



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Click on the logo above to go to [www.panduit.com](http://www.panduit.com) up to date product information find a local distributor technical information

## Section Index



### A. System Overview



### B. Bundle

1. Cable Ties
2. Cable Accessories
3. Stainless Steel Cable Ties and Accessories



### C. Route/Protect

1. Wiring Duct
2. Surface Raceway
3. Abrasion Protection
4. Cable Management



### D. Terminate

1. Terminals
2. Power Connectors
3. Grounding Connectors



### E. Identification and Safety Solutions

1. Labeling Systems
2. Labels
3. Pre-Printed and Write-On Markers
4. Permanent Identification
5. Lockout/Tagout and Safety Solutions



### F. Part Number Index

**CLICK on any of the tabs on this page to jump to that location within the catalog**

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

## Table of Contents

B1.  
Cable Ties

### System Overview

<b>System Overview</b> .....	A1.1
Solutions Overview .....	A1.2 – A1.3
Control Panel Solutions .....	A1.4
Harness Solutions .....	A1.5
Contractor Solutions .....	A1.6
MRO Solutions .....	A1.6
Harsh Environment Solutions .....	A1.7
Transportation Solutions .....	A1.7
Application Standards .....	A1.8 – A1.9
Programs .....	A1.10

C1.  
Wiring  
Duct

### Cable Ties

<b>Cable Ties</b> .....	B1.1
Cable Tie Selection Chart .....	B1.2 – B1.3
Cable Tie Styles Overview .....	B1.4 – B1.5
Features and Benefits – Pan-Ty® Cable Ties .....	B1.6
Selection Guide – Pan-Ty® Cable Ties .....	B1.7
Pan-Ty® Cable Ties – Nylon 6.6 .....	B1.8
Pan-Ty® Lashing Ties – Nylon 6.6 .....	B1.9
Pan-Ty® Cable Ties – Weather Resistant Nylon 6.6 .....	B1.10
Pan-Ty® Lashing Ties – Weather Resistant Nylon 6.6 .....	B1.11
Lashing Tie Mounting Clip .....	B1.11
Pan-Ty® Cable Ties – Heat Stabilized Nylon 6.6 .....	B1.12
Pan-Ty® Cable Ties – Heat Stabilized Weather Resistant Nylon 6.6 .....	B1.13
Pan-Ty® Cable Ties – Flame Retardant Nylon 6.6 .....	B1.14
Cable Tie Mounts – Flame Retardant Nylon 6.6 .....	B1.14
Pan-Ty® Cable Ties – Weather Resistant Nylon 12 .....	B1.15
Pan-Ty® Cable Ties – Polypropylene – Distinctive Green Color .....	B1.16
Pan-Ty® Cable Ties – Weather Resistant Polypropylene .....	B1.17
Pan-Ty® Cable Ties – HALAR▲ – Distinctive Maroon Color .....	B1.18
Pan-Ty® Cable Ties – TEFZEL■ – Distinctive Aqua Blue Color .....	B1.19
Cable Tie Mounts – TEFZEL■ .....	B1.19
Pan-Ty® Cable Ties – PEEK (Polyetheretherketone) .....	B1.20
★ Cable Tie Mounts – PEEK (Polyetheretherketone) .....	B1.20
Pan-Ty® Cable Ties – Metal Detectable Nylon 6.6 .....	B1.21
★ Cable Tie Mounts – Metal Detectable Nylon 6.6 and Polypropylene .....	B1.21
Pan-Ty® Releasable Cable Ties – Nylon 6.6 .....	B1.22
Pan-Ty® Releasable Lashing Ties – Nylon 6.6 .....	B1.22
Pan-Ty® Releasable Cable Ties – Weather Resistant and Heat Stabilized Nylon 6.6 .....	B1.23
Pan-Ty® Releasable Lashing Ties – Weather Resistant Nylon 6.6 .....	B1.24
Lashing Tie Mounting Clip – Weather Resistant Nylon 6.6 .....	B1.24
Pan-Ty® Releasable Lashing Ties – Weather Resistant Polypropylene .....	B1.25
Pan-Ty® Clamp Ties – Nylon 6.6 .....	B1.26
Pan-Ty® Clamp Ties – Weather Resistant and Heat Stabilized Nylon 6.6 .....	B1.27
Pan-Ty® Wing Push Mount Ties – Nylon 6.6 .....	B1.28
Pan-Ty® Wing Push Mount Ties – Weather Resistant and Heat Stabilized Nylon 6.6 .....	B1.29
Pan-Ty® Releasable Wing Push Mount Ties .....	B1.30
Pan-Ty® Center Mounted Wing Push Mount Ties – Heat Stabilized Nylon 6.6 .....	B1.31
Pan-Ty® Ladder Style Releasable Wing Push Mount Ties – Heat Stabilized Nylon 6.6 .....	B1.32
Pan-Ty® Umbrella Wing Push Mount Ties – Nylon and Heat Stabilized Nylon 6.6 .....	B1.32
Pan-Ty® Push Mount Ties .....	B1.33
Pan-Ty® Marker and Flag Ties .....	B1.34
Pan-Ty® Cable Ties Material and Color Chart .....	B1.35 – B1.37
Features and Benefits – Super-Grip® Cable Ties .....	B1.38
Selection Guide – Super-Grip® Cable Ties .....	B1.39
Super-Grip® Cable Ties – Nylon 6.6 .....	B1.40
Super-Grip® Cable Ties – Weather Resistant and Heat Stabilized Nylon 6.6 .....	B1.41
Super-Grip® Cable Ties and Mounts Material and Color Chart .....	B1.42
Features and Benefits – Dome-Top® Barb Ty Cable Ties .....	B1.43
Selection Guide – Dome-Top® Barb Ty and Dura-Ty™ Cable Ties .....	B1.44
Dome-Top® Barb Ty Cable Ties – Nylon 6.6 .....	B1.45
Dome-Top® Barb Ty Cable Ties – Weather Resistant Nylon 6.6 .....	B1.46
Dome-Top® Barb Ty Cable Ties – Heat Stabilized Nylon 6.6 .....	B1.47
Dome-Top® Barb Ty Clamp Ties – Nylon 6.6 .....	B1.48

▲HALAR is a registered trademark of Ausimont USA, Inc. ■TEFZEL is a registered trademark of E.I. du Pont de Nemours and Company.

★ Represents new product offering.

## Table of Contents

Dome-Top® Barb Ty Clamp Ties – Weather Resistant and Heat Stabilized Nylon 6.6	B1.49
Dome-Top® Barb Ty Wing Push Mount Ties – Nylon and Weather Resistant Nylon 6.6	B1.50
Dome-Top® Barb Ty Push Mount Ties – Weather Resistant Nylon 6.6	B1.51
Permanent Marking Pens	B1.51
Dome-Top® Barb Ty Marker and Flag Ties	B1.52
Dura-Ty™ Cable Ties – Weather Resistant Acetal – Heavy Cross Section	B1.53
Dura-Ty™ Cable Ties – Weather Resistant Acetal – Extra-Heavy Cross Section	B1.53
Stackable Aerial Cable Spacer – Weather Resistant Polypropylene	B1.54
Dome-Top® Barb Ty and Dura-Ty™ Cable Ties Material and Color Chart	B1.54 – B1.55
Features and Benefits – Parallel-Entry Cable Ties	B1.56
Selection Guide – Parallel-Entry Cable Ties	B1.57
Contour-Ty® Cable Ties – Nylon 6.6	B1.58
Contour-Ty® Cable Ties – Weather Resistant Nylon 6.6	B1.59
Contour-Ty® Cable Ties – Heat Stabilized and Flame Retardant Nylon 6.6	B1.60
Belt-Ty™ In-Line Cable Ties – Nylon and Weather Resistant Nylon 6.6	B1.61
Hyper-V™ In-Line Cable Ties – Weather Resistant Nylon 6.6	B1.62
Hyper-V™ Cable Tie Mounts	B1.62
IN-LINE Cable Ties – Weather Resistant Nylon 6.6	B1.63
Parallel-Entry Cable Ties Material and Color Chart	B1.64
Features and Benefits – Sta-Strap® Cable Ties	B1.65
Selection Guide – Sta-Strap® Cable Ties	B1.66
Sta-Strap® Cable Ties – Nylon 6.6	B1.67
Sta-Strap® Cable Ties – Weather Resistant Nylon 6.6	B1.68
Sta-Strap® Cable Ties – Heat Stabilized Nylon 6.6	B1.69
Sta-Strap® Clamp Ties	B1.70
Sta-Strap® Marker Ties – Nylon and Weather Resistant Nylon 6.6	B1.71
Sta-Strap® Cable Ties Material and Color Chart	B1.72
Selection Guide – Specialty Ties	B1.73
Pan-Ty® Stud Mounted Cable Ties – Heat Stabilized and Heat Stabilized Weather Resistant Nylon 6.6	B1.74
Pan-Ty® Ladder Style Stud Mounted Cable Tie – Heat Stabilized Nylon 6.6	B1.75
Pan-Ty® Double Loop Cable Ties	B1.76
Sta-Strap® Bow-Ty™ Cable Ties	B1.77
Pan-Ty® Triple Loop Cable Tie – Weather Resistant Nylon 6.6	B1.78
Double Hose Clamp – Weather Resistant Nylon 6.6	B1.78
Sta-Strap® Chassis/Panel Mount Tie – Heat Stabilized Weather Resistant Nylon 6.6	B1.79
Cable Marker Straps – Polyethylene	B1.80
Specialty Cable Ties Material and Color Chart	B1.81
Pan-Ty® Striped Cable Ties – Nylon 6.6	B1.82
Telephone Cable Identification Kits	B1.83
Cable Tie Kits in Steel Boxes	B1.83
Cable Tie Kits in Plastic Boxes and Bags	B1.84
Features and Benefits – Hook and Loop Cable Ties	B1.85
Selection Guide – Hook and Loop Cable Ties	B1.86
Tak-Ty® Hook & Loop Cable Ties	B1.87
Tak-Ty® Hook & Loop Cable Ties – Plenum-Rated	B1.88
Tak-Tape™ Hook & Loop Cable Tie Rolls	B1.88
Ultra-Cinch™ Hook & Loop Cable Ties	B1.89
Hook and Loop Cable Ties Color Chart	B1.90
★HLW Marker Hook and Loop Wrap Ties	B1.91
★Elastomeric Cable Ties – ERT	B1.91
★Cable Bundle Organizing Tool – CBOT	B1.92
Hot Stamping Service – Custom Printed Cable Ties	B1.93
Panduit Cable Tie Approvals	B1.94
Military Cross Reference	B1.95 – B1.97
Cable Tie Selection and Specification Guidelines	B1.98
Weathering	B1.99 – B1.100
Flammability	B1.101 – B1.102
Radiation/Moisture/Temperature/Tensile Strength	B1.103
Chemical Resistance Table	B1.104 – B1.107
<b>Manual Cable Tie Installation Tools</b>	B1.109
Selection Guide – Hand Tools, Accessories, and Kits	B1.110
Cable Tie Tools – Tool Controlled Tension and Cut-Off	B1.111
Cable Tie Tools – Installer Controlled Tension and Cut-Off	B1.112
Pneumatic Hand Tools – Tool Controlled Tension and Cut-Off	B1.113
Hand Tool Accessories	B1.113
Tool Tension Locking Kits	B1.114
Blade Replacement Kits	B1.114
Hand Tool Holster	B1.114

★ Represents new product offering.

A.  
System  
Overview

## Table of Contents

B1.  
Cable Ties

Cushion Sleeve Kits	B1.114
<b>Automatic Cable Tie Installation Systems</b>	B1.115
Selection Guide – Automatic Installation Systems and Reel-Fed Cable Ties	B1.116
Tool Head	B1.117
Dispenser	B1.117
Transfer Hose	B1.118
Dispenser Frame	B1.118
Filter/Regulator and Air Supply Hose	B1.118
Bench Mount	B1.118
Data Interface Software and Ethernet Enabled Dispenser	B1.119
PAT/Robot Integration Kit	B1.119
BT-XMR Reel-Fed Cable Ties	B1.120
PLT-XMR Reel-Fed Cable Ties	B1.121
PLT-VMR Reel-Fed Cable Ties	B1.122

B2.  
Cable  
Accessories

B3.  
Stainless  
Steel Ties

C1.  
Wiring  
Duct

## Cable Accessories

<b>Cable Accessories</b>	B2.1
Cable Accessories Products Overview	B2.2 – B2.3
4-Way Adhesive Backed Cable Tie Mounts	B2.4 – B2.5
ABMQ Multiple Bridge Mounts	B2.6
Tak-Ty® Hook & Loop Cable Tie Mounts	B2.6
Super-Grip® Adhesive Back Mounts	B2.7
Combination Adhesive Mount/Cable Ties	B2.8
Snap-In Cable Tie Mounts – Mechanically Applied	B2.8
Epoxy Applied Mounts	B2.9
Epoxy Applied Swivel Mount	B2.9
Epoxy Applied Cable Tie Mount Kits	B2.9
Tie Mounts – Applied with User Supplied Adhesives	B2.10
Low Profile Mounts – Screw Applied	B2.10
Cable Tie Mounts – Screw Applied	B2.11
Extra-Heavy Cable Tie Mounts – Screw Applied	B2.12
Swivel Mounts	B2.12
4-Way Tie Anchor Mounts – Screw Applied	B2.13
Tie Anchor Mounts	B2.13
Low Profile Mounts – Screw Applied	B2.13
Low Profile Mounts – Push Rivet Applied	B2.14
Cable Tie Plates	B2.15
Multiple Tie Plates	B2.15 – B2.16
Contour Multiple Tie Plates	B2.16
Right Angle Mounts	B2.17
Lightening Hole Mounts	B2.17
Stud Tie Mounts	B2.18
Metal Clip-On Mounts	B2.18
Metal Screw-On Mount	B2.19
Push Barb Cable Tie Mounts	B2.19
Push Mounts	B2.20
Push Button Mount	B2.20
Masonry Push Mounts	B2.21
Wood Push Mount	B2.21
Fir Tree Push Mounts	B2.22
Fir Tree Push Mount Assemblies	B2.22
Control Panel Mounts	B2.23
Pan-Post™ Standoff	B2.23
Flat Pan-Post™ Standoffs	B2.24
Right Angle Bases	B2.24
Flat Cable Mounting System – FCB Base and FCPI Plate	B2.25
Closed Connector Rings	B2.26
Open Connector Ring	B2.26
Cable Spacers	B2.26
Cable Spacer Cross	B2.27
Stackable Aerial Cable Spacer	B2.27
Aerial Support Ties – Weather Resistant Polypropylene	B2.28
Permanent Marking Pens	B2.28
Marker Plates – Loose Piece	B2.29
Cable and Wire Mounting Devices (used without cable ties)	B2.30
Adhesive Backed Mounting Devices	B2.30
Clincher™ Adjustable Releasable Clamp	B2.30

★ Represents new product offering.

## Table of Contents

Adhesive Backed Cord Clips .....	B2.31
Push Mount Cord Clip .....	B2.31
“J” Clips .....	B2.32
A1C Type Clips .....	B2.32
A2C Type Clips .....	B2.33
Metal Adhesive Backed Cord Clips .....	B2.33
Latching Wire Clips .....	B2.34
Bevel Entry Clips .....	B2.35
Adhesive Backed Dual Cord Clip .....	B2.36
Adhesive Backed Mount Cord Clip .....	B2.36
Vertical Cord Clips .....	B2.36
Adhesive Backed Latching Clips .....	B2.37
Cable Holder – Adhesive Backed .....	B2.37
Low Profile Flat Cable Mounts .....	B2.37
Latching Flat Cable Mounts .....	B2.38
Latching Flat Cable Holders .....	B2.38
Flat Cable Clips .....	B2.39
Pan-Clamp™ Heavy Duty Fixed Diameter Clamps .....	B2.39
Fixed Diameter Cable Clamps .....	B2.40
Wire Retainers .....	B2.41
Siding Clips .....	B2.42
Wire Standoffs .....	B2.42
Snap-In Clips .....	B2.43
Wire Saddles .....	B2.43
★ Corrugated Tubing Holder with Push Mount .....	B2.44
Harness Clips .....	B2.44
Optical Fiber Network Saddles .....	B2.45
Nylon Edge Clips .....	B2.45
Wire Bundle Strap .....	B2.45
Circuit Board Posts .....	B2.46
Circuit Board Locking Supports .....	B2.46
<b>Harness Board Accessories</b> .....	B2.47
Elastic Retainers .....	B2.47
Elastic Retainers – ER Type .....	B2.47
Bundle Retainers .....	B2.48
Corner Posts .....	B2.48
T-Junction Fixture .....	B2.48
Wire End Holder .....	B2.49
Harness Board Nails .....	B2.49
Fanning Strip System .....	B2.50
Spring Wire Breakout System .....	B2.50
Tie Harness Mounts .....	B2.51
Harness Board Standoff Posts and Adapter .....	B2.51
★ Automatic Cable Tie Mounts .....	B2.52
★ Harness Board Fixtures .....	B2.52
Physical Properties and Colors of Cable Accessory Materials .....	B2.53
Application Chart .....	B2.53
Selection and Use of Adhesive Mounts .....	B2.54 – B2.55

## Stainless Steel Cable Ties and Accessories

<b>Pan-Steel® System</b> .....	B3.1
Pan-Steel® Products Overview .....	B3.2 – B3.3
Features and Benefits – Pan-Steel® Cable Ties .....	B3.4
Part Number System for Pan-Steel® Cable Ties .....	B3.5
Pan-Steel® Self-Locking Cable Ties – MLT Series .....	B3.5 – B3.7
Pan-Steel® Polyester Fully Coated Cable Ties – MLTFC Series .....	B3.8
Pan-Steel® Nylon 11 Selectively Coated Ties – MLTC Series .....	B3.9
Pan-Alum™ Aluminum Cable Ties – MLT Series .....	B3.10
Pan-Steel® Double Wrapped Cable Ties – MLTD Series .....	B3.11
Pan-Steel® Custom Length Banding – MBS, MBH, MBEH and MBSH Series .....	B3.12 – B3.13
Pan-Steel® Custom Length Banding Heads – MTH Series .....	B3.13
GS4MT Hand Operated Installation Tool .....	B3.14
Tool Tension Locking Kits .....	B3.14
ST2MT Installation Tool .....	B3.15
RT2HT and RT2HTN Installation Tools .....	B3.15
HTMT Installation Tool .....	B3.15
PPTMT Pneumatic Installation Tool .....	B3.16

★ Represents new product offering.

A.  
System  
Overview

## Table of Contents

B1.  
Cable Ties

★PBTMT Battery Powered Installation Tools	B3.16
Features and Benefits – Pan-Steel® Retained Tension Ties – MRT/MRS Series	B3.17
Part Number System for Pan-Steel® Retained Tension Ties – MRT Series	B3.18

B2.  
Cable  
Accessories

★Pan-Steel® Retained Tension Ties – MRT Series	B3.18
Part Number System for Pan-Steel® 360° Radial Seal Retained Tension Ties – MRS Series	B3.19
★Pan-Steel® 360° Radial Seal Retained Tension Ties – MRS Series	B3.19
Retained Tension Installation Tools	B3.20
Features and Benefits – Pan-Steel® Strapping System	B3.21

B3.  
Stainless  
Steel Ties

★The Panduit Method Reduces Installation Time	B3.22
Part Number System for Discrete Length Strapping	B3.22
★Pan-Steel® Strapping – MS Series	B3.23
Pan-Steel® Nylon 11 Coated Strapping – MSC Series	B3.24
★Pan-Steel® Custom Length Strapping	B3.25

C1.  
Wiring  
Duct

★Pan-Steel® Buckles for Custom Length Strapping	B3.25
BT2HT Hand Operated Installation Tool for Strapping	B3.26
★BT75SDT Hand Operated Installation Tool for MS75 Strapping	B3.26
PCS Cushion Sleeve	B3.26

C2.  
Surface  
Raceway

Stainless Steel Tie Mounts	B3.27
Stainless Steel Push Mount	B3.27
Stainless Steel Push Button Mount	B3.28
Stainless Steel 2-Way Tie Mount	B3.28
Stainless Steel Bulkhead Mount	B3.29

C3.  
Abrasion  
Protection

Stainless Steel Technical Information	B3.30
Panduit Stainless Steel Cable Tie and Strapping Approvals	B3.30
Chemical Resistance at 70°F (21°C) Temperature	B3.31
Rigorous Tests and Physical Properties of Stainless Steel	B3.32
Military Cross Reference (AS23190)	B3.32

C4.  
Cable  
Management

## Wiring Duct

<b>Wiring Duct</b>	C.1.1
--------------------	-------

D1.  
Terminals

Wiring Duct for Control Panel Applications	C.1.2 – C.1.3
Features and Benefits – Panduct® PanelMax™ DIN Rail Wiring Duct	C.1.4

D2.  
Power  
Connectors

★Panduct® PanelMax™ DIN Rail Wiring Duct	C.1.5
Features and Benefits – Panduct® PanelMax™ Noise Shield	C.1.6
★Panduct® PanelMax™ Noise Shield	C.1.7
Features and Benefits – Panduct® PanelMax™ Corner Wiring Duct	C.1.8
PanelMax™ Corner Wiring Duct	C.1.9

D3.  
Grounding  
Connectors

Features and Benefits – Panduct® Type H and HN Hinged Cover Wiring Duct	C.1.10
Panduct® Type HN Hinged Cover Narrow Slot Wiring Duct	C.1.11
Panduct® Type H Hinged Cover Wide Slot Wiring Duct	C.1.11
Panduct® Type HS Hinged Cover Solid Wall Raceway	C.1.11
Features and Benefits – Panduct® Type G Wide Slot Wiring Duct	C.1.12
Panduct® Type G Wide Slot Wiring Duct	C.1.13

E1.  
Labeling  
Systems

Features and Benefits – Panduct® Type F Narrow Slot Wiring Duct	C.1.14
Panduct® Type F Narrow Slot Wiring Duct	C.1.15
Features and Benefits – Panduct® Flush Cover Type D Round Hole Wiring Duct	C.1.16
Panduct® Flush Cover Type D Round Hole Wiring Duct	C.1.17
Features and Benefits – Panduct® Type MC Metric Narrow Slot Wiring Duct	C.1.18

E2.  
Labels

Panduct® Type MC Metric Narrow Slot Wiring Duct	C.1.19
Features and Benefits – Panduct® Type FS Solid Wall Raceway	C.1.20
Panduct® Type FS Solid Wall Raceway	C.1.21
Wiring Duct for Special Environments	C.1.22 – C.1.24

E3.  
Pre-Printed  
& Write-On  
Markers

Features and Benefits – Panduct® Type NNC Halogen-Free Metric Wiring Duct	C.1.22
Panduct® Type NNC Halogen-Free Metric Wiring Duct	C.1.23
Panduct® Type NNC Divider Wall	C.1.23
Panduct® Type NE Halogen-Free Wiring Duct	C.1.24

E4.  
Permanent  
Identification

<b>Wiring Duct Tools and Accessories</b>	C.1.25
Panduct® Type FL Flexible Wiring Duct	C.1.26
Panduct® Divider Wall	C.1.26
Panduct® Type NNC Divider Wall	C.1.27
Panduct® Type G and H Wiring Duct Wire Retainers	C.1.28

E5.  
Lockout/  
Tagout  
& Safety  
Solutions

Panduct® Solid Wall Raceway Type FS and Type D Wiring Duct Wire Retainer	C.1.28
Panduct® Type F, HN, and MC Duct Wire Retainers/Labeling Device	C.1.29
Panduct® Duct Corner Strip with 1 Inch Bend Radius Control	C.1.29
Panduct® Duct Corner Strips	C.1.30
Panduct® Snap-Clip Mounting Brackets	C.1.31

F.  
Index

★ Represents new product offering.

## Table of Contents

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

Panduct® Snap-Clip Mounting Bracket – Type NE Wiring Duct	C1.31
Adhesive Tape for Wiring Duct	C1.32
Specifications for Factory Applied Tape	C1.32
Adhesive Tape Guide	C1.33
Panduct® Installation Tools	C1.34
Panduct® PanelMax™ DIN Rail Wiring Duct Dimensions	C1.35
Panduct® PanelMax™ Noise Shield Dimensions	C1.35
Panduct® PanelMax™ Corner Wiring Duct Dimensions	C1.35
Panduct® Type G and D Wiring Duct Dimensions	C1.36
Panduct® Type F Wiring Duct and FS Raceway Dimensions	C1.37
Panduct® Type MC Wiring Duct Dimensions	C1.38
Panduct® Type NNC Wiring Duct Dimensions	C1.39
Panduct® Type NE Wiring Duct Dimensions	C1.40
Panduct® Type H and HS Wiring Duct Dimensions	C1.41
Panduct® Type HN Wiring Duct Dimensions	C1.41
Panduct® Type FL Wiring Duct Dimensions	C1.42
Panduct® PanelMax™ DIN Rail Wiring Duct – Wirefill Capacity	C1.42
Panduct® PanelMax™ Corner Wiring Duct – Wirefill Capacity	C1.42
Panduct® Type H, HN and HS Wiring Duct – Wirefill Capacity	C1.42
Panduct® Type D, G, F and FS Wiring Duct – Wirefill Capacity	C1.43
Panduct® Type MC and NNC Wiring Duct – Wirefill Capacity	C1.44
Panduct® Type NE Wiring Duct – Wirefill Capacity	C1.45
Panduct® Type FL Wiring Duct – Wirefill Capacity	C1.45
Wirefill Formula	C1.46
Panduct® Wiring Duct and Raceway – Material Specifications	C1.47
Panduct® Wiring Duct and Raceway – Color and Size Selection	C1.48
Installation Tips	C1.49
Part Number System for Panduct® Wiring Duct	C1.49
Part Number System for Panduct® PanelMax™ DIN Rail Wiring Duct	C1.50
Part Number System for Panduct® PanelMax™ Corner Wiring Duct	C1.50
Panduct® Wiring Duct Approvals and Compliance	C1.51 – C1.52
<b>Fiber-Duct™ Routing System</b>	C1.53
2x2 and 4x4 Fiber-Duct™ Routing Systems Roadmap	C1.54 – C1.55
2x2 and 4x4 Fiber-Duct™ Routing Systems	C1.56
Fiber-Duct™ System Fittings	C1.56 – C1.57
Fiber-Duct™ Spillouts	C1.58
Fiber-Duct™ Bend Radius Control Trumpets	C1.59
Fiber-Duct™ Accessories	C1.59
Fiber-Duct™ Mounting Brackets	C1.60 – C1.61
Cable Fills 2x2 and 4x4 Fiber-Duct™ Cable Routing Systems	C1.62

## Surface Raceway

<b>Pan-Way® Non-Metallic Surface Raceway</b>	C2.0
<b>Pan-Way® TG-70 Non-Metallic Surface Raceway</b>	C2.1
TG-70 Raceway Roadmap	C2.2 – C2.3
TG-70 Configurations	C2.4 – C2.5
Pan-Way® TG-70 Surface Raceway System	C2.6
Pan-Way® TG-70 Raceway Fittings	C2.7
Pan-Way® TG-70 Raceway Accessories	C2.8
Cable Fill Capacities for TG-70 Raceway	C2.9
<b>Pan-Way® T-70 and Twin-70 Non-Metallic Surface Raceway</b>	C2.11
T-70 Raceway Roadmap	C2.12 – C2.13
T-70 Configurations	C2.14 – C2.15
Twin-70 Raceway Roadmap	C2.16 – C2.17
Pan-Way® T-70 Surface Raceway System	C2.18
Pan-Way® T-70 Raceway Fittings	C2.18 – C2.19
Pan-Way® Twin-70 Surface Raceway System	C2.20
Pan-Way® Twin-70 Raceway Fittings	C2.21
Pan-Way® T-70 and Twin-70 Raceway Accessories	C2.22
Cable Fill Capacities for T-70 Raceway	C2.23
Cable Fill Capacities for Twin-70 Raceway	C2.24
<b>Pan-Way® T-45 Non-Metallic Surface Raceway</b>	C2.25
T-45 Raceway Roadmap	C2.26 – C2.27
T-45 Configurations	C2.28 – C2.29
Pan-Way® T-45 Surface Raceway System	C2.30
Pan-Way® Type T-45 Raceway Fittings	C2.31
Cable Fill Capacities for T-45 Raceway	C2.32

★ Represents new product offering.



A.  
System  
Overview

## Table of Contents

B1.  
Cable Ties

<b>Pan-Way® Snap-On Faceplates and Surface Mount Outlet Boxes</b> .....	C2.33
Pan-Way® Fast-Snap™ Surface Mount Outlet Boxes .....	C2.34
Pan-Way® Classic Series Snap-On Faceplates for Use with Panduit® Mini-Com® Modules .....	C2.34
Component Labels for Pan-Way® Classic Series Snap-On Faceplates for Use with	

B2.  
Cable  
Accessories

Panduit® Mini-Com® Modules and Inserts .....	C2.34
Pan-Way® Classic Series Snap-On Faceplates for Use with Panduit® Mini-Com® Inserts .....	C2.35
Pan-Way® Classic Series Snap-On Faceplates for Communication/Power .....	C2.35
Panduit® NetKey® Snap-On Sloped Keystone Faceplates .....	C2.36
Panduit® NetKey® Snap-On Flush Universal Keystone Faceplates .....	C2.36

B3.  
Stainless  
Steel Ties

Component Labels for Snap-On “Sloped” (Keystone) Faceplates and Snap-On “Flush”	
Universal (Keystone) Faceplates .....	C2.36
Pan-Way® Snap-On Faceplates for SYSTIMAX® Communication Modules .....	C2.37
Component Labels for Pan-Way® Snap-On Faceplates for use with SYSTIMAX® Communication Modules .....	C2.37
Component Labels for Pan-Way® Snap-On Faceplates for Nordx/CDT® Communication Modules .....	C2.38

C1.  
Wiring  
Duct

Pan-Way® Low Voltage Surface Mount Outlet Boxes .....	C2.39
Pan-Way® Power Rated Surface Mount Outlet Boxes .....	C2.40 – C2.41
Pan-Way® Classic Series Faceplates for Power and Communication Applications .....	C2.42
Component Labels for Pan-Way® Classic Series Faceplates for Power and Communication Applications .....	C2.42

C2.  
Surface  
Raceway

Pan-Way® Stainless Steel Faceplates .....	C2.43
Pan-Way® Electrical Outlets .....	C2.43
Pan-Way® Surface Mount Outlet Box with 20 A Electrical Outlet .....	C2.43
Selection Chart for using Pan-Way® Surface Raceway with Pan-Way® Surface Mount Outlet Boxes .....	C2.44

C3.  
Abrasion  
Protection

<b>Pan-Way® LD Profile Non-Metallic Surface Raceway</b> .....	C2.45
LD2P10 Profile Raceway Roadmap .....	C2.46 – C2.47
LD2P10 Configurations .....	C2.48 – C2.49
LD Profile Raceway Roadmap .....	C2.50 – C2.51
LD Configurations .....	C2.52 – C2.53

C4.  
Cable  
Management

LDPH Profile Raceway Roadmap .....	C2.54 – C2.55
LDPH Configurations .....	C2.56
Pan-Way® Type LD2P10 Multi-Channel Surface Raceway System .....	C2.57
Multi-Channel Fittings for LD2P10 .....	C2.57
Pan-Way® LD Surface Raceway System .....	C2.58

D1.  
Terminals

Pan-Way® LDPH Surface Raceway System .....	C2.59
Pan-Way® LDS Surface Raceway System .....	C2.60
Method for Bending Type LDS Raceway (Low Voltage Applications) .....	C2.60
Standard Fittings for Low Voltage Applications .....	C2.61

D2.  
Power  
Connectors

One Inch Bend Radius Fittings for TIA/EIA Compliance .....	C2.62
Power Rated Fittings for Power to 600 V – LDPH/LDS/LD2P Raceway Only .....	C2.63
Raceway Adapters for LD Raceway .....	C2.64
Cable Fill Capacities for LD Profile Raceway .....	C2.64

D3.  
Grounding  
Connectors

★ Floor Guard .....	C2.65
Pan-Way® Surface Raceway Cutting Tool .....	C2.65
Foam Tape .....	C2.66
<b>Pan-Way® Cove Raceway</b> .....	C2.67
Cove Raceway Roadmap .....	C2.68 – C2.69

E1.  
Labeling  
Systems

Cove Configurations .....	C2.70 – C2.71
Pan-Way® Cove Raceway System .....	C2.72
Pan-Way® Cove Raceway Fittings .....	C2.73
Cable Fill Capacities for Cove Raceway .....	C2.74

E2.  
Labels

<b>Pan-Way® Office Furniture Raceway</b> .....	C2.75
Office Furniture Raceway Roadmap .....	C2.76 – C2.77
Office Furniture Configurations .....	C2.78 – C2.79
Pan-Way® Office Furniture Raceway System .....	C2.80

E3.  
Pre-Printed  
& Write-On  
Markers

Pan-Way® Office Furniture Raceway Fittings .....	C2.80 – C2.83
Cable Fill Capacities for Office Furniture Raceway .....	C2.84
<b>Pan-Pole™ Power and Communication Poles</b> .....	C2.85
Pan-Pole™ Power Pole .....	C2.86

E4.  
Permanent  
Identification

Installation of Communication Outlets on Pan-Pole™ Power Pole .....	C2.88
Pan-Pole™ Communication Pole .....	C2.89
Installation of Communication Outlets on Pan-Pole™ Communication Pole .....	C2.90 – C2.91
Pan-Pole™ Extension Kits .....	C2.92
Pan-Pole™ Power Addition Kits and Standard Faceplate Bracket .....	C2.92

E5.  
Lockout/  
Tagout  
& Safety  
Solutions

Pan-Pole™ Replacement Parts .....	C2.93
Cable Fill Capacities for Pan-Pole™ Power and Communication Poles .....	C2.94

## Abrasion Protection

\*SYSTIMAX is a registered trademark of Commscope, Inc.

\*\*Nordx/CDT is a registered trademark of Nordx/CDT, Inc.

★ Represents new product offering.

## Table of Contents

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

<b>Abrasion Protection</b> .....	C3.1
Pan-Wrap™ Split Harness Wrap .....	C3.2
Pan-Wrap™ Installation Tools .....	C3.3
Part Number System for Spiral Wrap .....	C3.3
Spiral Wrap .....	C3.4 – C3.7
Part Number System for Grommet Edging .....	C3.8
Grommet Edging .....	C3.8 – C3.10
Part Number System for Corrugated Loom Tubing .....	C3.11
Corrugated Loom Tubing – Slit and Solid Wall .....	C3.11 – C3.13
Corrugated Loom Tubing Fittings .....	C3.14
Part Number System for Braided Expandable Sleeving .....	C3.14
Braided Expandable Sleeving – Polyethylene Terephthalate (PET) .....	C3.15
Braided Expandable Sleeving – Flame Retardant Polyethylene Terephthalate .....	C3.16
Tooling Head .....	C3.16
Fray Resistant Braided Expandable Sleeving .....	C3.17
Part Number System for Non-Shrink PVC Tubing .....	C3.18
Non-Shrink PVC Tubing .....	C3.18
Duct Seal – Sealing Compounds .....	C3.18
Flammability Tests and Materials Classification .....	C3.19
Abrasion Protection Materials Technical Data .....	C3.20 – C3.21
Panduit® Heat Shrink Tubing Selection Guide .....	C3.22
Part Number System for Thin Wall Heat Shrink .....	C3.23
HSTT Heat Shrink 4 Foot Pieces and Reels .....	C3.24 – C3.25
HSTT Heat Shrink on 25 Foot Reels .....	C3.25
Heat Shrink in 6 Inch Pieces; Black, Single Diameter .....	C3.26
Heat Shrink in 6 Inch Pieces; Multi-Color, Single Diameter .....	C3.26
Heat Shrink in 6 Inch Pieces; Black, Multiple Diameters .....	C3.27
Heat Shrink in 6 Inch Pieces; Yellow/Green Stripe, Multiple Diameters .....	C3.27
HSTTV Heat Shrink 4 Foot Pieces .....	C3.28
HSTTV Heat Shrink on 100 Foot Reels .....	C3.29
HSTTV Heat Shrink on Bulk Reels .....	C3.30
HSTTV Heat Shrink on 25 Foot Reels .....	C3.31
HSTTV Heat Shrink 6 Inch Pieces .....	C3.31
HSTTP PVC Heat Shrink .....	C3.32
HSTTPN Crystal Clear PVC Heat Shrink .....	C3.33
HSTTN Neoprene Heat Shrink .....	C3.33
TEFLON▲ Heat Shrink .....	C3.34
HSTTK KYNAR® Heat Shrink 4 Foot .....	C3.35
HSTTVA Heat Shrink 4 Foot Pieces and 6 Inch Pieces .....	C3.35 – C3.36
HSTTA Heat Shrink 4 Foot and 6 Inch Pieces .....	C3.36
HSTT4A Heat Shrink 4 Foot Pieces .....	C3.37
HSTTRA Heat Shrink 4 Foot Pieces .....	C3.37
Thick Wall Polyolefin Heat Shrink .....	C3.38
Heat Shrink End Caps .....	C3.39
Plastic Heat Shrink Tubing Kit Boxes – For Dry Locations .....	C3.40
Heat Shrink Tools and Accessories .....	C3.40
Heat Shrink Process Defined .....	C3.41
Heat Shrink Installation Instructions .....	C3.42
Recommended Tubing Size for Common Wire Types Based on Location .....	C3.43
Dry-Shrink™, Damp-Shrink™, and Wet-Shrink™ Heat Shrink Tubing Technical Data .....	C3.44

## Cable Management

<b>Cable Management</b> .....	C4.1
Cool Boot™ Raised Floor Assembly .....	C4.2 – C4.3
J-Pro™ Cable Support System .....	C4.4 – C4.7
J-Mod® Cable Support System .....	C4.8
★ Bridle Rings and Fastening Clip .....	C4.9
★ Low Voltage Mounting Brackets .....	C4.9
★ Metal Stud Accessories .....	C4.10
Conduit Waterfall .....	C4.10
Waterfall Accessories .....	C4.11
Double Waterfall Accessory .....	C4.11
Stackable Cable Rack Spacers .....	C4.12
Threaded Rod Cover .....	C4.12
Vertical D-Rings .....	C4.13
Tak-Ty® Hook & Loop Cable Tie Mounts .....	C4.13

▲TEFLON is a registered trademark of E.I. du Pont de Nemours and Company. \*KYNAR is a registered trademark of Atofina Chemicals, Inc.

★ Represents new product offering.

A.  
System  
Overview

## Table of Contents

B1.  
Cable Ties

Flat Pan-Post™ Standoffs	C4.14
Communication Cable Management Kit for Cabinets	C4.14

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

## Terminals

<b>Pan-Term® Terminals</b>	D1.1
Features and Benefits – Pan-Term® Terminals	D1.2
Selection Guide – Pan-Term® Ring Terminals	D1.3
Selection Guide – Pan-Term® Fork Terminals	D1.4
Part Number System for Pan-Term® Terminals	D1.5
Ring Terminal, Nylon Insulated	D1.6
Ring Terminal, Nylon Insulated – Funnel Entry	D1.7
Ring Terminal, Nylon Insulated – Expanded Insulation	D1.8
Multiple Stud Terminal, Nylon Insulated	D1.8
Ring Terminal, Vinyl Insulated – Funnel Entry	D1.9
Ring Terminal, Vinyl Expanded Insulation	D1.10
Multiple Stud Terminal, Vinyl Insulated – Funnel Entry	D1.11
Ring Terminal, KYNAR® Insulated	D1.12
Heat Shrink, Ring Terminal	D1.13
Ring Terminal, Heavy Duty, Nylon Insulated	D1.13
Ring Terminal, Heavy Duty, Vinyl Insulated – Funnel Entry	D1.14
Ring Terminal, Large Wire, Vinyl Insulated	D1.15
Ring Terminal, Large Wire, Vinyl Expanded Insulation	D1.16
Ring Terminal, Non-Insulated	D1.17
Multiple Stud Terminal, Non-Insulated	D1.18
Ring Terminal, Non-Insulated – High Temperature	D1.19
Ring Terminal, Heavy Duty Non-Insulated	D1.20
Ring Terminal, Large Wire Non-Insulated	D1.20
Tubular Ring Terminal, Non-Insulated	D1.21
Fork Terminal, Nylon Insulated	D1.22
Fork Terminal, Nylon Insulated – Funnel Entry	D1.22
Fork Terminal, Vinyl Insulated – Funnel Entry	D1.23
Fork Terminal, Vinyl Insulated – Expanded Insulation	D1.24
Locking Fork Terminal, Nylon Insulated	D1.24
Locking Fork Terminal, Nylon Insulated – Funnel Entry	D1.25
Locking Fork Terminal, Vinyl Insulated – Funnel Entry	D1.25
Locking Fork Terminal, Vinyl Insulated – Expanded Insulation	D1.26
Short Locking Fork Terminal, Nylon Insulated	D1.26
Short Locking Fork Terminal, Nylon Insulated – Funnel Entry	D1.27
Short Locking Fork Terminal, Vinyl Insulated – Funnel Entry	D1.27
Flanged Fork Terminal, Nylon Insulated	D1.28
Flanged Fork Terminal, Vinyl Insulated – Funnel Entry	D1.28
Fork Terminal, Non-Insulated	D1.29
Flanged Fork Terminal, Non-Insulated	D1.30
Locking Fork Terminal, Non-Insulated	D1.30
Short Locking Fork Terminal, Non-Insulated	D1.31
Heat Shrink, Fork Terminal	D1.31
Features and Benefits – Pan-Term® Metric Terminals	D1.32
Part Number System for Pan-Term® Metric Terminals	D1.33
Metric Ring Terminal, Nylon Insulated – Funnel Entry	D1.33
Metric Ring Terminal, Vinyl Insulated – Funnel Entry	D1.34
Metric Ring Terminal, Non-Insulated	D1.34
Metric Fork Terminal, Nylon Insulated – Funnel Entry	D1.35
Metric Fork Terminal, Vinyl Insulated – Funnel Entry	D1.35
Metric Fork Terminal, Non-Insulated	D1.36
Plastic Box Terminal Kits	D1.36
★ Fabric Terminal Kit	D1.36
Steel Kit Boxes	D1.37
Steel Slide Racks	D1.37
Industrial Maintenance Kits	D1.38
<b>Pan-Term® Disconnects</b>	D1.39
Features and Benefits – Pan-Term® Disconnects	D1.40 – D1.41
Selection Guide – Pan-Term® Disconnects	D1.42
Part Number System for Pan-Term® Disconnects	D1.43
Supra-Grip™ Female Disconnect, Nylon Fully Insulated – Funnel Entry	D1.43
Disco-Lok™ Female Disconnect, Nylon Fully Insulated – Funnel Entry	D1.44
Male/Female Coupler, Nylon Fully Insulated – Funnel Entry	D1.44
Female Disconnect Nylon Fully Insulated – Funnel Entry	D1.45
Female Disconnect, Nylon Fully Insulated – Funnel Entry, Metal Collar	D1.45
DiscoGrip™ Male Disconnect, Premium Nylon Fully Insulated – Funnel Entry	D1.46

★ Represents new product offering.

\*KYNAR is a registered trademark of Atofina Chemicals, Inc.

## Table of Contents

DiscoGrip™ Female Disconnect, Premium Nylon Fully Insulated – Funnel Entry	D1.46
Heat Shrink Disconnects, Fully Insulated – Funnel Entry	D1.47
Female Disconnect, Nylon Barrel Insulated – Funnel Entry	D1.47
Female Disconnect, Vinyl Barrel Insulated – Funnel Entry	D1.48
Female Disconnect, Vinyl Barrel Insulated – Butted Seam	D1.48
Female Disconnect, Non-Insulated – Metal Sleeve	D1.49
Right Angle Female Disconnect, Nylon Fully Insulated – Funnel Entry	D1.49
Right Angle Female Disconnect, Nylon Insulated – Funnel Entry	D1.50
Right Angle Female Disconnect, Non-Insulated – Metal Sleeve	D1.50
Right Angle Female Disconnect Non-Insulated	D1.51
Piggyback Disconnect, Vinyl Insulated	D1.51
Disconnect Adapter, Non-Insulated	D1.51
Male Disconnect, Nylon Barrel Insulated – Funnel Entry	D1.52
Male Disconnect, Vinyl Barrel Insulated – Funnel Entry	D1.52
Male Disconnect, Non-Insulated – Butted Seam	D1.53
Selection Guide – Specialty Terminals	D1.54
Pin Terminal, Vinyl Insulated – Funnel Entry	D1.54
Pin Terminal, Non-Insulated	D1.54
Male Blade Adapter, Vinyl Insulated – Funnel Entry	D1.55
Male Blade Adapter, Non-Insulated	D1.55
Features and Benefits – Pan-Term® Metric Disconnects	D1.56
Part Number System for Pan-Term® Metric Disconnects	D1.57
Female Metric Disconnect, Fully Insulated Nylon – Funnel Entry	D1.57
Female Metric Disconnect, Nylon Barrel Insulated – Funnel Entry	D1.58
Female Metric Disconnect, Vinyl Barrel Insulated – Funnel Entry	D1.58
Female Metric Disconnect, Non-Insulated – Metal Sleeve	D1.58
Piggyback Metric Disconnect, Vinyl Barrel Insulated	D1.59
Male Metric Disconnect, Fully Insulated Nylon – Funnel Entry	D1.59
Male Metric Disconnect, Nylon Barrel Insulated – Funnel Entry	D1.59
Male Metric Disconnect, Non-Insulated – Butted Seam	D1.60
Metric Pin Terminal, Vinyl Insulated – Funnel Entry	D1.60
Metric Pin Terminal, Non-Insulated	D1.60
<b>Pan-Term® Splices</b>	D1.61
Features and Benefits – Pan-Term® Splices and Wire Joints	D1.62 – D1.63
Selection Guide – Pan-Term® Splices and Wire Joints	D1.64
Part Number System for Pan-Term® Splices	D1.64
Part Number System for Pan-Term® Wire Joints	D1.64
Butt Splice, Nylon Insulated	D1.65
Butt Splice, Vinyl Insulated	D1.65
Butt Splice, Non-Insulated	D1.66
Parallel Splice, Nylon Insulated	D1.66
Parallel Splice, Non-Insulated	D1.67
Wire Joint, Nylon Insulated	D1.67
Wire Joint, Non-Insulated	D1.68
Heat Shrink, Butt Splices	D1.68
Metric Butt Splice, Vinyl Insulated	D1.68
Metric Butt Splice, Non-Insulated	D1.69
Metric Wire Joints, Nylon Insulated	D1.69
<b>Pan-Term® Ferrules</b>	D1.70
Features and Benefits – Pan-Term® Ferrules	D1.71
Selection Guide – Pan-Term® Ferrules	D1.72
Part Number System for Pan-Term® Ferrules	D1.72
Insulated Ferrules – Single Wire DIN End Sleeve	D1.73
Insulated Ferrules – Single Wire French End Sleeve	D1.74
Insulated Ferrules – Twin Wire DIN End Sleeve	D1.75
Insulated Ferrules on Strips – Single Wire	D1.75
Ferrules, Non-Insulated	D1.76 – D1.77
Ferrule Assortment Kits	D1.78
<b>Terminal Crimping Tools</b>	D1.79
Crimping Guidelines for Panduit® Pan-Term® Terminals, Disconnects, Splices and Wire Joints	D1.80 – D1.82
Hand Operated Plier Type Tools	D1.83
Wire and Cable Stripping Tools	D1.83
Contour Crimp™ Controlled Cycle Tools	D1.84
Controlled Cycle Crimping Tools	D1.85
Controlled Cycle Crimping Tools – Ferrule End Sleeve	D1.85
Semiautomatic Ferrule Crimping Tool CT-1000	D1.86
Controlled Cycle Crimping Tools – In-Line	D1.86
Pneumatic Crimping Tool	D1.86
Die Type, Manual, Crimping Tool	D1.87
CD-720 Crimping Dies	D1.87

★ Represents new product offering.

A.  
System  
Overview

## Table of Contents

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

CT-2500 Battery Powered Crimping Tool	D1.88
★CT-2600 Battery Powered Hydraulic, 4 Ton, Crimping Tool	D1.89
Tooling Selection Guide for Panduit Terminals, Splices, and Disconnects	D1.90 – D1.92
Tooling Selection Guide for Panduit Tubular Ring Terminals	D1.93
Tooling Selection Guide for Panduit Ferrules	D1.94
Technical Specification and Selection Information	D1.95
Panduit Terminal Approvals	D1.95
Performance Requirements	D1.96
Panduit® Pan-Term® Terminal Military Cross Reference	D1.96
Stud Size Chart (Inches/mm)	D1.97
Equivalent Tables	D1.98
Common Conductor Size Chart (Stranded Wire)	D1.98
Common Conductor Sizes and Strandings Reference Chart	D1.99 – D1.100
<b>Reel Smart™ System</b>	D1.101
Features and Benefits – Reel Smart™ Termination System	D1.102
Reel Smart™ CA9 Ezair™ Universal Applicator	D1.102
Nylon Insulated Terminals with Insulation Grip Sleeve (Funnel and Non-Funnel Entry Types)	D1.102
Part Number System for Reel Smart™ Terminals	D1.103
Ring Terminals, Nylon Insulated – Non-Funnel Entry	D1.103
Ring Terminals, Nylon Insulated – Funnel Entry	D1.104
Ring Terminals, Vinyl Insulated – Funnel Entry	D1.105
Multiple Stud Ring Terminals, Vinyl Insulated – Funnel Entry	D1.105
Ring Terminals, Nylon Insulated – Heavy Duty	D1.106
Ring Terminals, Vinyl Insulated – Heavy Duty	D1.106
Fork Terminals, Nylon Insulated – Non-Funnel Entry	D1.107
Fork Terminals, Nylon Insulated – Funnel Entry	D1.108
Fork Terminals, Vinyl Insulated – Funnel Entry	D1.109
Locking Fork Terminals, Nylon Insulated – Non-Funnel Entry	D1.110
Locking Fork Terminals, Nylon Insulated – Funnel Entry	D1.110
Locking Fork Terminals, Vinyl Insulated – Funnel Entry	D1.111
Short Locking Fork Terminals, Nylon Insulated – Non-Funnel Entry	D1.112
Short Locking Fork Terminals, Nylon Insulated – Funnel Entry	D1.112
Short Locking Fork Terminals, Vinyl Insulated – Funnel Entry	D1.113
Flanged Fork Terminals, Nylon Insulated – Non-Funnel Entry	D1.113
Flanged Fork Terminals, Nylon Insulated – Funnel Entry	D1.114
Flanged Fork Terminals, Vinyl Insulated – Funnel Entry	D1.114
Features and Benefits – Reel Smart™ Metric Terminals	D1.115
Part Number System for Reel Smart™ Metric Terminals	D1.115
Metric Ring Terminals, Nylon Insulated – Non-Funnel Entry	D1.116
Metric Ring Terminals, Nylon Insulated – Funnel Entry	D1.117
Metric Ring Terminals, Vinyl Insulated – Funnel Entry	D1.118
Metric Fork Terminals, Nylon Insulated – Non-Funnel Entry	D1.119
Metric Fork Terminals, Nylon Insulated – Funnel Entry	D1.119
Metric Fork Terminals, Vinyl Insulated – Funnel Entry	D1.120
Features and Benefits – Reel Smart™ Disconnects	D1.121
Part Number System for Reel Smart™ Disconnects	D1.122
Supra-Grip™ Female Disconnects, Nylon Fully Insulated – Funnel Entry	D1.122
Disco-Lok™ Female Disconnects, Nylon Fully Insulated – Funnel Entry	D1.123
Female Disconnects, Nylon Fully Insulated – Funnel Entry	D1.123
Disco™ Female Disconnects, Nylon Fully Insulated – Expanded Wire Entry	D1.124
Disco™ Female Disconnects, Nylon Fully Insulated – Right Angle	D1.124
Disco™ Female Disconnects, Vinyl Barrel Insulated – Funnel Entry	D1.125
DiscoGrip™ Female Disconnects, Fully Insulated	D1.126
DiscoGrip™ Male Disconnects, Fully Insulated	D1.127
Disco™ Male Disconnects, Nylon Fully Insulated – Funnel Entry	D1.128
Disco™ Male Disconnects, Nylon Fully Insulated – Expanded Wire Entry	D1.128
Disco™ Male Disconnects, Nylon Barrel Insulated – Funnel Entry	D1.129
Disco™ Male Disconnects, Vinyl Barrel Insulated – Funnel Entry	D1.129
Pin Terminals, Vinyl Insulated – Funnel Entry	D1.130
Male Blade Adapters, Vinyl Insulated – Funnel Entry	D1.130
Butt Splices Nylon Insulated and Premium Grade Nylon	D1.130
Features and Benefits – Reel Smart™ Metric Disconnects	D1.131
Part Number System for Reel Smart™ Metric Disconnects	D1.132
Metric Supra-Grip™ Female Disconnects, Nylon Fully Insulated – Funnel Entry	D1.132
Metric Disco-Lok™ Female Disconnects, Nylon Fully Insulated – Funnel Entry	D1.133
Metric Female Disconnects, Nylon Fully Insulated – Funnel Entry	D1.133
Metric Disco™ Female Disconnects, Nylon Fully Insulated – Expanded Wire Entry	D1.134
Metric Disco™ Female Disconnects, Nylon Fully Insulated – Right Angle	D1.134
Metric Disco™ Female Disconnects, Vinyl Barrel Insulated – Funnel Entry	D1.135
Metric DiscoGrip™ Female Disconnects, Fully Insulated – Funnel Entry	D1.135

★ Represents new product offering.

## Table of Contents

Metric DiscoGrip™ Male Disconnects, Fully Insulated – Funnel Entry	D1.136
Metric Disco™ Male Disconnects, Nylon Fully Insulated – Funnel Entry	D1.136
Metric Disco™ Male Disconnects, Nylon Fully Insulated – Expanded Wire Entry	D1.137
Metric Disco™ Male Disconnects, Nylon Barrel Insulated – Funnel Entry	D1.137
Metric Disco™ Male Disconnects, Vinyl Barrel Insulated – Funnel Entry	D1.138
Metric Pin Terminals, Vinyl Insulated – Funnel Entry	D1.138
Metric Male Blade Adapters, Vinyl Insulated – Funnel Entry	D1.139
Metric Butt Splices, Nylon Insulated	D1.139
Features and Benefits – Reel Smart™ Ferrules	D1.140
Part Number System for Reel Smart™ Ferrules	D1.140
Insulated Ferrules on Strips – Single Wire	D1.141
Semiautomatic Ferrule Crimping Tool – CT-1000	D1.142
Insulated Ferrules on Reels – Single Wire	D1.142
Reel Smart™ Ferrule Applicator – CA10	D1.143
CA9 Ezair™ and CA-800EZ Applicators	D1.143
Electric Bench Press	D1.144
Die Sharpening Kits	D1.144
Die Information	D1.145 – D1.146
CA10, CA9 Ezair™ and CA-800EZ Applicators Wire Processing Machine Manufacturer/Press Compatibility	D1.147
Performance Requirements	D1.148

## Power Connectors

Compression Connector Reference Information	D2.0
<b>Pan-Lug™ Compression Connectors</b>	D2.1
Features and Benefits – Pan-Lug™ Compression Connectors	D2.2
Selection Guide – Pan-Lug™ Copper Compression Connectors for Copper Code Conductor	D2.3
Selection Guide – Pan-Lug™ Copper Compression Connectors for Copper Code and/or Flex Conductor	D2.4
Selection Guide – Pan-Lug™ Aluminum Compression Connectors for Aluminum or Copper Code Conductor	D2.5
Part Number System for Pan-Lug™ Compression AWG Lugs	D2.6
Code Conductor, One-Hole, Short Barrel with Window Lug	D2.7 – D2.8
Code Conductor, One-Hole, Short Barrel with Window Lug, 45° Angle	D2.9 – D2.10
Code Conductor, One-Hole, Short Barrel with Window Lug, 90° Angle	D2.11 – D2.12
Code Conductor, One-Hole, Standard Barrel with Window Lug	D2.13 – D2.14
Code Conductor, One-Hole, Standard Barrel with Window Lug, 45° Angle	D2.15 – D2.16
Code Conductor, One-Hole, Standard Barrel with Window Lug, 90° Angle	D2.17 – D2.18
Code Conductor, One-Hole, Standard Barrel with Window, Narrow Tongue Lug	D2.19 – D2.20
Code Conductor, Short Blank Tongue, Standard Barrel with Window Lug	D2.21
Code Conductor, One-Hole, Long Barrel Lug	D2.22 – D2.23
Code Conductor, One-Hole, Long Barrel Lug, 45° Angle	D2.24 – D2.25
Code Conductor, One-Hole, Long Barrel Lug, 90° Angle	D2.26 – D2.27
Code Conductor, One-Hole, Long Barrel with Window Lug	D2.28
Code Conductor, One-Hole, Long Barrel with Window Lug, 45° Angle	D2.29
Code Conductor, One-Hole, Long Barrel with Window Lug, 90° Angle	D2.29
Code Conductor, One-Hole, Long Barrel with Corona Relief Taper Lug	D2.30
Code Conductor, Two-Hole, Standard Barrel with Window Lug	D2.31 – D2.32
Code Conductor, Two-Hole, Standard Barrel with Window Lug, 45° Angle	D2.33 – D2.34
Code Conductor, Two-Hole, Standard Barrel with Window Lug, 90° Angle	D2.35 – D2.36
Code Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug	D2.37
Code Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug, 45°	D2.38
Code Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug, 90°	D2.39
Code Conductor, Long Blank Tongue, Standard Barrel with Window Lug	D2.40
Code Conductor, Two-Hole, Long Barrel Lug	D2.41 – D2.42
Code Conductor, Two-Hole, Long Barrel Lug, 45° Angle	D2.43 – D2.44
Code Conductor, Two-Hole, Long Barrel Lug, 90° Angle	D2.45 – D2.46
Code Conductor, Two-Hole, Long Barrel with Window Lug	D2.47 – D2.49
Code Conductor, Two-Hole, Long Barrel with Window Lug, 45° Angle	D2.50 – D2.52
Code Conductor, Two-Hole, Long Barrel with Window Lug, 90° Angle	D2.53 – D2.55
Code Conductor, Two-Hole, Long Barrel with Window, Narrow Tongue Lug	D2.55
Code Conductor, Two-Hole, Long Barrel with Corona Relief Taper Lug	D2.56
Code Conductor, Blank Tongue, Long Barrel Lug	D2.57
Code Conductor, Blank Tongue, Long Barrel with Window Lug	D2.58
Code Conductor, Short Barrel, Butt Splice	D2.59
Code Conductor, Standard Barrel, Butt Splice	D2.60
Code Conductor, Long Barrel, Butt Splice	D2.61
Code Conductor, Long Barrel with Corona Relief Taper Splice	D2.62
Code Conductor, Long Barrel, T Splice	D2.63
Code Conductor, Color-Coded Parallel Splice	D2.64 – D2.65
Flex Conductor, One-Hole, Standard Barrel with Window Lug	D2.66 – D2.67

★ Represents new product offering.

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

## Table of Contents

B1.  
Cable Ties

Flex Conductor, One-Hole, Standard Barrel with Window Lug, 45° Angle	D2.68 – D2.69
Flex Conductor, One-Hole, Standard Barrel with Window Lug, 90° Angle	D2.70 – D2.71
Flex Conductor, One-Hole, Standard Barrel with Window, Narrow Tongue Lug	D2.72
Flex Conductor, One-Hole, Standard Barrel with Window, Flared NEBS Lug	D2.73 – D2.74

B2.  
Cable  
Accessories

Flex Conductor, One-Hole, Standard Barrel with Window, Flared NEBS Lug, 45° Angle	D2.75 – D2.76
Flex Conductor, One-Hole, Standard Barrel with Window, Flared NEBS Lug, 90° Angle	D2.77 – D2.78
Flex Conductor, One-Hole, Long Barrel with Window Lug	D2.79
Flex Conductor, One-Hole, Long Barrel with Window Lug, 45° Angle	D2.80
Flex Conductor, One-Hole, Long Barrel with Window Lug, 90° Angle	D2.81

B3.  
Stainless  
Steel Ties

Flex Conductor, Two-Hole, Standard Barrel with Window Lug	D2.82 – D2.83
Flex Conductor, Two-Hole, Standard Barrel with Window Lug, 45° Angle	D2.84 – D2.85
Flex Conductor, Two-Hole, Standard Barrel with Window Lug, 90° Angle	D2.86 – D2.87
Flex Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug	D2.88

C1.  
Wiring  
Duct

Flex Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug, 45°	D2.89
Flex Conductor, Two-Hole, Standard Barrel with Window, Narrow Tongue Lug, 90°	D2.89
Flex Conductor, Two-Hole, Long Barrel with Window Lug	D2.90 – D2.91
Flex Conductor, Two-Hole, Long Barrel with Window Lug, 45° Angle	D2.92 – D2.93
Flex Conductor, Two-Hole, Long Barrel with Window Lug, 90° Angle	D2.94 – D2.95

C2.  
Surface  
Raceway

★ Flex Conductor, Two-Hole, Long Barrel with Window, Narrow Tongue Lug	D2.95
Flex Conductor, Two-Hole, Long Barrel, Flared NEBS Lug	D2.96 – D2.97
Flex Conductor, Two-Hole, Long Barrel, Flared NEBS Lug, 45° Angle	D2.98 – D2.99
Flex Conductor, Two-Hole, Long Barrel, Flared NEBS Lug, 90° Angle	D2.100 – D2.101

C3.  
Abrasion  
Protection

Flex Conductor, Standard Barrel, Flared, NEBS Butt Splice	D2.102
Code/Flex Conductor, with Window, In-Line Reducing Splice Kit	D2.103 – D2.104
Code/Flex Conductor, with Window, In-Line Reducing Splice	D2.105 – D2.106
Part Number System for Metric Lugs	D2.107

C4.  
Cable  
Management

Metric Conductor, One-Hole, Standard Barrel with Window Lug	D2.107 – D2.108
Metric Conductor, Two-Hole, Standard Barrel with Window Lug	D2.109 – D2.110
Metric Conductor, Standard Barrel, Butt Splice	D2.111
Code Conductor, One-Hole, Aluminum Lug	D2.112
Code Conductor, Two-Hole, Aluminum Lug	D2.113

D1.  
Terminals

Belleville Compression Washers	D2.114
Code Conductor, Aluminum Splice	D2.115
Code Conductor, Aluminum, Reducing Splice	D2.116
Code Conductor, Aluminum, Bi-Metallic Pin Connector	D2.117
Joint Compounds	D2.118

D2.  
Power  
Connectors

<b>Pan-Lug™ Mechanical Connectors</b>	D2.119
Features and Benefits – Pan-Lug™ Mechanical Connectors	D2.120
Selection Guide – Pan-Lug™ Mechanical Connectors, Cast Copper	D2.121
Selection Guide – Pan-Lug™ Mechanical Connectors, Stamped and Formed	D2.122
Selection Guide – Pan-Lug™ Mechanical Connectors, Aluminum	D2.123
Selection Guide – Pan-Lug™ Mechanical Connectors, Split Bolts and Multi-Taps	D2.124

D3.  
Grounding  
Connectors

Split Bolt, Copper	D2.125
Split Bolt, Copper, Tin-Plated	D2.126
Split Bolt, Aluminum	D2.127
Two-Bolt Connector, Bronze	D2.127

E1.  
Labeling  
Systems

Two-Bolt Connector, Bronze, Tin-Plated	D2.128
One-Hole, Straight Tongue, Barrel Post Lug	D2.128
One-Hole, Straight Tongue, Tin-Plated, Barrel Post Lug	D2.129
One-Hole, Straight Tongue Lug	D2.129

E2.  
Labels

One-Hole, Straight Tongue Lug with Internal Pressure Plate	D2.130
One-Hole, Straight Tongue, Flag Lug	D2.130
One-Hole, Straight Tongue, 90° Lug	D2.131
Two-Hole, Straight Tongue Lug	D2.131

E3.  
Pre-Printed  
& Write-On  
Markers

Two-Hole, Straight Tongue Lug with Internal Pressure Plate	D2.132
Two-Hole, Straight Tongue Lug with NEMA Hole Sizes and Spacing	D2.133
Two-Hole, Straight Tongue, Tandem Set Screw Lug	D2.133
Two-Hole, Straight Tongue, Two-Barrel Lug	D2.134
Two-Hole, Straight Tongue, Two-Barrel, Tin-Plated Lug	D2.134

E4.  
Permanent  
Identification

Two-Set Screw Splice	D2.135
Two-Set Screw Splice with Internal Pressure Plate	D2.135
One-Hole, Straight Fixed Tongue Lug	D2.136
One-Hole, Straight Fixed Tongue, Tin-Plated Lug	D2.136

E5.  
Lockout/  
Tagout  
& Safety  
Solutions

One-Hole, Straight Floating Tongue Lug	D2.137
Two-Hole, Straight Floating Tongue Lug	D2.138
One-Hole, Offset Floating Tongue Lug	D2.139
Two-Hole, Offset Floating Tongue Lug	D2.140
One-Hole, Single Barrel Lug	D2.141
Two-Hole, Single Barrel Lug	D2.142

F.  
Index

One-Hole, Two-Barrel Lug	D2.142
--------------------------	--------

★ Represents new product offering.

## Table of Contents

One-Hole, Vertical Two-Barrel Lug .....	D2.143
Two-Hole, Two-Barrel Lug .....	D2.143
Two-Hole, Vertical Two-Barrel Lug .....	D2.144
Two-Hole, Three-Barrel Lug .....	D2.144
Four-Hole, Three-Barrel Lug .....	D2.145
Two-Hole, Vertical Four-Barrel Lug .....	D2.146
Four-Hole, Four-Barrel Lug .....	D2.146
Transformer Lug Kit .....	D2.147
Splicer/Reducer .....	D2.148
Multi-Tap Connector with Clear Insulation, Single-Sided .....	D2.149
Multi-Tap Connector with Clear Insulation, Double-Sided .....	D2.150 – D2.151
In-Line Splicer/Reducer with Clear Insulation .....	D2.152
Multi-Tap Connector with Clear Insulation, Single-Sided, with Mounting Holes .....	D2.153
Multi-Tap Connector with Clear Insulation, Double-Sided, with Mounting Holes .....	D2.154
Belleville Compression Washers .....	D2.155
Joint Compounds .....	D2.155
Guidelines for Installing Aluminum Mechanical Connectors .....	D2.156
Panduit Power Connector Approvals .....	D2.157
Recommended Termination Hardware .....	D2.158
Conductor Sizes .....	D2.159 – D2.161
Common Conductor Sizes and Strandings Reference Chart .....	D2.162 – D2.163
Stud Size Chart (Inches/Millimeters) .....	D2.164
Equivalent Tables .....	D2.164

## Grounding Connectors

<b>StructuredGround™ Grounding Connectors</b> .....	D3.1
Features and Benefits – StructuredGround™ Compression Connectors .....	D3.2
StructuredGround™ Direct Burial Compression System Grounding Roadmap .....	D3.3
Service Entrance Grounding Roadmap .....	D3.4
★ Access Floor Grounding Clamp .....	D3.5
BICSI/J-STD-607-A Telecommunications Grounding Busbars .....	D3.6
Component Labels for BICSI/J-STD-607-A Telecommunications Grounding Busbars .....	D3.6
Telecommunications Grounding and Bonding Conductor Label Kit .....	D3.6
★ NEMA Hole Pattern Grounding Busbars .....	D3.7
★ Grounding Busbar 1" Hole Spacings .....	D3.7
★ Stainless Steel Hardware for Busbars .....	D3.7
★ E Style Grounding Connectors .....	D3.8
★ Grounding Cross Connectors .....	D3.9
★ Universal Beam Grounding Clamp .....	D3.10
★ Grounding Plate Connector .....	D3.10
Code Conductor, Thin Wall, CTAP .....	D3.11
Code Conductor, Heavy Duty, CTAP .....	D3.12
Clear Covers for HTCT HTAPs .....	D3.13
Black Covers for Copper HTAPs and CTAPs .....	D3.13
Code/Flex Conductor HTAP .....	D3.14
Code/Flex Conductor HTAP Kit .....	D3.15
Features and Benefits – StructuredGround™ Mechanical Connectors .....	D3.16
Selection Guide – StructuredGround™ Mechanical Connectors .....	D3.17 – D3.18
Panduit Grounding Connector Approvals .....	D3.19
Service Post Connector, Male Stud, Single Conductor, Bronze .....	D3.20
Service Post Connector, Male Stud, Two Conductor, Bronze .....	D3.21
Service Post Connector, Female Thread, Single Conductor, Bronze .....	D3.22
Service Post Connector, Female Thread, Two Conductor, Bronze .....	D3.23
★ One-Hole Aluminum Lay-In Lug .....	D3.24
Joint Compounds .....	D3.24
Grounding Clamp, U-Bolt, Bronze .....	D3.25
Grounding Clamp, U-Bolt, for Two Cables, Bronze .....	D3.26
Grounding Clamp for Water Pipes, Bronze .....	D3.26
Grounding Clamp for Water Pipe with Copper Strap, Bronze .....	D3.27
Grounding Clamp for Conduit, Bronze .....	D3.27
Grounding Clamp for Water Pipes, Aluminum .....	D3.28
Grounding Rod Clamp, Bronze .....	D3.28
Grounding Clamp with Spacer for Flat Surfaces, Bronze .....	D3.29
Grounding Clamp for Flat Surfaces, Bronze .....	D3.29
★ Flat Braided Bonding Straps .....	D3.30
<b>Compression Connector Crimping Tools</b> .....	D3.31
Crimping Guidelines for Panduit® Pan-Lug™ Compression Lugs and Splices .....	D3.32
Crimping Guidelines for Panduit® StructuredGround™ Compression Connectors .....	D3.33
Selection Guide – Compression Connector Tools .....	D3.34 – D3.36

★ Represents new product offering.

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

## Table of Contents

B1.  
Cable Ties

Die Type, Manual, Crimping Tool	D3.37
CD-720 Crimping Dies	D3.37
Die Type, Manual, Crimping Tool and Die Kits	D3.38
Cable Stripping Tool for Large Cable Sizes	D3.38

B2.  
Cable  
Accessories

Wire and Cable Stripping Tools	D3.38
★ Cable Cutting Tools	D3.39
Die Type, Manual Hydraulic, 14 Ton, Crimping Tool	D3.39
★ Die Type, Lithium-Ion Powered Hydraulic, 6 Ton, In-Line Crimping Tools	D3.40
★ Die Type, Lithium-Ion Powered Hydraulic, 6 Ton, Crimping Tool with Open "C-Head"	D3.41

B3.  
Stainless  
Steel Ties

CD-2001 Crimping Dies	D3.42
★ Die Type, Lithium-Ion Powered Hydraulic, 14 Ton, Crimping Tool	D3.43
★ Die Type, Lithium-Ion Powered Hydraulic, 15 Ton, Crimping Tool	D3.44

C1.  
Wiring  
Duct

Die Type, Remote Hydraulic, 14 Ton, Crimp Head	D3.45
Die Type, Remote Hydraulic, 15 Ton, Crimp Head	D3.46
Hydraulic Pump and Accessories, Electric, 10,000 PSI	D3.47
Die Type, Remote Hydraulic, 10.5 Ton, Crimp Head	D3.48
Hydraulic Pump and Accessories, Electric, 7,500 PSI	D3.49

C2.  
Surface  
Raceway

CD-920 Crimping Dies	D3.50
CD-940 Crimping Dies	D3.51
Uni-Die™ Dieless, Manual Hydraulic, 6.2 Ton, Crimping Tool	D3.52
★ Uni-Die™ Dieless, Lithium-Ion Powered Hydraulic, 6.2 Ton, Crimping Tool	D3.53
Uni-Die™ Dieless, Remote Hydraulic, 6.2 Ton, Crimp Head	D3.54
Uni-Die™ Dieless, Remote Hydraulic, 4.7 Ton, Crimp Head	D3.54

C3.  
Abrasion  
Protection

Pressure Gauges	D3.55
★ Accessories for Battery Powered Hydraulic Crimping Tools	D3.55

C4.  
Cable  
Management

Installation Tooling and Die Selections for: Types LCAS and SCSS	D3.56 – D3.57
Installation Tooling and Die Selections for: Types LCA, LKAN, LCD, LCDN and SCS	D3.58 – D3.61
Installation Tooling and Die Selections for: Types LCB, LCBN, LCC, LCCN and SCL	D3.62 – D3.65
Installation Tooling and Die Selections for: Types LCBH, LCCH and SCH	D3.66 – D3.67
Installation Tooling and Die Selections for: Type SCT	D3.68 – D3.69
Installation Tooling and Die Selections for: Types LCAX, LCAXN, LCBX, LCDX, LCDXN and LCCX	D3.70 – D3.73
Installation Tooling and Die Selections for: Types LCAF, LCCF and SCSF	D3.74 – D3.75
Installation Tooling and Die Selections for: Type RSC In-Line Reducing Splice	D3.76 – D3.81
Installation Tooling and Die Selections for: Type PSC	D3.82
Installation Tooling and Die Selections for: Types LCMA, LCMD, and SCMS	D3.83
Installation Tooling and Die Selections for: Types LAA, LAB and SA	D3.84 – D3.85
Installation Tooling and Die Selections for: Type SAR	D3.86 – D3.87
Installation Tooling and Die Selections for: Type BPC	D3.88 – D3.89
Installation Tooling and Die Selections for: Types GCE, GCC, and GPC	D3.90
Installation Tooling and Die Selections for: Type CTAP	D3.91
Installation Tooling and Die Selections for: Type CTAPF	D3.92 – D3.93
Installation Tooling and Die Selections for: Type HTCT	D3.94

D1.  
Terminals

D2.  
Power  
Connectors

D3.  
Grounding  
Connectors

## Labeling Systems

E1.  
Labeling  
Systems

Labeling Systems	E1.0
Printers: Thermal Transfer Desktop and Hand-Held	E1.1
PanTher™ LS8E Hand-Held Thermal Transfer Printer and Accessories	E1.2
Cougar™ LS9 Hand-Held Thermal Transfer Printer and Accessories	E1.2
P1™ Self-Laminating Label Cassettes for PanTher™ LS8E Hand-Held Thermal Transfer Printer	E1.3 – E1.4
P1™ Non-Laminated Label Cassettes	E1.5 – E1.6

E2.  
Labels

★ P1™ Turn-Tell™ Label Cassettes for PanTher™ LS8E Hand-Held Thermal Transfer Printer	E1.6
★ P1™ Marker Plate Label Cassettes for PanTher™ LS8E Hand-Held Thermal Transfer Printer	E1.7
★ P1™ Flag Label Cassettes for PanTher™ LS8E Hand-Held Thermal Transfer Printer	E1.7

E3.  
Pre-Printed  
& Write-On  
Markers

P1™ Military Grade Continuous Heat Shrink Label Cassettes for PanTher™ LS8E or Cougar™ LS9 Hand-Held Thermal Transfer Printers	E1.8
P1™ Military Grade Die-Cut Heat Shrink Label Cassettes for PanTher™ LS8E Hand-Held Thermal Transfer Printer	E1.9

E4.  
Permanent  
Identification

P1™ General Component Label Cassettes for PanTher™ LS8E Hand-Held Thermal Transfer Printers	E1.10
P1™ Continuous Tape Cassettes for PanTher™ LS8E and Cougar™ LS9 Hand-Held Thermal Transfer Printers	E1.11 – E1.12
★ P1™ Continuous Reflective Tape Cassettes for PanTher™ LS8E and Cougar™ LS9 Hand-Held Thermal Transfer Printers	E1.12

E5.  
Lockout/  
Tagout  
& Safety  
Solutions

TDP43MY Thermal Transfer Desktop Printer and Accessories	E1.13
Ribbons for Use with the TDP43MY Thermal Transfer Desktop Printer	E1.13
TDP42HY, TDP43HY, TDP46HY Thermal Transfer Desktop Printers	E1.14
Ribbons for use with the TDP42HY, TDP43HY and TDP46HY Thermal Transfer Desktop Printers	E1.14
Labeling Software	E1.15

F.  
Index

★ Represents new product offering.

## Table of Contents

Easy-Mark™ Labeling Software	E1.16
CAD-Connect™ Labeling Software	E1.16

### Labels

<b>Labels: Laser, Ink Jet, and Thermal Transfer</b>	E2.1
Laser/Ink Jet Self-Laminating Labels	E2.2 – E2.3
Laser/Ink Jet Non-Laminated Labels	E2.4
Laser/Ink Jet Flag Style Labels	E2.5
Laser/Ink Jet Component Labels	E2.5 – E2.6
Part Number System for Component Labels	E2.5
Thermal Transfer Self-Laminating Labels	E2.7 – E2.9
★ Turn-Tell™ Labels	E2.10
Thermal Transfer Marker Plates	E2.10
Thermal Transfer Non-Laminated Labels	E2.11
Part Number System for Non-Laminated Labels	E2.11
Thermal Transfer Military Grade Heat Shrink Labels	E2.12 – E2.13
★ 2-Sided Military Grade Printable Heat Shrink Labels	E2.14 – E2.15
Heat Shrink Tools and Accessories	E2.15
Thermal Transfer Component Labels	E2.16 – E2.18
Thermal Transfer Tamper Evident Polyester Component Labels	E2.19
Thermal Transfer Raised Panel Labels	E2.19 – E2.20
Thermal Transfer Continuous Tapes	E2.21 – E2.22
Size Illustrations of Self-Laminating Labels	E2.23 – E2.24
Size Illustrations of Non-Laminated and Flag Style Labels	E2.25
Size Illustrations of Flattened Heat Shrink Labels	E2.26
Size Illustrations for Component Labels	E2.27 – E2.28

### Pre-Printed and Write-On Markers

<b>Pre-Printed and Write-On Markers</b>	E3.1
Pre-Printed Marker Books	E3.2
Blank Self-Laminating Write-On Cable Marker Books	E3.3
Pre-Printed Marker Cards PCM Type	E3.4 – E3.6
Wire Marker Card Number Combination Packs	E3.7
Pre-Printed Marker Cards	E3.7
Pre-Printed Marker Cards PPM Type	E3.8
Write-On Marker Cards – Self-Laminating	E3.9
Pre-Printed Marker Tape Dispenser	E3.9
Pre-Printed Marker Tape Refills	E3.10
Self-Laminating Wire Marker Dispenser	E3.11
Pre-Printed Clip-On Wire Markers	E3.11 – E3.12

### Permanent Identification

<b>Permanent Identification</b>	E4.1
Panduit Factory Custom Marking Service	E4.2
Stainless Steel and Brass Marker Plates and Tags	E4.3 – E4.4
Pan-Alum™ Aluminum Marker Plates	E4.5
Aluminum Marker Plates Pan-Alum™ MMP Series 1	E4.5
Metal Embossing Tool and Tape System	E4.5
Metal Indenting Machine	E4.6
★ Portable Embossing System	E4.6

### Lockout/Tagout and Safety Solutions

<b>Lockout/Tagout</b>	E5.1
OSHA Lockout/Tagout Compliance and Training Kit	E5.2
Group Lockout/Tagout Training Video	E5.2
Lockout/Tagout Steps/Calendar Wallet Card	E5.2
“No Tool” Circuit Breaker Lockout Devices	E5.3
Large Handle Circuit Breaker Lockout Device	E5.3
Circuit Breaker Lockout Devices	E5.3
Plug Lockout Device	E5.4
Cord Lockout Devices	E5.4
Receptacle Blockout Device	E5.4
Toggle Switch Lockout Device	E5.5
Toggle/Rocker Switch Lockout Device	E5.5
Gate Valve Lockout Devices	E5.5
Ball Valve Lockout Devices	E5.6
Multiple Lockout Device	E5.6

★ Represents new product offering.

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

## Table of Contents

B1.  
Cable Ties

Pneumatic Energy Lockout Device	E5.6
Electrician Lockout Kit	E5.7
Contractor Lockout Kit	E5.7
MRO Lockout Kit	E5.7

B2.  
Cable  
Accessories

Power and Panel Distribution Lockout Kit	E5.7
Metal Wall Mount Cabinet	E5.8
Lockout Stations	E5.8
Group Lock Box	E5.8
Warning Label	E5.9

B3.  
Stainless  
Steel Ties

Circuit Breaker Directory Sign	E5.9
Non-Conductive Lockout Padlocks	E5.10
High Security Padlocks	E5.10
Laminated Steel Padlocks	E5.11
Lockout Hasps	E5.11

C1.  
Wiring  
Duct

Self-Laminating Padlock Labels	E5.12
Custom Lock Options	E5.12
Metal I.D. Tags and Collars	E5.13
Padlock Eyes	E5.13

C2.  
Surface  
Raceway

Chain Attachment	E5.13
Write-On Safety Tags	E5.14 – E5.16
Bilingual Write-On Safety Tags	E5.17
ISO Symbol Safety Tags	E5.17
Do It Yourself Tags	E5.17

C3.  
Abrasion  
Protection

Self-Laminating Photo Tags	E5.18
Permanent Marking Pens	E5.18
Lockout/Tagout Safety Signs	E5.19
Jack Module Blockout Device	E5.20
RJ45 Plug Lock-In Device	E5.21

C4.  
Cable  
Management

LC Duplex Adapter Blockout Device	E5.22
SC Adapter Blockout Device	E5.22
<b>Safety and Facility Identification</b>	E5.23
Electrical Hazard Safety Signs	E5.24

D1.  
Terminals

★ Short Circuit Warning Signs	E5.25
★ Photoluminescent Safety Signs	E5.25
Electrical Symbols on Cards	E5.25
Conductor Identification Labels	E5.26
ISO Warning Symbols	E5.27

D2.  
Power  
Connectors

Electrical Labels in Dispenser	E5.28
Write-On Labels on Cards	E5.29
Write-On Quality Labels in Dispenser	E5.30
Inspection Plates	E5.31
Inspection Arrows	E5.31

D3.  
Grounding  
Connectors

Voltage and Fiber Optic Markers	E5.32
Voltage and Safety Marker Books	E5.33
Hazard Tape	E5.33
Solid Color Adhesive Warning Tape	E5.33
Reflective Tapes	E5.34

E1.  
Labeling  
Systems

Photoluminescent Tapes – Thermal Transfer Printable	E5.34
Underground Hazard Tape	E5.35
Barricade Tapes	E5.36
Vinyl Letters and Numbers	E5.36
Vinyl Cloth Letters and Numbers	E5.37 – E5.38

E2.  
Labels

Reflective Letters and Numbers	E5.38
Sign Panels – Blank Space for Custom Messages	E5.39
★ Thermal Transfer Printable Arc Flash Labels	E5.40
★ Laser Printable Adhesive Signs	E5.40

E3.  
Pre-Printed  
& Write-On  
Markers

Self-Laminating Adhesive Sign Carriers	E5.41
Self-Laminating Cable Marker Holders for Large Cables or Cable Bundles	E5.41
Self-Laminating Fiber Optic Cable Marker Tags	E5.42
Ground Warning Tags	E5.42

E4.  
Permanent  
Identification

Panduit Corp. Generic Padlock Order Form	E5.43
Panduit Corp. Generic PVT Vinyl Tag Order Form	E5.44
Panduit Corp. Generic Adhesive PPS Safety Sign Order Form	E5.45
Panduit Corp. Generic Semi-Rigid PRS Safety Sign Order Form	E5.46
Panduit Corp. Generic Conduit and Voltage Marker Order Form	E5.47

E5.  
Lockout/  
Tagout  
& Safety  
Solutions

Panduit Corp. Generic Utility Tapes Order Form	E5.48
Panduit Corp. Generic Custom Engraved Marker Plate Order Form	E5.49
Wire Size Selection Guide	E5.50
Selection Guide by Wire/Cable Size	E5.51

F.  
Index

## Index

<b>Part Number Index</b>	F1.1 – F1.40
--------------------------	--------------

★ Represents new product offering.

# NOTES

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

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

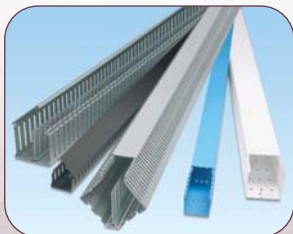
F.  
Index

# NOTES

## SYSTEM OVERVIEW

Panduit is a global leader in comprehensive physical infrastructure solutions. Issues such as convergence, interoperability, scalability and continuity need to be addressed to reduce risk across the IT, facilities, and manufacturing physical infrastructure. Our holistic approach enables business continuity through robust, leading-edge systems that optimize design and deployment of the physical infrastructure – delivering maximum reliability, availability, security, integration, and safety.

Comprehensive solutions include everything necessary to bundle, identify, route, protect, and terminate wires/cables. Supporting the most demanding application requirements customers trust Panduit for:



Panduit products are developed through continued focus on the needs of the customer and high level of investment in research and development. Solutions are designed for reliability, improved productivity, standards compliance, and lowest total cost of ownership.

- Comprehensive, end-to-end solutions
- World-class quality and reliability
- Innovative products and tools
- Unmatched global sales and technical support

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

## SOLUTIONS OVERVIEW

Panduit provides innovative solutions that offer maximum reliability at the lowest installed cost from the factory and manufacturing floor, to automation and control, to the office area.

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

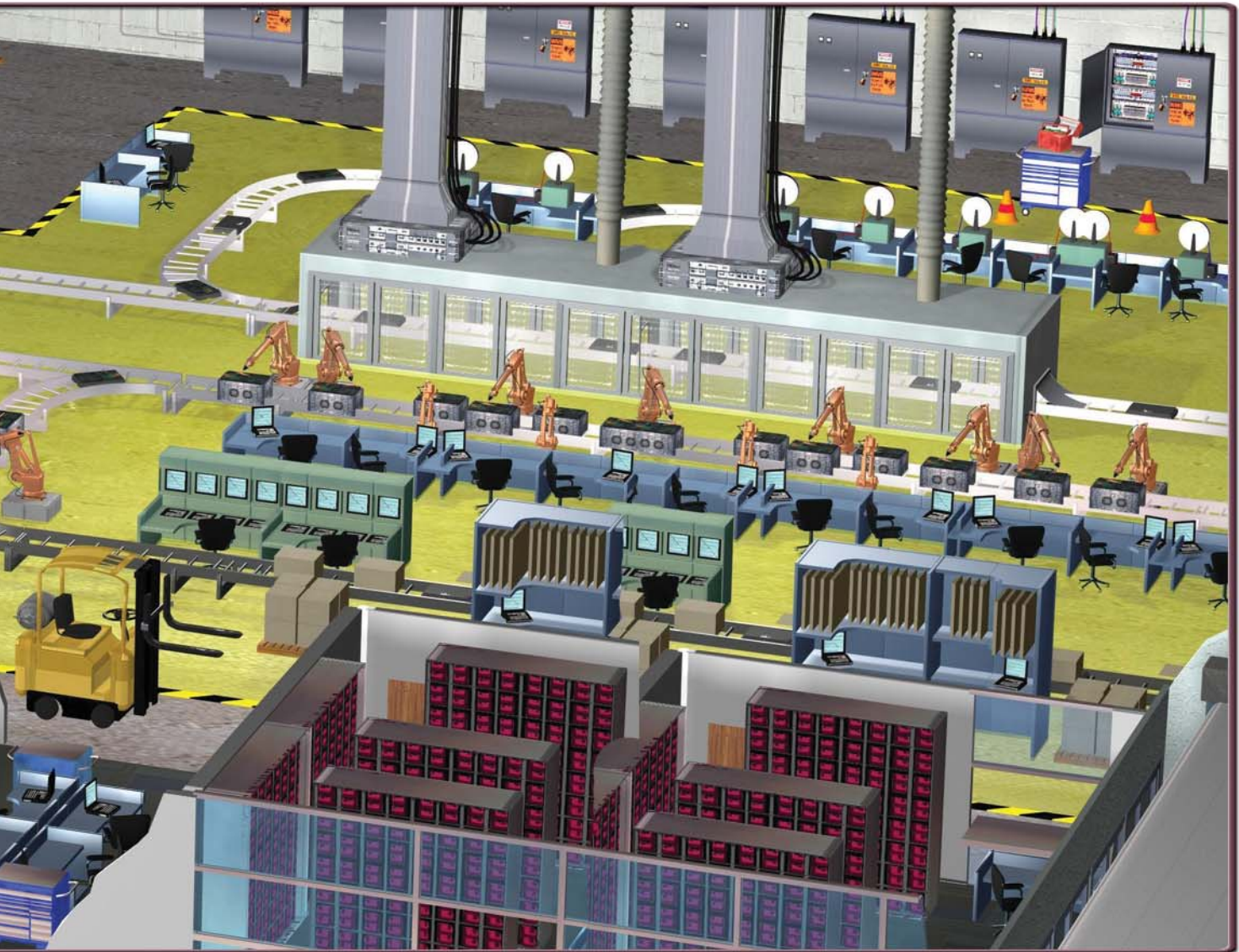
E3.  
Pre-Printed  
& Write-On  
Markers

E4.  
Permanent  
Identification

E5.  
Lockout/  
Tagout/  
& Safety  
Solutions

F.  
Index





A.  
System  
Overview

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

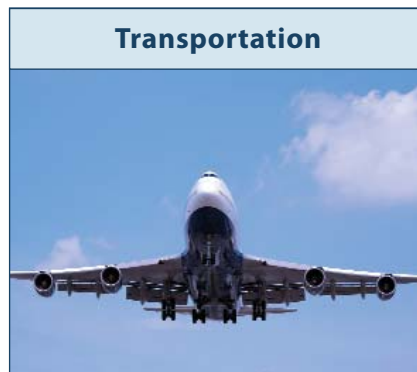
E2.  
Labels

E3.  
Pre-Printed  
& Write-On  
Markers

E4.  
Permanent  
Identification

E5.  
Lockout/  
Tagout  
& Safety  
Solutions

F.  
Index





A.  
System  
Overview

## CONTROL PANEL SOLUTIONS

Panduit delivers innovative solutions that support evolving technologies in automation and control. Control panel solutions from Panduit reduce design and assembly time, save valuable panel space, ease installation and maintenance, and improve manageability and reliability, all contributing to lower cost of ownership.

B1.  
Cable Ties

B2.  
Cable  
Accessories

B3.  
Stainless  
Steel Ties

C1.  
Wiring  
Duct

C2.  
Surface  
Raceway

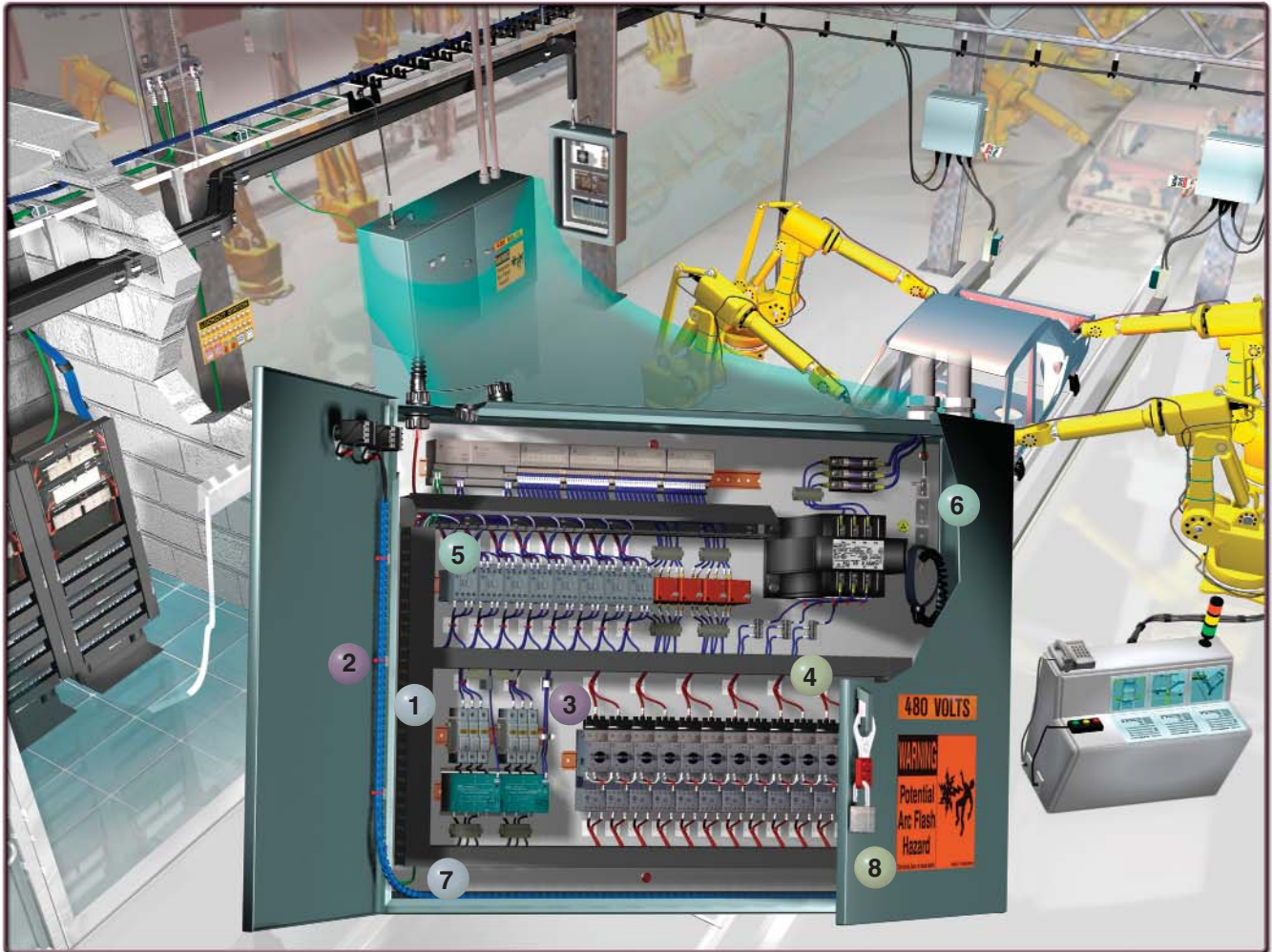
C3.  
Abrasion  
Protection

C4.  
Cable  
Management

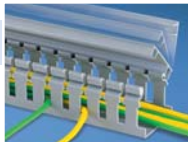
D1.  
Terminals

D2.  
Power  
Connectors

D3.  
Grounding  
Connectors



1 **Wiring Duct**



2 **Cable Ties**



3 **Cable Accessories**



4 **Labeling Systems**



5 **Terminals**



6 **Power and  
Grounding  
Connectors**



7 **Abrasion  
Protection**



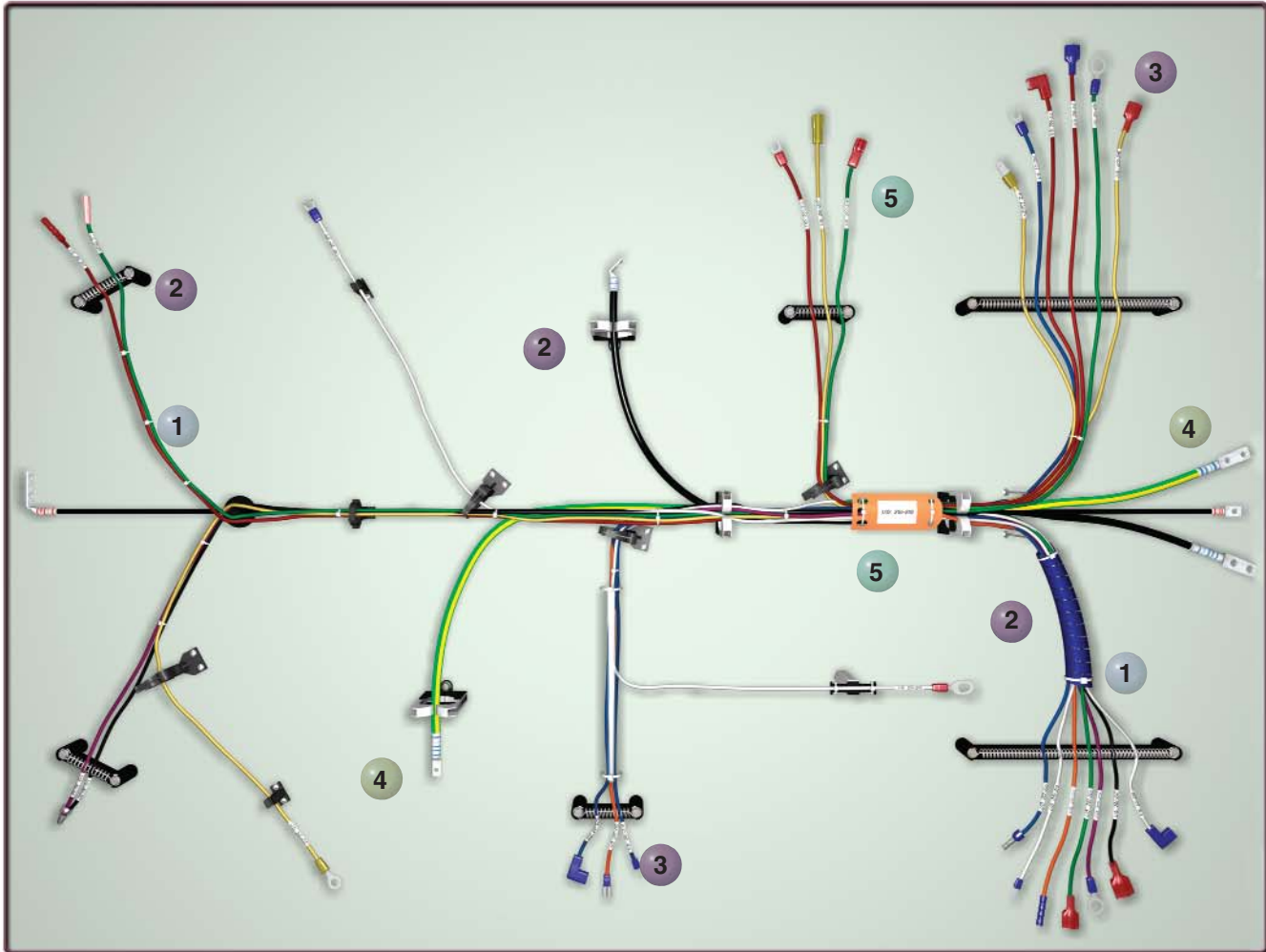
8 **Lockout/  
Tagout**



For Industrial Automation Solutions, request SA-CPCB65 or visit [www.panduit.com](http://www.panduit.com).

## HARNESS SOLUTIONS

Panduit is a leading supplier of wire management solutions, helping OEM and CMs achieve their strategic objectives. From complete system solutions that provide the lowest installed cost to new product innovations that meet evolving application challenges, Panduit solutions meet a wide range of applications, volumes, and environments in white goods, gaming, vending, and transportation.



**1 Cable Tie Systems**



**2 Cable Accessories**



**3 Terminal Systems**



**4 Power Connector Systems**



**5 Identification Systems**



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