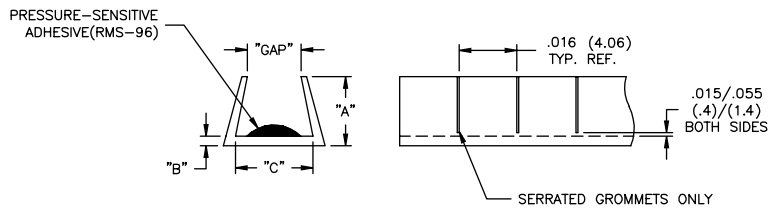
Solid Lengths		Serrated Lengths	Standard Pack: 100 ft. (3048 cm) Rolls; custom lengths available by special order				Material	Panel Thickness Range
Part No.	Part No.	"A" Ref	"B" Ref	"C" Ref	"Gap" Ref			
NGS-1	SNGS-1	.125 (3.2)	.031 (0.8)	.031 (0.8)	.018 (0.5)	Nylon (RMS-21)	UP TO .036 (0.9)	
NGS-2	SNGS-2	.172 (4.4)		.037 (0.9)	.109 (2.8)		.060 (1.5)	.037 (0.9) - .071 (1.8)
NGS-2.5	SNGS-2.5			.072 (1.8) - .105 (2.7)				
NGS-3	SNGS-3			.106 (2.7) - .164 (4.2)				
NGS-4	SNGS-4	.188 (4.8)		.047 (1.2)	.188 (4.8)		.165 (4.2)	.165 (4.2) - .187 (4.7)
NGS-5	SNGS-5		.250 (6.4)	.187 (4.7)		.188 (4.8) - .250 (6.4)		
PGS-1	SPGS-1	.125 (3.2)	.031 (0.8)	.031 (0.8)	.018 (0.5)	Polyethylene (RMS-06)	UP TO .036 (0.9)	
PGS-2	SPGS-2	.172 (4.4)		.037 (0.9)	.109 (2.8)		.060 (1.5)	.037 (0.9) - .071 (1.8)
PGS-2.5	SPGS-2.5			.072 (1.8) - .105 (2.7)				
PGS-3	SPGS-3			.106 (2.7) - .164 (4.2)				
PGS-4	SPGS-4	.188 (4.8)		.047 (1.2)	.188 (4.8)		.165 (4.2)	.165 (4.2) - .187 (4.7)
PGS-5	SPGS-5		.250 (6.4)	.187 (4.7)		.188 (4.8) - .250 (6.4)		

Features

- Insulates wires from chafing
- Can be used for round, square and rectangular shapes

NGSG/SNGSG/PGSG/SPGSG

Grommet Strip w/Adhesive



Color: Natural or Black; Add B for black.

Part No.		Standard Pack: 100 ft. (3048 cm) Rolls; custom lengths available by special order								
Solid Lengths	Serrated Lengths	Material	"A" Ref.	"B" Ref.	"C" Ref.	Panel Thickness Range	GAP Ref.			
NGSG-2	SNGSG-2	Nylon, RMS-21	.172 (4.4)	.031 (0.8)	.109 (2.8)	.037 (0.9) - .071 (1.8)	.048 (1.2)			
NGSG-2.5	SNGSG-2.5					.072 (1.8) - .105 (2.7)	.060 (1.5)			
NGSG-3	SNGSG-3					.106 (2.7) - .164 (4.2)	.106 (2.7)			
PGSG-2	SPGSG-2	Polyethylene, RMS-06	.172 (4.4)	.031 (0.8)	.109 (2.8)	.037 (0.9) - .071 (1.8)	.048 (1.2)			
PGSG-6*	SPGSG-6*							.160 (4.1)	.025 (0.6)	.060 (1.5)
PGSG-2.5	SPGSG-2.5							.072 (1.8) - .105 (2.7)	.060 (1.5)	
PGSG-7*	SPGSG-7*							.035 (0.9)	.100 (2.5)	
PGSG-3	SPGSG-3							.106 (2.7) - .164 (4.2)	.106 (2.7)	
PGSG-8*	SPGSG-8*		.188 (4.8)	.047 (1.2)	.156 (4.0)		.106 (2.7)			
				.035 (0.9)	.156 (4.0)					

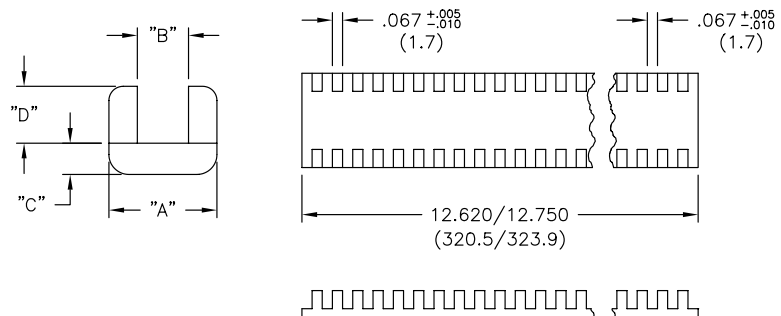
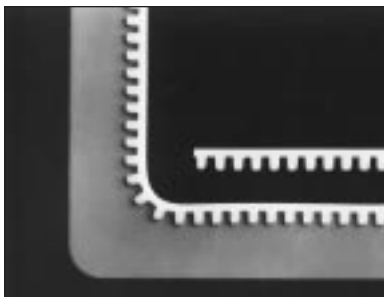
*Part No. -6, -7 & -8 are extra flexible

Features

- Adhesive provides self retaining grip

MGS

Molded Grommet Strip



Material: Nylon 6/6, RMS-01 • Color: Natural

Part No.	Standard Pack: 100 per bag				
	Sheet Thickness (Ref.)	"A" ±.015-.005	"B" ±.015-.005	"C" ±.015-.005	"D" ±.020-.005
MGS-1-01	.015 (0.4) - .052 (1.3)	.150 (3.8)	.056 (1.4)	.055 (1.4)	.10 (2.5)
MGS-2-01	.052 (1.3) - .085 (2.2)	.175 (4.4)	.090 (2.3)		
MGS-3-01	.085 (2.2) - .128 (3.3)	.220 (5.6)	.131 (3.3)		
MGS-4-01	.128 (3.3) - .192 (4.9)	.325 (8.3)	.195 (5.0)	.070 (1.8)	.16 (4.1)
MGS-5-01	.192 (4.9) - .255 (6.5)	.385 (9.8)	.260 (6.6)		.17 (4.3)
MGS-6-01	.255 (6.5) - .318 (8.1)	.445 (11.3)	.320 (8.1)		.075 (1.9)

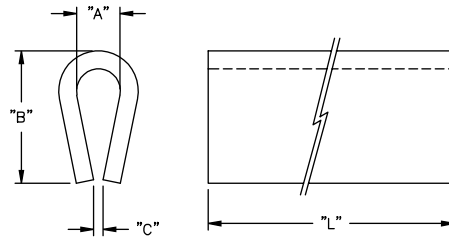
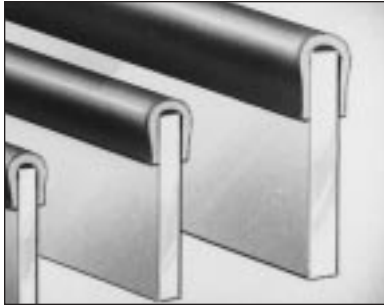
Features

- Complies with Mil Spec #21266
- Min hole dia. = 1"

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

DSC

Duro Strip Channel



Features

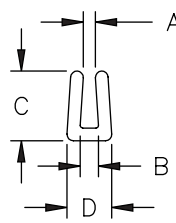
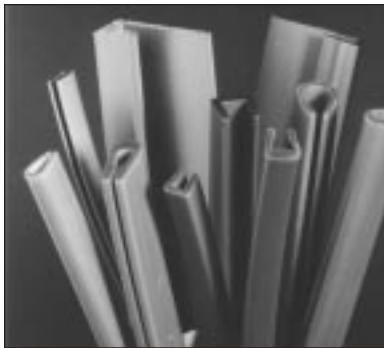
- Used as wear strips, non-abrasive edging, noise-reducing conveyor strips, framing, binding, or to protect from sharp edges
- Built in lubricant for reduced friction and longer part life.
- Resistant to ordinary solvents, mild acids and alkalis or fungus growth

Material: MDS Filled Nylon, RMS-21 • Color: Grey					
Part No	A ± .015 (0.4)	B ± .015 (0.4)	C Ref.	Wall Thickness	Std. Pkg.
DSC-5-48	.062 (1.6)	.300 (7.6)	.031 (0.8)	.031 (0.8)	4' Lengths, 25 per bundle
DSC-5-1200					100' Coil
DSC-1-48	.125 (3.2)	.375 (9.5)	.020 (0.5)	.047 (1.2)	4' Lengths, 25 per bundle
DSC-1-1200					100' Coil
DSC-2-48	.188 (4.8)	.500 (12.7)	.031 (0.8)	.047 (1.2)	4' Lengths, 25 per bundle
DSC-2-1200					100' Coil
DSC-3-48	.250 (6.4)	.625 (15.9)	.045 (1.1)	.063 (1.6)	4' Lengths, 25 per bundle
DSC-3-1200					100' Coil

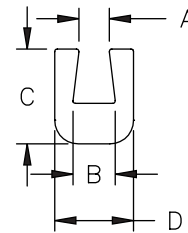
Custom lengths available by special order

RWRS

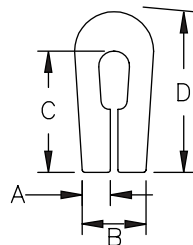
Richco Wear Resistant Strips



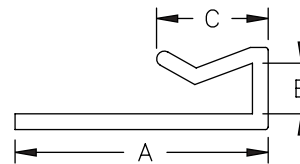
RWRS-1



RWRS-2



RWRS-3



RWRS-4

Features

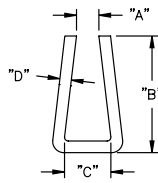
- Used as wear strips, non-abrasive edging, noise-reducing conveyor strips, framing, binding, or to protect from sharp edges
- Built in lubricant for reduced friction and longer part life.
- Resistant to ordinary solvents, mild acids and alkalis or fungus growth

Material: MDS Filled Nylon, RMS-21 • Color: Gray							
Part No.	A	B	C Max.	D	Wall Thickness	Panel Thickness	Std. Pkg.
RWRS-1-A-1200	.048 (1.2)	.072 (1.8)	.275 (7.0)	.177 (4.5)	.050 (1.3)	1/16	100' Coil (30.5)
RWRS-1-B-1200	.105 (2.7)	.135 (3.4)	.312 (7.9)	.266 (6.8)	.062 (1.6)	1/8	
RWRS-1-C-1200	.230 (5.8)	.260 (6.6)	.370 (9.4)	.416 (10.6)	.075 (1.9)	1/4	
RWRS-2-A-1200	.120 (3.0)	.180 (4.6)	.375 (9.5)	.312 (7.9)		.120 - .167	
RWRS-3-A-1200	.110 (2.8)	.250 (6.4)	.479 (12.2)	.635 (16.1)		1/16 - 3/32	12' Length (3.7)
RWRS-4-A-144	1.00 (25.4)	.200 (5.1)	.440 (11.2)		.062 (1.6)	1/8 - 3/16	
RWRS-4-B-144		.330 (8.4)				1/4 - 5/16	

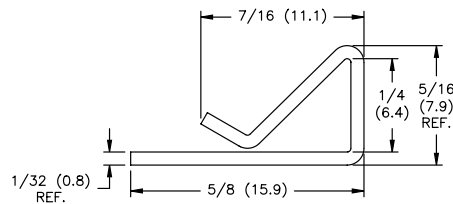
Custom lengths available by special order

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

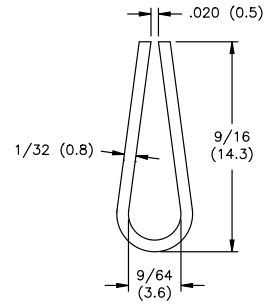
CH Channel



Profile 1
See Chart for P/N



CH20X250-48



CH20X141-48

Material: Polystyrene, RMS-16 • Color: White; other colors available by special order

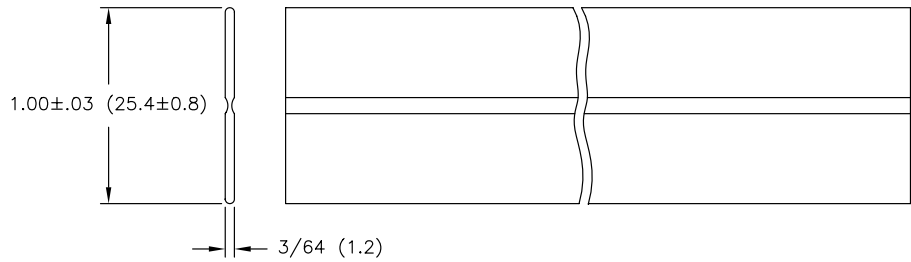
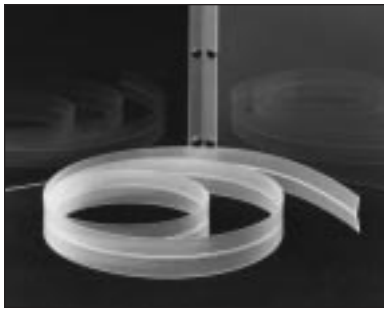
Standard Pack: Standard channel supplied in 4' (121.9cm) lengths, 25 per bundle; custom lengths available by special order

Part No. Profile 1	Standard Pack: Standard channel supplied in 4' (121.9cm) lengths, 25 per bundle; custom lengths available by special order			
	"A" Ref.	"B"	"C" Min.	"D" Typ.
CH100X125-48	.100 (2.5)	5/16 (7.9)	1/8 (3.2)	1/32 (0.8)
CH200X250-48	.200 (5.1)	3/8 (9.5)	1/4 (6.4)	
CH15X50-48	.015 (0.4)	7/16 (11.1)	.05 (1.3)	
CH300X375-48	.300 (7.6)	1/2 (12.7)	3/8 (9.5)	3/64 (1.2)
CH400X500-48	.400 (10.2)	5/8 (15.9)	1/2 (12.7)	

Features

- Protects from sharp edges
- Frames and binds

SLH-16-1 Single Living Hinge

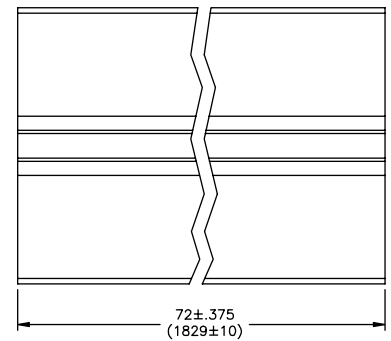
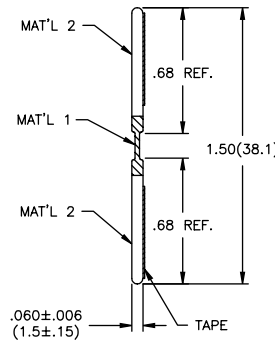
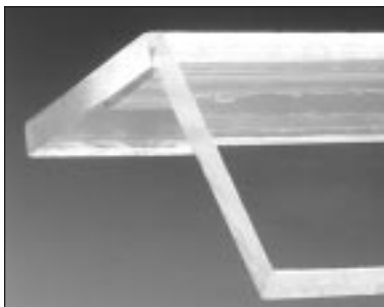


Features

- Non-corrosive and acid resistant
- Attaches with staples, screws or rivets

Material: Polypropylene, RMS-54
Color: Natural
Standard Pack: 100 ft. (30.5m) Rolls
Custom lengths available by special order.

DDH Dual Durometer Hinge



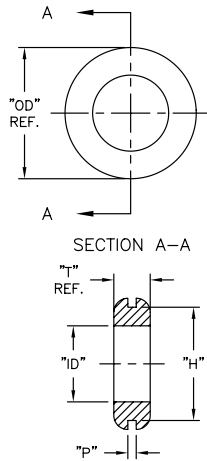
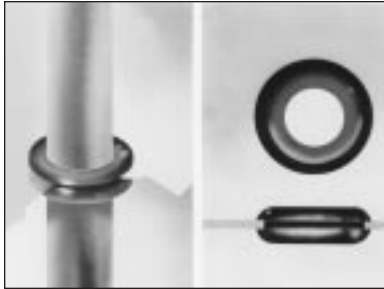
Features

- Excellent flexibility and springback to increase service life
- Tested for over 2 million cycles
- Adhesive is clear

Material: Polyurethane, RMS-100 and Rigid PVC, RMS-32	
Color: Clear	
Part No.	Standard Pack: 6 ft. length
	Adhesive
DDH-1	No Adhesive
DDH-1A	Tape: 3M #TA0141V
Custom lengths available by special order.	
Custom hinge colors available by special order.	

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

HG Hole Grommet



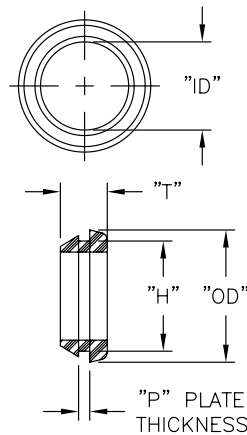
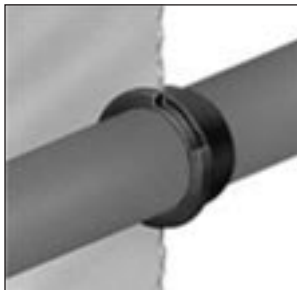
Material: Flexible vinyl, RMS-25 • Color: Black

Part No.	Standard Pack: 1000 per bag				
	Outside Diameter "OD"	Inside Diameter "ID"	Panel Hole Size "H"	Panel Thickness "P"	Grommet Thickness "T"
HG-2	5/16 (7.9)	1/8 (3.2)	.19 (4.8)	1/16 (1.6)	1/4 (6.4)
HG-2.5	3/8 (9.5)	5/32 (4.0)	.25 (6.4)		
HG-3	7/16 (11.1)	3/16 (4.8)	.31 (7.9)	1/32 (0.8)	3/16 (4.8)
HG-3.5		7/32 (5.6)			
HG-4	9/16 (14.3)	1/4 (6.4)	.37 (9.4)	3/32 (2.4)	9/32 (7.1)
HG-5		5/16 (7.9)	.44 (11.2)		
HG-6	43/64 (17.1)	3/8 (9.5)	.49 (12.4)	1/16 (1.6)	9/32 (7.1)
HG-8	55/64 (21.8)	1/2 (12.7)	.69 (17.5)		1/4 (6.4)
HG-9		9/16 (14.3)			3/16 (4.8)
HG-10	15/16 (23.8)	5/8 (15.9)	.75 (19.1)		7/32 (5.6)
HG-11		11/16 (17.5)			3/16 (4.8)
HG-12	1-15/64 (31.4)	47/64 (18.7)	.99 (25.1)		5/16 (7.9)
HG-14	1 - 3/16 (30.2)	55/64 (21.8)	1.00 (25.4)		
HG-16	1 - 1/2 (38.1)	31/32 (24.6)	1.25 (31.8)		

Features

- Protects wires and cables when passing through metal panels

QFG Quick Fit Grommet



Material: Soft PVC, RMS-25 • Color: Black

Part No.	Standard Pack: 1000 per bag				
	"T"=.32 (8.0) "P"=.06(1.5)	"T"=.33 (8.5) "P"=.08(2.0)	"T"=.37 (9.5) "P"=.12(3.0)	Hole Size "H"	Inside Diameter "ID"
QFG-16200	QFG-16210	QFG-16220	.39 (9.9)	.24 (6.1)	.53 (13.5)
QFG-16201	QFG-16211	QFG-16221	.43 (10.9)	.28 (7.1)	.57 (14.5)
QFG-16202	QFG-16212	QFG-16222	.47 (11.9)	.32 (8.1)	.61 (15.5)
QFG-16203	QFG-16213	QFG-16223	.55 (14.0)	.39 (9.9)	.69 (17.5)
QFG-16204	QFG-16214	QFG-16224	.63 (16.0)	.47 (11.9)	.77 (19.6)
QFG-16205	QFG-16215	QFG-16225	.71 (18.0)	.55 (14.0)	.85 (21.6)
QFG-16207	QFG-16217	QFG-16227	.87 (22.1)	.71 (18.0)	1.00 (25.4)
QFG-16208	QFG-16218	QFG-16228	1.02 (25.9)	.87 (22.1)	1.16 (29.5)
QFG-16209	QFG-16219	QFG-16229	1.10 (27.9)	.94 (23.9)	1.24 (31.5)

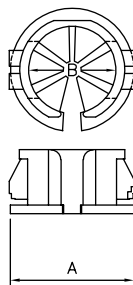
Features

- Snaps neatly and quickly into position

PGSC Snap Bushing

Features

- Absorbs shock and vibration
- Accepts various diameters and shapes



Material: Nylon 6/6, RMS-01 • Color: Black

Part No.	Panel Thkns. Range	Hole Diameter	"A"	Max. Holding Bundle Dia. B	"C"	Standard Package
PGSC-1319A	.031-.118 (0.8-3.0)	.75-.75 (19.0-19.1)	.86 (21.8)	.50 (12.7)	.39 (9.9)	500
PGSC-1422A		.87-.88 (22.2-22.4)	.94 (23.8)	.56 (14.3)		
PGSC-1926A		1.00-1.00 (25.4-25.5)	1.06 (27.0)	.75 (19.0)	.45 (11.5)	200
PGSC-2128A		1.09-1.10 (27.8-28.0)	1.16 (29.5)	.82 (20.7)		

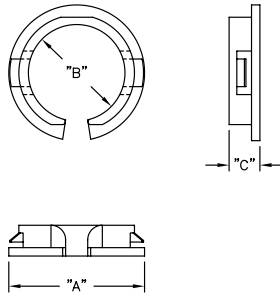
GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

PGSA

Open Bushing-A Series

Features

- Split design allows for side entry of wire bundle and retro-fit on pre-assembled harnesses



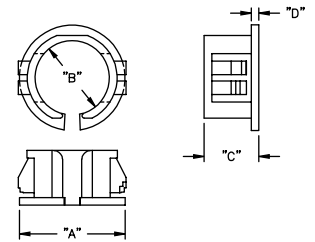
Material: Nylon 6/6, RMS-01 • Color: Black						
Part No.	Panel Thkns. Range	Hole Diameter	"A"	Max Holding Bundle Dia. "B"	"C"	Standard Pack
PGSA-0407A	.016 (0.4) - .039 (1.0)	.272 (6.9)	.39 (9.9)	.19 (4.8)	.20 (5.1)	1000
PGSA-1013A		.512 (13.0)	.61 (15.5)	.38 (9.7)		500
PGSA-1316A	.039 (1.0) - .059 (1.5)	.630 (16.0)	.72 (18.3)	.49 (12.4)	.21 (5.3)	
PGSA-1519A		.748 (19.0)	.86 (21.8)	.59 (15.0)	.22 (5.6)	
PGSA-1822A	.031 (0.8) - .063 (1.6)	.866 (22.0)	.97 (24.6)	.69 (17.5)		200
PGSA-2529A	.016 (0.4) - .043 (1.1)	1.142 (29.0)	1.28 (32.5)	.98 (24.9)	.28 (7.1)	

PGSB-A

Open Bushing - B Series

Features

- Split design allows for side entry of wire bundle and retro fit on pre-assembled harnesses



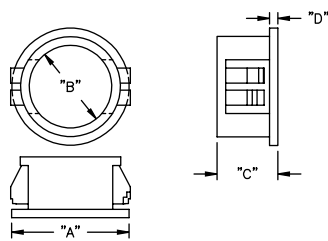
Material: Nylon 6/6, RMS-01 • Color: Black							
Part No.	Panel Thkns. Range	Hole Diameter	"A"	Max Holding Bundle Dia. "B"	"C"	"D"	Standard Pack
PGSB-0609A	.028 (0.7) - .071 (1.8)	.374 (9.5)	.45 (11.4)	.26 (6.6)	.26 (6.6)	.050 (1.3)	1000
PGSB-1013A	.031 (0.8) - .138 (3.5)	.512 (13.0)	.59 (15.0)	.35 (8.9)	.41 (10.5)	.060 (1.5)	500
PGSB-1216A	.028 (0.7) - .134 (3.4)	.630 (16.0)	.73 (18.5)	.48 (12.2)	.39 (10.0)	.040 (1.0)	
PGSB-1316A	.047 (1.2) - .138 (3.5)	.73 (18.0)	.71 (18.0)	.41 (10.4)	.41 (10.5)	.062 (1.6)	
PGSB-1519A	.047 (1.2) - .130 (3.3)	.748 (19.0)	.81 (20.6)	.57 (14.5)	.43 (11.0)	.050 (1.3)	200
PGSB-1822A	.039 (1.0) - .138 (3.5)	.866 (22.0)	.98 (24.9)	.68 (17.3)	.45 (11.5)	.062 (1.6)	

PGSB

Snap Bushings - Closed

Features

- Easy installation
- Insulates wires and cables from raw edges in compact design



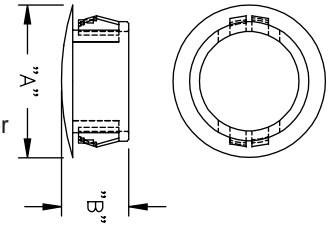
Material: Nylon 6/6, RMS-01 • Color: Black							
Part No.	Panel Thkns. Range	Hole Diameter	"A" ± .020	"B" Ref.	"C"	"D"	Package
PGSB-0710	.028-.071 (0.7-1.8)	.394 (10.0)	.48 (12.1)	.28 (7.2)	.26 (6.6)	.050 (1.3)	1000
PGSB-1013	.035-.118 (0.9-3.0)	.512 (13.0)	.60 (15.3)	.40 (10.2)	.36 (9.1)		500
PGSB-1316	.063-.146 (1.6-3.7)	.630 (16.0)	.71 (18.0)	.50 (12.8)	.41 (10.4)		
PGSB-1519	.043-.130 (1.1-3.3)	.748 (19.0)	.85 (21.7)	.60 (15.3)	.44 (11.1)	.060 (1.5)	
PGSB-1822	.043-.110 (1.1-2.8)	.866 (22.0)	.98 (24.8)	.72 (18.2)	.45 (11.4)		200
PGSB-2428	.051-.130 (1.3-3.3)	1.101 (28.0)	1.24 (31.5)	.95 (24.1)	.45 (11.4)		

PGM

Push Grommet Hole Plug-M Series

Features

- Plugs unused holes in panels or terminal boxes



Material: Nylon 6/6, RMS-01 • Color: Black					
Part No	Panel Thkns. Max.	Hole Diameter	"A" ±.012 (0.3)	"B" Ref.	Standard Pack
PGM-4	.063 (1.6)	.185 - .193 (4.7 - 4.9)	.24 (6.1)	.20 (5.1)	1000
PGM-6		.248 - .256 (6.3 - 6.5)	.30 (7.6)	.22 (5.6)	
PGM-8		.299 - .315 (7.6 - 8.0)	.37 (9.4)	.24 (6.1)	
PGM-10	.055 (1.4)	.378 - .394 (9.6 - 10.0)	.51 (13.0)		500
PGM-13	.083 (2.1)	.500 - .512 (12.7 - 13.0)	.67 (17.0)	.31 (7.9)	
PGM-16	.079 (2.0)	.626 - .630 (15.9 - 16.0)	.79 (20.1)	.30 (7.6)	
PGM-19	.126 (3.2)	.744 - .748 (18.9 - 19.0)	.93 (23.6)	.41 (10.4)	
PGM-22	.118 (3.0)	.862 - .866 (21.9 - 22.0)	1.02 (25.9)	.38 (9.7)	

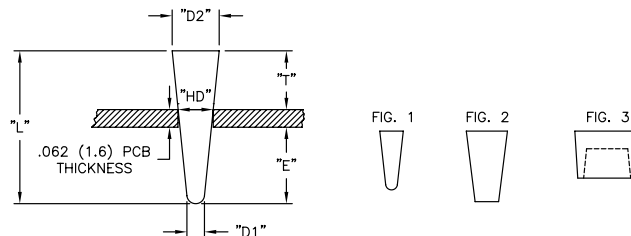
CBHP

Circuit Board Hole Plug



Features

- Prevents unwanted solder from flowing to the top surface of a plated through-hole during board soldering process

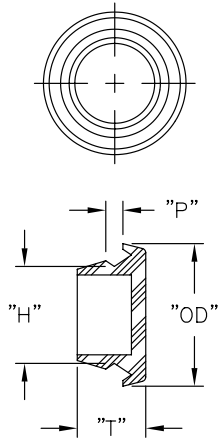
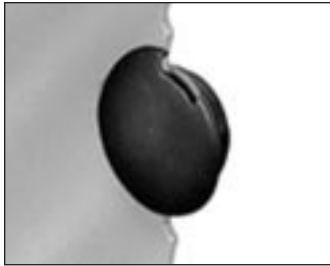


Material: Nylon 4/6 RMS-109 or Silicone RMS-123 • Color: Black							
Part No.	Standard Pack: 1000 per bag						
	"D1"	"HD"	"D2"	"T" Ref.	"E" Ref.	"L"	Material/Color
CBHP-1	.012 (0.3)	.025 (0.6)	.047 (1.2)	5/16 (7.9)	1/8 (3.2)	1/2 (12.7)	Nylon 4-6 Black RMS-109
CBHP-2	.015 (0.4)	.050 (1.3)	.082 (2.1)		11/64 (4.4)	35/64 (13.9)	
CBHP-3S	.040 (1.0)	.100 (2.5)	.160 (4.1)		1/4 (6.4)	11/64 (4.4)	31/64 (12.3)
CBHP-4S	.090 (2.3)	.150 (3.8)	.209 (5.3)				
CBHP-5S	.140 (3.6)	.200 (5.1)	.261 (6.6)				
CBHP-6S	.200 (5.1)	.250 (6.4)	.309 (7.8)				
CBHP-7S	.261 (6.6)	.312 (7.9)	.355 (9.0)				
CBHP-8S	.320 (8.1)	.375 (9.5)	.420 (10.7)				
CBHP-9S	.443 (11.3)	.500 (12.7)	.539 (13.7)				

Note: Metric equivalent for reference only.

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

BP
Body Plug



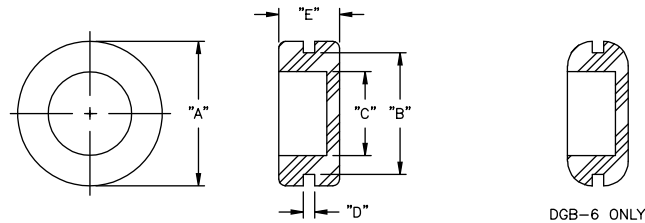
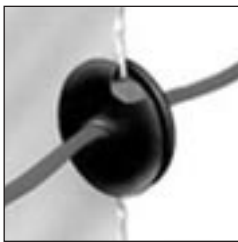
Features

- Provides splashproof seal
- Design enables each size to cover a wide range of panel thickness
- Diaphragm can be perforated to accommodate any size wire
- Withstands temperatures of -40°C – 135°C continuously

Material: Thermoplastic Rubber, RMS-67 • Color: Black

Part Number	Panel Hole Size "H"	Panel Thickness "P"	Outside Diameter "OD"	Body Plug Thickness "T"	Standard Pack per Bag
BP-16230	.39 (9.9)	.03 (0.8) - .08 (2.0)	.75 (19.1)	.47 (11.9)	1000
BP-16231	.47 (11.9)		.83 (21.1)		
BP-16232	.55 (14.0)		.91 (23.1)		
BP-16233	.63 (16.0)		.98 (24.9)		
BP-16234	.71 (18.0)		1.06 (26.9)		
BP-16235	.79 (20.1)		1.14 (29.0)		
BP-16236	.87 (22.1)		1.22 (31.0)		
BP-16237	.98 (24.9)		1.34 (34.0)		
BP-16238	1.18 (30.0)		1.54 (39.1)		
BP-10517	1.77 (45.0)		2.14 (54.4)		

DGB
Diaphragm Grommet, Blank



DGB-6 ONLY

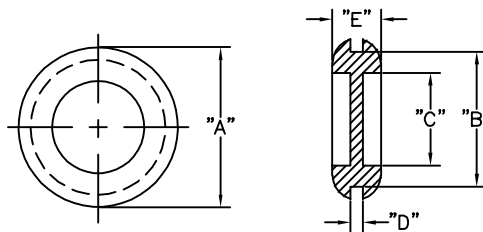
Features

- Diaphragm can be perforated to accommodate any size wire

Material: Flexible vinyl, RMS-25 • Color: Black

Part No	Standard Pack: 1000 per bag				
	"A"	Panel Hole Size "B"	"C"	"D"	"E"
DGB-2.5	.37 (9.4)	.25 (6.4)	.16 (4.1)	.03 (0.8)	.14 (3.6)
DGB-4	.50 (12.7)	.39 (9.9)	.25 (6.4)		.26 (6.6)
DGB-5	.62 (15.7)	.49 (12.4)	.37 (9.4)		.25 (6.4)
DGB-6	.67 (17.0)	.43 (10.9)	.31 (7.9)		.06 (1.5)
DGB-7	.73 (18.5)	.61 (15.5)	.43 (10.9)	.28 (7.1)	
DGB-10	1.00 (25.4)	.87 (22.1)	.72 (18.3)	.31 (7.9)	
DGB-11	1.00 (25.4)	.75 (19.1)	.63 (16.0)	.28 (7.1)	
DGB-13	1.15 (29.2)	1.00 (25.4)	.81 (20.6)	.31 (7.9)	

DG
Diaphragm Grommets



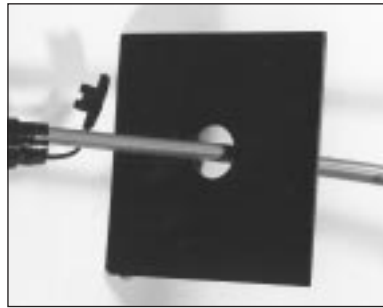
Material: PVC Flexible, RMS-25 • Color: Black

Part No.	Standard Pack: 1000 per bag					
	"A"	"B"	"C"	"D"	"E"	
DG-19426	.75 (19.0)	.63 (16.0)	.43 (11.0)	.06 (1.5)	.23 (5.8)	
DG-19427	.87 (22.0)		.49 (12.5)	.09 (2.4)	.32 (8.0)	
DG-19428	1.00 (25.4)	.75 (19.0)	.55 (14.0)	.06 (1.5)	.31 (7.0)	
DG-15512			.63 (15.9)	.08 (2.0)		
DG-10134			.09 (2.4)	.35 (8.8)		
DG-19429			.55 (14.0)	.12 (3.0)		.37 (9.5)
DG-10187			.79 (20.0)	.06 (1.5)		.32 (8.0)
DG-10806	1.44 (36.5)	1.00 (25.5)	.75 (19.0)	.09 (2.4)	.33 (8.4)	
DG-19430	1.50 (38.0)	1.26 (32.0)	1.00 (25.4)	.16 (4.0)	.32 (8.0)	
DG-19432					.37 (9.5)	
DG-19442					.40 (10.1)	
DG-19442	1.93 (49.0)	1.65 (42.0)	1.22 (31.0)	.09 (2.4)		

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

SRB-D/F/R

Relief Bushing Strain



Place on Cord

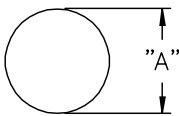


Press Together with Pinchers

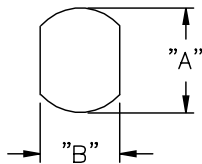
Features

- Eliminates strain and wear on wires and cords
- Withstands temperatures to 150°F (65°C)

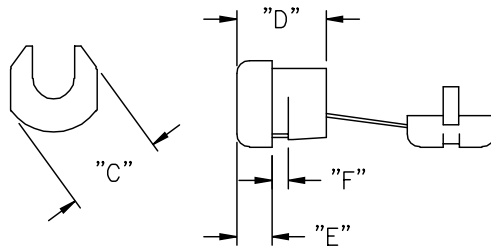
Style A



Style B



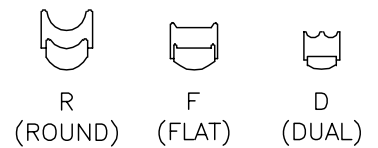
Mounting Holes



Bushing Dimensions



SRPL-2



Key-Contour Style

Material: Nylon 6/6, RMS-40 • Color: Black														
Part No.	Wires Accommodated	Approx. Wire Size	Standard Pack: 500 per Bag											
			Mounting Holes		C	D	E	F Max. Panel Thickness						
			A	B										
SRB-D-3	SP-1, SPT-1 #18/2	.120 X .220 (3.1 X 5.6)	.437 (11.10)	.395 (10.03)	.460 (11.68)	.410 (10.41)	.160 (4.06)	.062 (1.57)						
SRB-F-2	SP-1, SPT-1 #18/2 XT (CLOCKWIRE) #18/2	.11 X .21 (2.8 X 5.3) .09 X .18 (2.3 X 4.6)	.375 (9.53)	.345 (8.76)	.425 (10.80)		.155 (3.94)							
SRB-F-4	SP-2, SPT-2 #16/2 HPN #16/2 SP-2, SPT-2 #18/2 HPN #18/2	.161 X .30 (4.1 X 7.6) .15 X .28 (3.8 X 7.1)	.515 (13.08) .500 (12.70)	.465 (11.81)	.570 (14.98)	.500 (12.70)	.171 (4.34)	.100 (2.54)						
SRB-F-5	HPN #16/3 SPT-2 #18/3 SPT-3 #16/2 SPT-3 #18/2	.16 X .37 (4.1 X 9.4) .15 X .34 (3.8 X 8.6) .20 X .37 (5.1 X 9.4) .18 X .35 (4.6 X 8.9)	.562 (14.27)	.530 (13.46)	.610 (15.49)	.600 (15.24)	.240 (6.10)	.130 (3.30)						
SRB-F-7	SPT-1 #18/3 SPT-2 & HPN #18/2 SPT-2 & HPN #16/2	.19 X .30 (3.0 X 7.6) .15 X .28 (3.8 X 7.1) .16 X .30 (4.1 X 7.6)							.500 (12.70)	.456 (11.58)	.545 (13.84)	.401 (10.20)	.142 (3.60)	.071 (1.80)
SRB-R-5	SV, SVT #18/2" SV, SVT #18/3 HPD #16/2 HPD #18/2	.250 (6.43) .265 (6.73) .290 (7.37) .270 (6.86)							.515 (13.08) .500 (12.70)	.465 (11.81)	.560 (14.22)	.430 (10.92)	.165 (4.19)	.100 (2.54)
SRB-R-6	SJ, SJT, SJO #16/2 SJ, SJT, SJO #18/2 SJ, SJT, SJO #16/3 SJ, SJT, SJO #18/3	.325 (8.26) .300 (7.62) .355 (9.02) .330 (8.38)							.656 (16.66) .687 (17.45)	.570 (14.48)	.730 (18.54)	.680 (17.27)	.275 (6.99)	.125 (3.18)

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

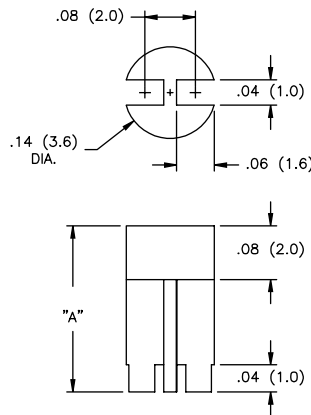
LEDS1E/LEDS2E Series LED Spacer, Molded



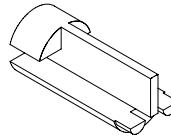
Features

- Spaces LED from surface of board, minimizing shifting and height variation, ensuring product uniformity and production ease

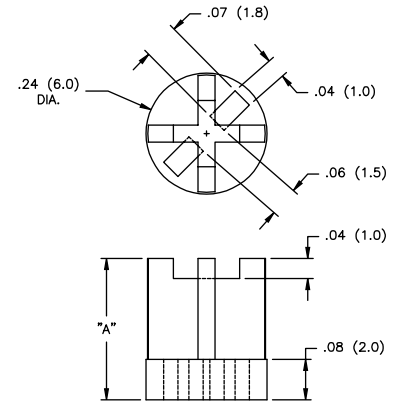
LEDS1E For T-1 Series LED



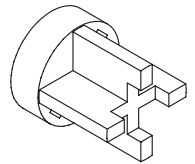
Material: Nylon 6/6, RMS-01 Color: Natural	
Part No.	Standard Pack: 1000 per bag "A"
LEDS1E-3-01	3/16 (4.8)
LEDS1E-4-01	1/4 (6.4)
LEDS1E-6-01	3/8 (9.5)
LEDS1E-8-01	1/2 (12.7)
LEDS1E-10-01	5/8 (15.9)
LEDS1E-12-01	3/4 (19.1)
LEDS1E-14-01	7/8 (22.2)
LEDS1E-16-01	1 (25.4)
Flame Retardant Nylon, RMS-19 available by special order	



LEDS2E For T-1 3/4 Series LED



Material: Nylon 6/6, RMS-01 Color: Natural	
Part No.	Standard Pack: 1000 per bag "A"
LEDS2E-3-01	3/16 (4.8)
LEDS2E-4-01	1/4 (6.4)
LEDS2E-6-01	3/8 (9.5)
LEDS2E-8-01	1/2 (12.7)
LEDS2E-10-01	5/8 (15.9)
LEDS2E-12-01	3/4 (19.1)
LEDS2E-14-01	7/8 (22.2)
LEDS2E-16-01	1 (25.4)
Flame Retardant Nylon, RMS-19 available by special order	



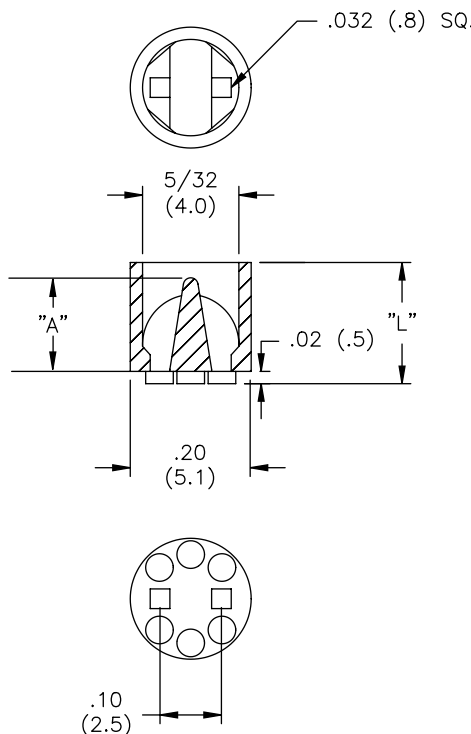
LEDS2M Series LED Spacer, Molded



Features

- Positive self-alignment of leads on .100 centers.
- Unique internally tapered design allows for quick and easy insertion of LED

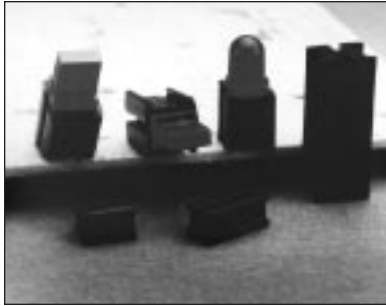
LEDS2M For T-1 3/4 Series LED



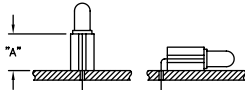
Material: Nylon 6/6, RMS-48 • Color: Natural		
Part Number	Standard Pack: 1000 per bag	
	"L" ± 0.010	"A" Ref
LEDS2M-120-48	.120 (3.0)	.08 (2.0)
LEDS2M-140-48	.140 (3.6)	
LEDS2M-160-48	.160 (4.1)	
LEDS2M-180-48	.180 (4.6)	
LEDS2M-200-48	.200 (5.1)	
LEDS2M-220-48	.220 (5.6)	
LEDS2M-240-48	.240 (6.1)	.20 (5.1)
LEDS2M-250-48	.250 (6.4)	
LEDS2M-260-48	.260 (6.6)	
LEDS2M-280-48	.280 (7.1)	
LEDS2M-300-48	.300 (7.6)	
LEDS2M-320-48	.320 (8.1)	
LEDS2M-340-48	.340 (8.6)	.33 (8.4)
LEDS2M-350-48	.350 (8.9)	
LEDS2M-360-48	.360 (9.1)	
LEDS2M-380-48	.380 (9.7)	
LEDS2M-400-48	.400 (10.2)	
LEDS2M-420-48	.420 (10.7)	
LEDS2M-440-48	.440 (11.2)	.45 (11.4)
LEDS2M-450-48	.450 (11.4)	
LEDS2M-460-48	.460 (11.7)	
LEDS2M-480-48	.480 (12.2)	
LEDS2M-500-48	.500 (12.7)	
LEDS2M-550-48	.550 (14.0)	
LEDS2M-600-48	.600 (15.2)	.58 (14.7)
LEDS2M-650-48	.650 (16.5)	
LEDS2M-700-48	.700 (17.8)	
LEDS2M-750-48	.750 (19.1)	
LEDS2M-800-48	.800 (20.3)	
LEDS2M-850-48	.850 (21.6)	
LEDS2M-900-48	.900 (22.9)	.70 (17.8)

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

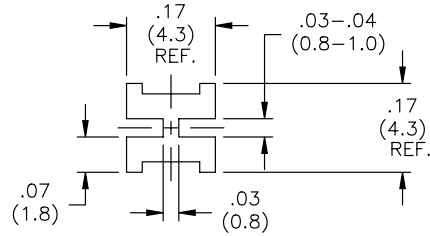
SQLEDS Series Square LED Spacer



TYPICAL APPLICATIONS



SQLEDS1 for T-1 Series LED

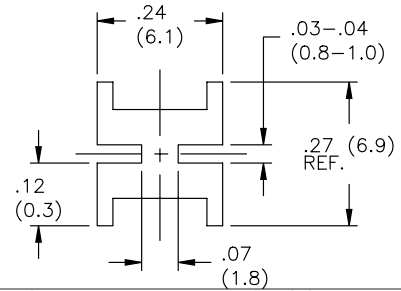


Material: PVC, RMS-26 (UL 94V-0) • Color: Black

Part No.	Standard Pack: 1000 per bag "A" ± 0.015"
SQLEDS1-4-26	1/4 (6.4)
SQLEDS1-6-26	3/8 (9.5)
SQLEDS1-8-26	1/2 (12.7)

Other sizes available by special order.

SQLEDS2 for T-1 3/4 Series LED



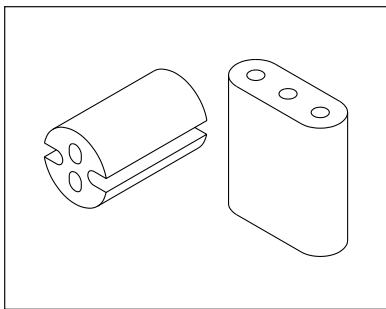
Material: PVC, RMS-26 (UL 94V-0) • Color: Black

Part No.	Standard Pack: 1000 per bag "A" ± 0.015"
SQLEDS2-4-26	1/4 (6.4)
SQLEDS2-6-26	3/8 (9.5)
SQLEDS2-8-26	1/2 (12.7)
SQLEDS2-10-26	5/8 (15.9)
SQLEDS2-12-26	3/4 (19.1)

Other sizes available by special order.

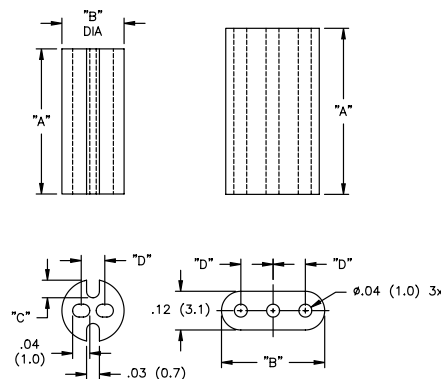
LEDS1/LEDS2/LEDS3 LED Spacer

For T-1 Series LED and T-1 3/4 Series LED



LEDS1/2

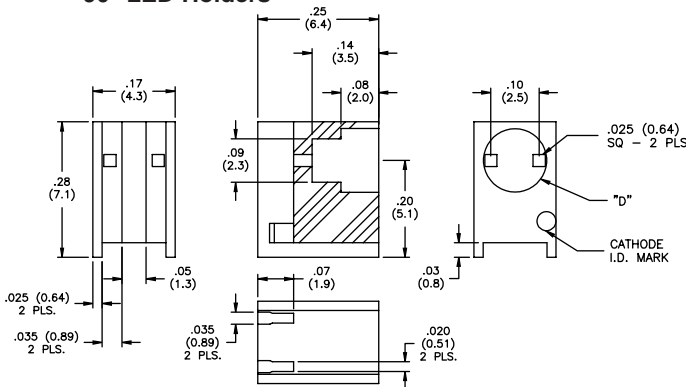
LEDS3



Material: PVC, RMS-26 (UL 94V-0) • Color: Black

Part No.	Standard Pack: 1000 per bag			
	"A"	"B"	"C"	"D"
LEDS1-4-26	1/4 (6.4)			
LEDS1-6-26	3/8 (9.5)	5/32 (4.0)	3/64 (1.2)	.06 (1.5)
LEDS1-8-26	1/2 (12.7)			
LEDS2-4-26	1/4 (6.4)			
LEDS2-6-26	3/8 (9.5)	3/16 (4.8)	.060 (1.5)	
LEDS2-8-26	1/2 (12.7)			
LEDS2-10-26	5/8 (15.9)			
LEDS2-12-26	3/4 (19.1)			
LEDS3-3-26	3/16 (4.8)			.10 (2.5)
LEDS3-4-26	1/4 (6.4)			
LEDS3-6-26	3/8 (9.5)	.32 (8.1)		
LEDS3-8-26	1/2 (12.7)			
LEDS3-10-26	5/8 (15.9)			
LEDS3-12-26	3/4 (19.1)			

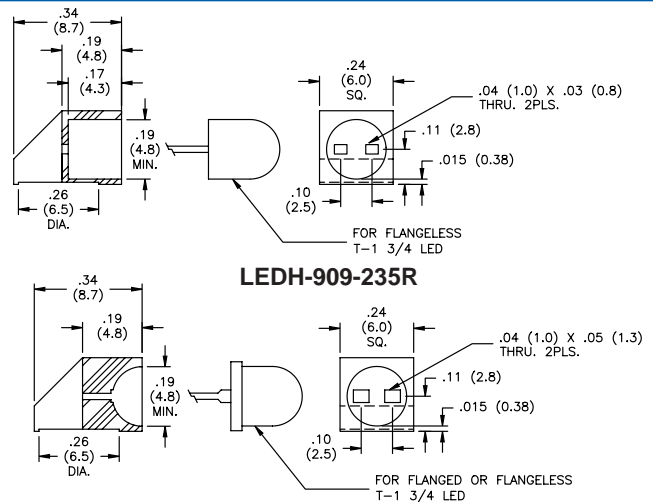
LEDH Series 90° LED Holders



For T1 LED

Material: Nylon 6/6, RMS-43, UL94V-0 • Color: Black

Part No.	Standard Pack: 1000 per bag Dia. "D"
LEDH-101C-34	.13 (3.4)
LEDH-101C-38	.15 (3.8)



LEDH-909-235R

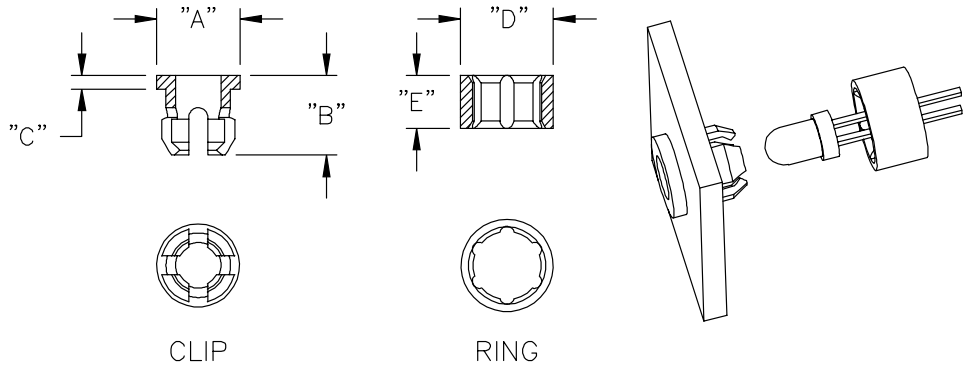
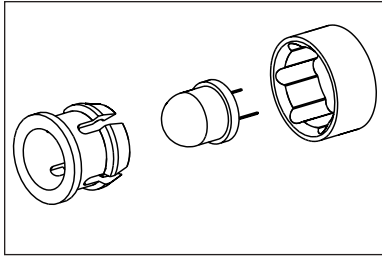
LEDH-909-235 For T-1 3/4 LED

**Material: Nylon 6/6, RMS-48, UL94V-2
Color: Black**

Standard Pack: 1000 per bag

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

LEDCR Series LED Clips and Rings



Features

- Part sold in a set with ring and clip

NOTE - Mounting Hole:

LEDCR-104 — .174-.180 (4.4-4.6) Dia.

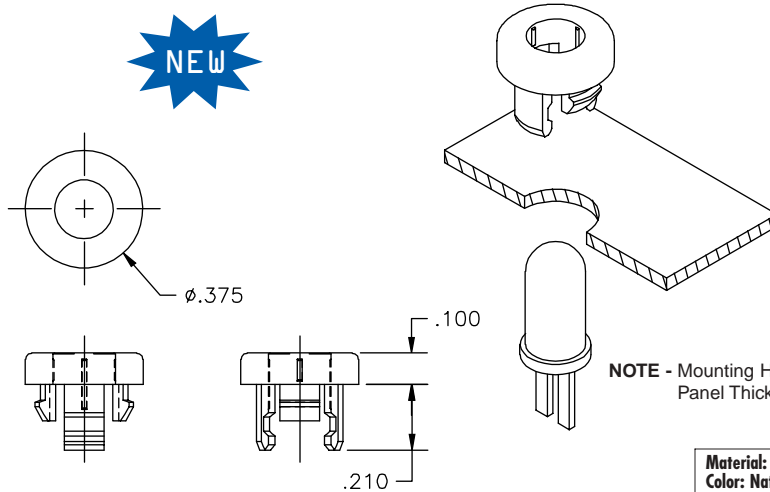
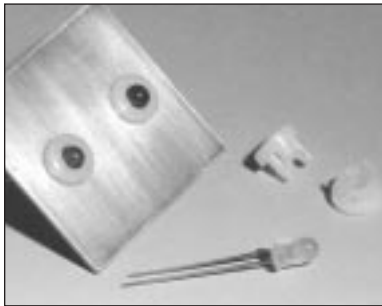
LEDCR-174 — .267-.273 (6.8-6.9) Dia.

Panel Thickness: .032-.125 (.81-3.2)

Material: Nylon 6/6 • **Clip:** UL94V-0, RMS-43
Color: Black

Part No.	Ring Material	LED Type	Standard Pack: 1000 sets per bag				
			"A" Dia.	"B"	"C"	"D" Dia.	"E"
LEDCR-104	Nylon 6/6 UL 94V-0, RMS 43	T-1	.21 (5.3)	.21 (5.3)	.015 (0.4)	.24 (6.1)	.14 (3.6)
LEDCR-174	Nylon 6/6 UL 94V-2, RMS 48	T-1-3/4	.30 (7.6)	.26 (6.6)	.030 (0.8)	.35 (8.9)	.16 (4.1)

LEDHPM-1 LED Holder, Panel Mount



NOTE - Mounting Hole Diameter: .281-.287"
Panel Thickness: .044-.048"

Features

- Accepts standard T - 1-3/4 LED type

Material: Nylon 6/6, RMS-01

Color: Natural

Standard Pack: 1000 per bag

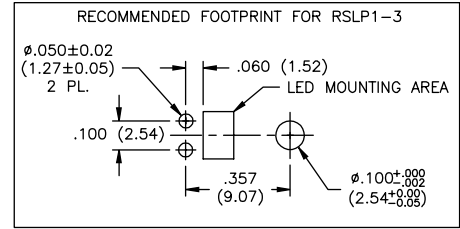
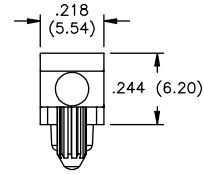
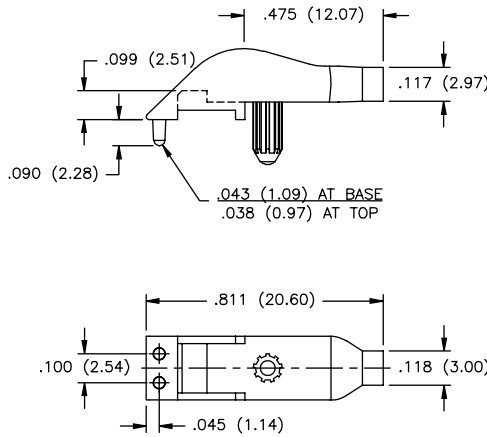
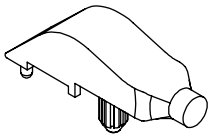


- Up-to-the-minute product updates can be seen on our corporate web page at www.richco-inc.com
- Raw Material Specifications can be found at the end of the catalog - pages 184-192
- **Want to try a sample? Please call 1-800-621-1892**

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

RSLP1-3

90° Light Pipe for Surface Mount

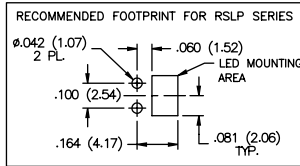
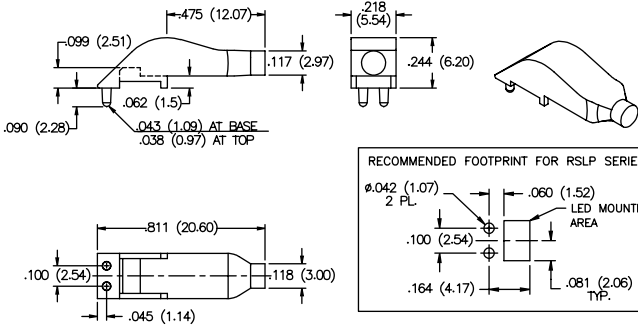


Material: Polycarbonate UL94-V0
 Color: Clear

Standard Pack: 1000 per bag

RSLP-1

90° Light Pipe for Surface Mount

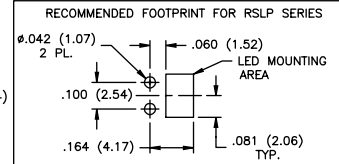
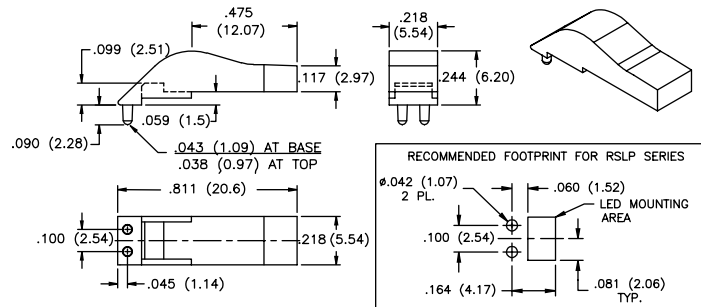


Material: Polycarbonate UL94-V0
 Color: Clear

Standard Pack: 1000 per bag

RSLP-2

90° Light Pipe for Surface Mount

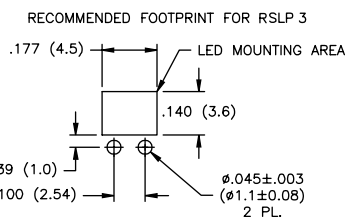
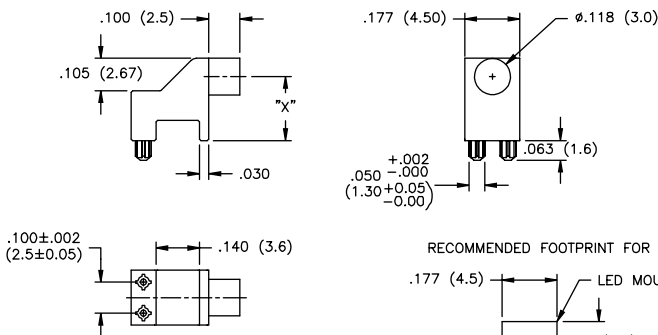


Material: Polycarbonate UL94-V0
 Color: Clear

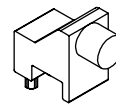
Standard Pack: 1000 per bag

RSLP-3

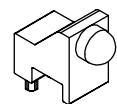
90° Light Pipe for Surface Mount



RSLP-3-150-F
 FLAT (ROUND "R") FACE
 DIM. "X"
 SERIES



TYPE "F"



TYPE "R"

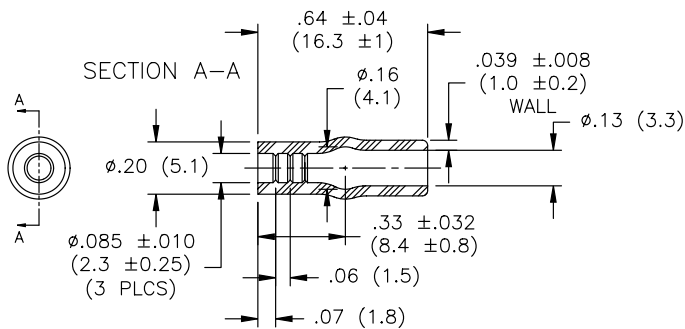
Material: Polycarbonate UL94-V0 • Color: Clear

Part No. "F"	Part No. "R"	Standard Pack: 1000 per bag "X"
RSLP-3-150-F	RSLP-3-150-R	.150 (3.8)
RSLP-3-200-F	RSLP-3-200-R	.200 (5.0)
RSLP-3-250-F	RSLP-3-250-R	.250 (6.4)
RSLP-3-300-F	RSLP-3-300-R	.300 (7.6)
RSLP-3-350-F	RSLP-3-350-R	.350 (8.9)
RSLP-3-400-F	RSLP-3-400-R	.400 (10.2)
RSLP-3-450-F	RSLP-3-450-R	.450 (11.4)
RSLP-3-500-F	RSLP-3-500-R	.500 (12.7)
RSLP-3-550-F	RSLP-3-550-R	.550 (13.9)
RSLP-3-600-F	RSLP-3-600-R	.600 (15.2)
RSLP-3-650-F	RSLP-3-650-R	.650 (16.5)
RSLP-3-700-F	RSLP-3-700-R	.700 (17.8)

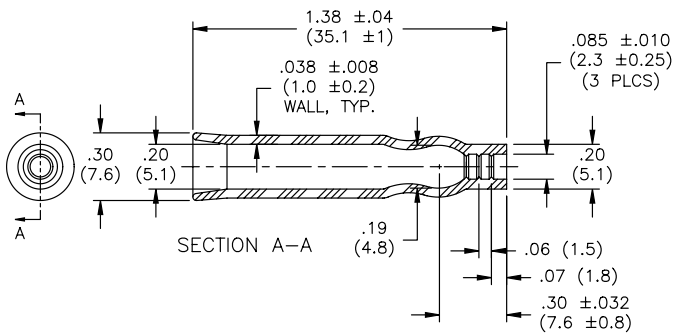
GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

Splashproof Insulators

224210



215010



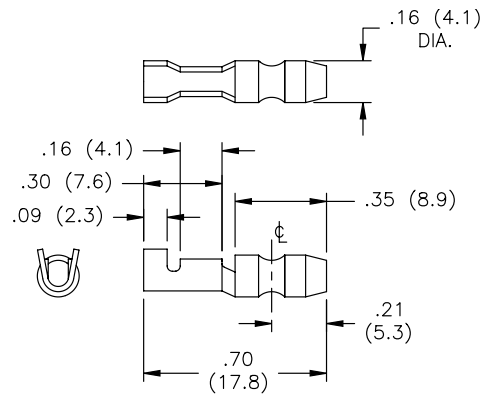
Features

- Transparent material allows visual inspection of terminal
- Recommended wire O.D. .088" to .120" (2.2-3.1mm)

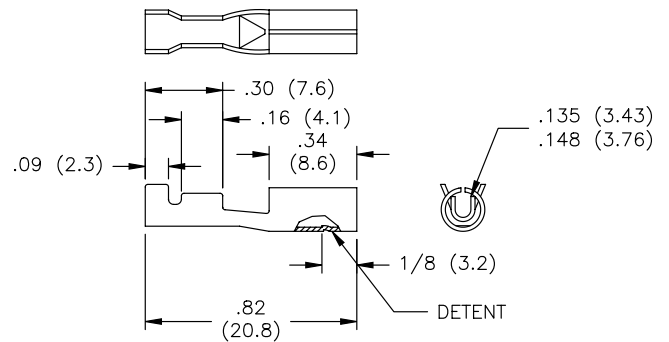
Material: Soft PVC, RMS-55
Color: Translucent Blue
Standard Pack: 1000 per bag

Terminal Pin Plug and Receptacle

224210-P



215010-R



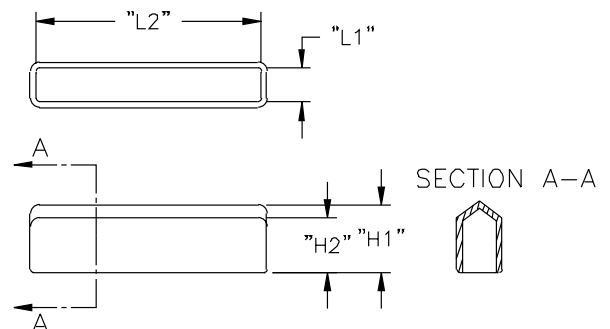
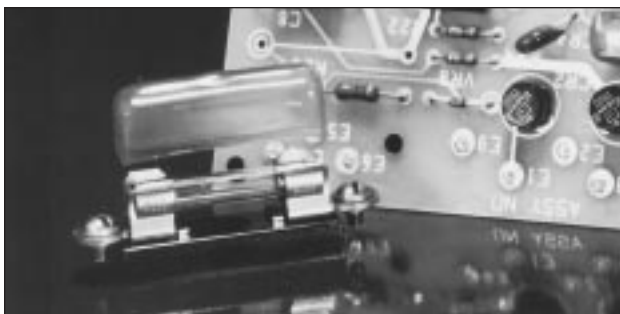
Features

- For use with one 16, 18 or 20 AWG wire
- Insulation diameter of .088" to .128" (2.34-3.25mm)

Material: Brass CDA 260-0.16 (4.0) thick for receptade / .020 (.51) thick for plug.
Finish: Pre-tin plating
Color: Silver
Standard Pack: 1000 per bag

840XXX Series

"Quick Fit" Fuse Covers



Material Characteristics

- Specific Gravity:** 1.2-1.5
Heat Resistance: 105°C
Flame Resistance: Less than 60 S.E., 0 seconds (UL224)

- Hi Pot:** 2400V for 1 minute (UL510)
Corrosion when exposed to copper: None
Voltage: 600V

Material: Flexible PVC, RMS-55 • **Color:** Transparent Blue • **UL N°E 120063 Rating:** 105°C, 600V

Part No.	Standard Pack: 1000 per bag				Fuse Type
	"H1" Ref.	"H2" Ref.	"L1"	"L2"	
840620	1/2 (12.7)	0.391 (9.9)	.24 (6.1)	.79 (20.1)	METRIC
840730	1/2 (12.7)	0.391 (9.9)	.28 (7.1)	1.18 (30.0)	METRIC
840832	5/8 (15.9)	0.578 (14.7)	.32 (8.1)	1.26 (32.0)	METRIC
840836	1/2 (12.7)	0.391 (9.9)	.32 (8.1)	1.42 (36.1)	STD 0.25X1.25

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

"Quick Fit" Insulator



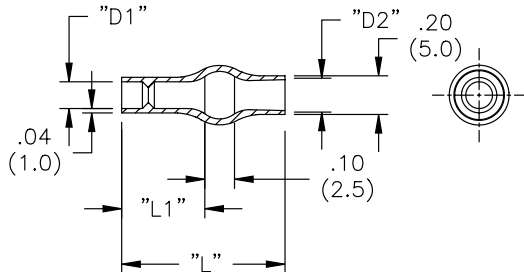
Material Characteristics

- Specific Gravity:*
1.2-1.5
- Heat Resistance:*
105°C
- Flame Resistance:*
Less than 60
S.E., 0 seconds (UL224)
- Hi Pot:*
2400V for 1 minute (UL510)
- Corrosion when exposed to copper:*
None
- Voltage:*
600V

Features

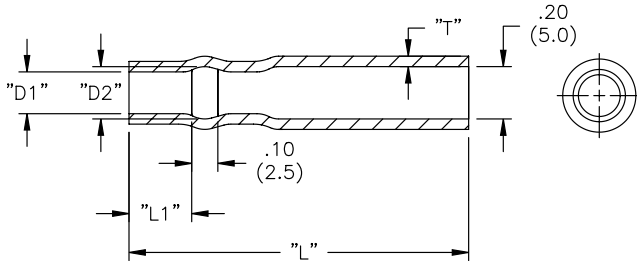
- UL recognized #E120063
- Replaces heat shrink tubing and are ideal for use on all standard types of terminals
- Easy removal for replacement of terminal
- Transparent material allows visual inspection of terminal
- Lower installed cost vs. heat shrink tubing

Insulating Sleeve for Pin Plug



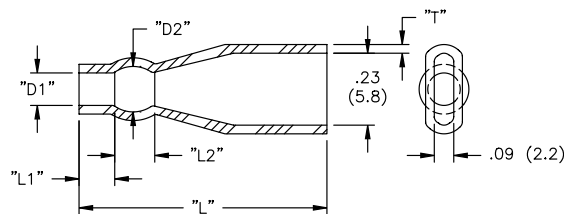
Material: Soft PVC, RMS-55 • Color: Transparent Blue							
Standard Pack: 1000 per bag							
Part No.	Wire O.D. Range	Wire Ga.	"D1"	"D2"	"L1" ± .04 (1.0)	"L" ± .04 (1.0)	
224222	.058 - .080	24 - 20	.09 (2.3)	.18 (4.6)	.28 (7.1)	.55 (14.0)	
224225	.058 - .091	22 - 18	.10 (2.5)	.16 (4.1)	.24 (6.1)	.51 (13.0)	
224228			.11 (2.8)	.18 (4.6)	.28 (7.1)		
224230	.068 - .113	20 - 18	.12 (3.0)	.16 (4.1)	.24 (6.1)		
224232	.071 - .126	18 - 16	.13 (3.3)	.18 (4.6)	.28 (7.1)	.55 (14.0)	
224235	.071 - .140	18 - 14	.14 (3.6)		.24 (6.1)	.51 (13.0)	
224240	.091 - .140	16 - 14	.16 (4.1)		.24 (6.1)		

Insulating Sleeve for Pin Receptacle



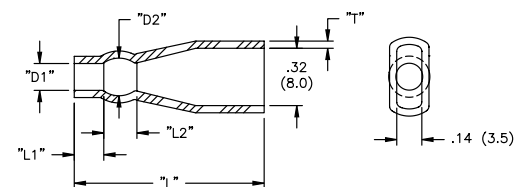
Material: Soft PVC, RMS-55 • Color: Transparent Blue							
Standard Pack: 1000 per bag							
Part No.	Wire O.D. Range	Wire Gauge	"D1"	"D2"	"L1" ± .04 (1.0)	"L" ± .04 (1.0)	"T"
215025	.058 - .091	22-18	.10 (2.5)	.16 (4.1)	.24 (6.1)	1.30 (33.0)	.04 (1.0)
215028			.11 (2.8)	.18 (4.6)			
215030	.068 - .113	20-18	.12 (3.0)	.16 (4.1)	1.30 (33.0)		
215032	.071 - .126	18-16	.13 (3.3)	.18 (4.6)	.28 (7.1)	1.34 (34.0)	
215035	.071 - .140	18-14	.14 (3.6)	.16 (4.1)	.24 (6.1)	1.30 (33.0)	
215040	.091 - .140	16-14	.16 (4.1)	.20 (5.1)			

Flat Insulating Sleeve, Series 187



Material: Soft PVC, RMS-55 • Color: Transparent Blue									
Standard Pack: 1000 per bag									
Part No.	Wire O.D. Range	Wire Ga.	"D1"	"D2"	"L1" ± .04 (1.0)	"L2"	"L" ± .04 (1.0)	"T"	
235815	.042 (1.1) - .060 (1.5)	26 - 22	.06 (1.5)	.12 (3.0)	.20 (5.1)	.12 (3.0)	.91 (23.1)	.03 (0.8)	
235818	.042 (1.1) - .065 (1.7)		.07 (1.8)	.13 (3.3)				.04 (1.0)	
235820	.058 (1.5) - .080 (2.0)	24 - 20	.08 (2.0)	.14 (3.6)		.10 (2.5)			.03 (0.8)
235822			.09 (2.3)	.15 (3.8)					.04 (1.0)
235825	.058 (1.5) - .091 (2.3)	22 - 18	.10 (2.5)	.14 (3.6)					.03 (0.8)
235830		20 - 18	.12 (3.0)	.16 (4.1)					
235835	.071 (1.8) - .140 (3.6)	18 - 14	.14 (3.6)	.18 (4.6)		.12 (3.0)			.03 (0.8)
235840	.113 (2.9) - .170 (4.3)	14 - 12	.16 (4.1)	.20 (5.1)					
235845	.100 (2.5) - .140 (3.6)	16 - 14	.18 (4.6)	.22 (5.6)					

Flat Insulating Sleeve, Series 250

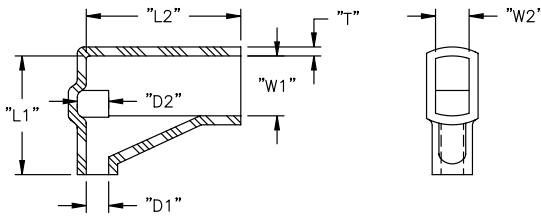


Material: Soft PVC, RMS-55 • Color: Transparent Blue									
Standard Pack: 1000 per bag									
Part No.	Wire O.D. Range	Wire Ga.	"D1"	"D2" Ref.	"L1" ± .04 (1.0)	"L2" Ref.	"L" ± .04 (1.0)	"T" ± .008 (0.2)	
238020	.058 (1.5) - .080 (2.0)	24 - 20	.08 (2.0)	.13 (3.3)	.20 (5.1)	.12 (3.0)	.95 (24.1)	.04 (1.0)	
238025	.058 (1.5) - .091 (2.3)	22 - 18	.10 (2.5)	.18 (4.6)					
238030	.068 (1.7) - .113 (2.9)	20 - 18	.12 (3.0)	.19 (4.8)		.14 (3.6)			
238032	.071 (1.8) - .126 (3.2)	18 - 16	.13 (3.3)			.10 (2.5)			
238035	.071 (1.8) - .140 (3.6)	18 - 14	.14 (3.6)	.18 (4.6)		.12 (3.0)			
238038	.091 (2.3) - .140 (3.6)	16 - 14	.15 (3.8)	.21 (5.3)		.10 (2.5)			.98 (24.9)
238040			.16 (4.1)	.20 (5.1)		.12 (3.0)			.97 (24.6)
238048	.113 (2.9) - .190 (4.8)	14 - 12	.19 (4.8)	.25 (6.3)		.10 (2.5)			.98 (24.9)
238060	.182 (4.6) - .214 (5.4)	12 - 10	.24 (6.1)	.30 (7.6)	.28 (7.0)	.10 (2.5)	1.14 (29.0)		

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

“Quick-Fit” Insulator (cont’d.)

Flag Type Insulating Sleeve, Series 187/Series 250

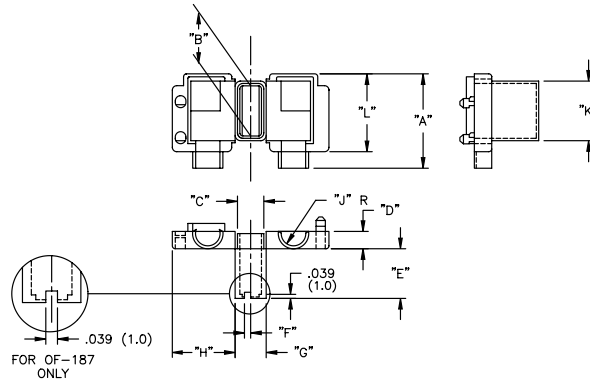


Material: Soft PVC, RMS-55 • Color: Transparent Blue

Part No.	Wire O.D. Range	Wire Ga.	"D1"	"D2"	Standard Pack: 1000 per bag					ID No. On Part	Connector Series
					"L1" ± .04 (1.0)	"L2" ± .04 (1.0)	"W1"	"W2"	"T"		
246225	.058-.091 (1.5-2.3)	22 - 18	.10 (2.5)	.14 (3.5)	.45 (11.5)	.55 (14.0)	.24 (6.2)	12 (3.0)	.04 (1.0)	S54	187
246230	.068-.113 (1.7-2.9)	20 - 18	.12 (3.0)	.16 (4.0)							
246232	.071-.126 (1.8-3.2)	18 - 16	.13 (3.2)	.17 (4.2)							
248525	.058-.091 (1.5-2.3)	22 - 18	.10 (2.5)	.14 (3.5)	.53 (13.5)	.69 (17.5)	.34 (8.5)	.18 (4.5)	.04 (1.0)	S61	250
248530	.068-.113 (1.7-2.9)	20 - 18	.12 (3.0)	.16 (4.0)							
248532	.071-.126 (1.8-3.2)	18 - 16	.13 (3.2)	.17 (4.2)							
248540	.091-.140 (2.3-3.6)	16 - 14	.16 (4.0)	.20 (5.0)							
248548	.113-.190 (2.9-4.8)	14 - 12	.19 (4.8)	.23 (5.8)							
248550	.140-.190 (3.6-4.8)	12 - 10	.20 (5.0)	.24 (6.0)							

OF

“One Touch” Sleeve Insulator - Flag Type



Material: Nylon 6, RMS-120, U.L. #E53664 • Color: Natural

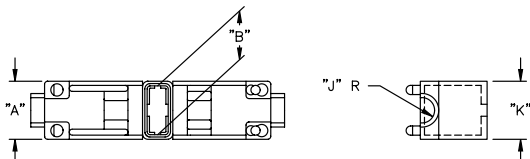
Part No.	Terminal Type	Wire Dia.	Standard Pack: 500 per bag										U.L. CAT. NO.	
			"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"		"L"
OF-187	FLAG TYPE 187 SERIES	1/8 (3.2)	.531 (13.5)	.252 (6.4)	.118 (3.0)	.098 (2.5)	.236 (6.0)	.039 (1.0)	.181 (4.6)	.382 (9.7)	.063 (1.6)	.315 (8.0)	.413 (10.5)	61
OF-250	FLAG TYPE 250 SERIES	5/32 (3.8)	.622 (15.8)	.346 (8.8)	.150 (3.8)	.114 (2.9)	.314 (8.0)	.039 (1.0)	.213 (5.4)	.425 (10.8)	.075 (1.9)	.409 (10.4)	.524 (13.3)	60

Features

- For use with pre-assembled wire and receptacles

OS

“One Touch” Sleeve Insulator - Straight Type



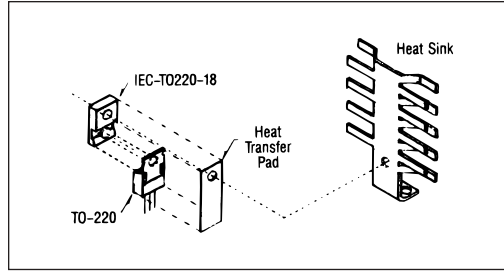
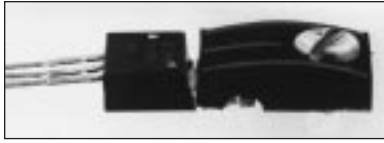
Material: Nylon 6, RMS-120, U.L. #E53664 • Color: Natural

Part No.	Terminal Type	Wire Dia.	Standard Pack: 500 per bag										U.L. CAT. NO.
			"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	
OS-110	STRAIGHT TYPE 110 SERIES	7/64 (3.0)	.307 (7.8)	.157 (4.0)	.087 (2.2)	.091 (2.3)	.268 (6.8)	.031 (0.8)	.165 (4.2)	.708 (18.0)	.059 (1.5)	.236 (6.0)	52
OS-187	STRAIGHT TYPE 187 SERIES	9/64 (3.6)	.331 (8.4)	.236 (6.0)	.102 (2.6)	.105 (2.7)	.039 (1.0)	.693 (17.6)		.071 (1.8)	.299 (7.6)	.331 (8.4)	51
OS-205	STRAIGHT TYPE 205 SERIES	9/64 (3.6)	.339 (8.6)	.260 (6.6)	.118 (3.0)	.102 (2.6)		.276 (7.0)	.181 (4.6)	.071 (1.8)	.331 (8.4)		
OS-250	STRAIGHT TYPE 250 SERIES	5/32 (3.8)	.378 (9.6)	.315 (8.0)	.134 (3.4)	.110 (2.8)	.315 (8.0)	.197 (5.0)	.728 (18.5)	.075 (1.9)	.378 (9.6)	50	

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

IEC

Transistor Insulator



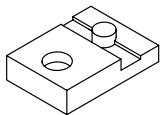
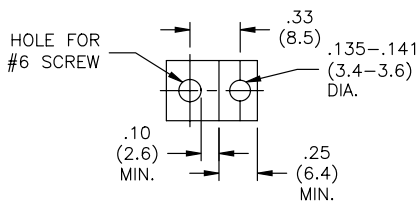
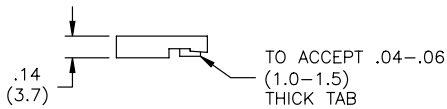
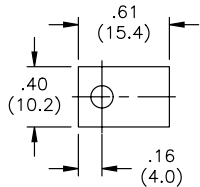
Features

- Separates the mounting screw from the transistor
- Maximum recommended operating temperature 120°F (49°C)

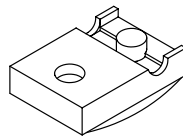
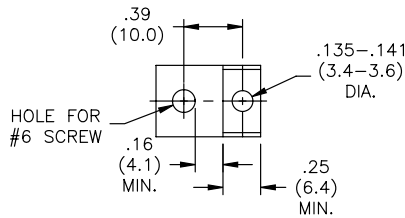
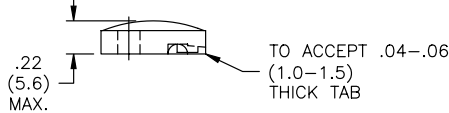
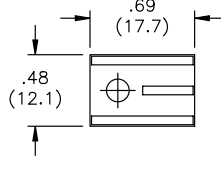
Material: Glass Filled Nylon, RMS-18
Color: Black

Standard Pack: 1000 per bag

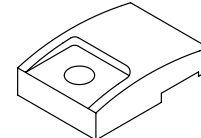
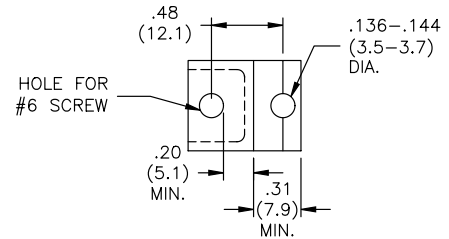
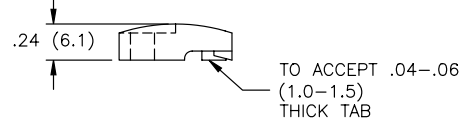
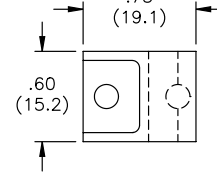
IEC-TO-220-18



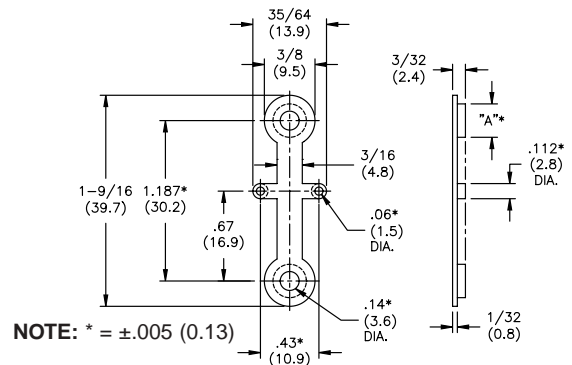
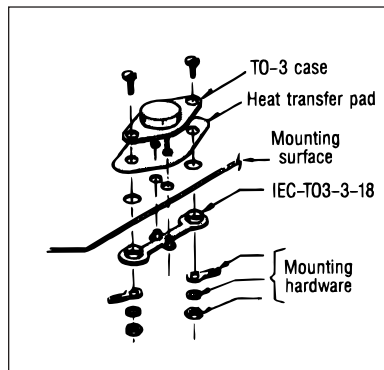
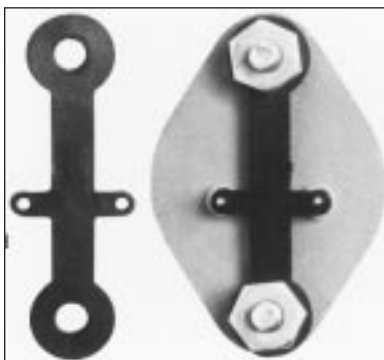
IEC-TO-220V-18



IEC-TO-218



IEC-TO3



NOTE: * = ±.005 (0.13)

Material: Glass Filled Nylon, RMS-18
Color: Black

Part No	Standard Pack: 1000 per bag	
	"A" Dia.	
IEC-TO3-3-18	.184 (4.7)	To Fit .187 (4.8) Dia. Hole
IEC-TO3-4-18	.247 (6.3)	To Fit .250 (6.4) Dia. Hole

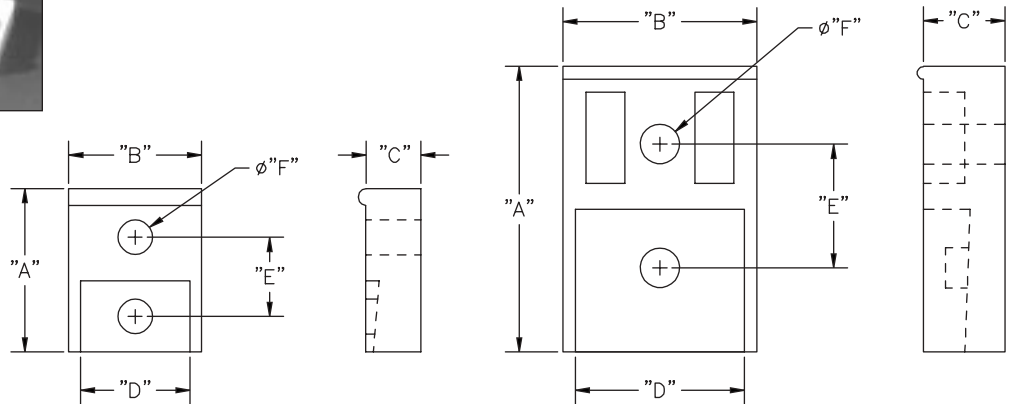
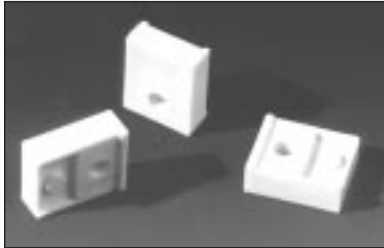
Features

- Insulates pins and mounting screws

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

HTRTC

High Temperature Richco
Transistor Cover



ONLY FOR RTC-3

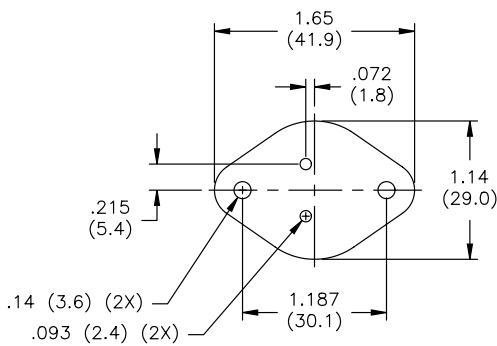
Features

- Separates the mounting screw from the transistor
- Maximum recommended operating temperature 266°F (130°C)

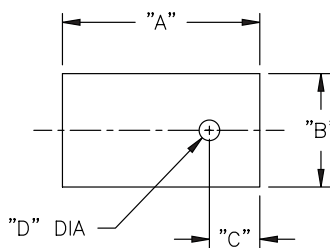
Material: Flame Retardant P.B.T, RMS-110 • Color: White								
Part No.	"A"	"B"	"C"	"D"	"E"	"F"	Transistor Case Style	Package Quantity
HTRTC-1	.63 (16.0)	.51 (13.0)	.21 (5.4)	.42 (10.7)	.32 (8.0)	.14 (3.5)	TO-220	1000
HTRTC-1A	.76 (19.3)				.39 (10.0)	.14 (3.6)		
HTRTC-1C	.70 (17.8)	.71 (18.0)	.22 (5.5)	.65 (16.4)	.37 (9.3)	.14 (3.5)	TO-218	200
HTRTC-2	.75 (19.0)				.41 (10.5)			
HTRTC-3	1.10 (28.0)	.75 (19.0)	.32 (8.0)	.65 (16.5)	.50 (12.8)	.15 (3.9)	TO-3P	

TO Series

Transistor Insulator Pad



TO-3-05



TO-220-68 & TO-218-70

Features

- Offers low resistance to heat transfer while providing electrical isolation between power device and metal parts
- Non-toxic and resists damage from cleaning solvents
- For use with Richco Part Nos. IEC-TO-220, IEC-TO-220V-18, IEC-TO-218 and IEC-TO3
- No grease required for installation and resists crack or fracture

Material: Silicone rubber and fiberglass composite, RMS-33
Color: Gray .007 Thick
Standard Pack: 500 per Bag

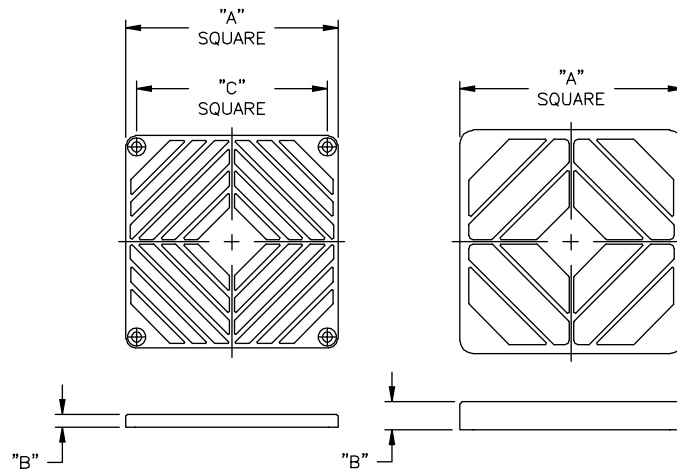
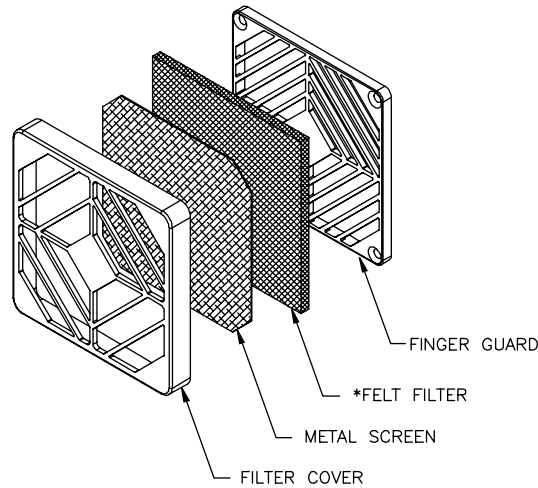
Material: Silicone rubber and fiberglass composite, RMS-33 Color: Gray .007 Thick				
Part No.	Standard Pack: 500 per Bag			
	"A"	"B"	"C"	"D"
TO-220-68	1.13 (28.7)	.63 (16.0)	.20 (5.1)	.145 (3.7)
TO-218-70	1.41 (35.8)	.81 (20.6)	.36 (9.1)	.147 (3.7)

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

Fan Filters

Specially designed for axial fan-cooled equipment, the Filters and Guards provide a variety of options to satisfy all requirements. A screw-on finger guard is available as a single item and is made from ABS plastic that effectively protects fingers from fans. If the fan is to operate in moderately dusty areas, then a disposable felt filter with a plastic cover can simply be clipped on to the finger guards. In addition, a metallic filter is available to provide EMI & RFI protection. Both filters are held in position with a clip-on cover.

The felt filters are highly efficient yet reduce the airflow by only 15-20%.



Finger Guard

Filter Cover

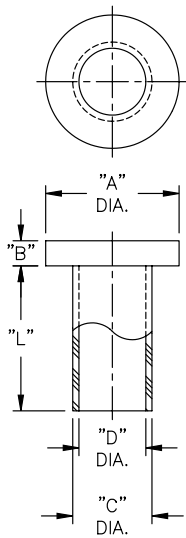
Filter Set		Finger Guard				Filter Covers are not Supplied Separately. Part No. is for Reference Only		
Part No.	Part No.	Finger Guard Part No.	"A"	"B"	"C"	Filter Cover Part No.	"A"	"B"
RCP-060-NV	RCPF-060-NV	RFG-060-NV	2.36 (60.0)	.24 (6.0)	1.97 (50.0)	RFC-060-NV	2.52 (64.0)	.48 (12.2)
RCP-080-NV	RCPF-080-NV	RFG-080-NV	3.19 (81.0)	.22 (5.5)	2.81 (71.4)	RFC-080-NV	3.28 (86.0)	
RCP-092-NV	RCPF-092-NV	RFG-092-NV	3.62 (92.0)		3.25 (82.5)	RFC-092-NV	3.82 (97.0)	
RCP-120-NV	RCPF-120-NV	RFG-120-NV	4.76 (121.0)	.26 (6.5)	4.13 (105.0)	RFC-120-NV	4.96 (126.0)	

Material: ABS, Rated UL94 V-0 • Color: Black *Felt Filter Material: Polyester and Polypropylene • Color: White

Items	60 x 60 NV	80 x 80 NV	92 x 92 NV	120 x 120 NV
Finger Guard Only	RFG-060-NV (60 Per Box)	RFG-080-NV (30 per Box)	RFG-092-NV (30 per Box)	RFG-120-NV (30 per Box)
Finger Guard, Filter Cover, Metal Screen and Felt Filter	RCP-060-NV (20 per Box)	RCP-080-NV (10 per Box)	RCP-092-NV (10 per Box)	RCP-120-NV (10 per Box)
Finger Guard, Filter Cover, and Felt Filter	RCPF-060-NV (20 per Box)	RCPF-080-NV (10 per Box)	RCPF-092-NV (10 per Box)	RCPF-120-NV (10 per Box)
Felt Filter	RFF-060-NV (100 per Box)	RFF-080-NV (100 per Box)	RFF-092-NV (100 per Box)	RFF-120-NV (50 per Box)
Metal Screen	RMS-060-NV (500 per Box)	RMS-080-NV (400 per Box)	RMS-092-NV (400 per Box)	RMS-120-NV (250 per Box)

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

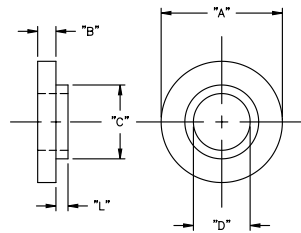
MNI Molded Nylon Insulator



Material: Nylon 6/6, RMS-48 • Color: Natural; also available in black by special order
Standard Pack: 1000 per bag

Part No.	Screw Size	Approx Metric Equiv.	"L" ± .007 (0.18)	"A" ± .007 (0.18)	"B" ± .007 (0.18)	"C" ± .005 (0.13)	"D" ± .005 (0.13)				
MNI #2-2	#2	M2.2	.031 (0.8)	.181 (4.6)		.120 (3.0)	.090 (2.3)				
MNI #2-4			.063 (1.6)								
MNI #2-6			.093 (2.4)								
MNI #2-8			.125 (3.2)								
MNI #2-12			.187 (4.7)								
MNI #2-16			.250 (6.4)								
MNI #2-24	.375 (9.5)										
MNI #4-2	#4	M3	.031 (0.8)	.235 (6.0)	.047 (1.2)	.145 (3.7)	.115 (2.9)				
MNI #4-3			.046 (1.2)								
MNI #4-4			.063 (1.6)								
MNI #4-5			.084 (2.1)								
MNI #4-6			.093 (2.4)								
MNI #4-8			.125 (3.2)								
MNI #4-10			.156 (4.0)								
MNI #4-12			.187 (4.7)								
MNI #4-16			.250 (6.4)								
MNI #4-24			.375 (9.5)								
MNI #5-3			#5	M3.5		.050 (1.3)		.290 (7.4)		.170 (4.3)	.140 (3.6)
MNI #6-2						.031 (0.8)					
MNI #6-4	.063 (1.6)										
MNI #6-6	.093 (2.4)										
MNI #6-8	.125 (3.2)										
MNI #6-12	.187 (4.7)										
MNI #6-16	.250 (6.4)										
MNI #6-24	.375 (9.5)										
MNI #6-32	.500 (12.7)										
MNI #8-2	#8	M4	.031 (0.8)	.344 (8.7)	.063 (1.6)	.205 (5.2)	.173 (4.4)				
MNI #8-4			.063 (1.6)								
MNI #8-6			.093 (2.4)								
MNI #8-8			.125 (3.2)								
MNI #8-12			.187 (4.7)								
MNI #8-16			.250 (6.4)								
MNI #8-24			.375 (9.5)								
MNI #8-32			.500 (12.7)								
MNI #10-2			#10	M5		.031 (0.8)		.399 (10.1)		.260 (6.6)	.200 (5.1)
MNI #10-4						.063 (1.6)					
MNI #10-6						.093 (2.4)					
MNI #10-8						.125 (3.2)					
MNI #10-12	.187 (4.7)										
MNI #10-16	.250 (6.4)										
MNI #10-24	.375 (9.5)										
MNI #10-32	.500 (12.7)										
MNI M3-1.0	—	M3			.039 (1.0)	.280 (7.1)	.039 (1.0)	.150 (3.8)		.122 (3.1)	
MNI M3-2.5		.098 (2.5)									
MNI M3-3.5	—	M4			.137 (3.5)	.370 (9.4)	.047 (1.2)	.236 (6.0)		.165 (4.2)	
MNI M4-1.3		.050 (1.3)									
MNI 1/4-2	1/4	M6	.031 (0.8)	.513 (13.0)	.065 (1.7)	.312 (7.9)	.260 (6.6)				
MNI 1/4-4			.063 (1.6)								
MNI 1/4-6			.093 (2.4)								
MNI 1/4-8			.125 (3.2)								
MNI 1/4-12			.187 (4.7)								
MNI 1/4-16			.250 (6.4)								
MNI 1/4-24			.375 (9.5)								
MNI 1/4-32			.500 (12.7)								
MNI 5/16-2			5/16	M8		.031 (0.8)		.620 (15.7)	.063 (1.6)	.360 (9.1)	.320 (8.1)
MNI 5/16-4						.063 (1.6)					
MNI 5/16-6						.093 (2.4)					
MNI 5/16-8						.125 (3.2)					
MNI 5/16-12	.187 (4.7)										
MNI 5/16-16	.250 (6.4)										
MNI 5/16-24	.375 (9.5)										

MNI-HT Series Molded Insulator, High Temperature



Features

- Ideal for high temperature applications, i.e., potting and soldering

Material: 40 % glass filled Polyphenylene Sulfide, RMS-50 • Color: Black
Standard Pack: 1000 per bag

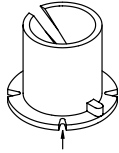
Part No	Screw Size	Approx Metric Equiv.	"L" ± .010 (0.3)	"A" ± .010 (0.3)	"B" ± .010 (0.3)	"C" ± .005 (0.1)	"D" ± .005 (0.1)
MNI-HT#4-2	#4	M3	.031 (0.8)	.280 (7.1)	.047 (1.2)	.150 (3.8)	.118 (3.0)
MNI-HT#4-8			.125 (3.2)				
MNI-HT#4-12			.185 (4.7)				
MNI-HT#4-220*			.032 (0.8)				
MNI-HT#6-2	#6	M3.5	.031 (0.8)	.312 (7.9)	.047 (1.2)	.190 (4.8)	.146 (3.7)
MNI-HT#10-6	#10	M4.5	.093 (2.4)	.399 (10.1)	.063 (1.6)	.260 (6.6)	.200 (5.1)

*Design allows insertion in the tab of a TO-220 transistor.

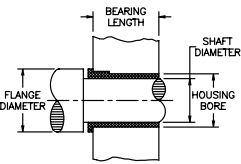
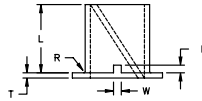
GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

R

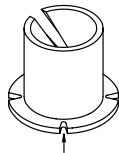
**Snap In Bearing / Flanged Sleeve Bearing
MODEL A - with Positioning Key**



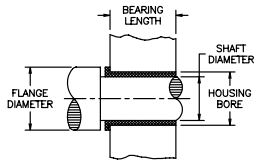
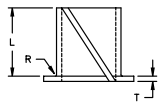
SLOTS ON FLANGE APPEAR ON PART NO. R10L5.5-A THROUGH R16L16-A ONLY



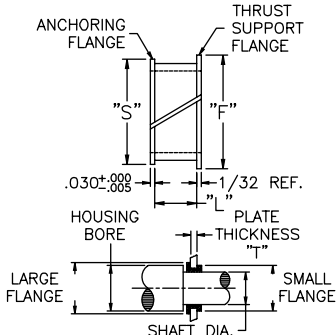
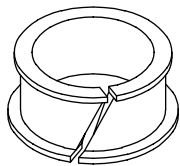
MODEL B



SLOTS ON FLANGE APPEAR ON PART NO. R10L5.5-B THROUGH R16L16-B ONLY



MODEL C



Material: Nylon 6/6, RMS-48 • Color: White

Part No.	Nominal BRG. I.D.	Bearing I.D.		Maximum Shaft Diameter	Housing Bore ±.0005	Bearing Length "L" +0, -1/64	Radius "R" Max.	Flange		Key		Std. Pack								
		I.D.	Tolerance -.000					Dia. ± 1/64	"T" +.000, -.005	"W" +0, -.010	"l" +0, -1/64									
R3L3-A	3/16	.189	+0.001	3/16	.235	3/16	.010	5/16	.025	1/16	1/16	1000								
R4L4-A	1/4	.251		1/4	.297	1/4		13/32												
R5L5-A	5/16	.314		5/16	3/8	7/16		5/16					1/2							
R5L7-A				7/16				7/16												
R5L10-A				1				1												
R6L6-A	3/8	.376		3/8	7/16	11/16		19/32					.030	3/32	3/32	500				
R6L11-A	7/16	.439		7/16	1/2	7/16		21/32												
R7L7-A				1/2	7/32	11/32														
R8L3.5-A	1/2	.501		+0.002	5/8	11/16		1/2									3/4	.030	1/8	1/8
R8L5.5-A								23/32												
R8L8-A			1/2				7/16													
R8L12-A	5/8	.626	+0.003	5/8	11/16	7/8	15/16	.030	1/8	1/8										
R10L5.5-A						11/32														
R10L7-A						7/16														
R10L10-A						5/8														
R10L14-A						7/8														
R10L18-A	1-1/8	+0.001	3/4	13/16	1-1/8	1-1/8	1-1/8													
R12L12-A	3/4																			
R12L18-A	1-1/8																			
R14L7.5-A	7/8	.876	+0.0015	7/8	15/16	15/32	1-5/16	.045	5/32	5/32										
R14L14-A						7/8														
R16L16-A	1	1.002	+0.0015	1	1.094	1	.020	1-1/2	.045	5/32	5/32									

Material: Nylon 6/6, RMS-48 • Color: White

Standard Pack: 1000 per Bag

Part No.	Nominal BRG. I.D.	Bearing I.D.		Maximum Shaft Diameter	Housing Bore ±.0005	Bearing Length "L" +0, -1/64	Radius "R" Max.	Flange					
		I.D.	Tolerance -.000					Dia. ± 1/64	"T" +.000, -.005				
R3L3-B	3/16	.189	+0.001	3/16	.235	3/16	.010	5/16	.025				
R4L4-B	1/4	.251		1/4	.297	1/4		13/32					
R5L5-B	5/16	.314		5/16	3/8	7/16		5/16		1/2			
R5L7-B				7/16				7/16					
R5L10-B				1				1					
R6L6-B	3/8	.376		3/8	7/16	11/16		19/32		.030	3/4		
R6L11-B	7/16	.439		7/16	1/2	7/16		21/32					
R7L7-B				1/2	7/32	11/32							
R8L3.5-B	1/2	.501		+0.003	5/8	11/16		1/2				15/16	.030
R8L5.5-B								11/32					
R8L8-B			1/2				7/16						
R10L5.5-B	5/8	.626	+0.001	5/8	11/16	7/8	15/16	.030					
R10L7-B						7/16							
R10L10-B						5/8							
R10L14-B						7/8							
R10L18-B						1-1/8							
R12L12-B	3/4	.751	+0.001	3/4	13/16	3/4	1-1/8	.030					
R12L18-B						1-1/8							
R14L7.5-B	7/8	.876	+0.0015	7/8	15/16	15/32	1-5/16	.045					
R14L14-B						7/8							
R16L16-B	1	1.002	+0.0015	1	1.094	1	.020	1-1/2	.045				

Material: Nylon 6/6, RMS-48 • Color: White

Standard Pack: 1000 per Bag

Part No.	Maximum Shaft Dia.	Minimum* Housing Bore	Bearing I.D.** +.003 -.000	Flange Diameter ±1/64		Bearing Length "L" +1/64, -.0	Recommended Plate Thickness "T"
				"F"	"S"		
R2L1-C	1/8	.172	.126	1/4	3/16	.078	.040 - .075
R2L2-C							
R3L1-C	3/16	.234	.189	5/16	1/4	.078	.040 - .075
R3L2-C							
R4L1-C	1/4	5/16	.251	7/16	11/32	.078	.040 - .075
R4L2-C							
R5L1-C	5/16	3/8	.314	1/2	13/32	.078	.040 - .075
R5L2-C							
R6L1-C	3/8	7/16	.376	9/16	15/32	.078	.040 - .075
R6L2-C							
R7L1-C	7/16	1/2	.439	5/8	17/32	.078	.040 - .075
R7L2-C							
R8L1-C	1/2	9/16	.501	11/16	19/32	.078	.040 - .075
R8L2-C							
R10L1-C	5/8	11/16	.626	7/8	23/32	.078	.040 - .075
R10L2-C							
R12L1-C	3/4	13/16	.751	1	27/32	.078	.040 - .075
R12L2-C							

* The minimum clearance for Model C snap-in bearings is .001". However, snap in bearings can be used with shaft diameters a few thousandths larger or smaller than shown if housing bore is varied a corresponding amount
 ** When installed in Housing Bore diameter shown

GROMMETS & BUSHINGS/LED SPACERS & INSULATORS

R (cont.)

Snap In Bearing / Flanged Sleeve Bearing

Installation

Bearings should always be installed in a housing bore that provides good support for the bearing.

Models A and B

When operated continuously without lubrication at the maximum permissible speed of 500 rpm, should have hardened or plated shafts in the bearing area to minimize shaft wear.

Unhardened stainless steel shafts are not recommended. Use chromium plated or nickel plated shafts where corrosion is a problem.

Correct Clearances

Housing bore diameters should not be smaller than the minimum diameters specified in tables presented in this catalog. To check bearing I.D.'s for clearance, the bearing should be installed in its housing bore. Plug gauges with diameters corresponding to the minimum and maximum recommended I.D.'s can be used to determine whether the clearance is correct for the bearing when operated on recommended shaft.

When bearings must operate in liquids, the wall thickness of the bearing will increase due to absorption of liquid. Wall thicknesses also increase when bearings are used in a consistently humid environment.

Model C

The compensation gap allows for the bearing to be collapsed sufficiently so that the small flange can be easily spiraled through the mounting hole. Position the bearing over the hole with the gap facing up. With light finger pressure immediately to the left of the compensation gap, the bearing is spiraled into position.

Bearings perform effectively in temperature ratings from -40°F to +200°F. Bearing load ratings to 8,000 PSI and speed ratings up to 2,000 feet per minute insure durability.

Features

- Extremely effective in damping out noise and vibration
- Bearings do not require lubrication after break-in
- Axial slot helps maintain proper fit and compensates for humidity and temperature changes

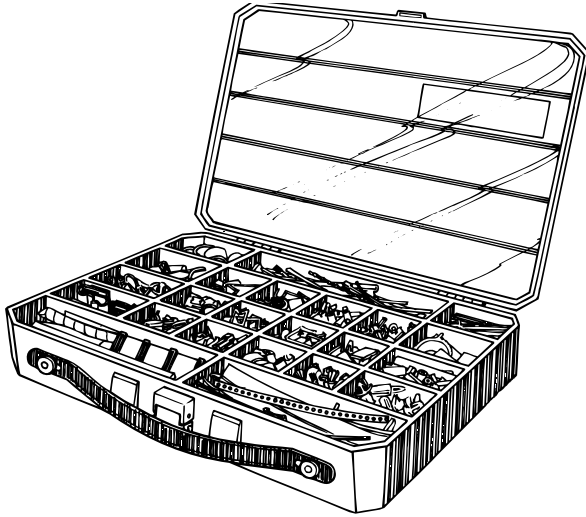
MODELS C: LOAD RATINGS

Radial Load Capacity in Pounds of various RPM (Non-Lubricated)						
Bearing No. Model C	Nominal Brg. I.D.	Static	10 RPM	50 RPM	100 RPM	250 RPM
R2L1-C	1/8	15	4	3	2	1
R2L2-C		28	8	6	4	3
R3L1-C	3/16	24	4	4	3	2
R3L2-C		48	9	8	6	4
R4L1-C	1/4	32	5	5	4	2
R4L2-C		64	11	10	6	4
R5L1-C	5/16	40	8	6	4	2
R5L2-C		80	16	12	8	4
R6L1-C	3/8	48	9	7	5	2
R6L2-C		96	19	15	10	4
R7L1-C	7/16	56	12	9	5	2
R7L2-C		112	24	18	10	4
R8L1-C	1/2	68	13	10	5	2
R8L2-C		135	27	20	10	4
R10L1-C	5/8	83	16	12	6	2.5
R10L2-C		175	32	25	12	5
R12L1-C	3/4	100	20	14	6	2.5
R12L2-C		200	40	28	12	5

Radial Load Capacity in Pounds																
Bearing Number		10 RPM		25 RPM		50 RPM		100 RPM		250 RPM		500 RPM		1000 RPM	2000 RPM	Static Load
Model A	Model B	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Dry	Oil Lube	Oil Lube	
R3L3-A	R3L3-B	37	12.5	35	11.5	34	11	32	8	30	5	24	3	14	7.5	70
R4L4-A	R4L4-B	68	22	66	19	64	16	62	12	55	6	39	3.5	19	11	127
R5L5-A	R5L5-B	107	36	102	32	100	28	99	20	78	9	46	4	26	14	202
R7L7-A	R7L7-B	157	53	150	47	147	41	145	29	115	13	68	6	38	20	287
R5L10-A	R5L10-B	210	70	204	64	200	56	198	40	156	18	92	8	52	28	404
R6L6-A	R6L6-B	155	52	153	48	147	40	135	28	86	10	57	5	28	17	292
R6L11-A	R6L11-B	296	100	294	92	280	77	258	54	195	20	108	10	56	33	557
R5L7-A	R5L7-B	210	72	204	66	200	55	181	33	130	12	70	6	39	—	400
R8L3.5-A	R8L3.5-B	125	43	123	38	119	33	107	17	72	7	37	3	21	—	218
R8L5.5-A	R8L5.5-B	204	66	190	59	185	50	166	25	112	11	58	4	33	—	355
R8L8-A	R8L8-B	290	95	270	84	262	72	236	37	158	16	82	7	47	—	525
R8L12-A	—	430	141	403	125	390	107	350	54	237	24	122	10	70	—	800
R10L5.5-A	R10L5.5-B	240	81	220	65	215	57	202	26	105	10	61	4	33	—	445
R10L7-A	R10L7-B	306	103	286	82	272	73	256	33	132	13	78	5	42	—	580
R10L10-A	R10L10-B	437	148	410	119	390	105	367	48	190	19	112	7	61	—	830
R10L14-A	R10L14-B	630	213	590	172	560	151	530	68	276	26	161	10	88	—	1170
R10L18-A	R10L18-B	490	166	460	134	440	118	412	54	214	21	126	8	68	—	930
R12L12-A	R12L12-B	640	220	610	177	563	140	470	58	236	21	135	8	70	—	1195
R12L18-A	R12L18-B	720	248	680	198	630	157	528	65	265	23	152	9	78	—	1345
R14L7.5-A	R14L7.5-B	465	155	440	123	405	86	328	35	155	13	90	5	—	—	870
R14L14-A	R14L14-B	875	290	825	231	760	161	615	66	290	23	169	8	—	—	1630
R16L16-A	R16L16-B	1110	367	1070	300	980	195	740	78	340	29	192	11	—	—	2140

EDK-1000

Engineer's Design Kit



Features

- An assortment of over 750 pieces of plastic fastening and assembly hardware. Includes circuit board hardware, spacers, rivets, wire routers, wire ties, clips, clamps and more for designing, prototyping and testing parts in application.

WRK-1000

Wire Routing Kit



Features

- An assortment of wire routing pieces from the Wire Routing Clips and Clamps section of the catalog. Includes clips, clamps, saddles, twist locks and more.



FOEDK-1

Fiber Optic Engineering Design Kit



Features

- An assortment of fiber optic industry related product from various sections of the catalog. Includes the Miniflex and Europlus line of fiber optic routing and protection products



CUSTOM EXTRUSION CAPABILITIES

The Richco Advantage...

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> • Knowledgeable Sales People • Engineering/Design Support • In-House Tooling | <ul style="list-style-type: none"> • State-of-the Art Production Methods • Extensive Secondary Operations | <ul style="list-style-type: none"> • Competitive Pricing • On-Time Delivery • Committed to Quality |
|--|---|---|

Custom Extrusion

Richco, a full service single source extrusion company, serving the industry since 1954. We can take your project from concept through product design, die development, production and secondary operations such as fabrication and packaging.

Our wide range of modern equipment allows us to produce profiles up to 21" in width and tubes up to 8" in diameter.

We can extrude almost any thermo plastic material plus having co-extrusion profile capability.

Our leadership in the custom extrusion business is recognized worldwide.



Engineering Support

Our Engineering staff is available to assist in the selection of materials and partial or total design qualifications as required. Using the latest CAD/CAM technology, our staff is qualified to complete your design in a matter of a few hours depending on the complexity of the project.

In-House Tooling

Skilled, in-house tool makers utilize our state-of-the-art EDM equipment to precision craft hundreds of dies and specialty tooling for secondary operations. This gives our clients that quick turnaround they're looking for without cutting into precious lead time.

Markets

Our wide range of capabilities and materials used enables Richco to service many market segments.

- Electronics
- Point of Purchase/Display
- Appliance
- Automotive
- Agricultural
- Construction
- ...and many others

Materials

- | | |
|---|---|
| <ul style="list-style-type: none"> • A.B.S. • Acrylic • Noryl • Nylon • PETG • Polycarbonate • Polyethelene • Polypropylene | <ul style="list-style-type: none"> • Polystyrene • Polyurethane • Propionate • Surlyn • Thermoplastic Rubber • Ultem • Valox • Vinyl (Rigid and Flexible) |
|---|---|

Secondary Operations

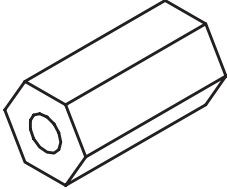
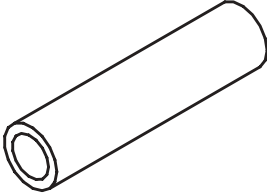
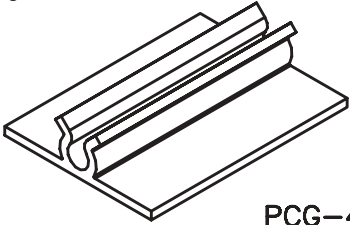
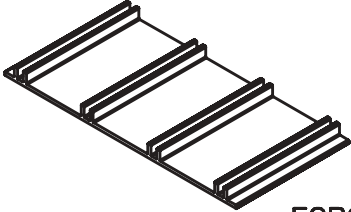
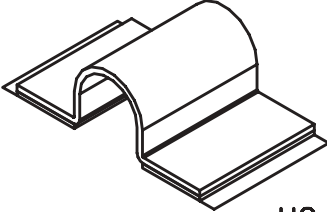
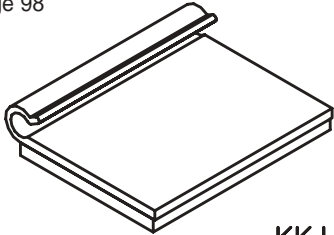
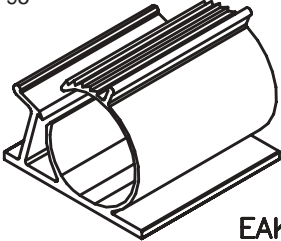
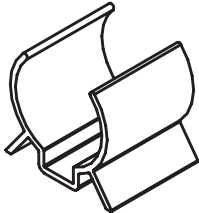
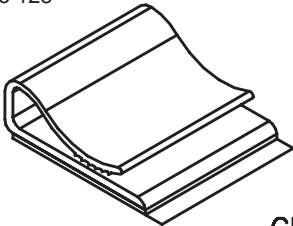
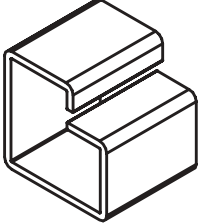
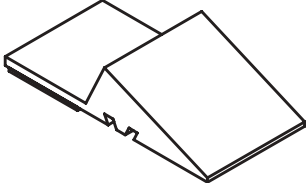
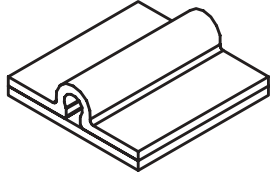
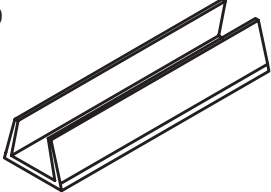
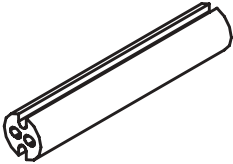
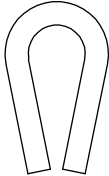
(Performed both in and off line)

- Customized Cutting
- Notching
- Drilling
- Punching
- In-Line Taping
- Mitering
- Specialty Packaging
- Printing

Call us today for an answer to all of your extrusion needs...

773-539-4060

STANDARD EXTRUDED PRODUCTS

<p>page 32</p>  <p>HS</p>	<p>page 33</p>  <p>R900</p>	<p>page 48</p>  <p>PCG-4</p>
<p>page 48</p>  <p>ECBG</p>	<p>page 99</p>  <p>UC</p>	<p>page 98</p>  <p>KKJ</p>
<p>page 95</p>  <p>EAKKL</p>	<p>page 94</p>  <p>V-SERIES</p>	<p>page 128</p>  <p>CFCC</p>
<p>page 147</p>  <p>OFCC</p>	<p>page 155</p>  <p>YW</p>	<p>page 88</p>  <p>THA</p>
<p>page 159</p>  <p>NGS</p>	<p>page 168</p>  <p>LEDS</p>	<p>page 160</p>  <p>DSC</p>

The above products are offered in standard cut length in our catalog. These and all other extruded profiles can be purchased in almost any specified lengths by special order. Please contact our engineering department for assistance.

CONVERSION CHARTS

inches		mm
1/64	0.015625	0.396875
1/32	0.03125	0.79375
3/64	0.046875	1.190625
1/16	0.0625	1.5875
5/64	0.078125	1.984375
3/32	0.09375	2.38125
7/64	0.109375	2.77812
1/8	0.125	3.175
9/64	0.140625	3.571875
5/32	0.15625	3.96875
11/64	0.171875	4.365625
3/16	0.1875	4.7625
13/64	0.203125	5.159375
7/32	0.21875	5.55625
15/64	0.234375	5.953125
1/4	0.25	6.35
17/64	0.265625	6.746875
9/32	0.281250	7.14375
19/64	0.286875	7.540625
5/16	0.312500	7.9375
21/64	0.328125	8.334375
11/32	0.34375	8.73125
23/64	0.359375	9.128125
3/8	0.375	9.525
25/64	0.390625	9.921875
13/32	0.40625	10.31875
27/64	0.421875	10.715625
7/16	0.4375	11.1125
29/64	0.453125	11.509375
15/32	0.46875	11.90625
31/64	0.484375	12.303125
1/2	0.5	12.7

inches		mm
33/64	0.515625	13.096875
17/32	0.53125	13.49375
35/64	0.546875	13.890625
9/16	0.5625	14.2875
37/64	0.578125	14.684375
19/32	0.59375	15.08125
39/64	0.609375	15.478125
5/8	0.625	15.875
41/64	0.640625	16.271875
21/32	0.65625	16.66875
43/64	0.671875	17.065625
11/16	0.6875	17.4625
45/64	0.703125	17.859375
23/32	0.71875	18.25625
47/64	0.734375	18.653125
3/4	0.75	19.05
49/64	0.765625	19.446875
25/32	0.78125	19.84375
51/64	0.796875	20.240625
13/16	0.8125	20.6375
53/64	0.828125	21.034375
27/32	0.84375	21.43125
55/64	0.859375	21.828125
7/8	0.875	22.225
57/64	0.890625	22.621875
29/32	0.90625	23.01875
59/64	0.921875	23.415625
15/16	0.9375	23.8125
61/64	0.953125	24.209375
31/32	0.96875	24.60625
63/64	0.984375	25.003125
1	1.00	25.4

in.	mm	in.	mm
0.001	0.0254	0.01	0.254
0.002	0.0508	0.02	0.508
0.003	0.0762	0.03	0.762
0.004	0.1016	0.04	1.016
0.005	0.1270	0.05	1.270
0.006	0.1524	0.06	1.524
0.007	0.1778	0.07	1.778
0.008	0.2032	0.08	2.032
0.009	0.2286	0.09	2.286

in.	mm
0.1	2.54
0.2	5.08
0.3	7.62
0.4	10.16
0.5	12.70
0.6	15.24
0.7	17.78
0.8	20.32
0.9	22.86

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-50	-58	50	122	150	302	250	482	350	662	450	842
-45	-49	55	131	155	311	255	491	355	671	455	851
-40	-40	60	140	160	320	260	500	360	680	460	860
-35	-31	65	149	165	329	265	509	365	689	465	869
-30	-22	70	158	170	338	270	518	370	698	470	878
-25	-13	75	167	175	347	275	527	375	707	475	887
-20	-4	80	176	180	356	280	536	380	716	480	896
-15	5	85	185	185	365	285	545	385	725	485	905
-10	14	90	194	190	374	290	554	390	734	490	914
-5	23	95	203	195	383	295	563	395	743	495	923
0	32	100	212	200	392	300	572	400	752	500	932
5	41	105	221	205	401	305	581	405	761	505	941
10	50	110	230	210	410	310	590	410	770	510	950
15	59	115	239	215	419	315	599	415	779	515	959
20	68	120	248	220	428	320	608	420	788	520	968
25	77	125	257	225	437	325	617	425	797	525	977
30	86	130	266	230	446	330	626	430	806	530	986
35	95	135	275	235	455	335	635	435	815	535	995
40	104	140	284	240	464	340	644	440	824	540	1004
45	113	145	293	245	473	345	653	445	833	545	1013

RMS SPECIFICATIONS

RMS #: 01 03 04 05 06 07 08 09 10 11 12 13

		TEST METHOD	UNITS	NYLON 66 2.3% MOIST.	PC	PVC	PPO	LDPE	HDPE FLAME RET.	PP	ABS	PP	CPVC	CAp	HDPE
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	8500	9000	6200	9200	1450	2300	4900	7100	4300	6500	3190	3180
	ELONGATION AT BREAK	ASTM D 638	%	160	130	N.R.	25	600	600	>100	3.1*	12*	N.R.	30	N.R.
	FLEXURAL MODULUS	ASTM D 790	psi	160,000	340,000	380,000	370,000	27,000	74,000	200,000	341,000	160,000	335,000	N.R.	N.R.
	IZOD IMPACT	ASTM D 256	ft lb/in	6.3	15	17	3.5	NO BREAK	1	N.R.	5.7	1.6	5.4	9.2	N.R.
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	430	280	N.R.	N.R.	111	130	220	201	181	N.R.	N.R.	147
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	160	270	163	254	N.R.	115	N.R.	178	N.R.	217	162	N.R.
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	540	380	690	500	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.
	UL YELLOW CARD FILE #			E190851	E45587	E41877	E121562	N.R.	E41877	E63499	E41871	E118847	E106426	E146408	N.R.
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-2 .028 25	HB .028 N.R.	V-0 .028 N.R.	V-1 .058 29	N.R. N.R. N.R.	V-2 .059 N.R.	HB .059 N.R.	HB .059 N.R.	HB .059 N.R.	V-0 .040 N.R.	HB .059 N.R.	N.R. N.R. N.R.
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in °C in	75 85 .028	80 80 .028	50 50 .028	105 110 .030	N.R. N.R.	50 50 .059	65 65 .059	60 60 .059	65 65 .059	50 50 .040	50 50 .059	N.R. N.R.

RMS #: 14 15 16 17 18 19 20 21 23 25 26 28

		TEST METHOD	UNITS	POM	ADHESIVE	HIPS	NYLON 66 HMW	NYLON 66 33% G.F.	NYLON 66 FLAME RET.	PVC	NYLON 66/6	PC FLAME RET.	FLEXIBLE PVC (1)	FLEXIBLE PVC (1)	NYLON 6 50% RH
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	8800	DOUBLE COATED URETHANE FOAM TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	2900	11200	18000	5500	6500	6600	9000	725 -2900	2725	6960
	ELONGATION AT BREAK	ASTM D 638	%	N.R.		70	>300	4	75	N.R.	128	90	250 -450	290	200
	FLEXURAL MODULUS	ASTM D 790	psi	375,000		300,000	175,000	900,000	200,000	400,000	340,000	325,000	N.R.	N.R.	159,500
	IZOD IMPACT	ASTM D 256	ft lb/in	1.3		2.1	2.5	2.5	1.7	2.0	N.R.	12	N.R.	N.R.	6.4
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	N.R.		N.R.	410	500	400	N.R.	N.R.	280	N.R.	N.R.	347
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	230		183	149	480	71	162	N.R.	270	N.R.	N.R.	149
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.		N.R.	N.R.	530**	620**	N.R.	N.R.	425	N.R.	N.R.	N.R.
	UL YELLOW CARD FILE #			E38860		E55453	E41938	E41938	E209371	E53006	E41938	E121562	N.R.	E54709	E47924
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	HB .059 N.R.		HB .059 N.R.	HB .028 N.R.	HB .028 N.R.	V-0 .017 N.R.	V-0 .025 N.R.	HB .032 N.R.	V-0 .043 35	N.R. N.R. N.R.	V-0 .051 28.9	V-2 .028 N.R.
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in °C in	90 90 .059		50 50 .059	65 65 .028	125 140 .028	65 65 .017	50 50 .025	65 65 .032	80 80 .043	N.R. N.R.	N.R. N.R.	90 90 .039

(1)-These materials are tested based on different testing standards from those in this chart.
 *-At Yield.
 **-Short Time.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS SPECIFICATIONS

RMS #: 30 32 33 34 35 37 38 39 40 42 43 45

		TEST METHOD	UNITS	EVA	PVC	SILICONE RUBBER GLS, REINF.	ADHESIVE	NYLON 66 GLS, REINF. 50% R.H.	NYLON 66 50% R.H.	NYLON 66(1) GLS, REINF.	LOW VISC. ACETAL	NYLON 66 50% R.H.	TPR	NYLON 66(1) FLAME RET.	NYLON 66 50% R.H.					
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	1740 ⁽²⁾	6600	N.R.	DOUBLE COATED POLYETHYLENE TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	8600	8700	26800 ⁽²⁾	10000	8500	1640 ⁽²⁾	13100	7500					
	ELONGATION AT BREAK	ASTM D 638	%	800	N.R.	N.R.		14	>50	5	30	>300	520	9	270					
	FLEXURAL MODULUS	ASTM D 790	psi	N.R.	N.R.	N.R.		290,000	203,000	N.R.	470,000	175,000	N.R.	N.R.	160,000					
	IZOD IMPACT	ASTM D 256	ft lb/in	N.R.	18	N.R.		4	1	5.2 ⁽³⁾	1.3	2.1	N.R.	1.9 ⁽³⁾	4.5					
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	N.R.	N.R.	N.R.		N.R.	>400	401	334	410	N.R.	437	440					
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	N.R.	N.R.	N.R.		N.R.	175	221	242	149	N.R.	167	167					
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.	N.R.	N.R.		N.R.	762	1020	420	360	N.R.	787	N.R.					
	UL YELLOW CARD FILE #			E67827	N.R.	E59150		E41938	E41613	E79900	E66288	E41938	E80017	E79900	E41938					
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-2 N.R.	N.R. N.R.	N.R. N.R.		HB .005 N.R.	V-2 .032 N.R.	HB .030 N.R.	HB .030 N.R.	V-2 .028 N.R.	HB .039 N.R.	V-0 .030 N.R.	HB .032 N.R.					
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in °C	50 50	.059 N.R.	N.R. N.R.		150 150	.005 N.R.	65 65	.059 .032	95 140	.030 .030	50 50	.030 .028	75 85	.028 .039	105 120	.030 .030	75 85

RMS #: 46 47 48 49 50 51 52 53 54 55 56 57

		TEST METHOD	UNITS	NYLON 66 D.A.M.	NYLON 66 HEAT STAB. D.A.M.	NYLON 66 COND.	NYLON 66 2-3% MOIST.	PBS GLS, REINF.	PSU	NYLON 6 50% R.H.(1)	PBT	PP	SOFT PVC (1)	NYLON 4/6 (1)	PE (1)					
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	12000	12000	8700	9000	23000	10200	6500	7000	3000	2400	7980	4000					
	ELONGATION AT BREAK	ASTM D 638	%	20	55	N.R.	200	1.1	50-100	20	110	13	340	200	>300					
	FLEXURAL MODULUS	ASTM D 790	psi	410,000	410,000	N.R.	190,000	2,100,000	390,000	435,000	300,000	105,000	N.R.	435,100	174,000					
	IZOD IMPACT	ASTM D 256	ft lb/in	0.9	1.0	2.0	3.0	1.6	1.3	N.R.	10	N.R.	N.R.	6.0	N.R.					
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	225	410	428	430	N.R.	N.R.	356	280	158	N.R.	N.R.	N.R.					
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	70	149	N.R.	160	>500	345	149	210	N.R.	N.R.	320	N.R.					
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.	N.R.	N.R.	550	450	N.R.	N.R.	640	N.R.	279	N.R.	N.R.					
	UL YELLOW CARD FILE #			E41938	E41938	E41871	N.R.	E54700	E36098	E41871	E101788	E118847	E137220	E119177	N.R.					
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-2 N.R.	V-2 N.R.	V-2 N.R.	V-2 30	V-0 N.R.	V-1 N.R.	V-2 N.R.	V-0 N.R.	HB N.R.	V-0 N.R.	V-2 N.R.	N.R. N.R.					
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in °C	65 65	.028 115	95 80	.028 80	N.R. N.R.	130 130	.015 .015	140 160	.020 .020	75 75	.059 .018	65 65	.059 .030	50 50	.030 .030	115 120	.030 .030

- (1)-These materials are tested based on different testing standards from those in this chart.
 (2)-At Break.
 (3)-Charpy Notched at Room Temp.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS SPECIFICATIONS

RMS #: 58 60 62 64 65 66 67 68 70 71 72 73

		TEST METHOD	UNITS	NYLON 6	NYLON 6 50% R-H.	NYLON 6	PU	ADHESIVE	NYLON 66	TFR	ADHESIVE	PVC	NYLON 6 50% R-H.	PC	NYLON 66 50% R-H.			
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	7500	6670	10800	627	POLYURETHANE BUMPER TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	10000	1230	AGGRESSIVE SYNTHETIC RUBBER ADHESIVE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	2250	5220	8850	6600			
	ELONGATION AT BREAK	ASTM D 638	%	100	>100	>200	192		4	460		320	>100	140	234			
	FLEXURAL MODULUS	ASTM D 790	psi	220,000	110,200	361,400	N.R.		450,000	N.R.		N.R.	107,300	323,000	96,900			
	IZOD IMPACT	ASTM D 256	ft lb/in	2.5	16	1.0	N.R.		0.5	N.R.		N.R.	1.1	16.5	2.7			
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	N.R.	336	360	N.R.	410	N.R.	N.R.	N.R.	352	289	N.R.				
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	118	145	N.R.	N.R.	200	N.R.	N.R.	N.R.	149	271	145				
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.	N.R.	508	N.R.	500	N.R.	N.R.	N.R.	N.R.	N.R.	762	N.R.			
	UL YELLOW CARD FILE #			N.R.	E36632	E63808	E177325	E84658	E80017	E86418	E36632	E50075	E41938					
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	N.R. N.R.	HB .030 N.R.	V-2 .058 N.R.	HB .059 N.R.	V-0 .031 N.R.	HB .040 N.R.	V-0 .032 N.R.	V-2 .028 N.R.	V-2 .016 N.R.	HB .032 N.R.					
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C °C in	N.R. N.R.	65 65	.030 N.R.	N.R. N.R.	50 50	.059 N.R.	65 65	.031 90	65 90	.040 N.R.	50 50	.032 85	75 80	.059 .016	75 85

RMS #: 74 75 76 78 79 80 81 83 84 86 87 88

		TEST METHOD	UNITS	NYLON 66 50% R-H.	NYLON 66 FLAME RET.	TFR	NYLON 6 (1)	PC	TFR (1)	NYLON 66	SOFT PVC	NYLON 66 (1)	PP (1)	NYLON 6	NYLON 6 50% R-H.			
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	8500	8000	2300	5000	8000	670	11340	2750	13000	3340	11400	4350			
	ELONGATION AT BREAK	ASTM D 638	%	>300	70	530	>50	110	500	110	380	N.R.	50	12	>100			
	FLEXURAL MODULUS	ASTM D 790	psi	175,000	210,000	N.R.	N.R.	306,000	N.R.	624,000	N.R.	464,000	145,040	498,000	89,900			
	IZOD IMPACT	ASTM D 256	ft lb/in	2.1	2.4	N.R.	N.R.	5.4	N.R.	0.9	N.R.	N.R.	N.R.	0.7	N.R.			
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	410	N.R.	N.R.	N.R.	293	N.R.	428	N.R.	401	N.R.	405	293			
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	149	158	N.R.	N.R.	277	N.R.	172	N.R.	187	N.R.	N.R.	132			
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.	690	N.R.	890	762	N.R.	N.R.	N.R.	N.R.	3560	N.R.	N.R.			
	UL YELLOW CARD FILE #			E41938	E41938	E80017	E79900	E50075	E80017	E41797	N.R.	E39806	N.R.	E41797	E36632			
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-2 N.R.	V-0 .030 N.R.	HB .040 N.R.	HB .028 N.R.	V-2 .059 N.R.	HB .063 N.R.	V-2 .028 N.R.	N.R. N.R.	N.R. N.R.	V-2 .028 N.R.	N.R. N.R.	V-0 .028 N.R.	HB .059 N.R.		
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C °C in	75 85	.028 65	65 65	.030 N.R.	65 90	.040 N.R.	105 105	.059 50	50 80	.063 N.R.	65 80	.028 N.R.	65 65	.028 N.R.	65 65

(1)-These materials are tested based on different testing standards from those in this chart.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS SPECIFICATIONS

RMS #: 89 91 92 93 94 95 96 97 98 100 101 102

		TEST METHOD	UNITS	FEP	NYLON 66	ADHESIVE	ADHESIVE	PP(1)	NYLON 6(1)	ADHESIVE	ADHESIVE	TPE(1)	TPE(1)	PP SHEET	ADHESIVE	
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	4000	11400	DOUBLE SIDED ACRYLIC FOAM TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	DOUBLE SIDED MODIFIED ACRYLIC ADHESIVE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	4500	11600	HOT MELT ADHESIVE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	DOUBLE SIDED POLYETHYLENE TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	1700	5540	3200	DOUBLE SIDED TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	
	ELONGATION AT BREAK	ASTM D 638	%	340	N.R.			N.R.	10			N.R.	470	530		N.R.
	FLEXURAL MODULUS	ASTM D 790	psi	95000	441,000			N.R.	N.R.			N.R.	10,000	N.R.		N.R.
	IZOD IMPACT	ASTM D 256	ft lb/in	2.9	0.74			N.R.	N.R.			N.R.	N.R.	N.R.		N.R.
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	N.R.	221	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	2100	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	1460	N.R.	
	UL YELLOW CARD FILE #			E54681	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	E121855	N.R.	
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-0 .035 N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	N.R. N.R. N.R.	V-0 .016 29	N.R.	
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in	150 150	.035 N.R.	N.R. N.R.	N.R. N.R.	N.R. N.R.	N.R. N.R.	N.R. N.R.	N.R. N.R.	N.R. N.R.	N.R. N.R.	N.R. 115	.016	

RMS #: 103 104 105 106 107 108 109 110 111 112 113 114

		TEST METHOD	UNITS	NYLON 66/6	NYLON 66 GLS. REINF.	PPE (1)	NYLON 6 50% R.H.	PC	PP (1)	NYLON 4/6 (1)	PBT	PBT	NYLON66 D.A.M. (1)	ADHESIVE	ABS
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	11600	20000	10880	6960	9100	3770	7980	18490	8600	20300	ACRYLIC PRESSURE SENSITIVE TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	7250
	ELONGATION AT BREAK	ASTM D 638	%	N.R.	2.3	N.R.	>100	120	>50	200	2.5	20	N.R.		10
	FLEXURAL MODULUS	ASTM D 790	psi	N.R.	116,000	N.R.	140,650	313,000	N.R.	435,100	1,137,870	477,000	N.R.		384,000
	IZOD IMPACT	ASTM D 256	ft lb/in	N.R.	1.5	N.R.	3.2	15	N.R.	6.0	1.8	0.6	N.R.		2.2
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	435	N.R.	267	374	N.R.	170	N.R.	N.R.	328	482	N.R.	
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	195	470	244	167	271	129	320	410	158	482	192	
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.	N.R.	1143	762	N.R.	3556	N.R.	508	700	N.R.	N.R.	
	UL YELLOW CARD FILE #			E41871	E41938	E41871	E36632	E146413	E188839	E119177	E130155	E45575	E135532	E49895	
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-0 .016 N.R.	V-0 .020 N.R.	V-0 .059 N.R.	V-2 .028 N.R.	V-2 .063 N.R.	HB .059 N.R.	V-2 .030 N.R.	V-0 .030 N.R.	V-0 .030 N.R.	V-0 .032 N.R.	HB .059 N.R.	
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in	65 65	.016 .020	100 100	.030 .028	95 80	.063 0.063	65 65	.059 0.059	115 120	.030 0.030	130 130	.030 0.032

(1)-These materials are tested based on different testing standards from those in this chart.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS SPECIFICATIONS

RMS #: 115 116 117 118 119 120 121 122 123 124 125 126

		TEST METHOD	UNITS	NYLON66(1)	NYLON 66 D.A.M.	PS	SOFT PVC(1)	ADHESIVE	NYLON 6	POM	NYLON 66 MOIST	SJR (1)	PP FLAME RET.	TPR (1)	PP
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	7690	11500	4350 ⁽¹⁾	1420	DOUBLE SIDED POLYETHYLENE TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	5370	9100	8270	1300	3254	N.R.	5120
	ELONGATION AT BREAK	ASTM D 638	%	>50	50	N.R.	280		>200	40	N.R.	400	600	300-550	N.R.
	FLEXURAL MODULUS	ASTM D 790	psi	N.R.	420,000	290,000	N.R.		377,100	450,000	159,540	N.R.	150,000	1000-14940	227,570
	IZOD IMPACT	ASTM D 256	ft lb/in	N.R.	1.0	1.5	N.R.		1.1	1.2	4.0	N.R.	1.1	N.R.	0.6
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	392	460	158	N.R.	320	N.R.	455	N.R.	175	N.R.	205	
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	158	180	144	N.R.	147	N.R.	212	N.R.	N.R.	N.R.	N.R.	
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	800	N.R.	559	N.R.	N.R.	N.R.	559	N.R.	N.R.	N.R.	N.R.	
	UL YELLOW CARD FILE #			E41938	N.R.	E54080	N.R.	E53664	E66288	E41938	E205753	E51346	N.R.	N.R.	
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	V-2 .028 N.R.	N.R. N.R.	V-2 .063 N.R.	N.R. N.R.	V-2 .032 N.R.	HB .030 N.R.	V-2 .059 N.R.	HB .018 N.R.	V-2 .030 N.R.	N.R. N.R.	N.R. N.R.	
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in	75 .028 85 .028	N.R. N.R.	50 .063 50 .063	N.R. N.R.	65 .032 80 .032	50 .030 50 .030	75 .059 85 .059	150 .018 150 .018	65 .030 65 .030	N.R. N.R.	N.R. N.R.	N.R. N.R.

RMS #: 127 128 129 130 131 132 133 134 135 136 137 138

		TEST METHOD	UNITS	POM	POLYOLEFIN FOAM	ADHESIVE	PPE+PS	ADHESIVE	ADHESIVE	NYLON 6(1)	PE	SILICONE FOAM	ADHESIVE	PC	POM
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	4700	126	RUBBER BASED PRESSURE SENSITIVE ADHESIVE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	10900	DOUBLE SIDED PRESSURE SENSITIVE TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	DOUBLE SIDED ACRYLIC TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	6530	N.R.	20	DOUBLE SIDED POLYETHYLENE TAPE PLEASE REFER TO THE END OF THIS SECTION FOR MORE INFORMATION.	8746	8700
	ELONGATION AT BREAK	ASTM D 638	%	N.R.	537		18			350	N.R.	75		120	75
	FLEXURAL MODULUS	ASTM D 790	psi	210,000	N.R.		384,000			123280	N.R.	N.R.		326,000	374,200
	IZOD IMPACT	ASTM D 256	ft lb/in	3	N.R.		3.0			N.R.	N.R.	N.R.		18	1.4
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	N.R.	N.R.	273	356	N.R.	N.R.	284	N.R.				
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	N.R.	N.R.	252	135	N.R.	N.R.	262	230				
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	N.R.	N.R.	478	762	N.R.	N.R.	N.R.	610				
	UL YELLOW CARD FILE #			N.R.	N.R.	E45587	E79900	N.R.	N.R.	E41179	E45034				
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	N.R. N.R.	N.R. N.R.	V-2 .016 N.R.	HB .030 N.R.	N.R. N.R.	N.R. N.R.	V-2 .015 N.R.	HB .030 N.R.				
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in	N.R. N.R.	N.R. N.R.	65 65	75 105	.030 .030	N.R. N.R.	N.R. N.R.	80 80	.015 .015	95 100	.030 .030	

(1)-These materials are tested based on different testing standards from those in this chart.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS #: 139 140 141

	TEST METHOD	UNITS	NYLON 66 COND.	PBT FLAME RET.	PVDF										
MECHANICAL	TENSILE STRENGTH AT YIELD	ASTM D 638	psi	8700	5800	4900									
	ELONGATION AT BREAK	ASTM D 638	%	140	10	400									
	FLEXURAL MODULUS	ASTM D 790	psi	188,550	319,080	168,000									
	IZOD IMPACT	ASTM D 256	ft lb/in	N.R.	N.R.	4									
THERMAL	DEFLECTION TEMPERATURE 66 psi	ASTM D 648	°F	428	275	237									
	DEFLECTION TEMPERATURE 264 psi	ASTM D 648	°F	221	130	N.R.									
MISCELLANEOUS	DIELECTRIC STRENGTH	ASTM D 149	V/mil	762	762	N.R.									
	UL YELLOW CARD FILE #			E53898	E41613	E54699									
	UL FLAMABILITY (O ₂ INDEX)	UL-94 ASTM D 2863	in % O ₂	HB .030 N.R.	V-0 .060 30	V-0 .063 42									
	TEMP INDEX MECH W/IMP W/O IMP	UL-746B	°C in	95 105 .030	110 125 .060	50 50 .063									

NOTES:

1. Values listed are operating ranges established by material suppliers. See Material Disclaimer Note at bottom of this page.
2. See next page for Adhesive specifications.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

DEFINITION

- | | | |
|---------------------------------------|----------------------------------|--------------------------------|
| ABS = Acrylonitrile-Butadiene-Styrene | HMW = High Molecular Weight | PPO = PolyPhenylene Oxide |
| CAP = Cellulose Acetate Propionate | LDPE = Low Density PolyEthylene | PPS = PolyPhenylene Sulfide |
| CPVC = Chlorinated PolyVinyl Chloride | N.R. = Not Rated | PSU = PolySulfide |
| D.A.M. = Dry As Molded | PBT = PolyButylene TerePhthalate | PU = Polyurethane |
| EVA = Ethylene Vinyl Acetate | PC = PolyCarbonate | PVC = PolyVinyl Chloride |
| FEP = Fluorinate Ethylene Propylene | PE = PolyEthylene | R.H. = Relative Humidity |
| GLS. = Glass | POM = PolyOxyMethylene | SIR = Silicone Molding Resin |
| HDPE = High Density PolyEthylene | PP = PolyPropylene | TPE = Thermo Plastic Elastomer |
| HIPS = High Impact PolyStyrene | PPE = PolyPhenylene Ether | TPR = Thermoplastic Rubber |

Nylon Storage Guidelines / Shelf Life

All Richco nylon parts are packaged in sealed plastic bags and contain an appropriate level of moisture. When stored in the original unopened bags at 73°F and 50% RH, parts shelf life is one year from date of shipment.

RMS SPECIFICATIONS

Proper Application Procedures for RMS-15 and RMS-34

1. Maximum recommended static loading at the adhesive surface is 1/4 pounds per square inch of tape.
2. Remove dirt, wax, dust, soap, or oil from contact surface.
3. Apply to relatively flat surface on glass, metal, wood, tile, plastic, etc.
4. Do not use on fabric, coarse concrete, loose paint, or rough wallpaper.
5. Do not touch adhesive.
6. Remove liner. Place article in desired position and press firmly to insure good adhesive contact.
7. Do not attempt to reposition article.
8. If possible, allow overnight dwell before loading.

RMS 15

Double-sided Urethane foam tape.

This tape is high density, flexible polyurethane foam, coated on both sides with pressure-sensitive acrylic adhesive.
U.L. Card File MH16770

Physical Properties

Density:	30 lbs./ft ³
Water penetration rate (% volume):	2.0 Maximum
Solvent resistance, after 24-hour immersion:	
Toluene	Foam swelling, adhesive weakening
JP-4	Slight foam swelling, adhesive softened
Petrol	Some foam swelling, adhesive softened
Heptain	Slight foam swelling, adhesive softened
Lacquer Thinner	Considerable foam swelling, adhesive softened and partially dissolved.
Perchloroethylene	Some foam swelling, adhesive softened
Motor Oil	No effect

Adhesive Properties

Acrylic	Excellent
ABS	Excellent
Polystyrene	Excellent
Other plastics	Excellent
Anodized aluminum	Excellent
Stainless steel	Excellent
Other metal surfaces	Excellent
Not recommended on Galvanized surfaces.	

Characteristics

1. The adhesive's aggressiveness permits tape to be applied to rough surfaces with only enough pressure for maximum contact.
2. The long aging adhesive is suitable for permanent bonding.

3. Best surface adhesion is attained when application temperature range is between 70° – 120°F (20° – 50°C). Application at slightly lower temperature range is possible if initial holding power is not critical. Once applied, adhesion is not affected by lower temperatures. Tape will hold for extended periods of time at temperatures of 200°F (95°C) or slightly higher.
4. Operating temperature range is 32° to 185°F (0-85°C)

RMS-34

Double-sided polyethylene foam tape

This tape is coated on both sides with pressure sensitive synthetic rubber base adhesive.

Physical Properties

Density:	3.7 lbs./ft ³
Water absorption:	5% in volume
Tensile strength:	ASTM D-412, 225 p.s.i.
Elongation:	250%

Characteristics

1. Tape has a service temperature of -40° to 160°F (-40° to 70°C).
2. Best surface adhesion is attained when application temperature range is between 50° and 113°F (10° and 45°C).

Proper Application Procedure for RMS-65 and RMS-68

To obtain maximum adhesion, surfaces must be clean, dry and well unified. Clean surfaces with low strength solvent such as Isopropyl Alcohol (rubbing alcohol) or Heptain. Follow solvent manufacturer's precautionary warnings and suggested handling procedures when using solvents. The formulation of composition contains no migratory plasticizers of any kind that would mar surfaces of contact. User should evaluate product's suitability for specific applications under actual use conditions.

RMS-65

Polyurethane bumper tape (for clear bumpers)

This tape is comprised of a thin polyester film carrier coated with a high performance acrylic-based pressure sensitive adhesive.

Test Method

Quick Tack, lbs./in ²	Loop Track
Stainless Steel	5.0
Peel Adhesion, lbs./in	PSTC-3
Stainless Steel	
30 minute residence	5.0
24 hour residence	6.0
Carrier plus adhesive thickness	.003"
Temperature ranges:	
Application:	40°-150°F
End use	0° – 250°F

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS-68

Polyurethane bumper tape (for pigmented bumpers)

This tape is comprised of a thin polyester film coated with an aggressive special purpose rubber-based pressure sensitive adhesive.

	Test Method
Quick Tack, lbs./in ²	Loop Track
Stainless Steel	10.0
Peel Adhesion, lbs./in	PSTC-3
Stainless Steel	
30 minute residence	6.0
24 hour residence	6.5
Carrier plus adhesive thickness003"
Temperature ranges:	
Application:	40°-150°F
End use	0° – 180°F

Characteristics

This tape is resistant to water, detergent and alcohol. Not recommended for use in contact with aliphatic or aromatic hydrocarbons.

Proper Application Procedures for Adhesives

1. Remove dirt, wax, dust, soap, or oil from contact surface.
2. Apply to relatively flat surface on glass, metal, wood, tile, plastic, etc.
3. Do not use on fabric, coarse concrete, loose paint, or rough wallpaper.
4. Do not touch adhesive.
5. Remove liner. Place article in desired position and press firmly to insure good adhesive contact.
6. Do not attempt to reposition article.
7. If possible, allow overnight dwell before loading.

RMS-92

White, closed-cell acrylic foam carrier coated with all-purpose acrylic adhesive.

Thickness (in):045
Peel adhesion (lbs./in):	25
Normal tensile (lbs./in ²):	140
Dynamic shear (lbs./in ²)	80
Temperature tolerance (°F)	Short term (300) Long term (200)

RMS-93

Double-sided polyethylene foam tape.

This tape is coated on both sides with pressure sensitive modified acrylic base adhesive.

Thickness (mm):	0.8 ~1.1
Heat resistance (°C):	80
Shear strength on steel at 20°C (N):	min. 30
Resistance to peeling on steel at 20°C(N):	min. 18

RMS-96*

Hot melt adhesive.

Physical Properties

Appearance:	Transparent amber solid.
Solids:	100%
Viscosity:	Approx. 2,000 cps @ 350°F
	Approx. 5,200 cps @ 300°F
	Approx. 20,200 cps @ 250°F
	Approx. 27,250 cps @ 200°F
Softening pt.:	Approx. 180°F (ball & ring)
Lbs./Gal.:	Approx. 8.3

Suggested Uses

Non-woven construction and lamination of foamed elastics to poly or non-woven.

Operating Conditions

Suggested running range:

275° – 325°F

RMS-97

Double-sided polyethylene foam tape.

This tape is coated on both sides with rubber-based adhesive.

Physical Properties

Thickness (mm):	0.9
Peel adhesion @ 23°C (N/25mm):	25
Shear @ 23°C (N/625mm2):	120
Temperature range (°C):	-40 ~ 60
Min. application temp. (°C):	10

Characteristics

1. Good gap filling between slightly uneven materials.
2. Very high adhesion to most common materials.
3. Good tack copes well with difficult surfaces and conditions.
4. High shear and foam strength for mounting and holding.
5. Good long term aging.
6. Resistant to water.
7. Outstandingly reliable general-purpose product.

*Proper application procedures for adhesive do not apply.

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

RMS SPECIFICATIONS

RMS-102

Double-sided tape.

180° Peel adhesion:	128 oz./in width
Tack, probe:	800 gm min.
Shear adhesion (1000g/in ²):	No creep @ 500+ hrs
Shelf life:	2 years (at room cond.)
Application temp. range:	65°F ~ 120°F
Polyethylene foam thickness:	1/32

RMS-113

Acrylic pressure sensitive adhesive.

Characteristics

1. Moderate tack – medium setup.
2. High temperature use.
3. High strength.
4. Full bond strength – 24 hrs.
5. Temperature operating range 0°F to 225°F

Adhesive Properties

Aluminum, unpainted	Good
Steel, unpainted	Excellent
Rigid vinyl	Excellent
Polystyrene	Good
Polycarbonate	Excellent
ABS	Excellent
Plexiglass	Excellent
Lacquered wood	Excellent
Some paints	Good
Polypropylene	Fair
Polyethylene	Poor
Soft vinyl	Good

RMS-119

Double-sided polyethylene foam tape.

Foam thickness (mm):	1.1
--------------------------------	-----

Adhesive Strength (N/m) (90°)

Stainless Steel:	8.27
Aluminum:	6.74
PVC (hard):	9.88
ABS:	6.25
Polystyrene:	8.04
Nylon 66:	6.80
Polypropylene:	7.25
Polyethylene:	4.39
Glass:	6.74
Plywood:	2.66

RMS-131

Double-sided pressure sensitive rubber foam tape.

Physical Properties

Synthetic rubber based.	
Thickness: ~1mm	
Peeling strength (kgf/20mm, 90°):	3.5 (Stainless steel)
	4.0 (ABS)
	2.4 (Polypropylene)

Characteristics

1. Excellent creep resistance.
2. Good bonding strength for various substrates, esp. polyolefin plastics.
3. Good repulsion resistance and good bonding strength on curved surfaces.
4. Not to be used for plasticized PVC.

RMS-132

Double-sided acrylic foam tape.

Peel adhesion (lbs./in, stainless steel):	9
Normal tensile (lbs./in ² , aluminum):	100
Static shear (g, 1/2in ² , 10,000minutes, 22°C):	1500
Dynamic shear (lbs/in ² , stainless steel):	80
Temperature tolerance (°F, short term):	500
Temperature tolerance (°F, long term):	300

RMS-136

Double-sided polyethylene foam tape.

Thickness (mm):	1
Adhesion (oz/in, 180° peel, stainless steel):	40
Operating temp. (°C):	-40 ~ 60

RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY: These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

Plastisol-Vinyl Specifications

Description: A flexible black PVC which cures to a predetermined thickness controlled by preheated temperature of the part, forming a permanent bond. Finish is high gloss and standard thickness is .03. Colors other than black can be ordered by request.

Hardness: Variable hardness-normally 65-75 Shore

Temperature: 225°F for 2000 hours Deterioration limits
 350°F for 2 hours
 -30°F remains flexible
 Material is self extinguishing

Tensile Strength: 2000 PSI on .015 film

Elasticity: 300-350% average normal

Chemicals:

Resistance/Abrasion	Good	Fair	Poor
Water	X		
Detergents	X		
Petroleum base	X		
Gasoline Base	X		
Oil/grease base	X		
Ketones			X
Chlorinated Solvents			X
Aromatic Solvents			X
Toluol			X
Zylol			X
Alkalies		X	
Acids		X	

Dielectric Strength: 200 volts per mm of coating of cured fused film at .03 thickness. Alternative vinyl formulations can be prepared for special applications.

Specifications: Compliance: Mil R-3065/Mil-20689
 ESVM-4669-A
 SAE J-200
 ASTM D-2287
 MS-DC-513
 Fisher Body: FMBS-218
 Marine and Naval: MIL-C-21066, MIL-R-22984,00R-35

Santoprene Specifications

(Santoprene 101-73)

Description:

- A pliable black extrusion
- Excellent insulator for electrical installation
- Consistant thickness throughout

Mechanical Properties: Retention of tensile properties after exposure to outdoor elements.

Time (hours)	Tensile Strength	Elongation	100% Modulus
1000	103%	94%	104%
2000	102%	94%	106%

Heat aging, (retention of mechanical properties) at 275° F					
Hardness Change (hours)	24	167	360	720	1000
Shore A Units	-1	-1	0	+2	+4
Tensile Strength % Retention	94	100	105	120	108
Ultimate Elongation % Retention	87	98	98	105	89
100% Modulus % Retention	101	103	104	107	112

Specification Compliance:

Mil	R-3065
SAE	3209H
ASTM	D-2000
ASTM	D-471

Fluid Resistance:

	Hours	Temp.	Grade 101-73
Water	166	212	5
Antifreeze	166	257	4
15% Salt	166	73	0
50% Sodium Hydroxide	166	73	0
98% Sulfuric Acid	166	73	4
ASTM#1 Oil	166	212	29
ASTM#2 Oil	166	212	49
ASTM#3 Oil	166	212	65
Skydrol® 500 (B-4)	166	212	-13
Pydrol® 312 (c)	166	257	22
Sumvis 706	166	257	55
Brake Fluid	166	212	-18
Transmission Fluid	166	257	59
Reference Fuel B	166	73	42
Lithium Grease	166	212	33

ALPHABETICAL LISTING

215XXX	171-172
224XXX	171-172
235XXX	172
238XXX	172
246XXX	173
248XXX	173
840XXX	155, 171

A	
ABK	102
ACGC	44
ACGE	44
AFCC	129
AKKL	95
AKKSL	96
AL	92
ALSS	30
ASK	102
ASPR	68
ASPS	68

B	
BF	67
BHC	19
BHC1	19
BHDF	19
BHDL	19
BHDL1	19
BHKL	108
BHL	19
BHL1	19
BMS-D	47
BMS-S	47
BP	164
BPE	149
BPF	63
BR	62
BRS	62
BRSS	30
BT	78

C	
CAT	133
CBE	49
CBG	42
CBHP	163
CBS	6
CBS-TF	20
CBS-TFM	21
CBS-TM	20
CBS-TMM	21
CBSB	11
CBSBT	11
CBSS	10
CCP	50

CDLCBST	15
CFCC	128
CFCCS-8-01A	128
CH Channel	161
CH Cable Hanger	91
CPST	13
CR	59
CRCBSRE	17
CRLCBSK-2	17
CRLCBSR	17
CRLCBSRE	17
CS	64
CSP	36
CSR	36
CT	132

D	
D	101
DDH	161
DF	61
DFCC	129
DG	164
DGB	164
DGC	154
DGCE	154
DHURC	117
DL-1	65
DLCBS	8
DLCBS-2	8
DLCBS-3	8
DLCBSAT	14
DLCBSM	8
DLCBST	14
DLMSP	9
DLMSPM	9
DLSP-1	10
DLSP-2	10
DLSP-3	10
DSC	160
DTL	105

E	
E	91
EAKKL	95
ECBG	48
EDK	180
EFCW	126
EFCWSF	126
EG	37
EHCBS	23
EHWSE	123
EWSE	123
EWSJS	123
EXWHC	93

F	
FCC	129
FCCA	125
FCCE	130
FCLC	130
FCLCS	130
FCRC	127
FCRCS	127
FCRCSH	127
FCW	125
FF	66
FLCBSU	22
FOEDK	180
FTH	84-87
FTH-1	87
FTH-10	84
FTH-11	88
FTH-12	88
FTH-15	87
FTH-17-8-01	86
FTH-19	86
FTH-2	88
FTH-20	86
FTH-21	88
FTH-22	87
FTH-24	88
FTH-27	85
FTH-28RS	85
FTH-2A-RT	88
FTH-3	87
FTH-4	84
FTH-5	84
FTH-6	87
FTH-7	84
FTH-8	84
FTH-9	87
FTH-R	86
FTH-S	86

G	
GCBS	33

H	
HDSB	73
HEWSE	123
HFCC	130
HG	162
HLCBSE2	25
HMCC	101
HMSP-TM	21
HN	34
HQC	93
HR	132
HS	32
HT	77

HTNSP	29
HTRTC	175
HTS	31
HUC	99
HURC	117

I	
IEC	174
IR	155

K	
KKC	98
KKCD	98
KKD	97
KKDL	97
KKF	99
KKJ	98
KKK	98
KKL	97
KKLE	96
KKR	99
KKU	97
KL	103
KLB	104
KLBS	104
KLH	105
KNF	34
KSK	119
KSLBN	24
KSLSP1	25
KSLSP2	25

L	
LB	83
LBT	78
LCBG	42
LCBG-T	42
LCBS	6
LCBS-2	7
LCBS-3	7
LCBS-6	7
LCBS-7	7
LCBS-8	7
LCBS-9	7
LCBSB	11
LCBSBM	11
LCBS-L	18
LCBSM	8
LCBST	14
LCBS-TF	20
LCBS-TM	20
LEDCR	169
LEDH	168
LEDHPM	169
LEDS1	168

ALPHABETICAL LISTING

LEDS2	168	MWSEB	120	P		REHCBS	22
LEDS3	168	MWSELF	122	POD	134	RFF	176
LEDS1E	167	MWSET	122	PAKKL	95	RFG	176
LEDS2E	167	MWSSEB	119	PCBEHE2	25	RFRT-G2	65
LEDS2M	167	MWSSEBE	119	PCB-MB	45	RFRT-PN	65
LEWSE	124			PCC	102	RKS	81
LKSA	26	N		PCG	48	RKW	80
LKSF	26	N	90	PCT	48	RKWB	82, 100
LKSL	26	NB	90	PCTE	48	RKWD	80
LKSPL	26	NE	92	PFC	102	RKWFA	82
LKSPN	26	NGS	159	PFP	63	RKWID	81
LKSS	26	NGSG	159	PGM	163	RKWR	82
LKST	26	NMS	34	PGS	159	RKWS	81
LMSP	12	NR	64	PGSA	163	RLCBSR	16
LNCBS	6	NSP	34	PGSB	163	RLCBSR1	16
LTOB-1	83, 100	NSS	34	PGSB-A	163	RLCBSR1	16
LWS	113, 151	NTS	31	PGSC	162	RLCBSRE	16
LWS-9	116			PGSG	159	RLCBSRS	17
LWS-A	113	O		PKKL	95	RMS	176
LWS-BH	117	OF	173	PL	63	RN	45
LWS-SE2	115	OFB3P	145	POF	67	RNS	83
LWS-SH	113	OFB-BH	145	PPR	58	ROFSP	148
LWS-SR	114	OFBLT	137	PPR-10	59	RRP	50, 51
		OFBLT-P	137	PPR-T	58	RSC	91
		OFBLTS	137	PS	13	RSDC	46
M		OFCA	148	PSM	13	RSFS	46
MB	61	OFCA	148	PST	13	RSLP	170
MBHWSSE	120	OFCA	148	PT	79	RSSD	46
MBRR	62	OFCA	148			RSSHG	47
MBRP	62	OFCA	148	Q		RWRS	160
MCCG	158	OFCA	148	QFG	162	RWS	118
MCG	158	OFCA	148	QM	30	RWSB	118
MDLSP1	15	OFCA	148			RX	135
MDLSP2	15	OFCA	148	R			
MFTH	84	OFCA	148	R	178, 179	S	
MFTS	31	OFCA	148	R1001	51	SCBS	20
MGS	159	OFCA	148	R1107	51	SCBSM	14
MKKJ	98	OFCA	148	R1209	51	SCBST	15
MMB	61	OFCA	148	R5021	49	SCD	134
MNI	177	OFCA	148	R5022	49	SCH	111
MNI-HT	177	OFCA	148	R5023	49	SCHS	111
MOFNSA	121, 150	OFCA	148	R5024	49	SF	126
MOFNSB	119, 150	OFCA	148	R900	33	SFCC	128
MOFNSP	121, 150	OFCA	148	RAK	102	SFF	66
MPLE	63	OFCA	148	RBS	68	SG	37
MSNE	36	OFCA	148	RC	101	SHC	111
MSP	12	OFCA	148	RCBSR	16	SHK	109
MSPE	12	OFCA	148	RCCC	149	SHKBS	104
MSPM	12	OFCA	148	RCG	44	SHR	133
MSPS	12	OFCA	148	RCGH	44	SKL	106
MTNSP	29	OFCA	148	RCP	50	SKLO	106
MTS	31	OFCA	148	RCPF	176	SLCS	110
MWS	121, 151	OFCA	148	RCP-XXX-NV	176	SLCSE/SLCSE2	110
MWSB	120, 151	OFCA	148	RDC	45	SLG	57
MWSEA	121, 151	OFCA	148	RDSHG	47		

ALPHABETICAL LISTING

SLH	161	TBRHS	30	WIT-3	79
SLP	60	TC	130	WIT-3A	79
SLPA	60	TCBS	21	WITCH	74
SLPB	57	TCEHCBS	22	WIT-DH	73
SLPL	57	TCG	43	WIT-F	77
SMWS	122, 151	TCGVM	43	WIT-HS	70-71
SN	36	TEHCBS	23	WIT-LAR	76
SNGS	159	TFCC	125	WIT-MIL	70-71
SNGSG	159	TFCCA	125	WIT-MK	77
SOF	67	THA	88	WIT-R	72
SP-1	9	TL	103	WIT-R1A	75
SP-2	9	TLH	105	WIT-R2A	75
SP-3	9	TLHE	105	WIT-RA	75
SPGS	159	TLHS	106	WIT-RAR	76
SPN	92	TLJ	106	WIT-RLA	75
SPNW	92	TLSE	106	WIT-RR	75
SPSGS	159	TNSP	28	WIT-RT	72
SQLEDS	168	TNSP-M	28	WITS	74
SR	54, 55	TO	175	WITSH	74
SRVO	54, 55	TOAH	76	WIT-ST	70-71
SRB	165	TOBS	79	WIT-UVB	70-71
SRC	118	TPCE	138	WIT-VO	70-71
SRH	56	TRCG	43	WRK	180
SRHVO	56			WS	112, 151
SRHR	55	U		WS-9	116
SRL	134	UBM	24	WS-A	112
SRLAHS	18	UBMC	24	WSB	120
SRLCBS	18	UC	99	WSBH	117
SRP	55	UMS	83, 100	WSLT	115
SRS	35	USR	56, 57	WSLT-9	116
SRSCBS	18	V		WS-SE	115
SRSG	37	V	94	WS-SE-A	115
SRT	56	VCC	101	WS-SE-B	119
SRWD	135	VM	94	WS-SH	112
SRWDN	135	VMCG	40	WS-SR	114
SS	32	VMCGE	42	WSTL	109
SSRS	35	VMCGE-RH	42	WTL	103
ST	79	VMCGLE	42	WTLH	105
STL	107-108	VMCGN	41	WWS	114
STL-120/280	108	W		Y	
STL-8	108	WCB	119	YW	155
STL-J9	108	WCK	96		
STLSC	109	WHC	93		
STL-SME	106	WIT	70-71		
T		WIT-1	79		
TALHS	30	WIT-2A	79		

NOTES

NOTES



The Richco® advantage...

GLOBAL PRESENCE, LOCAL SUPPORT!



- Thousands of standard products in stock: 95% ship within 24 hours.
- Custom design engineering assistance available. Simply call 773-539-4060 and ask for our Engineering department.

- More new products, more often.
- Not sure what your application requires? Call us today or visit our web site at www.richco-inc.com.



Global manufacturer of design engineered plastic components.

8145 River Drive, Morton Grove, IL 60053
Tel: (1) 773 539 4060; Fax: (1) 773 539 6770
Free samples: (1) 800 621 1892
www.richco-inc.com



NORTH AMERICA

Richco, Inc.
World Headquarters
8145 River Drive
Morton Grove, IL 60053
Tel.: (1) 773 539 4060; Fax: (1) 773 539 6770
www.richco-inc.com

Richco, Inc.
Extrusion Operations-USA
5825 N. Tripp Avenue
Chicago, IL 60646
Tel.: (1) 773 539 4060; Fax: (1) 773 539 6770
www.richco-inc.com

Richco, Inc.
Molding Operations-USA
1000 Northfield Avenue
Harvard, IL 60033
Tel.: (1) 773 539 4060; Fax: (1) 773 539 6770
www.richco-inc.com

Richco Plastic Canada Ltd
121 Granton Drive, Unit 17
Richmond Hill, Ontario L4B 3N4 Canada
Tel.: (1) 905 731 5221; Fax: (1) 905 731 0508
sales@richcocanada.com

EUROPE

International HQ
Richco International Co Ltd.
Richco House
Springhead Enterprise Park
Springhead Road
Gravesend, Kent
England DA11 8HE,
Tel.: (44) 1474 327527; Fax: (44)1474 327455
sales@richco.co.uk

Richco Benelux B.V.
Beeldschermweg 5-3
3821 AH Amersfoort
The Netherlands
Tel.: (31) 33 455 6262; Fax: (31) 33 455 6261
sales@richco.nl

Richco Plastic Deutschland GmbH
Breslauer Weg 31
82538 Geretsried
Germany
Tel.: (49) 8171 4328 0; Fax: (49) 8171 4328 19
vertrieb@richco-plastic.de

Richco Española S.L.U.
C/ Roure Gros, 1
08181 Setmenat
Barcelona- Spain
Tel.: (34) 90222 2250; Fax: (34) 93715 4503

Richco Finland
Riihitontuntie 2
FIN-02200 Espoo
Finland
Tel.: 35894129170; Fax: 35894129172
richco.finland@richco.fi

Richco France
Z.A. La Croix des Hormes
69250 Montanay
France
Tel.: (33) 4 72 08 71 40; Fax: (33) 4 72 08 71 49
richco@richco.fr

Richco Italia Srl
Via G.Masserenti 1
Loc.I Maggio
40013 Castelmaggiore
Bologna, Italy
Tel.: (39) 051 6325266; Fax: (39) 051 6325279
widget@richco.it

Richco Scandinavia AB
P.O.Box 29061
S-10052 Stockholm
Sweden
Tel.: (46) 866 79185; Fax: (46) 866 34677
klick.klick.klart@richco.se

ASIA

Richco Asia, PTE
51 Lorong 17 Geylang #05-02
Superior Industrial Building
388571 Singapore
Tel.: (65) 6841 3266; Fax: (65) 6841 5481

Richco Japan Inc
8F, Gotanda Daiwa Bldg.
13-5 Nishigotanda 7-Chome
Shinagawa-Ku, Tokyo, 141-0031 Japan
Tel.: 0334937213; Fax: 0357590345
E-mail: Kunio.Yasui@richco.co.jp

Richco S.E.A. (M), Sdn Bhd
45B, Jalan SS 15/4B
Subang Jaya
47500 Petaling Jaya
Selangor, Malaysia
Tel.: (60) 356370566; Fax: (60) 356370577
richco@po.jaring.my

Richco Korea Ltd
527-6 Bookyang-dong
Hwasung City, Kyungki-do
Korea
445-854
Tel.: (82) 31 356 8436; Fax: (82) 31 355 2932
richcoko@unitel.co.kr

Richco Asia Pte Ltd
Shanghai Representative Office
Room 510, Cimic Tower
No. 800 Shangcheng Rd,
Pudong, Shanghai
P.R. China 200120
Tel.: (86-21) 5835 5065; Fax: (86-21) 5835 9796

Distributed by:




Richco®



GLOBAL MANUFACTURER OF PLASTIC FASTENERS,
WIRE MANAGEMENT DEVICES, CIRCUIT BOARD
HARDWARE AND CUSTOM COMPONENTS



NEW PRODUCTS INDEX

Part #	Page #	Part #	Page #	Part #	Page #
AKKL	95	LWS-SR & LWS-9	114 & 116	RDSHG	47
BHC	19	MBHWSSE	120	RFRT-G2	65
BHDL	19	MOFNSA	150	RFRT-PN	65
BHL	19	MOFNSB	150	RKW	80
BR	62	MOFNSP	150	RKWFA	82
BRS	62	MWSEA	121	RKWID	81
CAT	133	MWSELF	122	RKWS	81
CR	59	MWSET	122	RSLP	170
CRCBSRE	17	MWS/MWS1	121	RSSHG	47
DDH	161	OFB-BH	145	RWRS	160
DG	164	OFB3P	145	RWSB	118
DGC	154	OFBLT	137	RX	135
DGCE	154	OFCA	148	SF	126
EFCW	126	OFCEBU/OFCEBUGB	140	SHKBS	104
EFCWSF	126	OFCEP	147	SHR	133
EXWHC	93	OFD	141	SLG	57
FCW	125	OFDS	145	SLPB	57
FCCA	125	OFFM	141	SLPL	57
FOEDK	180	OFM	140	SMWS	122
FTH	85	OFNS	150	SR/SRVO	54
GCBS	33	OFHB2	145	SR-3230	55
HTRTC	175	OFS90	146	SRH/SRHVO	56
KKCD	98	OFSH	142	SRL	134
KKK	98	OFSH-T	144	SRT	56
KKR	99	OFSP/ROFSP	148	STL	108
LCBS-9	7	OFST	143	TFCC	125
LEDHPM	169	OFSTH	142	TFCCA	125
LEWSE	124	OFTGSP	139	TPCE	138
LKSA	26	OFZT	137	V	94
LKSF	26	PAKKL	95	VMCGE	42
LKSL	26	PGSC	162	VMCGN	41
LKSPL	26	PGSG	159	WIT-30AR	76
LKSPN	26	PPR-10	59	WRK	180
LKSS	26	RBS	68	WS-9	116
LKST	26	RCCC	149	WSLT	115
				WSLT-9	116