

A. System Overview

Features and Benefits – Pan-Steel® Cable Ties

Panduit® Pan-Steel® Stainless Steel Ties are engineered for safety, productivity, and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength and tight clamping.

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

Self-Locking Head Construction

***Aggressive locking head**
Quicker locking, tighter installation

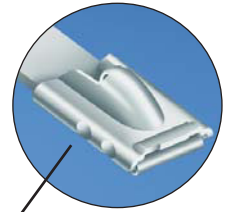
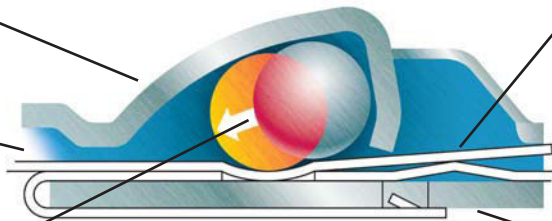
Unique locking ramp
Assures locking in any position

***Lead in design**
Wider entrance for easier threading

Strengthening ribs
Stronger head increases lock strength

***Innovative displacement lock**
Assures superior locking strength

Extended retaining tab
Increases overall tie strength



*Patented

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

Fully Rounded Edges

Self-Locking for Fast Installation



Panduit tie body



Other manufacturer's tie body

The Pan-Steel® Stainless Steel Cable Tie features fully rounded edges to assure bundle protection and operator safety. Panduit not only removes the burr, but actually passes the material through a secondary process which removes the top and bottom corners of the material.



Self-locking design can be fastened by hand requiring no fold over or additional installation steps.



Pan-Steel® Installation Tools for adjustable tension control and automatic cut-off for quick, consistent, and secure installation.

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index



Large selection of installation tools, the proper tool available to meet the requirements of every application. See pages B3.14 – B3.16.



Pan-Steel® System Accessories are used with Pan-Steel® Stainless Steel Cable Ties to speed and simplify the mounting of wires, cables, and tubing. Installation methods include screw mounts and push mounts. See pages B3.26 – B3.29.



Pan-Steel® Permanent Identification Solutions are designed for use with Panduit® Pan-Steel® Stainless Cable Ties and Pan-Alum™ Aluminum Cable Ties for quick and easy on-demand identification in harsh environments. See pages E4.1 – E4.6.

Part Number System for Pan-Steel® Cable Ties

| | | | | | |
|-------------------------|---------------------------------|--|---|--|----------------------------|
| MLT | 6 | S | — | CP | — |
| Type | Bundle Diameter Reference (In.) | Cross Section | | Standard Package Size | Material |
| MLT = Metal Locking Tie | | S = Standard LH = Light Heavy H = Heavy EH = Extra-Heavy EH15 = Extra-Heavy-15 SH = Super-Heavy | | Q = 25 L* = 50 LP** = 50 CP = 100 *Standard Cross Section **Heavy Cross Section | (blank) = 304 316 = 316 |

Pan-Steel® Self-Locking Cable Ties – MLT Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Provides a strong, durable method of cable bundling
- Can be used in a wide range of indoor, outdoor, and underground (including direct burial) applications
- Smooth surfaces and rounded edges assures cable protection and worker safety
- Available in AISI 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|----------------------|----|---------|----|------------------------------|---|----------------------|----|-------|----|-----------|----|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |

AISI 304 Stainless Steel – For General Purpose

Standard Cross Section

| | | | | | | | | | | | | | | | |
|-------------------|------|-----|------|------|-----|-----|------|------|------|-----|-------|------|---------------------------|-----|-----|
| MLT1S-CP | 1.0 | 25 | 5.0 | 127 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | GS4MT, HTMT, PPTMT, ST2MT | 100 | 500 |
| MLT2S-CP | 2.0 | 51 | 7.9 | 201 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLT2S-L | 2.0 | 51 | 7.9 | 201 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 50 | 500 |
| MLT2.7S-CP | 2.7 | 69 | 10.2 | 259 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLT4S-CP | 4.0 | 102 | 14.3 | 362 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLT4S-L | 4.0 | 102 | 14.3 | 362 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 50 | 500 |
| MLT6S-CP | 6.0 | 152 | 20.5 | 521 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLT8S-CP | 8.0 | 203 | 26.8 | 679 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLT10S-CP | 10.0 | 254 | 33.0 | 838 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLT12S-Q | 12.0 | 304 | 39.3 | 998 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 25 | 125 |
| MLT14S-Q | 14.0 | 355 | 45.5 | 1156 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 25 | 125 |
| MLT15S-Q | 15.0 | 380 | 49.2 | 1250 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 25 | 125 |

*Other lengths available, contact Panduit Customer Service.

**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.

***For information on installation tools, refer to pages B3.14 – B3.16.

Table continued on page B3.6

A. System Overview



Pan-Steel® Self-Locking Cable Ties – MLT Series (continued)

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. | |
|---|----------------------|-----|---------|------|------------------------------|------|----------------------|------|-------|------|-----------|------|----------------------------------|-----------------------------|----------------|-----|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | | |
| Light-Heavy Cross Section | | | | | | | | | | | | | | | | |
| MLT2LH-LP | 2.0 | 51 | 7.9 | 201 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | GS4MT, HTMT, PPTMT, ST2MT | 50 | 250 | |
| MLT4LH-LP | 4.0 | 102 | 14.3 | 362 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | | 50 | 250 | |
| MLT6LH-LP | 6.0 | 152 | 20.5 | 521 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | | 50 | 250 | |
| MLT8LH-LP | 8.0 | 203 | 26.8 | 679 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | | 50 | 250 | |
| Heavy Cross Section | | | | | | | | | | | | | | | | |
| MLT2H-LP | 2.0 | 51 | 7.9 | 201 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | 50 | 250 | |
| MLT2.7H-LP | 2.7 | 69 | 10.2 | 259 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 | |
| MLT4H-LP | 4.0 | 102 | 14.3 | 362 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 | |
| MLT6H-LP | 6.0 | 152 | 20.5 | 521 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 | |
| MLT8H-LP | 8.0 | 203 | 26.8 | 679 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 | |
| MLT10H-LP | 10.0 | 254 | 33.0 | 838 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 | |
| MLT12H-Q | 12.0 | 304 | 39.3 | 998 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 25 | 125 | |
| MLT14H-Q | 14.0 | 355 | 45.5 | 1156 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 25 | 125 | |
| Extra-Heavy Cross Section | | | | | | | | | | | | | | | | |
| MLT4EH-LP | 4.0 | 102 | 17.1 | 434 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | ST2MT, RT2HT, RT2HTN, PBTMT | 50 | 250 |
| MLT6EH-LP | 6.0 | 152 | 23.4 | 594 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | 50 | | 250 | |
| MLT8EH-LP | 8.0 | 203 | 29.7 | 754 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | 50 | | 250 | |
| MLT10EH-LP | 10.0 | 254 | 35.9 | 912 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | 50 | | 250 | |
| MLT12EH-Q | 12.0 | 305 | 42.2 | 1072 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | 25 | | 125 | |
| MLT4EH15-LP | 4.0 | 102 | 17.1 | 434 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MLT6EH15-LP | 6.0 | 152 | 23.4 | 594 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MLT8EH15-LP | 8.0 | 203 | 29.7 | 754 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MLT10EH15-LP | 10.0 | 254 | 35.9 | 912 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MLT12EH15-Q | 12.0 | 305 | 42.2 | 1072 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 25 | | 125 | |
| Super-Heavy Cross Section | | | | | | | | | | | | | | | | |
| MLT4SH-LP | 4.0 | 102 | 17.1 | 434 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | 50 | 250 | |
| MLT6SH-LP | 6.0 | 152 | 23.4 | 594 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| MLT8SH-LP | 8.0 | 203 | 29.7 | 754 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| MLT10SH-LP | 10.0 | 254 | 35.9 | 912 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| MLT12SH-Q | 12.0 | 305 | 42.2 | 1072 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 25 | 125 | |
| AISI 316 Stainless Steel – For Superior Corrosion Resistance | | | | | | | | | | | | | | | | |
| Standard Cross Section | | | | | | | | | | | | | | | | |
| MLT1S-CP316 | 1.0 | 25 | 5.0 | 127 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | GS4MT, HTMT, PPTMT, ST2MT | 100 | 500 | |
| MLT2S-CP316 | 2.0 | 51 | 7.9 | 201 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 | |
| MLT2.7S-CP316 | 2.7 | 69 | 10.2 | 259 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 | |
| MLT4S-CP316 | 4.0 | 102 | 14.3 | 362 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 | |
| MLT6S-CP316 | 6.0 | 152 | 20.5 | 521 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 | |
| MLT8S-CP316 | 8.0 | 203 | 26.8 | 679 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 | |
| MLT10S-CP316 | 10.0 | 254 | 33.0 | 838 | 200 | 890 | 0.50 | 12.7 | 0.18 | 4.6 | 0.010 | 0.25 | 100 | 500 | | |
| Light-Heavy Cross Section | | | | | | | | | | | | | | | | |
| MLT2LH-LP316 | 2.0 | 51 | 7.9 | 201 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | GS4MT, HTMT, PPTMT, ST2MT | 50 | 250 | |
| MLT4LH-LP316 | 4.0 | 102 | 14.3 | 362 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | | 50 | 250 | |
| MLT6LH-LP316 | 6.0 | 152 | 20.5 | 521 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | | 50 | 250 | |
| MLT8LH-LP316 | 8.0 | 203 | 26.8 | 679 | 250 | 1112 | 0.50 | 12.7 | 0.25 | 6.4 | 0.010 | 0.25 | | 50 | 250 | |

*Other lengths available, contact Panduit Customer Service.
 **Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.
 ***For information on installation tools, refer to pages B3.14 – B3.16.



Pan-Steel® Self-Locking Cable Ties – MLT Series (continued)

| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|----------------------------------|----------------------|-----|---------|-----|------------------------------|------|----------------------|------|-------|------|-----------|------|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |
| Heavy Cross Section | | | | | | | | | | | | | | | |
| MLT2H-LP316 | 2.0 | 51 | 7.9 | 201 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | 50 | 250 |
| MLT2.7H-LP316 | 2.7 | 69 | 10.2 | 259 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLT4H-LP316 | 4.0 | 102 | 14.3 | 362 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLT6H-LP316 | 6.0 | 152 | 20.5 | 521 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLT8H-LP316 | 8.0 | 203 | 26.8 | 679 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLT10H-LP316 | 10.0 | 254 | 33.0 | 838 | 450 | 2000 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| Extra-Heavy Cross Section | | | | | | | | | | | | | | | |
| MLT4EH-LP316 | 4.0 | 102 | 17.1 | 434 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | 50 | 250 |
| MLT6EH-LP316 | 6.0 | 152 | 23.4 | 594 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | 50 | 250 |
| MLT8EH-LP316 | 8.0 | 203 | 29.7 | 754 | 600 | 2670 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | 50 | 250 |
| MLT4EH15-LP316 | 4.0 | 102 | 17.1 | 434 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| MLT6EH15-LP316 | 6.0 | 152 | 23.4 | 594 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| MLT8EH15-LP316 | 8.0 | 203 | 29.7 | 754 | 700 | 3115 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| Super-Heavy Cross Section | | | | | | | | | | | | | | | |
| MLT4SH-LP316 | 4.0 | 102 | 17.1 | 434 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | 50 | 250 |
| MLT6SH-LP316 | 6.0 | 152 | 23.4 | 594 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |
| MLT8SH-LP316 | 8.0 | 203 | 29.7 | 754 | 900 | 4005 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |

*Other lengths available, contact Panduit Customer Service.

**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.

***For information on installation tools, refer to pages B3.14 – B3.16.

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Stainless
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C3.
Abrasion
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C4.
Cable
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Power
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E1. Labeling Systems

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E3. Pre-Printed & Write-On Markers

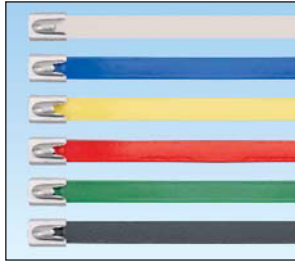
E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

Pan-Steel® Polyester Fully Coated Cable Ties – MLTFC Series

- Polyester coating available in six color options provides visual indication for easy identification in color-coding applications (heavy cross section only)
- Self-locking head design speeds installation and locks into place at any length along the tie body
- Polyester coating provides additional edge protection and prevents corrosion between dissimilar metals
- AISI 316 stainless steel for the most corrosive environments
- Available in standard, heavy, extra-heavy and super-heavy cross sections
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 302°F (150°C)



| Part Number | Max. Bundle Diameter | | Length* | | Color | Min. Loop Tensile Strength** | | Width | | Thickness^ | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|---------------------------------|----------------------|-----|---------|-----|-------|------------------------------|-----|-------|-----|------------|------|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | | Lbs. | N | In. | mm | In. | mm | | | |
| Standard Cross Section^^ | | | | | | | | | | | | | | |
| MLTFC2S-CP316 | 2.0 | 51 | 7.9 | 201 | Black | 100 | 445 | 0.18 | 4.6 | 0.010 | 0.25 | GS4MT, HTMT, PPTMT, ST2MT | 100 | 500 |
| MLTFC4S-CP316 | 4.0 | 102 | 14.3 | 362 | Black | 100 | 445 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLTFC6S-CP316 | 6.0 | 152 | 20.5 | 521 | Black | 100 | 445 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |
| MLTFC8S-CP316 | 8.0 | 203 | 26.8 | 679 | Black | 100 | 445 | 0.18 | 4.6 | 0.010 | 0.25 | | 100 | 500 |

| | | | | | | | | | | | | | | |
|------------------------------|-----|-----|------|-----|--------|-----|------|------|-----|-------|------|----------------------------------|-----|-----|
| Heavy Cross Section^^ | | | | | | | | | | | | | | |
| MLTFC2H-LP316RD | 2.0 | 51 | 7.9 | 201 | Red | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | 50 | 250 |
| MLTFC4H-LP316RD | 4.0 | 102 | 14.3 | 362 | Red | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC6H-LP316RD | 6.0 | 152 | 20.5 | 521 | Red | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC2H-LP316YL | 2.0 | 51 | 7.9 | 201 | Yellow | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC4H-LP316YL | 4.0 | 102 | 14.3 | 362 | Yellow | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC6H-LP316YL | 6.0 | 152 | 20.5 | 521 | Yellow | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC2H-LP316GR | 2.0 | 51 | 7.9 | 201 | Green | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC4H-LP316GR | 4.0 | 102 | 14.3 | 362 | Green | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC6H-LP316GR | 6.0 | 152 | 20.5 | 521 | Green | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC2H-LP316BU | 2.0 | 51 | 7.9 | 201 | Blue | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC4H-LP316BU | 4.0 | 102 | 14.3 | 362 | Blue | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC6H-LP316BU | 6.0 | 152 | 20.5 | 521 | Blue | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC2H-LP316WH | 2.0 | 51 | 7.9 | 201 | White | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC4H-LP316WH | 4.0 | 102 | 14.3 | 362 | White | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC6H-LP316WH | 6.0 | 152 | 20.5 | 521 | White | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC2H-LP316 | 2.0 | 51 | 7.9 | 201 | Black | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC4H-LP316 | 4.0 | 102 | 14.3 | 362 | Black | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | 50 | 250 | |
| MLTFC6H-LP316 | 6.0 | 152 | 20.5 | 521 | Black | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | 50 | 250 | |
| MLTFC8H-LP316 | 8.0 | 203 | 26.8 | 679 | Black | 250 | 1112 | 0.31 | 7.9 | 0.010 | 0.25 | 50 | 250 | |

| | | | | | | | | | | | | | | |
|------------------------------------|-----|-----|------|-----|-------|-----|------|------|------|-------|------|-----------------------------|----|-----|
| Extra-Heavy Cross Section^^ | | | | | | | | | | | | | | |
| MLTFC4EH-LP316 | 4.0 | 102 | 17.1 | 434 | Black | 300 | 1335 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | 50 | 250 |
| MLTFC6EH-LP316 | 6.0 | 152 | 23.4 | 594 | Black | 300 | 1335 | 0.50 | 12.7 | 0.010 | 0.25 | | 50 | 250 |
| MLTFC8EH-LP316 | 8.0 | 203 | 29.7 | 754 | Black | 300 | 1335 | 0.50 | 12.7 | 0.010 | 0.25 | | 50 | 250 |

| | | | | | | | | | | | | | | |
|------------------------------------|-----|-----|------|-----|-------|-----|------|------|------|-------|------|----------------------|----|-----|
| Super-Heavy Cross Section^^ | | | | | | | | | | | | | | |
| MLTFC4SH-LP316 | 4.0 | 102 | 17.1 | 434 | Black | 450 | 2000 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | 50 | 250 |
| MLTFC6SH-LP316 | 6.0 | 152 | 23.4 | 594 | Black | 450 | 2000 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |
| MLTFC8SH-LP316 | 8.0 | 203 | 29.7 | 754 | Black | 450 | 2000 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |

*Other lengths available, contact Panduit Customer Service.
 **Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.
 ***For information on installation tools, refer to pages B3.14 – B3.16.
 ^Base material less coating. ^^Minimum bundle diameter is .50"(12.7mm). ^^Minimum bundle diameter is 1.0"(25.4mm).

Pan-Steel® Nylon 11 Selectively Coated Cable Ties – MLTC Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Nylon 11 coating provides additional edge protection and prevents corrosion between dissimilar metals
- AISI 316 stainless steel for the most corrosive environments
- Available in heavy cross section
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 285°F (140°C)



| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness^ | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|--|----------------------|-----|---------|-----|------------------------------|------|----------------------|------|-------|-----|------------|------|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |
| AISI 316 Stainless Steel – For Nylon 11 Selectively Coated Cable Ties | | | | | | | | | | | | | | | |
| Heavy Cross Section | | | | | | | | | | | | | | | |
| MLTC2H-LP316 | 2.0 | 51 | 7.9 | 201 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | 50 | 250 |
| MLTC4H-LP316 | 4.0 | 102 | 14.3 | 362 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTC6H-LP316 | 6.0 | 152 | 20.5 | 521 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTC8H-LP316 | 8.0 | 203 | 26.8 | 679 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLTC10H-LP316 | 10.0 | 254 | 33.0 | 838 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |

*Other lengths available, contact Panduit Customer Service.
 **Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.
 ***For information on installation tools, refer to pages B3.14 – B3.16.
 ^Base material less coating.

- A. System Overview
- B1. Cable Ties
- B2. Cable Accessories
- B3. Stainless Steel Ties
- C1. Wiring Duct
- C2. Surface Raceway
- C3. Abrasion Protection
- C4. Cable Management
- D1. Terminals
- D2. Power Connectors
- D3. Grounding Connectors
- E1. Labeling Systems
- E2. Labels
- E3. Pre-Printed & Write-On Markers
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- E5. Lockout/Tagout & Safety Solutions
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A. System Overview

Pan-Alum™ Aluminum Cable Ties – MLT Series

B1. Cable Ties

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Lightweight, aluminum construction for flexibility and ease of handling
- Five color options in addition to natural aluminum finish for color-coding applications
- Smooth surfaces and rounded edges assures cable protection and worker safety
- For use with Pan-Alum™ Marker Plates on page E4.5, for fast installation at the lowest installed cost

B2. Cable Accessories

B3. Stainless Steel Ties



C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

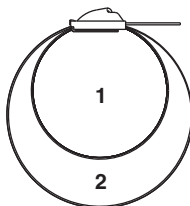
| Part Number | Max. Bundle Diameter | | Length | | Color | Min. Loop Tensile Strength* | | Min. Bundle Diameter | | Width | | Thickness | | Recommended Installation Tool** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|---------------------|----------------------|-----|--------|-----|----------|-----------------------------|-----|----------------------|------|-------|-----|-----------|------|---------------------------------|----------------|----------------|
| | In. | mm | In. | mm | | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |
| MLT1H-LPALBL | 1.0 | 25 | 5.5 | 140 | Black | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | ST2MT, HTMT | 50 | 250 |
| MLT2H-LPALBL | 2.0 | 51 | 7.9 | 201 | Black | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT4H-LPALBL | 4.0 | 102 | 14.3 | 362 | Black | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT1H-LPALRD | 1.0 | 25 | 5.5 | 140 | Red | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT2H-LPALRD | 2.0 | 51 | 7.9 | 201 | Red | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT4H-LPALRD | 4.0 | 102 | 14.3 | 362 | Red | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT1H-LPALYL | 1.0 | 25 | 5.5 | 140 | Yellow | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT2H-LPALYL | 2.0 | 51 | 7.9 | 201 | Yellow | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT4H-LPALYL | 4.0 | 102 | 14.3 | 362 | Yellow | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT1H-LPALGR | 1.0 | 25 | 5.5 | 140 | Green | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT2H-LPALGR | 2.0 | 51 | 7.9 | 201 | Green | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT4H-LPALGR | 4.0 | 102 | 14.3 | 362 | Green | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT1H-LPALBU | 1.0 | 25 | 5.5 | 140 | Blue | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT2H-LPALBU | 2.0 | 51 | 7.9 | 201 | Blue | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT4H-LPALBU | 4.0 | 102 | 14.3 | 362 | Blue | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT1H-LPAL | 1.0 | 25 | 5.5 | 140 | Aluminum | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT2H-LPAL | 2.0 | 51 | 7.9 | 201 | Aluminum | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |
| MLT4H-LPAL | 4.0 | 102 | 14.3 | 362 | Aluminum | 50 | 222 | 0.50 | 12.7 | 0.31 | 7.9 | 0.012 | 0.03 | | 50 | 250 |

*Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.

**For information on installation tools, refer to page B3.15.

Pan-Steel® Double Wrapped Cable Ties – MLTD Series

- Self-locking head design speeds installation and locks into place at any length along the tie body
- Cable tie body passes through the head two times for additional strength
- Available in heavy, extra-heavy, and super-heavy cross sections
- Available in AISI 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments
- Super-heavy double wrapped tested for short circuit applications up to 71.5 kA



| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|----------------------|----|---------|----|------------------------------|---|----------------------|----|-------|----|-----------|----|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |

AISI 304 Stainless Steel – MLTD Double Wrapped Ties

Heavy Cross Section

| | | | | | | | | | | | | | | | |
|-----------------|-----|-----|------|------|-----|------|------|------|------|-----|-------|------|---------------------------|----|-----|
| MLT2DH-L | 2.0 | 51 | 18.5 | 470 | 600 | 2670 | 1.00 | 25.4 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, HTMT, PPTMT, ST2MT | 50 | 250 |
| MLT4DH-L | 4.0 | 102 | 28.0 | 711 | 600 | 2670 | 1.00 | 25.4 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLT5DH-L | 5.0 | 127 | 34.0 | 863 | 600 | 2670 | 1.00 | 25.4 | 0.31 | 7.9 | 0.010 | 0.25 | | 50 | 250 |
| MLT6DH-Q | 6.0 | 152 | 40.0 | 1016 | 600 | 2670 | 1.00 | 25.4 | 0.31 | 7.9 | 0.010 | 0.25 | | 25 | 250 |

Extra-Heavy Cross Section

| | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|------|------|------|------|------|-------|------|-----------------------------|----|-----|
| MLT4DEH-Q | 4.0 | 102 | 29.5 | 749 | 800 | 3560 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | 25 | 125 |
| MLT6DEH-Q | 6.0 | 152 | 41.5 | 1054 | 800 | 3560 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | 25 | 125 |
| MLT8DEH-Q | 8.0 | 203 | 53.5 | 1359 | 800 | 3560 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | 25 | 125 |
| MLT4DEH15-Q | 4.0 | 102 | 29.5 | 749 | 1000 | 4450 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 25 | 125 |
| MLT6DEH15-Q | 6.0 | 152 | 41.5 | 1054 | 1000 | 4450 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 25 | 125 |
| MLT8DEH15-Q | 8.0 | 203 | 53.5 | 1359 | 1000 | 4450 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 25 | 125 |

Super-Heavy Cross Section

| | | | | | | | | | | | | | | | |
|------------------|-----|-----|------|------|------|------|------|------|------|------|-------|------|----------------------|----|-----|
| MLT4DSH-Q | 4.0 | 102 | 29.5 | 749 | 1200 | 5340 | 1.00 | 25.4 | 0.62 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | 25 | 125 |
| MLT6DSH-Q | 6.0 | 152 | 41.5 | 1054 | 1200 | 5340 | 1.00 | 25.4 | 0.62 | 15.9 | 0.015 | 0.38 | | 25 | 125 |
| MLT8DSH-Q | 8.0 | 203 | 53.5 | 1359 | 1200 | 5340 | 1.00 | 25.4 | 0.62 | 15.9 | 0.015 | 0.38 | | 25 | 125 |

AISI 316 Stainless Steel – For MLTD Double Wrapped Ties

Extra-Heavy Cross Section

| | | | | | | | | | | | | | | | |
|-----------------------|-----|-----|------|------|------|------|------|------|------|------|-------|------|-----------------------------|----|-----|
| MLT4DEH-Q316 | 4.0 | 102 | 29.5 | 749 | 800 | 3560 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | 25 | 125 |
| MLT6DEH-Q316 | 6.0 | 152 | 41.5 | 1054 | 800 | 3560 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | 25 | 125 |
| MLT8DEH-Q316 | 8.0 | 203 | 53.5 | 1359 | 800 | 3560 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | | 25 | 125 |
| MLT4DEH15-Q316 | 4.0 | 102 | 29.5 | 749 | 1000 | 4450 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 25 | 125 |
| MLT6DEH15-Q316 | 6.0 | 152 | 41.5 | 1054 | 1000 | 4450 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 25 | 125 |
| MLT8DEH15-Q316 | 8.0 | 203 | 53.5 | 1359 | 1000 | 4450 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 25 | 125 |

Super-Heavy Cross Section

| | | | | | | | | | | | | | | | |
|---------------------|-----|-----|------|------|------|------|------|------|------|------|-------|------|----------------------|----|-----|
| MLT4DSH-Q316 | 4.0 | 102 | 29.5 | 749 | 1200 | 5340 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | 25 | 125 |
| MLT6DSH-Q316 | 6.0 | 152 | 41.5 | 1054 | 1200 | 5340 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 25 | 125 |
| MLT8DSH-Q316 | 8.0 | 203 | 53.5 | 1359 | 1200 | 5340 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 25 | 125 |

*Other lengths available, contact Panduit Customer Service.

**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.

***For information on installation tools, refer to pages B3.14 – B3.16.

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System
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Index

A. System Overview

Pan-Steel® Custom Length Banding – MBS, MBH, MBEH and MBSH Series

B1. Cable Ties

- For applications that require various bundle diameters
- Supplied in reels of 82.50 feet (25.0m), 200.00 feet (60.9m), 250.00 feet (76.2m) or 1000.00 feet (304.8m)
- Provides job site versatility with minimum inventory
- Packaging speeds removal of steel and includes bundle diameter cut-off guide

Polyester coating (optional):

- Polyester coating provides additional edge protection and prevents corrosion between dissimilar metals
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 302°F (150°C)
- AISI 316 stainless steel for the most corrosive environments

B2. Cable Accessories

B3. Stainless Steel Ties



C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

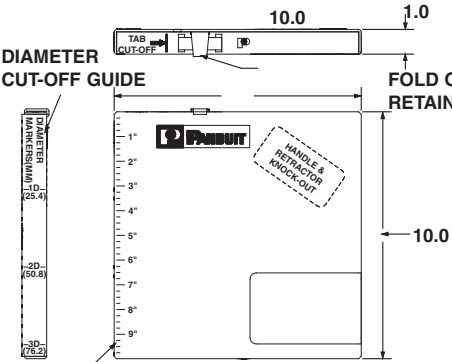
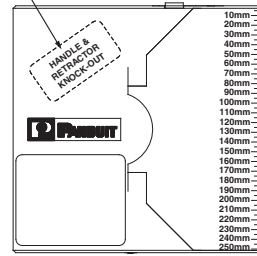
C4. Cable Management

KNOCK-OUT HANDLE LOCATION (BOTH SIDES)

METRIC MEASURE

DIAMETER CUT-OFF GUIDE

FOLD OVER RETAINER TAB



ENGLISH MEASURE

| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness^ | | Recommended Installation Tool*** | Recommended Banding Head | Std. Pkg. Qty.‡ |
|---|----------------------|-----|---------|-----|------------------------------|------|----------------------|------|-------|------|------------|------|----------------------------------|--------------------------|-----------------|
| | In. | mm | Ft. | m | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |
| AISI 304 Stainless Steel — For General Purpose Banding | | | | | | | | | | | | | | | |
| Standard Cross Section | | | | | | | | | | | | | | | |
| MBS-TLR | Any | Any | 250 | 76 | 100 | 445 | 0.50 | 12.7 | 0.18 | 4.4 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT | MTHS-C | 1 |
| MBS-MR | Any | Any | 1000 | 305 | 100 | 445 | 0.50 | 12.7 | 0.18 | 4.4 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT | MTHS-C | 1 |
| Heavy Cross Section | | | | | | | | | | | | | | | |
| MBH-TLR | Any | Any | 250 | 76 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | MTHH-C | 1 |
| MBH-MR | Any | Any | 1000 | 305 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | MTHH-C | 1 |
| Extra-Heavy Cross Section | | | | | | | | | | | | | | | |
| MBEH-TLR | Any | Any | 250 | 76 | 300 | 1335 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | MTHEH-C | 1 |
| Super-Heavy Cross Section | | | | | | | | | | | | | | | |
| MBSH-TR | Any | Any | 200 | 61 | 450 | 2000 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | MTHSH-C | 1 |

AISI 316 Stainless Steel — For Superior Corrosion Resistance

Standard Cross Section

| | | | | | | | | | | | | | | | |
|-------------------|-----|-----|------|-----|-----|-----|------|------|------|-----|-------|------|---------------------------|-----------|---|
| MBS-TLR316 | Any | Any | 250 | 76 | 100 | 445 | 0.50 | 12.7 | 0.18 | 4.4 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT | MTHS-C316 | 1 |
| MBS-MR316 | Any | Any | 1000 | 305 | 100 | 445 | 0.50 | 12.7 | 0.18 | 4.4 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT | MTHS-C316 | 1 |

Heavy Cross Section

| | | | | | | | | | | | | | | | |
|-------------------|-----|-----|------|-----|-----|------|------|------|------|-----|-------|------|----------------------------------|-----------|---|
| MBH-TLR316 | Any | Any | 250 | 76 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | MTHH-C316 | 1 |
| MBH-MR316 | Any | Any | 1000 | 305 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | MTHH-C316 | 1 |

Extra-Heavy Cross Section

| | | | | | | | | | | | | | | | |
|--------------------|-----|-----|-----|----|-----|------|------|------|------|------|-------|------|-----------------------------|------------|---|
| MBEH-TLR316 | Any | Any | 250 | 76 | 300 | 1335 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | MTHEH-C316 | 1 |
|--------------------|-----|-----|-----|----|-----|------|------|------|------|------|-------|------|-----------------------------|------------|---|

Super-Heavy Cross Section

| | | | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|----|-----|------|------|------|------|------|-------|------|----------------------|------------|---|
| MBSH-TR316 | Any | Any | 200 | 61 | 450 | 2000 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | MTHSH-C316 | 1 |
|-------------------|-----|-----|-----|----|-----|------|------|------|------|------|-------|------|----------------------|------------|---|

*Other lengths available, contact Panduit Customer Service.

**Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.

***For information on installation tools, refer to pages B3.14 – B3.16.

^Base material less coating

‡Order in number of reels required.

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

Pan-Steel® Custom Length Banding – MBS, MBH, MBEH and MBSH Series

| Part Number | Max. Bundle Diameter | | Length* | | Min. Loop Tensile Strength** | | Min. Bundle Diameter | | Width | | Thickness^ | | Recommended Installation Tool*** | Recommended Banding Head | Std. Pkg. Qty.‡ |
|--|----------------------|-----|---------|----|------------------------------|------|----------------------|------|-------|------|------------|------|----------------------------------|--------------------------|-----------------|
| | In. | mm | Ft. | m | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |
| Polyester Coated AISI 316 Stainless Steel | | | | | | | | | | | | | | | |
| Heavy Cross Section | | | | | | | | | | | | | | | |
| MBCH-QR316 | Any | Any | 82 | 25 | 250 | 1112 | 0.50 | 12.7 | 0.31 | 7.9 | 0.010 | 0.25 | GS4MT, ST2MT, HTMT, PPTMT, PBTMT | MTHCH-C316 | 1 |
| Extra-Heavy Cross Section | | | | | | | | | | | | | | | |
| MBCEH-QR316 | Any | Any | 82 | 25 | 300 | 1335 | 1.00 | 25.4 | 0.50 | 12.7 | 0.010 | 0.25 | ST2MT, RT2HT, RT2HTN, PBTMT | MTHCEH-C316 | 1 |
| Super-Heavy Cross Section | | | | | | | | | | | | | | | |
| MBCSH-QR316 | Any | Any | 82 | 25 | 450 | 2000 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | RT2HT, RT2HTN, PBTMT | MTHCSH-C316 | 1 |

*Other lengths available, contact Panduit Customer Service.
 **Per SAE Standard AS23190/3 (formerly MIL). For additional details, refer to page B3.32.
 ***For information on installation tools, refer to pages B3.14 – B3.16.
 ^Base material less coating
 ‡Order in number of reels required.

To determine the proper amount of banding required, use the following formula:

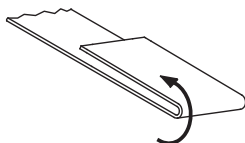
| | |
|--|--|
| Calculate S and H Cross Section | Diameter inches (mm) x 3.14 + 3 inches (76mm) |
| Calculate EH and SH Cross Section | Diameter inches (mm) x 3.14 + 4.5 inches (114mm) |

Pan-Steel® Custom Length Banding Heads – MTH Series

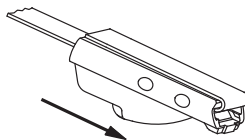
- Self-locking head design speeds installation and locks into place at any length along the tie body



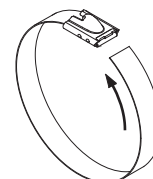
| Part Number | Part Description | Std. Pkg. Qty. | Std. Ctn. Qty. |
|--|--|----------------|----------------|
| AISI 304 Stainless Steel | | | |
| MTHS-C | Loose piece banding head for standard cross section banding. | 100 | 1000 |
| MTHH-C | Loose piece banding head for heavy cross section banding. | 100 | 1000 |
| MTHEH-C | Loose piece banding head for extra-heavy cross section banding. | 100 | 1000 |
| MTHSH-C | Loose piece banding head for super-heavy cross section banding. | 100 | 1000 |
| AISI 316 Stainless Steel | | | |
| MTHS-C316 | Loose piece banding head for standard cross section banding. | 100 | 1000 |
| MTHH-C316 | Loose piece banding head for heavy cross section banding. | 100 | 1000 |
| MTHEH-C316 | Loose piece banding head for extra-heavy cross section banding. | 100 | 1000 |
| MTHSH-C316 | Loose piece banding head for super-heavy cross section banding. | 100 | 1000 |
| AISI 316 Coated Stainless Steel | | | |
| MTHCH-C316 | Loose piece coated banding head for heavy cross section banding. | 100 | 1000 |
| MTHCEH-C316 | Loose piece coated banding head for extra-heavy cross section banding. | 100 | 1000 |
| MTHCSH-C316 | Loose piece coated banding head for super-heavy cross section banding. | 100 | 1000 |



1) Take one end of the cut banding and bend back 1/2" (13mm).



2) Take a self-locking head and slide it the entire length of the band until it reaches the bend.



3) Bend tail flat against bottom of banding head to complete assembly.

A.
System
Overview

GS4MT Hand Operated Installation Tool

B1.
Cable Ties

- Single handle operation for fast installation
- Cable tie side entry for immediate positioning of tie and tool
- Controlled tension, fully adjustable
- Easy removal of excess tie

- Qualified product listed per MIL Standard MS90387-3
- Automatically tensions and cuts off tie when predetermined tension is reached
- Installs standard .18 inch (4.6mm), light-heavy .25 inch (6.4mm) and heavy .31 inch (7.9mm) cross section ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties



GS4MT

| Part Number | Part Description | Std. Pkg. Qty. |
|----------------|---|----------------|
| GS4MT | Used with standard, light-heavy, and heavy cross section Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties. | 1 |
| K4M-BLD | Replacement cutter blade for GS4MT. | 1 |
| K4MTG | Replacement tension gripper for GS4MT. | 1 |
| CAMT | Cut-off accessory. Use this accessory with GS4MT tool to cut MBH or MBS continuous banding. Accessory drops in place for use. | 1 |

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management



Side Entry



CAMT

D1.
Terminals

D2.
Power
Connectors

Tool Tension Locking Kits

- For applications requiring a locking device on either the selector knob (one cross section size and tension only) or tension level adjustment (but allow cross section size changes)

D3.
Grounding
Connectors

E1.
Labeling
Systems



| Part Number | Part Description | Std. Pkg. Qty. |
|--------------|--|----------------|
| TTLK3 | Tool tension locking kit for GS4MT and PPTMT installation tools. | 1 |

E2.
Labels

To lock selector knob and tension level.

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification



To lock fine adjustment.

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

ST2MT Installation Tool

- Cable tie side entry for immediate positioning of tie and tool
- One hand operation – lightweight
- Easy removal of excess tie
- Tool tension is controlled by installer – twist action cut-off
- Rugged, lightweight, easy-to-operate pliers-type tool provides mechanical advantage



| Part Number | Part Description | Std. Pkg. Qty. |
|-------------|---|----------------|
| ST2MT | Used with standard, light-heavy, heavy and extra-heavy cross section Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties. | 1 |

RT2HT and RT2HTN Installation Tools

- Cable tie side entry for immediate positioning of tie and tool to speed installation
- Multi-position rear handle provides flexibility for a one or two hand installation
- Narrow nose tool design option available for applications requiring installations in tight confined spaces
- Replacement cutter blade and handle available for RT2HT



RT2HT



RT2HTN

| Part Number | Part Description | Std. Pkg. Qty. |
|-------------|--|----------------|
| RT2HT | Used with extra-heavy, extra-heavy 15, and super-heavy cross section Pan-Steel® type MLT and MLTFC ties. Width of tool nose 2.60" (66.0mm). | 1 |
| RT2HTN | Narrow nose installation tool for use with extra-heavy, extra-heavy 15, and super-heavy cross section Pan-Steel® type MLT and MLTFC ties. Width of tool nose 1.06" (27.0mm). | 1 |

HTMT Installation Tool

- Economical
- Coiled tie end remaining after tensioning assures a safe end
- Manual tension, no cut-off
- Installs ties parallel to the bundle



| Part Number | Part Description | Std. Pkg. Qty. |
|-------------|---|----------------|
| HTMT | Used with standard, light-heavy, and heavy cross section Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties. | 1 |

A.
System
Overview

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

A. System Overview

PPTMT Pneumatic Installation Tool

B1. Cable Ties

- Power assisted tool for fast and effortless installation
- Cable tie side entry for immediate positioning of tie and tool
- Controlled tension, fully adjustable
- Automatic cut-off
- One hand operation – lightweight
- Easy removal of excess tie
- Operates 85 PSI (586 KPA Bar) non-lubricated air and requires no special maintenance

B2. Cable Accessories

B3. Stainless Steel Ties



PPTMT

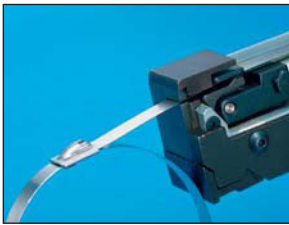
| Part Number | Part Description | Std. Pkg. Qty. |
|----------------|--|----------------|
| PPTMT | Pneumatic hand tool used with Pan-Steel® type MLT ties, type MLTC/MLTFC coated ties, and type MLTDH double wrapped ties. Automatically tensions and cuts off tie when predetermined tension is reached, providing more reliable and consistent installations. Ideal for high production applications. Installs standard .18" (4.6mm), light-heavy .25" (6.4mm), and heavy .31" (7.9mm) cross section ties. | 1 |
| PPH10 | 10.0' (3m) hose assembly (regulator to tool); includes a .13" (3.3mm) NPT male connector (to regulator) and .13" (3.3mm) female quick disconnect (to tool). | 1 |
| PL289N1 | Filter/regulator .5 micron element, regulated range 3 – 100 psig, features .13" (3.3mm) NPT female output port (to hose PPH10) and .25" (6.4mm) male quick disconnect to source air line. | 1 |
| KPPTMTG | Replacement gripper kit for PPTMT. | 1 |
| KPPTMTB | Replacement blade kit for PPTMT. | 1 |

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management



Side Entry

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

NEW! PBTMT Battery Powered Installation Tool

- Lithium-Ion battery optimizes performance by installing more cable ties per charge
- Ergonomic tool design provides a compact lightweight body, reducing operator fatigue
- Automatic flush cut off enhances productivity with easy one hand installation
- Cable tie side entry allows quick side entry of tie into tool to speed installation
- 360° rotating head allows access to confined spaces
- Controlled tension mechanism provides consistent installations every time
- Battery indicator improves productivity with quick visual identification of battery life
- Variable speed trigger provides increased operator control, for easy installation



PBTMT

| Part Number | Part Description | Std. Pkg. Qty. |
|--------------|--|----------------|
| PBTMT | Battery powered installation tool, for use with Pan-Steel® heavy, extra-heavy, and super-heavy cross section MLT style ties, and MLTD double wrapped style ties, 2 – 12 volt Lithium-Ion batteries and 115 volt, 60 Hz charger included. | 1 |



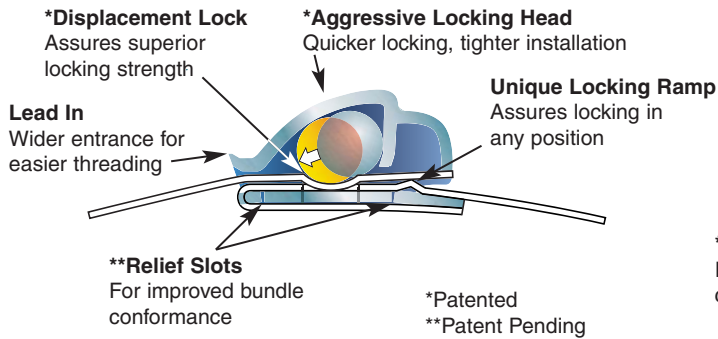
360° Rotating Head

Features and Benefits – Pan-Steel® Retained Tension Ties – MRT/MRS Series

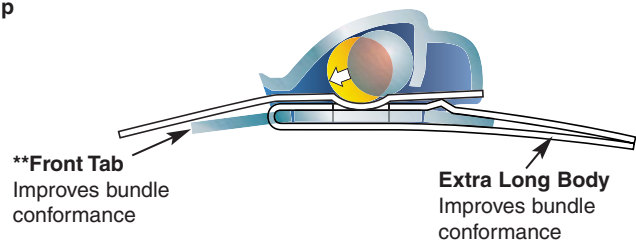
Panduit® Pan-Steel® Retained Tension Ties are engineered for safety, productivity, and durability by providing round edges and smooth surfaces, easy threading, high loop tensile strength and tight clamping.

Panduit Retained Tension Tie Technology

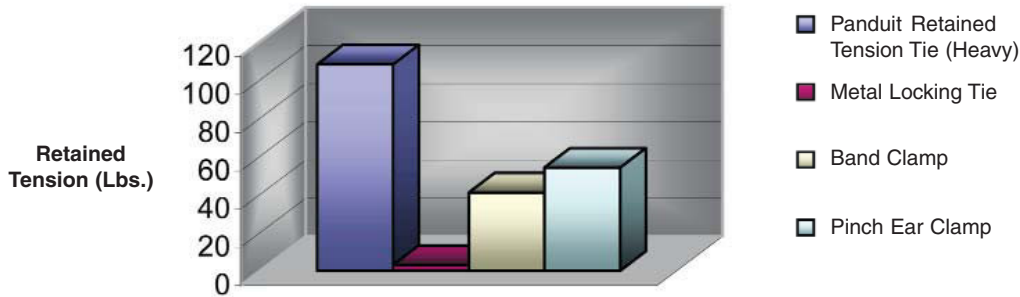
Features of Retained Tension Ties (MRT and MRS Series)



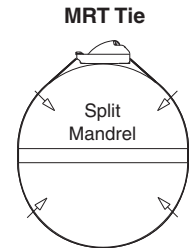
Additional Features of 360° Radial Seal Retained Tension Ties (MRS Series Only)



Retained Tension Performance Comparison**



**Representative sample, actual results may vary.



Retained Tension
Split mandrel test fixture measures retained tension of installed tie

- A. System Overview
- B1. Cable Ties
- B2. Cable Accessories
- B3. Stainless Steel Ties
- C1. Wiring Duct
- C2. Surface Raceway
- C3. Abrasion Protection
- C4. Cable Management
- D1. Terminals
- D2. Power Connectors
- D3. Grounding Connectors
- E1. Labeling Systems
- E2. Labels
- E3. Pre-Printed & Write-On Markers
- E4. Permanent Identification
- E5. Lockout/Tagout & Safety Solutions
- F. Index

A. System Overview

Part Number System for Pan-Steel® Retained Tension Ties – MRT Series

B1. Cable Ties

MRT

Type

MRT = Metal Retained Tension Tie

6

Bundle Diameter Reference (In.)

S

Cross Section

S = Standard
LH = Light-Heavy
H = Heavy

—

C

Package Qty.

L = 50
C = 100

4

Material

4 = 304

B2. Cable Accessories

B3. Stainless Steel Ties



Pan-Steel® Retained Tension Ties – MRT Series

- Provide tight bundling of armored cables, pipes, conduit and other rigid materials in harsh conditions for a reliable, easy to install fastening solution

- Self-locking cable tie design locks into place at any length along the tie body, unlike fixed diameter band clamps
- Available in AISI 304 stainless steel with a thickness of 0.010" (0.25mm)



C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

| Part Number | Max. Bundle Diameter | | Length | | Min. Loop Tensile Strength | | Min. Bundle Diameter | | Width | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|----------------------|----|--------|----|----------------------------|---|----------------------|----|-------|----|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | | | |

AISI 304 Stainless Steel – For General Purpose

Standard Cross Section

| | | | | | | | | | | | | | |
|-----------------|-----|-----|------|-----|-----|-----|------|------|------|-----|--------|-----|-----|
| MRT1S-C4 | 1.0 | 25 | 9.0 | 229 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | MTRTLS | 100 | 500 |
| MRT2S-C4 | 2.0 | 51 | 12.2 | 310 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | | 100 | 500 |
| MRT4S-C4 | 4.0 | 102 | 18.5 | 470 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | | 100 | 500 |
| MRT6S-C4 | 6.0 | 152 | 24.8 | 630 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | | 100 | 500 |

Light-Heavy Cross Section

| | | | | | | | | | | | | | |
|--------------------|-----|-----|------|-----|-----|------|------|------|------|-----|--------|----|-----|
| MRT1.5LH-L4 | 1.5 | 38 | 10.6 | 269 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | MTRTLS | 50 | 250 |
| MRT2LH-L4 | 2.0 | 51 | 12.2 | 310 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | | 50 | 250 |
| MRT4LH-L4 | 4.0 | 102 | 18.5 | 470 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | | 50 | 250 |
| MRT6LH-L4 | 6.0 | 152 | 24.8 | 630 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | | 50 | 250 |

Heavy Cross Section

| | | | | | | | | | | | | | |
|-------------------|-----|-----|------|-----|-----|------|------|------|------|-----|-------|----|-----|
| MRT1.5H-L4 | 1.5 | 38 | 10.6 | 269 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | MTRTH | 50 | 250 |
| MRT2H-L4 | 2.0 | 51 | 12.2 | 310 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |
| MRT4H-L4 | 4.0 | 102 | 18.5 | 470 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |
| MRT6H-L4 | 6.0 | 152 | 24.8 | 630 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |

Double Wrapped – For Additional Strength

Standard Cross Section

| | | | | | | | | | | | | | |
|--------------------|-----|----|------|-----|-----|------|------|------|------|-----|--------|-----|-----|
| MRT1.5DS-C4 | 1.5 | 38 | 14.4 | 366 | 250 | 1112 | 1.00 | 25.4 | 0.17 | 4.4 | MTRTLS | 100 | 500 |
| MRT2.5DS-C4 | 2.5 | 63 | 20.7 | 526 | 250 | 1112 | 1.00 | 25.4 | 0.17 | 4.4 | | 100 | 500 |

Light-Heavy Cross Section

| | | | | | | | | | | | | | |
|---------------------|-----|----|------|-----|-----|------|------|------|------|-----|--------|----|-----|
| MRT2.5DLH-L4 | 2.5 | 63 | 20.7 | 526 | 350 | 1556 | 1.00 | 25.4 | 0.25 | 6.4 | MTRTLS | 50 | 250 |
|---------------------|-----|----|------|-----|-----|------|------|------|------|-----|--------|----|-----|

Heavy Cross Section

| | | | | | | | | | | | | | |
|------------------|-----|-----|------|-----|-----|------|------|------|------|-----|-------|----|-----|
| MRT2DH-L4 | 2.0 | 51 | 18.5 | 470 | 550 | 2447 | 1.00 | 25.4 | 0.31 | 7.9 | MTRTH | 50 | 250 |
| MRT4DH-L4 | 4.0 | 102 | 31.1 | 790 | 550 | 2447 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |

***For information on installation tools, refer to page B3.20.

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

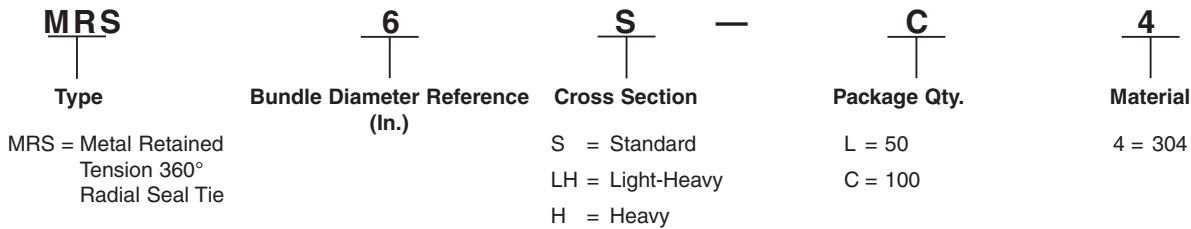
E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

Part Number System for Pan-Steel® 360° Radial Seal Retained Tension Ties – MRS Series



Pan-Steel® 360° Radial Seal Retained Tension Ties – MRS Series



- 360° radial seal eliminates gaps under the head of the tie to provide a completely sealed installation

- Self-locking cable tie design locks into place at any length along the tie body, unlike fixed diameter band clamps
- Available in AISI 304 stainless steel with a thickness of 0.010" (0.25mm)



| Part Number | Max. Bundle Diameter | | Length | | Min. Loop Tensile Strength | | Min. Bundle Diameter | | Width | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|-------------|----------------------|----|--------|----|----------------------------|---|----------------------|----|-------|----|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | | | |

AISI 304 Stainless Steel – For General Purpose

Standard Cross Section

| | | | | | | | | | | | | | |
|----------|-----|-----|------|-----|-----|-----|------|------|------|-----|--------|-----|-----|
| MRS1S-C4 | 1.0 | 25 | 9.0 | 229 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | MTRTLS | 100 | 500 |
| MRS2S-C4 | 2.0 | 51 | 12.2 | 310 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | | 100 | 500 |
| MRS4S-C4 | 4.0 | 102 | 18.5 | 470 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | | 100 | 500 |
| MRS6S-C4 | 6.0 | 152 | 24.8 | 630 | 180 | 800 | 0.75 | 19.1 | 0.18 | 4.4 | | 100 | 500 |

Light-Heavy Cross Section

| | | | | | | | | | | | | | |
|-------------|-----|-----|------|-----|-----|------|------|------|------|-----|--------|----|-----|
| MRS1.5LH-L4 | 1.5 | 38 | 10.6 | 269 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | MTRTLS | 50 | 250 |
| MRS2LH-L4 | 2.0 | 51 | 12.2 | 310 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | | 50 | 250 |
| MRS4LH-L4 | 4.0 | 102 | 18.5 | 470 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | | 50 | 250 |
| MRS6LH-L4 | 6.0 | 152 | 24.8 | 630 | 225 | 1000 | 1.00 | 25.4 | 0.25 | 6.4 | | 50 | 250 |

Heavy Cross Section

| | | | | | | | | | | | | | |
|------------|-----|-----|------|-----|-----|------|------|------|------|-----|-------|----|-----|
| MRS1.5H-L4 | 1.5 | 38 | 10.6 | 269 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | MTRTH | 50 | 250 |
| MRS2H-L4 | 2.0 | 51 | 12.2 | 310 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |
| MRS4H-L4 | 4.0 | 102 | 18.5 | 470 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |
| MRS6H-L4 | 6.0 | 152 | 24.8 | 630 | 400 | 1780 | 1.00 | 25.4 | 0.31 | 7.9 | | 50 | 250 |

***For information on installation tools, refer to page B3.20.

A.
System
Overview

B1.
Cable
Ties

B2.
Cable
Accessories

B3.
Stainless
Steel
Ties

C1.
Wiring
Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification

E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

A. System Overview

MTRT Retained Tension Manual Installation Tools

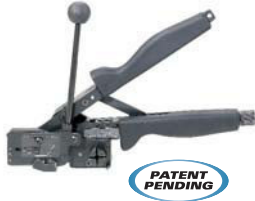
B1. Cable Ties

- Adjustable detent mechanism provides user pre-set controlled tension for repeatable installations and maximum reliability
- Smooth cable tie cut-off eliminates burrs or sharp edges after installation to deliver added bundle protection and job site safety

- Tie tensioning mechanism provides improved durability compared to conventional gripper style tools
- Change over kits available to allow for installation of all tie cross sections with one tool

B2. Cable Accessories

B3. Stainless Steel Ties



| Part Number | Part Description | Std. Pkg. Qty. |
|----------------|--|----------------|
| MTRTH | Retained tension installation tool for use with Pan-Steel® heavy cross section MRT and MRS style ties and MRT double wrapped style ties. | 1 |
| MTRTLS | Retained tension installation tool for use with Pan-Steel® light-heavy and standard cross section MRT and MRS style ties and MRT double wrapped style ties. | 1 |
| KMTRTH | Change over kits allow for installation of heavy cross section MRT and MRS style ties, and MRT double wrapped style ties in MTRTH tools. | 1 |
| KMTRTLS | Change over kits allow for installation of light-heavy and standard cross section MRT and MRS style ties, and MRT double wrapped style ties in MTRTLS tools. | 1 |

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

Features and Benefits – Pan-Steel® Strapping System

The Panduit® Pan-Steel® Stainless Steel Strapping is the ultimate solution for strapping applications. The buckle design and tension controlled installation tool offer a quick and safe installation for all harsh environments. Available in four widths 3/8" (9.5mm), 1/2" (12.7mm) 5/8" (15.9mm) and 3/4" (19.1mm) in base 201 (3/4" width only), 304, or 316 stainless steel with a temperature range of -112°F (-80°C) to 1000°F (538°C).

Unique Locking Methods Pan-Steel® Stainless Steel Strapping

***Hooked Clamping Tab**

Bends strap body within retention area of buckle for increased loop tensile strength and full coverage of cut end of strap

***Cross Rib Support**

Enhanced rigidity for higher loop tensile strength

Buckle Design

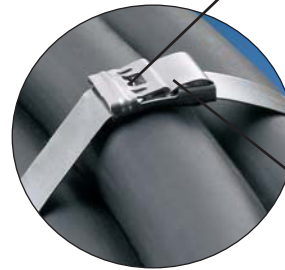
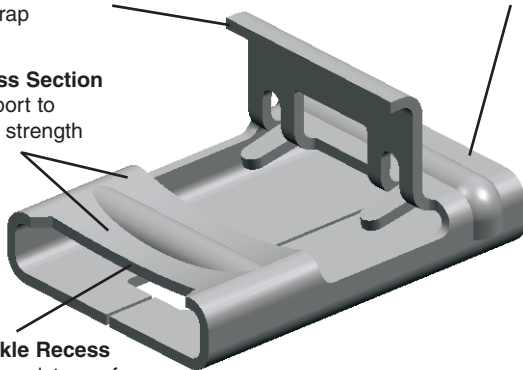
Provides a low finished profile

***Concave Cross Section**

Enhanced support to improve tensile strength

***Concave Buckle Recess**

Increases body resistance for increased loop tensile strength



No Sharp Edges

After tensioning, cut end is locked inside buckle

Pan-Steel® Stainless Steel MS75 Strapping

Hooked Clamping Tab

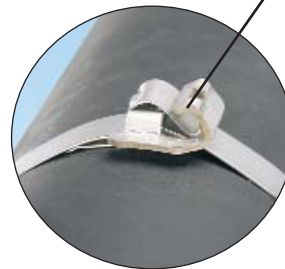
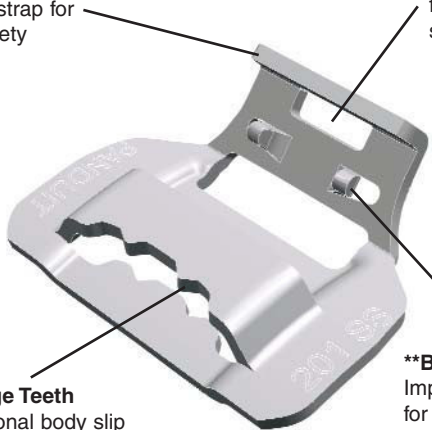
Provides full coverage of cut end of strap for enhanced safety

Buckle Screwdriver Slot

Allows use of screwdriver for buckle closure for a simple quick installation

No Sharp Edges

After tensioning, cut end is locked inside buckle



Buckle Bridge Teeth

Deliver additional body slip resistance for optimum strength

****Buckle Locking Tabs**

Improve locking mechanism for higher strength

*Patented
**Patents Pending



Hand operated installation tools used with Panduit® Pan-Steel® Strapping. Tensions, cuts strapping, and secures the buckle tab. Easy to operate. See page B3.26.



Custom length strapping available for applications that require various bundle diameters, to provide job safety and versatility with minimum inventory. See page B3.25.

A. System Overview

The Panduit Method Reduces Installation Time

Pan-Steel® Stainless Steel Strapping

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties



1) Place strap around the material, insert tail of strap through buckle. Pull strapping tight and bend up to hold in place. Insert tail of strapping into tool nose section. Squeeze handle to tension.



2) Once proper tension is reached, maintain tension and raise tool 90° – 120° over buckle and pull down on cutter lever, cutting strap.



3) Remove tool, press cut end down and toward retaining tab.

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection



4) Using the closure lever on the handle of the tool, bend retaining tab down and over cut end.



Provides finished, safe, and secure closure.

C4. Cable Management

Pan-Steel® Stainless Steel MS75 Strapping

D1. Terminals

D2. Power Connectors

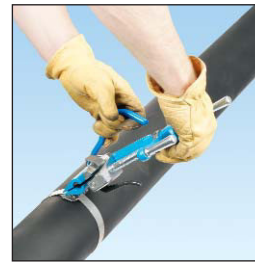
D3. Grounding Connectors



1) Place strap around the material, insert tail of strap through buckle. Pull strapping tight and bend up to hold in place.



2) Insert tail of strapping into tool nose section. Rotate handle to tension.



3) After tensioning raise tool 90° – 120° over buckle and pull down on cutter lever, cutting strap.

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers



4) Remove tool, press cut end down toward retaining tab.



5) Using flathead screwdriver, bend retaining tab down and over cut end.



Provides finished, safe, and secure closure.

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

Part Number System for Discrete Length Strapping

MS

4

W

38

T

15

L

4

Type

Bundle Diameter (In.)

Width

Inches

Thickness

15 = 0.015"

Standard Package Size

Material

MS = Metal Strap
MSC = Metal Strap Coated

38 = 3/8
50 = 1/2
63 = 5/8
75 = 3/4

30 = 0.030"

L = 50 Pcs.
Q = 25 Pcs.

2 = 201 SS
4 = 304 SS
6 = 316 SS

Pan-Steel® Strapping – MS Series

- Fold over design provides high-retained tension in mechanical fastening and cable bundling applications
- After tensioning, cut end is locked inside low profile buckle – no sharp edges
- Can be used in a wide range of indoor, outdoor, and underground (including direct burial) applications
- Smooth surfaces and rounded edges assures cable protection and worker safety
- Available in AISI 201 (3/4" width only) and 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



| Part Number | Max. Bundle Diameter | | Length* | | Strap Breaking Strength | | Min. Bundle Diameter | | Width | | Thickness | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. | |
|---------------------------------|----------------------|-----|---------|-----|-------------------------|-------|----------------------|------|-------|------|-----------|------|----------------------------------|----------------|----------------|-----|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | | |
| AISI 201 Stainless Steel | | | | | | | | | | | | | | | | |
| MS4W75T30-Q2 | 4.0 | 102 | 20.2 | 513 | 2400 | 10656 | 1.00 | 25.4 | 0.75 | 19.1 | 0.030 | 0.76 | BT75SDT | 25 | 25 | |
| MS6W75T30-Q2 | 6.0 | 152 | 26.5 | 673 | 2400 | 10656 | 1.00 | 25.4 | 0.75 | 19.1 | 0.030 | 0.76 | | 25 | 25 | |
| MS8W75T30-Q2 | 8.0 | 203 | 32.7 | 831 | 2400 | 10656 | 1.00 | 25.4 | 0.75 | 19.1 | 0.030 | 0.76 | | 25 | 25 | |
| MS10W75T30-Q2 | 10.0 | 254 | 39.0 | 991 | 2400 | 10656 | 1.00 | 25.4 | 0.75 | 19.1 | 0.030 | 0.76 | | 25 | 25 | |
| AISI 304 Stainless Steel | | | | | | | | | | | | | | | | |
| MS2W38T15-L4 | 2.0 | 51 | 11.8 | 300 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | BT2HT | 50 | 250 | |
| MS4W38T15-L4 | 4.0 | 102 | 18.0 | 457 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 | |
| MS6W38T15-L4 | 6.0 | 152 | 24.4 | 620 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 | |
| MS8W38T15-L4 | 8.0 | 203 | 30.7 | 780 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 | |
| MS10W38T15-L4 | 10.0 | 254 | 37.0 | 940 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 | |
| MS4W50T15-L4 | 4.0 | 102 | 18.0 | 457 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 | |
| MS6W50T15-L4 | 6.0 | 152 | 24.4 | 620 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 | |
| MS8W50T15-L4 | 8.0 | 203 | 30.7 | 780 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 | |
| MS10W50T15-L4 | 10.0 | 254 | 37.0 | 940 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 | |
| MS4W63T15-L4 | 4.0 | 102 | 18.0 | 457 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| MS6W63T15-L4 | 6.0 | 152 | 24.4 | 620 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| MS8W63T15-L4 | 8.0 | 203 | 30.7 | 780 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| MS10W63T15-L4 | 10.0 | 254 | 37.0 | 940 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 | |
| AISI 316 Stainless Steel | | | | | | | | | | | | | | | | |
| MS2W38T15-L6 | 2.0 | 51 | 11.8 | 300 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | BT2HT | 50 | 250 |
| MS4W38T15-L6 | 4.0 | 102 | 18.0 | 457 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | | 50 | 250 |
| MS6W38T15-L6 | 6.0 | 152 | 24.4 | 620 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | 50 | | 250 | |
| MS8W38T15-L6 | 8.0 | 203 | 30.7 | 780 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | 50 | | 250 | |
| MS10W38T15-L6 | 10.0 | 254 | 37.0 | 940 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | 50 | | 250 | |
| MS4W50T15-L6 | 4.0 | 102 | 18.0 | 457 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MS6W50T15-L6 | 6.0 | 152 | 24.4 | 620 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MS8W50T15-L6 | 8.0 | 203 | 30.7 | 780 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MS10W50T15-L6 | 10.0 | 254 | 37.0 | 940 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | 50 | | 250 | |
| MS4W63T15-L6 | 4.0 | 102 | 18.0 | 457 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | 50 | | 250 | |
| MS6W63T15-L6 | 6.0 | 152 | 24.4 | 620 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | 50 | | 250 | |
| MS8W63T15-L6 | 8.0 | 203 | 30.7 | 780 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | 50 | | 250 | |
| MS10W63T15-L6 | 10.0 | 254 | 37.0 | 940 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | 50 | | 250 | |

*Other lengths available, contact Panduit Customer Service.

***For information on installation tool, refer to page B3.26.

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Stainless
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A.
System
Overview

Pan-Steel® Nylon 11 Coated Strapping – MSC Series

- Fold over design provides high-retained tension in mechanical fastening and cable bundling applications
- After tensioning, cut end is locked inside low profile buckle – no sharp edges
- AISI 316 stainless steel for the most corrosive environments
- Available in 0.38 inch (9.5mm), 0.50 inch (12.7mm), 0.63 inch (15.9mm) cross sections
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 285°F (140°C)

B1.
Cable Ties

B2.
Cable
Accessories

B3.
Stainless
Steel Ties



C1.
Wiring
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| Part Number | Max. Bundle Diameter | | Length* | | Strap Breaking Strength | | Min. Bundle Diameter | | Width | | Thickness^ | | Recommended Installation Tool*** | Std. Pkg. Qty. | Std. Ctn. Qty. |
|----------------|----------------------|-----|---------|-----|-------------------------|------|----------------------|------|-------|------|------------|------|----------------------------------|----------------|----------------|
| | In. | mm | In. | mm | Lbs. | N | In. | mm | In. | mm | In. | mm | | | |
| MSC2W38T15-L6 | 2.0 | 51 | 11.8 | 300 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | BT2HT | 50 | 250 |
| MSC4W38T15-L6 | 4.0 | 102 | 18.0 | 457 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 |
| MSC6W38T15-L6 | 6.0 | 152 | 24.4 | 620 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 |
| MSC8W38T15-L6 | 8.0 | 203 | 30.7 | 780 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 |
| MSC10W38T15-L6 | 10.0 | 254 | 37.0 | 940 | 502 | 2229 | 1.00 | 25.4 | 0.38 | 9.5 | 0.015 | 0.38 | | 50 | 250 |
| MSC4W50T15-L6 | 4.0 | 102 | 18.0 | 457 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| MSC6W50T15-L6 | 6.0 | 152 | 24.4 | 620 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| MSC8W50T15-L6 | 8.0 | 203 | 30.7 | 780 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| MSC10W50T15-L6 | 10.0 | 254 | 37.0 | 940 | 671 | 2979 | 1.00 | 25.4 | 0.50 | 12.7 | 0.015 | 0.38 | | 50 | 250 |
| MSC4W63T15-L6 | 4.0 | 102 | 18.0 | 457 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |
| MSC6W63T15-L6 | 6.0 | 152 | 24.4 | 620 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |
| MSC8W63T15-L6 | 8.0 | 203 | 30.7 | 780 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |
| MSC10W63T15-L6 | 10.0 | 254 | 37.0 | 940 | 839 | 3725 | 1.00 | 25.4 | 0.63 | 15.9 | 0.015 | 0.38 | | 50 | 250 |

*Other lengths available, contact Panduit Customer Service.

***For information on installation tools, refer to page B3.26.

^Base material less coating.

Pan-Steel® Custom Length Strapping

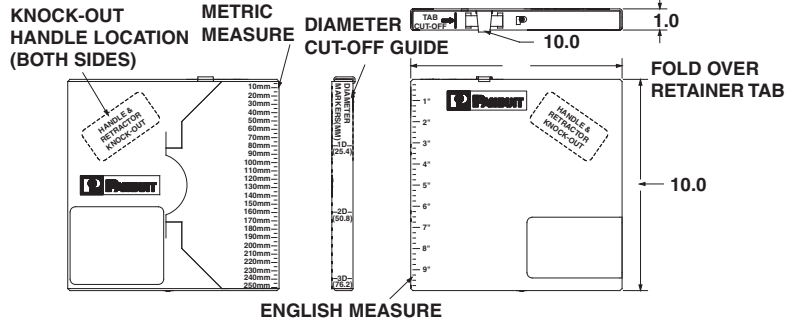
- Fold over design provides high retained tension in mechanical fastening and cable bundling applications
- After tensioning, cut end is locked inside low profile buckle – no sharp edges
- For applications that require various bundle diameters
- Supplied in reels of 82.5 feet (25m) (coated) or 100 feet (30.5m) (uncoated)

- Provides job site versatility with minimum inventory
- Packaging speeds removal of steel and includes bundle diameter cut-off guide
- Available in AISI 201(3/4" width only) and 304 stainless steel for general-purpose applications
- Available in AISI 316 stainless steel for the most corrosive environments



Nylon 11 coating (optional):

- Nylon 11 coating provides additional edge protection and prevents corrosion between dissimilar metals
- UV resistant, low smoke, halogen-free material
- Temperature tolerance -40°F (-40°C) to 285°F (140°C)
- AISI 316 stainless steel for the most corrosive environments



| Part Number | Length* | | Strap Breaking Strength | | Width | | Thickness^ | | Used with Buckle | Recommended Installation Tool*** | Std. Pkg. Qty.‡ |
|---|---------|------|-------------------------|-------|-------|------|------------|------|------------------|----------------------------------|-----------------|
| | Ft. | m | Lbs. | N | In. | mm | In. | mm | | | |
| 201 Stainless Steel | | | | | | | | | | | |
| NEW! MSW75T30-CR2 | 100 | 30.5 | 2400 | 10656 | 0.75 | 19.1 | 0.030 | 0.80 | MSBW75-C2 | BT75SDT | 1 |
| 304 Stainless Steel | | | | | | | | | | | |
| MSW38T15-CR4 | 100 | 30.5 | 502 | 2229 | 0.38 | 9.5 | 0.015 | 0.38 | MSBW38-C4 | BT2HT | 1 |
| MSW50T15-CR4 | 100 | 30.5 | 671 | 2979 | 0.50 | 12.7 | 0.015 | 0.38 | MSBW50-C4 | | 1 |
| MSW63T15-CR4 | 100 | 30.5 | 839 | 3725 | 0.63 | 15.9 | 0.015 | 0.38 | MSBW63-C4 | | 1 |
| 316 Stainless Steel | | | | | | | | | | | |
| MSW38T15-CR6 | 100 | 30.5 | 502 | 2229 | 0.38 | 9.5 | 0.015 | 0.38 | MSBW38-C6 | BT2HT | 1 |
| MSW50T15-CR6 | 100 | 30.5 | 671 | 2979 | 0.50 | 12.7 | 0.015 | 0.38 | MSBW50-C6 | | 1 |
| MSW63T15-CR6 | 100 | 30.5 | 839 | 3725 | 0.63 | 15.9 | 0.015 | 0.38 | MSBW63-C6 | | 1 |
| Nylon Coated Custom Length Strapping | | | | | | | | | | | |
| MSCNW38T15-QR6 | 82.5 | 25.0 | 502 | 2229 | 0.38 | 9.5 | 0.015 | 0.38 | MSBW38-C6 | BT2HT | 1 |
| MSCNW50T15-QR6 | 82.5 | 25.0 | 671 | 2979 | 0.50 | 12.7 | 0.015 | 0.38 | MSBW50-C6 | | 1 |
| MSCNW63T15-QR6 | 82.5 | 25.0 | 839 | 3725 | 0.63 | 15.9 | 0.015 | 0.38 | MSBW63-C6 | | 1 |

*Other lengths available, contact Panduit Customer Service. ^Base metal less coating.

‡Order in number of reels required.***For information on installation tools, refer to page B3.26.

To determine the proper amount of strapping required, use the following formula:

Calculate Diameter inches (mm) x 3.14 + 6 inches (152.4 mm)

Pan-Steel® Buckles for Custom Length Strapping

- Buckle design provides a low finished profile
- After tensioning cut end is locked inside buckle – no sharp edges



| Part Number | Material | Width | | Part Description | Std. Pkg. Qty. | Std. Ctn. Qty. |
|---------------------------------|----------|-------|------|---|----------------|----------------|
| | | In. | mm | | | |
| AISI 201 Stainless Steel | | | | | | |
| NEW! MSBW75-C2 | 201 | 0.75 | 19.1 | Individual low profile buckles used with metal strapping. | 100 | — |
| AISI 304 Stainless Steel | | | | | | |
| MSBW38-C4 | 304 | 0.38 | 9.5 | Individual low profile buckles used with custom length strapping. | 100 | 1000 |
| MSBW50-C4 | 304 | 0.50 | 12.7 | | 100 | 1000 |
| MSBW63-C4 | 304 | 0.63 | 15.9 | | 100 | 1000 |
| AISI 316 Stainless Steel | | | | | | |
| MSBW38-C6 | 316 | 0.38 | 9.5 | Individual low profile buckles used with custom length strapping. | 100 | 1000 |
| MSBW50-C6 | 316 | 0.50 | 12.7 | | 100 | 1000 |
| MSBW63-C6 | 316 | 0.63 | 15.9 | | 100 | 1000 |

A.
System
Overview

BT2HT Hand Operated Installation Tool for Strapping

B1.
Cable
Ties

- Strap side entry
- Multi-position rear handle provides flexibility for a one or two hand installation
- Adjustable tension control
- Easy removal of excess strap
- Installs (3) sizes: 0.38 inch (9.5mm), 0.50 inch (12.7mm), and 0.63 inch (15.9mm)
- Replacement cutter blade and handle available

B2.
Cable
Accessories



B3.
Stainless
Steel Ties

| Part Number | Part Description | Std. Pkg. Qty. |
|-----------------|--|----------------|
| BT2HT | Installation tool for use with 0.38" (9.5mm), 0.50" (12.7mm), and 0.63" (15.9mm) widths of Panduit® Pan-Steel® Strapping. Tensions, cuts strapping, and secures the buckle tab. Lever cut off. | 1 |
| KRT2BLD | Replacement cutter blade for RT2HT and BT2HT. | 1 |
| KRT2HNDL | Replacement cutter handle for RT2HT and BT2HT. | 1 |

C1.
Wiring
Duct

C2.
Surface
Raceway

NEW! BT75SDT Hand Operated Installation Tool for MS75 Strapping

C3.
Abrasion
Protection

- Screw drive tension mechanism provides high tension with minimal effort, reducing operator fatigue
- Heavy duty construction offers a longer service life
- Strapping side entry allows quick side entry of the strap into tool to speed installation

C4.
Cable
Management



D1.
Terminals

| Part Number | Part Description | Std. Pkg. Qty. |
|----------------|--|----------------|
| BT75SDT | Installation tool for use with 0.75" (19.1mm) width strapping only. Tensions and cuts strapping. Screwdriver required for buckle closure (not included). | 1 |

D2.
Power
Connectors

D3.
Grounding
Connectors

PCS Cushion Sleeve

- Black neoprene sleeving used with Pan-Steel® Stainless Steel Ties, custom length banding, and MS strap
- Isolation between dissimilar metals allows the ties and straps to be used with aluminum cable tray
- Used on applications requiring improved gripping on non-resilient objects
- Provides full separation between the ties and the bundle
- Can be used indoors or outdoors (excellent ultraviolet resistance, good resistance to petroleum, and many chemicals)
- Operating temperature range -40°F (-40°C) to 200°F (93°C)

E2.
Labels



E3.
Pre-Printed
& Write-On
Markers

E4.
Permanent
Identification



E5.
Lockout/
Tagout
& Safety
Solutions

F.
Index

| Part Number | Used with Pan-Steel® Ties/Strapping | Width | | Length | | Std. Pkg. Qty.‡ |
|--------------------|-------------------------------------|-------|------|--------|------|-----------------|
| | | In. | mm | Ft. | m | |
| PCSS-B-CR | MLT/S | .33 | 8.4 | 100 | 30.5 | 1 |
| PCSH-B-CR | MLT/LH/H | .47 | 11.9 | 100 | 30.5 | 1 |
| PCSSH-B-CR* | MLT/EH/SH and MS Straps | .91 | 23.1 | 100 | 30.5 | 1 |

*Meets MIL-R-6855

‡Order in number of reels required.

Pkg. -CR = 100 ft. (30.5m) reel.