

For years, *PANDUIT* has supplied its customers with innovative wire harness components, systems and installation tooling. *PANDUIT* offers a broad range of solutions to meet the changing challenges of routing wire in harness assembly production.

The *PANDUIT* Harness Board Accessories System has a unique product offering for all of your wire harness management needs. It provides for the fast routing and forming of wires in harness fabrication. The accessories hold the wires off the harness board at a uniform height for easy application of cable ties. For complete Harness Board System Solutions choose *PANDUIT* Harness Board Accessories, Cable Ties and Installation Tooling.



- One-stop-shopping for all your harnessing needs
- Speeds harness assembly while providing lowest installed cost
- Reduces operator fatigue
- Provides a higher quality finished product
- Makes it easy to install, maintain and modify the wire harness
- Enables greater design flexibility

Contents

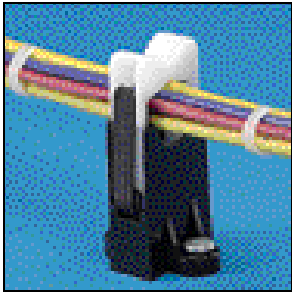
Page Number

| | |
|---|----|
| RER Type Replaceable Elastic Wire Retainers..... | 3 |
| ER Type Elastic Wire Retainers | 3 |
| BR Type Bundle Retainer | 4 |
| CPH Type Corner Post | 4 |
| CPL Type Corner Post (low) | 4 |
| WEH Type Wire End Holder | 4 |
| TJF Type T-Junction Fixture..... | 5 |
| Fanning Strip System | 5 |
| Spring Wire Breakout System | 6 |
| Harness Board Nails | 6 |
| Harness Board Platform | 7 |
| Harness Board Standoff Post | 7 |
| Tie Harness Mount Fixtures..... | 8 |
| Harness Board Universal Adapter..... | 8 |
| Tie Harness Anchor Universal Fixture..... | 8 |
| Tie Harness Mounts — Using Two Cable Ties | 9 |
| Installation System — PAT1M/PAT1.5M Reel Fed Systems for Harness Assemblies | 10 |
| <i>PANDUIT</i> ® Cable Ties | 10 |

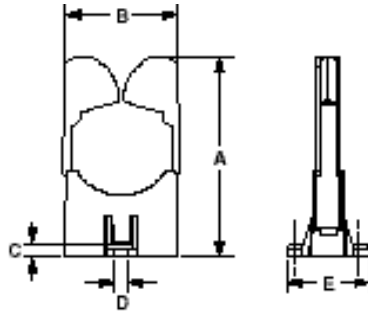
PANDUIT® Harness Board Fixtures

Wire Retainers —

RER Replaceable Elastic Retainers



As wires are individually inserted, the bundle is pre-formed. When the harness is complete, it can be easily snapped out. Three sizes available for 1/2" (12.7mm), 3/4" (19.0mm) and 1 1/4" (31.7mm) bundles.

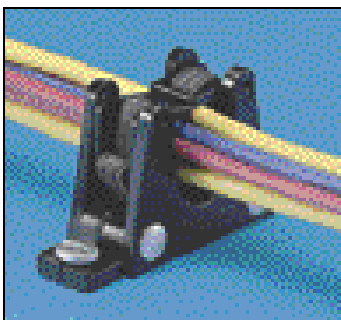


Replacement Elastic
For economy, the elastic band can be replaced in the RER Elastic Retainers without removing the RER base.

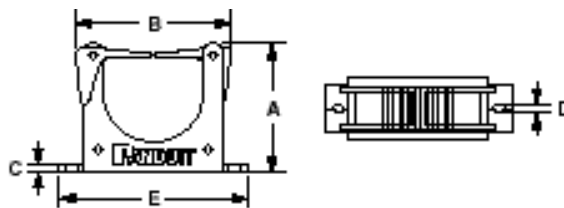
| Part Number | Pkg. Qty. |
|-------------|-----------|
| RER.5E-X | 10 |
| RER.75E-X | 10 |
| RER1.25E-X | 10 |

| Part Number | Max. Dia. In (mm) | Dimensions Inches (mm) | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|--------------|-------------------|------------------------|----------------|--------------|---------------|----------------|------------------------|-----------------|----------------|----------------|
| | | A | B | C | D | E | | | | |
| RER.5-S6-X | .5 (12.7) | 1.82 (46.2) | .84 (21.3) | .18 (4.7) | .141 (3.6) | 1.18 (30.0) | Black Nylon and Acetal | #6 (M3) Screw | 10 | 50 |
| RER.75-S6-X | .75 (19.0) | 2.12 (53.9) | 1.12 (28.4) | | .145 (3.7) | | | | 10 | 50 |
| RER1.25-S6-X | 1.25 (31.8) | 2.75 (69.9) | 1.64 (41.7) | | .145 (3.7) | | | | 10 | 50 |

ER Elastic Retainers



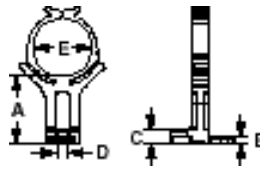
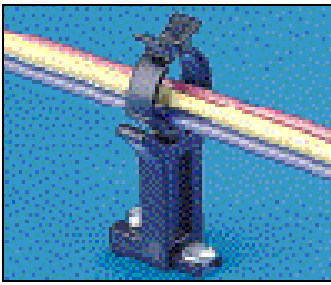
ER Type retainers form wire bundles as wires are inserted. Completed bundles then snap out. Two sizes available for 1/2" (12.7mm) and 1 1/4" (31.7mm) bundles.



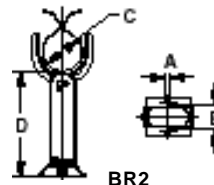
| Part Number | Max. Dia. In (mm) | Dimensions Inches (mm) | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|-------------------|------------------------|----------------|--------------|---------------|----------------|---------------------|------------------|----------------|----------------|
| | | A | B | C | D | E | | | | |
| ER.5-E4-X | .5 (12.7) | 1.00 (25.4) | 1.00 (25.4) | .15 (3.8) | .120 (3.0) | 1.90 (48.3) | Black Nylon and ABS | #4 (M2,5) Screws | 10 | 100 |
| ER1.25-E4-X | 1.25 (31.8) | 2.00 (50.8) | 2.40 (61.0) | | .120 (3.0) | | | | 2.90 (73.7) | 10 |

Bundle Retainers

Spring fingers with large lead in, facilitate fast routing of wires and easy removal of completed harness. Three sizes available for 1/2" (12.7mm), 3/4" (19.0mm) and 2.00" (50.8mm) bundles.



BR.5, BR.75,

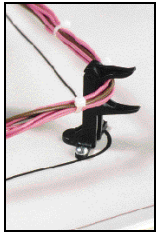


BR2

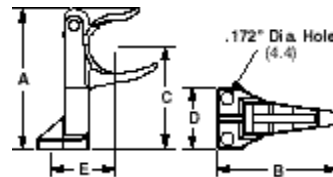
| Part Number | Max. Dia. In (mm) | Dimensions Inches (mm) | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|-------------------|------------------------|----------------|----------------|-----------------|---------------|------------------|---|----------------|----------------|
| | | A | B | C | D | E | | | | |
| BR.5-E6-C | .5 (12.7) | 1.07 (27.2) | .09 (2.3) | .20 (5.1) | .145 (3.7) | .52 (13.2) | Black Acetal | #6 (M3) Screws | 100 | 500 |
| BR.75-E6-C | .75 (19.0) | .95 (24.1) | | | | .76 (19.3) | | | 100 | 500 |
| BR2-1.3-X | 2.00 (50.8) | .27 (6.9) | 1.23 (31.2) | 2.12 (53.8) | 1.30 (33.0) | — | Black Acetal | 1.4" (6MM) Screw | 10 | 100 |
| BR2-1.3-A-X | | | | | 1.30 (33.0) | — | | Rubber Adhesive 2.0 lbs. Static Load | 10 | 100 |
| BR2-1.5-X | 2.00 (50.8) | .26 (6.6) | 1.42 (36.1) | 2.12 (53.8) | 1.62 (41.1) | — | | 1/4-20 (M6) Screws | 10 | 100 |
| BR2-4-X | 2.00 (50.8) | .26 (6.6) | 1.42 (36.1) | 2.12 (53.8) | 4.00 (101.6) | — | | | 10 | 100 |
| BR2-6-X | 2.00 (50.8) | .26 (6.6) | 1.42 (36.1) | 2.12 (53.8) | 6.00 (152.4) | — | | | 10 | 100 |

Corner Posts

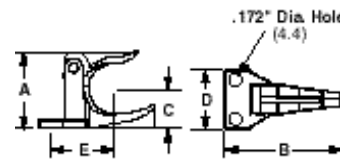
Designed to pre-form bundles at harness corners and breakouts. The top arm pivots for easy removal of completed harness.



CPH Corner Post, High



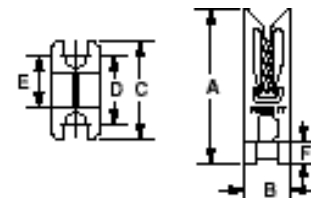
CPL Corner Post, Low



| Part Number | Max. Dia. In (mm) | Dimensions Inches (mm) | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|-------------------|------------------------|----------------|----------------|---------------|----------------|------------------|-----------------|----------------|----------------|
| | | A | B | C | D | E | | | | |
| CPH.75-S8-X | .75 (19.0) | 1.78 (45.3) | 1.60 (40.8) | 1.35 (34.4) | .90 (22.9) | 1.18 (30.0) | Black Acetal | #8 (M4) Screws | 10 | 100 |
| CPL.75-S8-X | | 1.08 (27.4) | 1.52 (38.6) | .56 (14.2) | .88 (22.4) | 1.11 (28.2) | | | 10 | 100 |

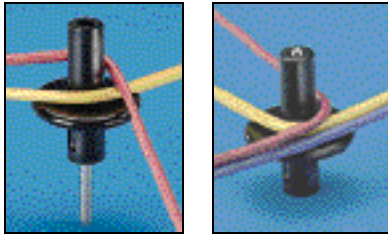
Wire End Holder

Secures wire ends with or without terminations while harness is being fabricated. Wires can be easily added or removed from the top, but will hold the wire from axial movement. Used with #28 thru #16 AWG wires. Two mounting slots .16" (4.1mm) for #8 (M4) screws.



| Part Number | Dimensions Inches (mm) | | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|------------------------|--------------|---------------|---------------|--------------|--------------|------------------|-----------------|----------------|----------------|
| | A | B | C | D | E | F | | | | |
| WEH-E8-C | 1.25 (31.8) | .38 (9.7) | .79 (20.0) | .55 (14.0) | .29 (7.4) | .18 (4.6) | Black Acetal | #8 (M4) Screws | 100 | 1000 |

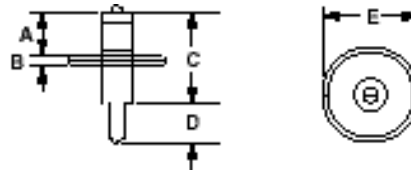
T-Junction Fixture



The "up" position allows forming of harness and cable tie installation

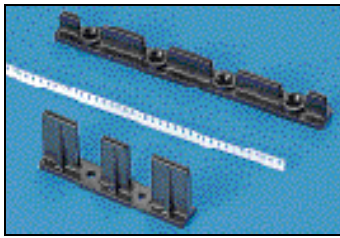
The "down" position allows easy harness removal.

Using an integral harness board nail, the fixture moves up and down (see photos) to form "T" junction. Unique design reduces cable tie usage by 1/3 compared to other fixtures.



| Part Number | Max. Dia. In (mm) | Dimensions Inches (mm) | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|-------------------|------------------------|-----------|-------------|------------|-------------|--------------------------------------|-----------------|----------------|----------------|
| | | A | B | C | D | E | | | | |
| TJF-X | 1.34 (34.0) | .75 (19.1) | .12 (3.0) | 1.39 (35.1) | .70 (17.8) | 1.12 (28.4) | Black Acetal and Nickel Plated Steel | Integral Nail | 10 | 100 |

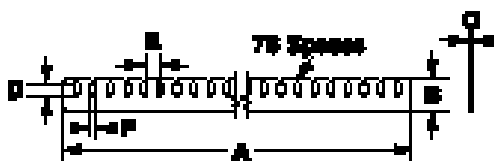
Fanning Strip System



Assures that wires are held in a particular orientation in sophisticated wiring harnesses. Consists of fanning strip and fanning strip holder.

| Part Number | Dimensions Inches (mm) | | | | | | Material & Color | Mounting Method | Std. Pkg. Qty. |
|-------------|------------------------|-------------|------------|-------------|------------|-----------|------------------|----------------------|----------------|
| | A | B | C | D | E | F | | | |
| FS156-C | 12.0 (304.8) | .31 (7.9) | .04 (1.0) | .12 (3.0) | .156 (4.0) | .06 (1.5) | Nylon | Fanning Strip Holder | 100 |
| FSH40-X | 6.0 (152.4) | .62 (15.7) | .56 (14.2) | 1.50 (38.1) | .75 (19.0) | .04 (1.0) | ABS | #8 (M4) Screw | 10 |
| FSHH-X | 3.22 (82) | 1.38 (35.1) | .57 (14.5) | 1.12 (28.4) | .53 (13.5) | .04 (1.0) | ABS | | 10 |

Fanning Strip (FS156)



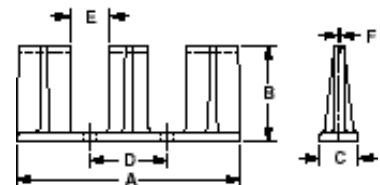
Contains evenly spaced "snap slots" to hold wires in place. No sharp edges to damage wire insulation. Becomes part of the wiring harness. Will accept wires up to 18 AWG. Used with FSH40 or FSHH holders.

Low Holder (FSH40-X)



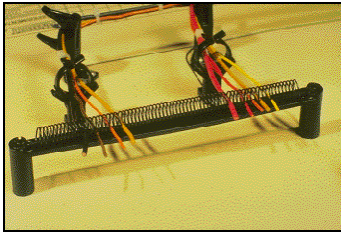
Designed to hold FS156 Fanning Strip securely in place while wires are inserted into fanning strip.

High Holder (FSHH-X)



Used in conjunction with RER.75-S6, BR.75-E6 (BR.5-E6) and CPH.75-S8. Ideal for use with PAT cable tie tool. (See Page 10.)

Spring Wire Breakout System



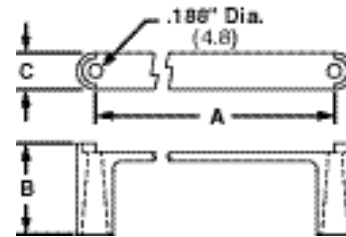
Consists of harness board springs and spring holders to hold wire ends taut. When harness is removed from board, wires simply pull from spring.

PBSC Spring Wire Breakout



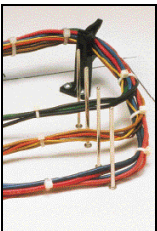
SHH Spring Holder

Each SHH Spring Holder is supplied with (1) rigid wire piece to hold the spring laterally and two #8 (M4) 2" (50.8mm) hex head wood screws. Two sizes available for use with PBSC1 and PBSC6.

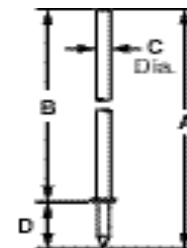


| Part Number | Dimensions Inches (mm) | | | Material & Color | Mounting Method | Packaging | |
|-------------|------------------------|------------|------------|------------------------|--|----------------|----------------|
| | A | B | C | | | Std. Pkg. Qty. | Std. Ctn. Qty. |
| PBSC1-X | 1.00 (25.4) | .44 (11.2) | — | .035" (.9) Thick Steel | Used with SHH1 Spring Holder | 10 | 100 |
| PBSC3-X | 3.00 (76.2) | | — | | — | 10 | 100 |
| PBSC6-X | 6.00 (152.4) | | — | | Used with SHH3 Spring Holder | 10 | 100 |
| PBSC12-X | 12.00 (304.8) | | — | | — | 10 | — |
| SHH1-S8-X | 1.90 (48.3) | 1.30 (33) | .50 (12.7) | Nylon | Two #8 (M4) 2" (50.8) Screws used with PBSC1 | 10 | — |
| SHH3-S8-X | 7.00 (177.8) | | | | Two #8 (M4) 2" (50.8) Screws used with PBSC6 | 10 | — |

Harness Board Nails

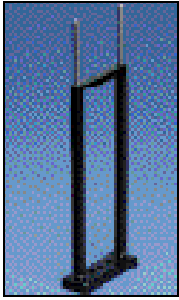


Speeds routing of wires. All have a uniform driving depth insured by collar stop.

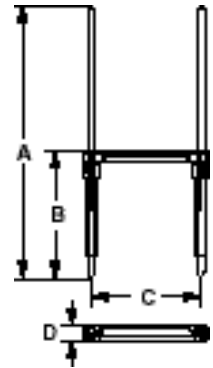


| Part Number | A | B | C | D | Material | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|--------------|--------------|------------|------------|-------------------------|-----------------------------|----------------|----------------|
| HBN.75-T | 1.40 (35.6) | .78 (19.8) | .073 (1.9) | .62 (15.9) | Hardened Tempered Steel | Hammered into Harness Board | 200 | 1000 |
| HBN1-T | 1.65 (41.9) | 1.03 (26.2) | .073 (1.9) | | | | 200 | 1000 |
| HBN1.5-T | 2.15 (54.6) | 1.53 (38.4) | .082 (2.1) | | | | 200 | 1000 |
| HBN2-T | 2.65 (67.3) | 2.03 (51.6) | .093 (2.4) | | | | 200 | 1000 |
| HNB2.5-T | 3.17 (80.5) | 2.55 (64.8) | .110 (2.8) | | | | 200 | 1000 |
| HBN3-T | 3.67 (93.2) | 3.05 (77.5) | .120 (3.0) | | | | 200 | 1000 |
| HBN4-T | 4.67 (118.6) | 4.03 (102.9) | .144 (3.7) | | | | 200 | 1000 |

Harness Board Platform

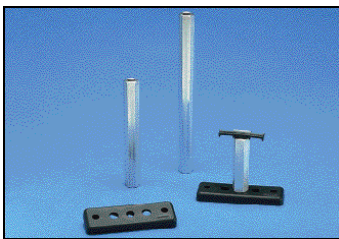


Elevates the bundle of wires from the harness board to allow the installation of Abrasion Protection products and the use of *PANDUIT* automatic cable tie tools. The platform is used as a template to mark the location of the nails. The nails are driven into the board with a hammer. The plastic sleeve slides over each nail.

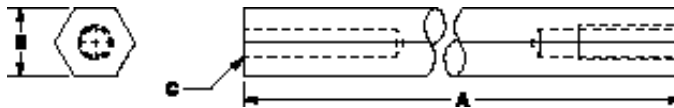


| Part Number | Max. Bundle Dia. In (mm) | Dimensions Inches (mm) | | | | Material | Mounting Method | Packaging | |
|-------------|--------------------------|------------------------|-----------------|----------------|---------------|---|---------------------------------|----------------|----------------|
| | | A | B | C | D | | | Std. Pkg. Qty. | Std. Ctn. Qty. |
| HB1P4-X | 1.00 (25.4) | 5.00 (127.0) | 4.00 (101.6) | 1.32 (33.5) | .375 (9.5) | Nylon platform, vinyl spacer, tempered steel nails | Driven into harness board | 10 | 100 |
| HB1P6-X | | 7.00 (203.2) | 6.00 (152.4) | | | | | 10 | 100 |
| HB2P4-X | 2.00 (51) | 6.00 (152.4) | 4.00 (101.6) | 2.32 (58.9) | | | | 10 | 100 |
| HB2P6-X | | 8.00 (203.2) | 6.00 (152.4) | | | | | 10 | 100 |

Harness Board Standoff Post

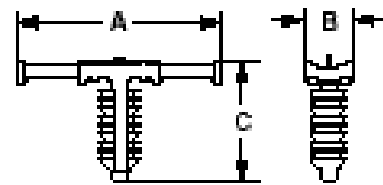


Used to hold a push mount accessory or push mount cable tie at a specific location on a harness board. The Standoff Post is placed over a hole in the harness board, a bolt is then threaded into the bottom of the standoff from the backside of the board and tightened. Push mount accessories are inserted into the top of the Standoff Post prior to assembly. When the assembly is complete, the harness and the attached push mount are removed from the Standoff Post.

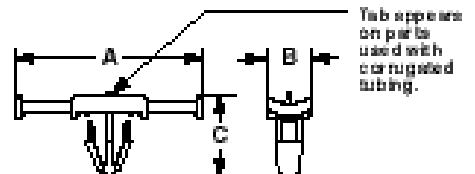


| Part Number | Dimensions Inches (mm) | | | Material | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. | |
|-------------|------------------------|---------------|---------------|----------|-----------------|----------------|---------------------------------------|-----|
| | A | B | C | | | | | |
| HB2SP19-X | 2.00 (51) | .50 (12.7) | .203 (5.1) | Aluminum | (M6) Screw | 10 | 100 | |
| HB4SP19-X | 4.00 (101.6) | | | | | .295 (7.5) | 10 | 100 |
| HB6SP19-X | 6.00 (152.4) | | | | | | 10 | 100 |
| HB2SP25-X | 2.00 (51) | | 10 | | | | 100 | |
| HB4SP25-X | 4.00 (101.6) | | 10 | | | 100 | | |
| THMSPXX-C | | | | | | | (See Page 9 for Complete Description) | |
| THMSCXX-C | | | | | | | | |

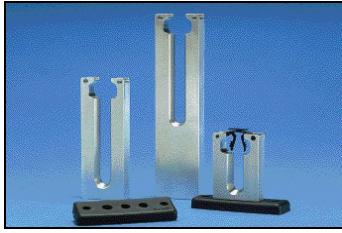
THMSC—Tree Barb Style



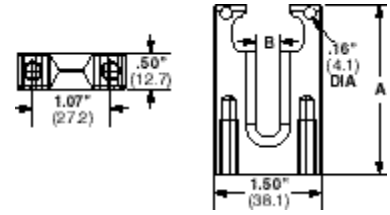
THMSP—Push Barb Style



Tie Harness Mount Fixture

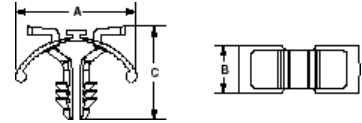


Used to hold and support the THM1SC Harness Mount. The mount is elevated from the harness board so that a cable tie can be installed by Panduit's automatic cable tie installation tools. The mount is pushed into the top of the fixture prior to assembly and pulled out of the fixture when the harness is complete.



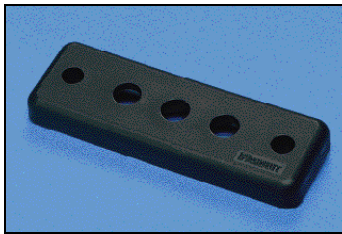
THMF

| Part Number | A | B | C | Material | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|-----------------|--------------|---------------|-----------------------|-----------------|----------------|----------------|
| THMF2-X | 2.08 (52.8) | .28 (7.1) | — | Aluminum | (M6) Screw | 10 | 50 |
| THMF4-X | 4.08 (103.6) | .34 (8.7) | — | | | 10 | 50 |
| THMF6-X | 6.08 (154.4) | .34 (8.7) | — | | | 10 | 50 |
| THM1SC-C | | | | Nylon (Natural Color) | Push | 100 | 1000 |
| THM1SC-C69 | .98 (24.8) | .38 (9.5) | .75 (19.1) | Black | | | |

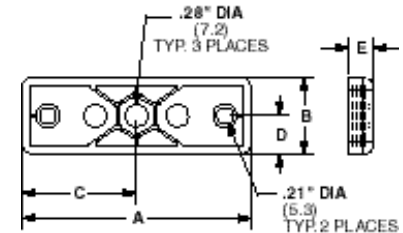


THM1SC

Harness Board Universal Adapter



Used with the Harness Board Standoff Post or the Harness Mount Fixture when mounting holes can not be drilled into the harness board. A bolt is inserted from the back side of the adapter and then is turned right side up. The adapter is now ready to be secured to the harness board by using self tapping screws.

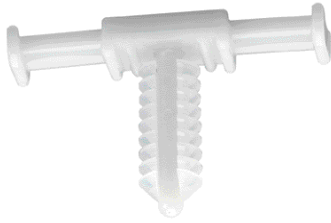


| Part Number | A | B | C | D | E | Material & Color | Mounting Method | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|--------------|----------------|----------------|---------------|--------------|------------------|-----------------|----------------|----------------|
| HBUA-X | 3.00 (77) | 1.00 (25.4) | 1.50 (38.1) | .50 (12.7) | .31 (7.9) | Black Nylon | Wood Screw | 10 | 100 |

Tie Harness Mounts — Using Two Cable Ties



Tie Harness Mounts are designed to be attached to the wire harness during assembly with 2 cable ties. Ties can be installed by hand or, more efficiently, with *PANDUIT* Automatic Cable Tie Tooling. Use with Harness Board Standoff Posts and Tie Harness Mount Fixtures (See pages 7 & 8). Available with or without corrugated tubing location tab.



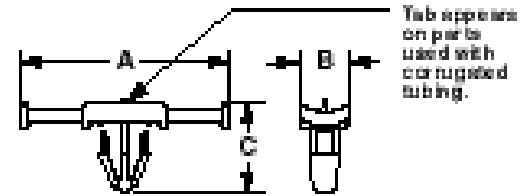
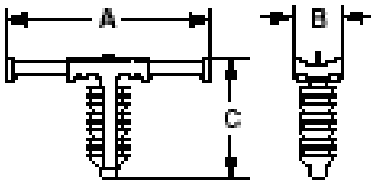
THMSC



THMSP

THMSC—Tree Barb Style

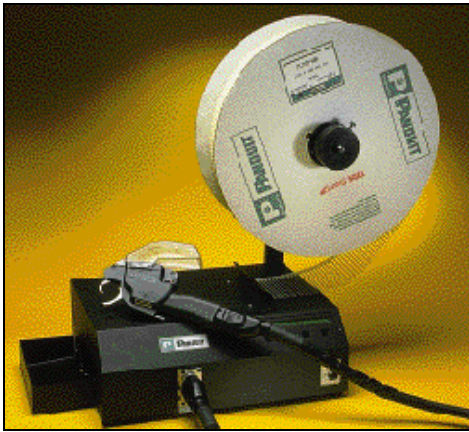
THMSP—Push Barb Style



| Part Number | Used With Cable Ties** | Dimensions inches (mm) | | | | Panel Dimensions | | Material | Color | Where Used | Mounting Method | Packaging | | | | | |
|--|------------------------|------------------------|-----------|------------|---|------------------|-------------------------|-----------------------|---------------|---------------------|-----------------|----------------|----------------|----------------|----------------|--|--|
| | | A | B | C | D | Thickness Max. | Hole Diameter | | | | | Std. Pkg. Qty. | Std. Ctn. Qty. | Bulk Pkg. Qty. | Bulk Ctn. Qty. | | |
| TREE MOUNT STYLE FOR CORRUGATED TUBING —A specially designed location tab on the mount shelf aligns with grooves in corrugated tubing ensuring proper mount location during assembly. | | | | | | | | | | | | | | | | | |
| THMSC35-C639 | M, I, S | 1.54 (39.1) | .37 (9.5) | .46 (11.7) | — | .25 (6.4) | .244 - .268 (6.2 - 6.8) | Heat Stabilized Nylon | Natural Black | Indoors/ High Temp. | Tree Barb | 100 | 1000 | 1000 | 5000 | | |
| THMSC35-C630 | | | | | | | | | | | | 100 | 1000 | 1000 | 5000 | | |
| FOR DISCRETE WIRING —There is no location tab for applications not requiring the use of corrugated tubing. | | | | | | | | | | | | | | | | | |
| THMSP20F-C | M, I, S | 1.54 (39.1) | .37 (9.5) | .47 (11.9) | — | .16 (4.1) | .244 - .283 (6.2 - 7.2) | Nylon | Natural | Indoors | Push Barb | 100 | 1000 | 1000 | 5000 | | |
| THMSP20F-C30 | | | | | | | | Heat Stabilized Nylon | Black | Indoors/ High Temp. | | 100 | 1000 | 1000 | 5000 | | |
| THMSP25F-C | | | | .54 (13.7) | — | .23 (5.8) | | Nylon | Natural | Indoors | | 100 | 1000 | 1000 | 5000 | | |
| THMSP25F-C30 | | | | | | | | Heat Stabilized Nylon | Black | Indoors/ High Temp. | | 100 | 1000 | 1000 | 5000 | | |

Cable Tie Cross Section Sizes: M = Miniature, I = Intermediate, S = Standard, LH = Light Heavy and H = Heavy.

PAT1M/PAT1.5M Automatic Cable Tie Installation System

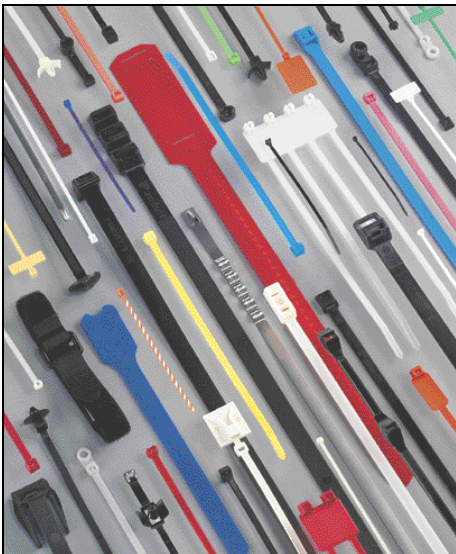


- System consists of a tool head, dispenser, feeder hose and reel of continuously molded cable ties (5000 per reel).
- System installs a cable tie in less than one second
- On-line help menu in English, Spanish, French, German or Italian
- Adjustable tension control
- Ergonomic and lightweight, no counter balance required
- Optional bench mount available

| Part Number | Description | Std. Pkg. Qty. |
|-------------|--|----------------|
| PAT1M | Tool head for cable ties up to .82" (21mm) bundle diameter | 1 |
| PAT1.5M | Tool head for cable ties up to 1.3" (33mm) bundle diameter | |
| PDM | Stationary dispenser | 1 |
| PHM1 | 3.2 ft (1m) feeder hose | 1 |
| PHM2 | 6.5 ft (2m) feeder hose | |
| PHM3 | 9.8 ft (3m) feeder hose | |
| PATMBM | Bench mount and foot pedal for PAT1M/PAT1.5M system | 1 |
| PDH10-37 | Airline | 1 |
| PL283N1 | Filter regulator | 1 |

- Slim, ergonomically designed handle for operator comfort and greater productivity
- Right or left hand operation

PANDUIT® Cable Ties — World Leader in Cable Ties and Harness Board Accessories



Panduit is the world's largest producer of cable ties and accessories, offering you the most complete selection of sizes, styles and materials. For harness manufacturing applications, *PANDUIT's* complete system of cable ties, harness board accessories and installation tooling provides the highest quality at the lowest installed cost. In addition, *PANDUIT* continually develops new cable tie and harness board accessories to meet your changing application challenges.

PANDUIT Cable Ties, Accessories and Installation Tooling are manufactured in an environment committed to design innovation, high quality and knowledgeable service to our customers. *PANDUIT* Cable Ties, Harness Board Accessories and Tooling provide system solutions for fast routing and forming as well as reliable and economical installations.

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Panduit Corp.
17301 Ridgeland Avenue
Tinley Park, IL 60477-3091
Phone: 888-506-5400, Ext. 7366
708-532-1800
FAX: 770-781-9076
Email: info@panduit.com
Website: www.panduit.com

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