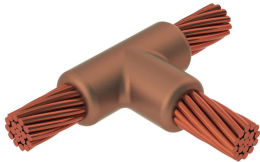
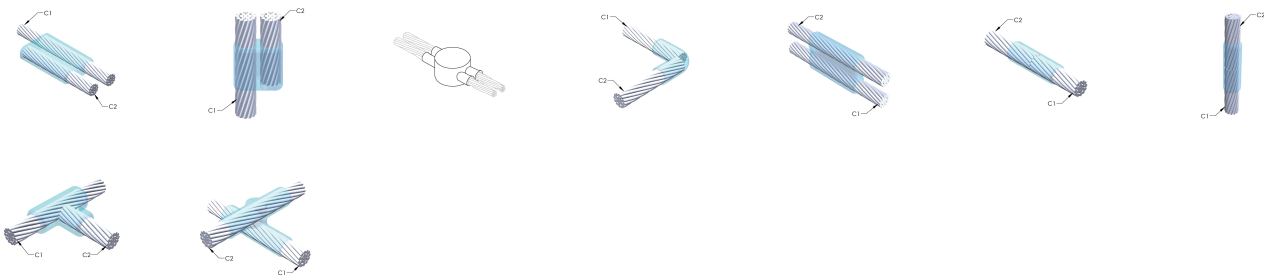


Cable to Cable, Rail



nVent ERICO Cadweld applications for railway properties utilize the nVent ERICO Cadweld Plus F80 and the nVent ERICO Cadweld F80 welding material alloys. nVent ERICO Cadweld exothermically welded connections are engineered to provide a permanent, molecular bond that will not loosen or corrode, enabling connection of dissimilar materials. The connections are designed to perform for the life of the conductor and/or installation. The nVent ERICO Cadweld connection has a current carrying capacity equal to or greater than that of the conductor and will withstand repeated fault currents without failing during operation. Once completed, installers can clearly ensure quality by visually inspecting the new connection.

DIAGRAMS



FEATURES

- Forms a permanent, low resistance connection
- Provides a molecular bond
- nVent ERICO Cadweld Exothermic Connections are rated with the same current capacity as the conductor
- Portable installation equipment with no external source of power required
- Installers can be easily trained to make nVent ERICO Cadweld Exothermic Connections
- Connections can be visually inspected

SPECIFICATIONS

Table 1/6

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
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PB10PA1G1G	PA	#6 Solid	0.16"	#6 Solid	0.16"
SB02SS6	SS	#6 Solid	0.16"	#6 Solid	0.16"
SB10SS1H1G	SS	#6 Concentric	0.18"	#6 Solid	0.16"
PB20TA2G1H	TA	2/0 Concentric	0.42"	#6 Concentric	0.18"
PB10SS2Q1H	SS	4/0 Concentric	0.53"	#6 Concentric	0.18"
PB20TA2Q1H	TA	4/0 Concentric	0.53"	#6 Concentric	0.18"
PB10PC2C1H	PC	1/0 Concentric	0.37"	#6 Concentric	0.18"
SB10SS1V3	SS	#2 Concentric	0.29"	3/16 Signal	3/16"
PB10SS2Q1L	SS	4/0 Concentric	0.53"	#4 Concentric	0.23"
PB20TA2V1L	TA	250 kcmil Concentric	0.57"	#4 Concentric	0.23"
PB20TA1L2V	TA	#4 Concentric	0.23"	250 kcmil Concentric	0.57"
PB10SS1T	SS	#2 Solid	0.26"	#2 Solid	0.26"
PB10PC9C1V	PC	7/#7 Copperweld	0.43"	#2 Concentric	0.29"
PB20TA2Q1V	TA	4/0 Concentric	0.53"	#2 Concentric	0.29"
SB10SS1V	SS	#2 Concentric	0.29"	#2 Concentric	0.29"
PB10SS1Y	SS	#1 Concentric	0.33"	#1 Concentric	0.33"
PB20PAY3Y3	PA	50 mm ² Concentric	0.35"	50 mm ² Concentric	0.35"
PB20TAT2Y3	TA	10.0 mm Ground Wire	0.39"	50 mm ² Concentric	0.35"
PB10SS2Q2C	SS	4/0 Concentric	0.53"	1/0 Concentric	0.37"
PB10SS2C	SS	1/0 Concentric	0.37"	1/0 Concentric	0.37"

Table 2/6

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB20TA2C2C	TA	1/0 Concentric	0.37"	1/0 Concentric	0.37"
PB20PP2CPS	PP	1/0 Concentric	0.37"	B154A Plug	1/2"
PB10PT2G2G	PT	2/0 Concentric	0.42"	2/0 Concentric	0.42"
PB20PP2GPS	PP	2/0 Concentric	0.42"	B154A Plug	1/2"
PB20TA2Q2G	TA	4/0 Concentric	0.53"	2/0 Concentric	0.42"
PB20PG2G2G	PG	2/0 Concentric	0.42"	2/0 Concentric	0.42"
PB10SS2G	SS	2/0 Concentric	0.42"	2/0 Concentric	0.42"
PB20TA2G2G	TA	2/0 Concentric	0.42"	2/0 Concentric	0.42"

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB99XB2Q2G	XB	4/0 Concentric	0.53"	2/0 Concentric	0.42"
PB10SS2Q2G	SS	4/0 Concentric	0.53"	2/0 Concentric	0.42"
PB10SS2J	SS	2/0 Ropelay	0.48"	2/0 Ropelay	0.48"
PB20PPS6PS	PP	3/0 Composite	0.57"	B154A Plug	1/2"
PB20PPS5PS	PP	2/0 Composite	0.53"	B154A Plug	1/2"
PB10SS2Q	SS	4/0 Concentric	0.53"	4/0 Concentric	0.53"
PB20TA2Q2Q	TA	4/0 Concentric	0.53"	4/0 Concentric	0.53"
PB20TA2Q4R	TA	4/0 Concentric	0.53"	1100/#24 Ropelay	0.88"
PB20TAS5S5	TA	2/0 Composite	0.53"	2/0 Composite	0.53"
PB10SS2S2Q	SS	4/0 Ropelay	0.61"	4/0 Concentric	0.53"
PB10SS2V2Q	SS	250 kcmil Concentric	0.57"	4/0 Concentric	0.53"
PB99XB2Q2Q	XB	4/0 Concentric	0.53"	4/0 Concentric	0.53"

Table 3/6

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB13SV2Q	SV	4/0 Concentric	0.53"	4/0 Concentric	0.53"
PB10SSS5	SS	2/0 Composite	0.53"	2/0 Composite	0.53"
PB10PC2Q2S	PC	4/0 Concentric	0.53"	4/0 Ropelay	0.61"
PB10SSS6	SS	3/0 Composite	0.57"	3/0 Composite	0.57"
PB20TA2V2V	TA	250 kcmil Concentric	0.57"	250 kcmil Concentric	0.57"
PB10SS2V	SS	250 kcmil Concentric	0.57"	250 kcmil Concentric	0.57"
PB10PTS6S6	PT	3/0 Composite	0.57"	3/0 Composite	0.57"
PB99XB2V2V	XB	250 kcmil Concentric	0.57"	250 kcmil Concentric	0.57"
PB10SS2W2V	SS	250 kcmil Ropelay	3/4"	250 kcmil Concentric	0.57"
PB99XB2V2VM	XB	250 kcmil Concentric	0.57"	250 kcmil Concentric	0.57"
PB10SS2S	SS	4/0 Ropelay	0.61"	4/0 Ropelay	0.61"

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB10SS2W3DC	SS	250 kcmil Ropelay	3/4"	350 kcmil Compact	5/8"
PB10SSS7	SS	4/0 Composite	0.66"	4/0 Composite	0.66"
PB10SS3SS7	SS	500 kcmil Ropelay	1.04"	4/0 Composite	0.66"
PB10SS4K	SS	650/#24 Ropelay	0.67"	650/#24 Ropelay	0.67"
PB60TA4T4K	TA	1325/#24 Ropelay	0.98"	650/#24 Ropelay	0.67"
PB10SS4K2W	SS	650/#24 Ropelay	0.67"	250 kcmil Ropelay	3/4"
PB10SS3Q3D	SS	500 kcmil Concentric	0.81"	350 kcmil Concentric	0.68"
PB10SS3S3D	SS	500 kcmil Ropelay	1.04"	350 kcmil Concentric	0.68"
PB10SS3D	SS	350 kcmil Concentric	0.68"	350 kcmil Concentric	0.68"

Table 4/6

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB10SS3S3QC	SS	500 kcmil Ropelay	1.04"	500 kcmil Compact	0.73"
PB20TA3QC3QC	TA	500 kcmil Compact	0.73"	500 kcmil Compact	0.73"
PB10SS3QC3S	SS	500 kcmil Compact	0.73"	500 kcmil Ropelay	1.04"
PB10SS2W3S	SS	250 kcmil Ropelay	3/4"	500 kcmil Ropelay	1.04"
PB50PC3S2W	PC	500 kcmil Ropelay	1.04"	250 kcmil Ropelay	3/4"
PB10SS2W	SS	250 kcmil Ropelay	3/4"	250 kcmil Ropelay	3/4"
PB50PC5A2W	PC	1000 kcmil Ropelay	1.33"	250 kcmil Ropelay	3/4"
PB50SS5A2W	SS	1000 kcmil Ropelay	1.33"	250 kcmil Ropelay	3/4"
PB20TA2W3S	TA	250 kcmil Ropelay	3/4"	500 kcmil Ropelay	1.04"
PB10SS3S4M	SS	500 kcmil Ropelay	1.04"	775 kcmil/#24 Ropelay	3/4"
PB10SS3B3S	SS	300 kcmil Ropelay	0.8"	500 kcmil Ropelay	1.04"
PB20TA3Q3Q	TA	500 kcmil Concentric	0.81"	500 kcmil Concentric	0.81"
PB10SS3S3Q	SS	500 kcmil Ropelay	1.04"	500 kcmil Concentric	0.81"

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB60TA3Q4Y	TA	500 kcmil Concentric	0.81"	1000 kcmil Concentric	1.15"
PB10SS3Q	SS	500 kcmil Concentric	0.81"	500 kcmil Concentric	0.81"
PB60TA4Y3Q	TA	1000 kcmil Concentric	1.15"	500 kcmil Concentric	0.81"
PB80PG5T3Q	PG	1500 kcmil Concentric	1.41"	500 kcmil Concentric	0.81"
PB63TA6H3Q	TA	2000 kcmil Concentric	1.61"	500 kcmil Concentric	0.81"
PB10SS4R	SS	1100/#24 Ropelay	0.88"	1100/#24 Ropelay	0.88"
PB20TA4R4R	TA	1100/#24 Ropelay	0.88"	1100/#24 Ropelay	0.88"

Table 5/6

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB10SS3S3F	SS	500 kcmil Ropelay	1.04"	350 kcmil Ropelay	0.88"
PB31TA4T4T	TA	1325/#24 Ropelay	0.98"	1325/#24 Ropelay	0.98"
PB10SS3S4T	SS	500 kcmil Ropelay	1.04"	1325/#24 Ropelay	0.98"
PB50SS4L4T	SS	750 kcmil Concentric	1"	1325/#24 Ropelay	0.98"
PB10SS4L	SS	750 kcmil Concentric	1"	750 kcmil Concentric	1"
PB80PA5T4L	PA	1500 kcmil Concentric	1.41"	750 kcmil Concentric	1"
PB50SS4L3S	SS	750 kcmil Concentric	1"	500 kcmil Ropelay	1.04"
PB10SS3S	SS	500 kcmil Ropelay	1.04"	500 kcmil Ropelay	1.04"
PB10SS3S4X	SS	500 kcmil Ropelay	1.04"	1600/#24 Ropelay	1.07"
PB60TA4N3S	TA	750 kcmil Ropelay	1.16"	500 kcmil Ropelay	1.04"
PB50PC3S5A	PC	500 kcmil Ropelay	1.04"	1000 kcmil Ropelay	1.33"
PB50SS3S4N	SS	500 kcmil Ropelay	1.04"	750 kcmil Ropelay	1.16"
PB50SS3S4Y	SS	500 kcmil Ropelay	1.04"	1000 kcmil Concentric	1.15"
PB50SS3S5A	SS	500 kcmil Ropelay	1.04"	1000 kcmil Ropelay	1.33"
PB20TA3S3S	TA	500 kcmil Ropelay	1.04"	500 kcmil Ropelay	1.04"

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB60TA4X4X	TA	1600/#24 Ropelay	1.07"	1600/#24 Ropelay	1.07"
PB50SS4Y5F	SS	1000 kcmil Concentric	1.15"	2750/#24 Ropelay	1.39"
PB50SS4Y	SS	1000 kcmil Concentric	1.15"	1000 kcmil Concentric	1.15"
PB60TA4Y4Y	TA	1000 kcmil Concentric	1.15"	1000 kcmil Concentric	1.15"
PB80TA6H4Y	TA	2000 kcmil Concentric	1.61"	1000 kcmil Concentric	1.15"

Table 6/6

Catalog Number	Mold Family	Conductor 1	Conductor 1 Outer Diameter, Nominal	Conductor 2	Conductor 2 Outer Diameter, Nominal
PB50SS4N	SS	750 kcmil Ropelay	1.16"	750 kcmil Ropelay	1.16"
PB50PC5A5A	PC	1000 kcmil Ropelay	1.33"	1000 kcmil Ropelay	1.33"
PB50SS5A	SS	1000 kcmil Ropelay	1.33"	1000 kcmil Ropelay	1.33"
PB80TA6H6H	TA	2000 kcmil Concentric	1.61"	2000 kcmil Concentric	1.61"
PB53SS6H	SS	2000 kcmil Concentric	1.61"	2000 kcmil Concentric	1.61"

ADDITIONAL PRODUCT DETAILS

For applications such as computer room, tunnel or other low-ventilation areas, specify a smokeless nVent ERICO Cadweld Exolon mold. Add an XL prefix to the standard mold part number when ordering (for example, a PB10GR162G becomes XLPB10GR162G). Similarly, nVent ERICO Cadweld Exolon welding material is also designated by the XL prefix (for example, PB90 becomes XLPB90).

A gap between conductors may be required. See mold tag for more information.

XXXX-XX-XX-XX-L-M-W		
XXXX	Price Key	
XX	Mold Family	
XX	Conductor Code 1	
XX	Conductor Code 2	
L*	Split Crucible	Crucible section is split on molds designed with horizontal opening for easier cleaning
M*	Mold Only	
W*	Wear Plates	Reduce mechanical abrasion of molds at cable entry points

* Empty if none

WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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