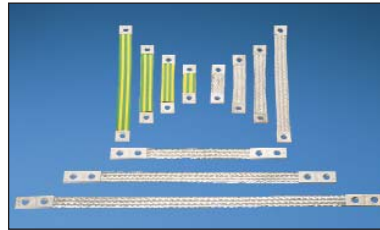


specifications

Flat braided bonding straps shall be used for electrically bonding enclosure doors, motors and machine frames in the construction of industrial automation control panels or machine structures. Flat braided bonding straps shall have protective green/yellow insulation, indicating a ground connection where abrasion protection is required. Flat braided bonding straps shall be constructed of 4 AWG tin-plated copper with a minimum strap width of 1" and shall be terminated with a seamless ferrule that maintains the flat braided shape across its entire length. Flat braided bonding straps shall be UL 467 listed, CSA certified and RoHS compliant.



technical information

Industry Standards: UL 467 listed, CSA certified and RoHS compliant

Dimensions: Flat Braided Bonding Straps, One-Hole

Part Number	Conductor Size	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Ferrule Length In. (mm)
Insulated					
BS100445	4 AWG	4.00 (101.6)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
BS100645	4 AWG	6.00 (152.4)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
BS100845	4 AWG	8.00 (203.2)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
BS101245	4 AWG	12.00 (304.8)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
Non-Insulated					
BS100445U	4 AWG	4.00 (101.6)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
BS100645U	4 AWG	6.00 (152.4)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
BS100845U	4 AWG	8.00 (203.2)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)
BS101245U	4 AWG	12.00 (304.8)	1.06 (27.0)	.13 (3.3)	1.00 (25.4)

Flat Braided Bonding Straps, Two-Hole

Part Number	Conductor Size	Length In. (mm)	Width In. (mm)	Thickness In. (mm)	Ferrule Length In. (mm)	Stud Hole Spacing In. (mm)
Non-Insulated						
BS201246EU	4 AWG	12.00 (304.8)	1.06 (27.0)	.13 (3.3)	2.50 (36.5)	1.25 (31.8)
BS201846EU	4 AWG	18.00 (457.2)	1.06 (27.0)	.13 (3.3)	2.50 (36.5)	1.25 (31.8)
BS202446EU	4 AWG	24.00 (609.6)	1.06 (27.0)	.13 (3.3)	2.50 (36.5)	1.25 (31.8)

key features and benefits

Flat ferrule design	Delivers an enhanced high frequency bond to reduce the effects of EMI (Electromagnetic Interference)
Available with polyolefin yellow/green insulation	Provides abrasion protection in the internationally-recognized green and yellow pattern for grounding applications
Seamless ferrule ends	Provide mechanical strength for improved reliability
Tin plating	Inhibits corrosion for long-term reliability
Wide range of lengths and stud hole variations	Offers design flexibility to optimize available space in industrial bonding applications

applications

Bonding components with short lengths of flat braided bonding straps help reduce the effects of EMI. Flat surfaces and flat braided cables pass high frequency noise more effectively than round stranded type cables. In applications where the control of high frequency noise is important, such as industrial control panels, flat braided bonding straps are highly recommended.

In applications where motion or vibration is a concern, the flat braided bonding straps resist breaking and cracking of individual strands that can degrade the effectiveness of the bonding strap. Flat braided bonding cables can be used in most applications for general bonding for safety and ESD (Electro Static Discharge) protection.

Related Products

19" Grounding Busbar

19" (.48m) L, tin-plated, 20 mounting holes includes #12 – 24 x 1/2" screws: RGRB19U

Grounding Washers

3/8" – 16 bolt hole, paint piercing, green, grounding washers, pack of 100: RGW-100-1Y

Bonding Screws

Green bonding screws, #12 – 24 x 1/2", box of 100: RGTBSG-C
Green bonding screws, M6 x 15mm, box of 100: RGTBSM6G-C

Thread-Forming Screws

Thread-forming screw, #12 – 24 x 1/2": RGTS-CY
Thread-forming screw, M6 x 12mm: RGTSM6-C

Bonding Studs and Nuts

Bonding stud kit, #12 – 24 fasteners, box of 25: TRBSK
Bonding stud kit, M6 fasteners, box of 25: TRBSM6K
Bonding nuts, #12 – 24, box of 100: BGN-C
Bonding nuts, M6, box of 100: BGNM6-C

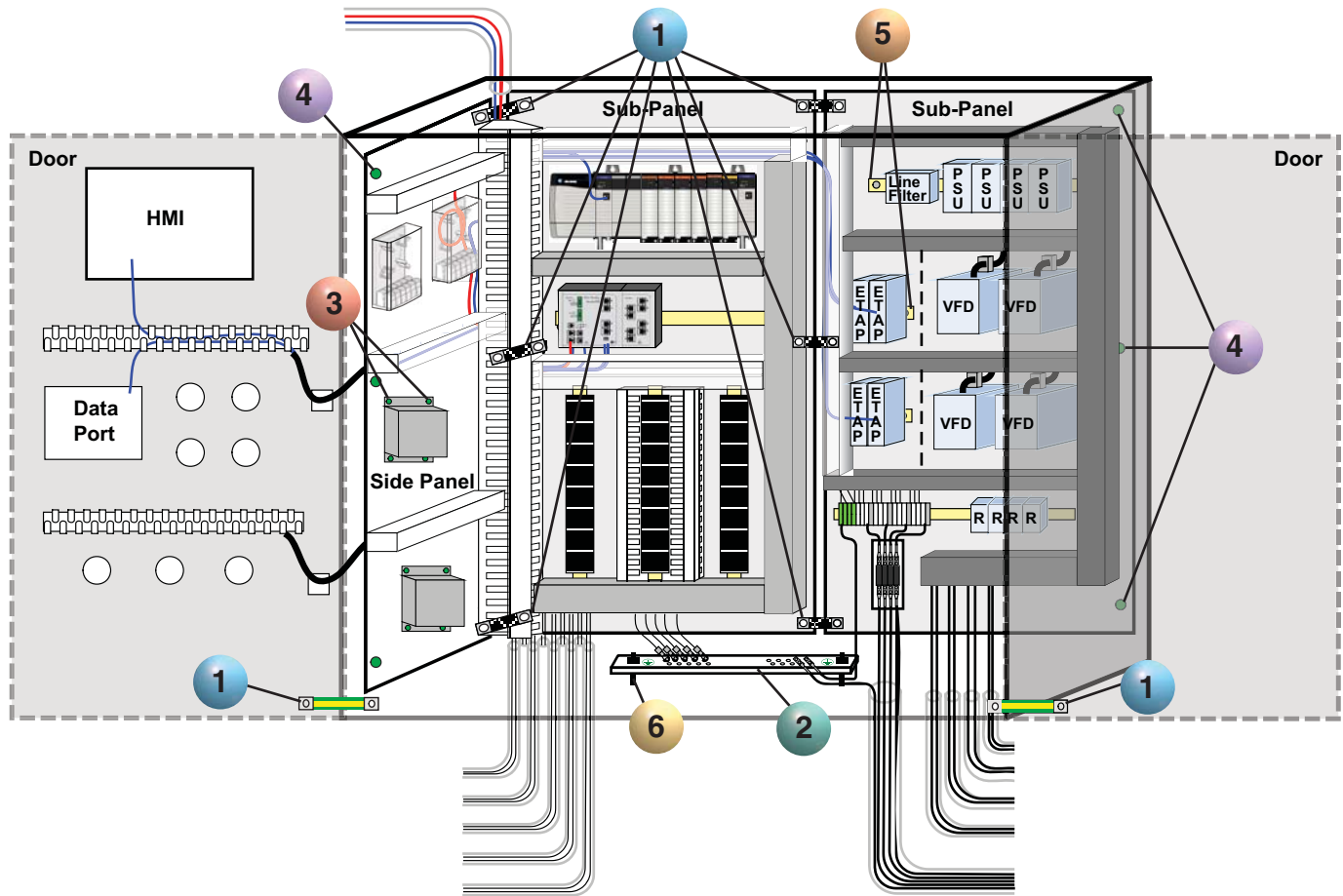
Stainless Steel Mounting Hardware

Stainless steel bolts, 3/8" – 16, 100 pack: SSNTS3816-C
Stainless steel Belleville washers (locking), 3/8" – 16, 100 pack: SSCW38-C
Stainless steel flat washers, 3/8" – 16, 100 pack: SSFW38-C
Stainless steel nuts, 3/8" – 16, 100 pack: SSN3816-C

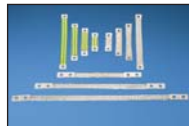
Ring Terminals, Vinyl Expanded Insulation

Ring terminal, 16 – 14 AWG, blue vinyl insulation, 1/4" stud hole: PV14-14RX
Ring terminal, 12 – 10 AWG, yellow vinyl insulation, 1/4" stud hole: PV10-14RX
Ring terminal, 8 AWG, red vinyl insulation, 1/4" stud hole: PV8-14RX
Ring terminal, 6 AWG, blue vinyl insulation, 1/4" stud hole: PV6-14RX

STRUCTUREDGROUND™ Flat Braided Bonding Straps



1 Flat Braided Bonding Straps:
Used to electrically bond enclosure doors, motors, and machine frames



4 Bonding Screws:
Creates an electrical bond between mounting flanges and sub-panels



2 19" Grounding Busbar:
Provides the common grounding point within the enclosure



5 Thread-Forming Screws:
Used for mounting DIN rails



3 Paint Piercing, Green, Grounding Washers:
Bonds sub-panels to enclosures



6 Bonding Studs and Nuts:
Used to bond components to the enclosure



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Jalisco, Mexico
cs-la@panduit.com
Phone: 52.333.777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

For a copy of PANDUIT product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300 and reference GRSP07



© 2009 PANDUIT Corp.
ALL RIGHTS RESERVED.

WW-GRSP07
4/2009