

Cable to Ground Rod or Other Rounds, 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 1/1

Catalog Number	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor Outer Diameter, Nominal
PB10GR181E	GR	Copper-bonded	3/4"	0.68"	#8 Concentric	0.15"

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
PB10GR121H	GR	Steel	3/8"	0.38"	#6 Concentric	0.18"
PB10GR181H	GR	Copper-bonded	3/4"	0.68"	#6 Concentric	0.18"
PB10GR331H	GR	Steel	3/4"	0.75"	#6 Concentric	0.18"
PB10GT161H	GT	Copper-bonded	5/8"	0.56"	#6 Concentric	0.18"
PB10GT181H	GT	Copper-bonded	3/4"	0.68"	#6 Concentric	0.18"
PB10GR181V	GR	Copper-bonded	3/4"	0.68"	#2 Concentric	0.29"
PB10GT181V	GT	Copper-bonded	3/4"	0.68"	#2 Concentric	0.29"
PB13GY181V	GY	Copper-bonded	3/4"	0.68"	#2 Concentric	0.29"
PB19GY181V	GY	Copper-bonded	3/4"	0.68"	#2 Concentric	0.29"
PB10GR182C	GR	Copper-bonded	3/4"	0.68"	1/0 Concentric	0.37"
PB10GS352C	GS	Steel	7/8"	0.88"	1/0 Concentric	0.37"
PB10GT182C	GT	Copper-bonded	3/4"	0.68"	1/0 Concentric	0.37"
PB10GR162G	GR	Copper-bonded	5/8"	0.56"	2/0 Concentric	0.42"
PB10GR182G	GR	Copper-bonded	3/4"	0.68"	2/0 Concentric	0.42"
PB10GR332G	GR	Steel	3/4"	0.75"	2/0 Concentric	0.42"
PB10GT162G	GT	Copper-bonded	5/8"	0.56"	2/0 Concentric	0.42"
PB10GT182G	GT	Copper-bonded	3/4"	0.68"	2/0 Concentric	0.42"
PB19GY162G	GY	Copper-bonded	5/8"	0.56"	2/0 Concentric	0.42"

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
PB19GY182G	GY	Copper-bonded	3/4"	0.68"	2/0 Concentric	0.42"
PB10GR182Q	GR	Copper-bonded	3/4"	0.68"	4/0 Concentric	0.53"
PB10GR332Q	GR	Steel	3/4"	0.75"	4/0 Concentric	0.53"
PB10GT162Q	GT	Copper-bonded	5/8"	0.56"	4/0 Concentric	0.53"
PB10GT182Q	GT	Copper-bonded	3/4"	0.68"	4/0 Concentric	0.53"
PB10GT222Q	GT	Copper-bonded	1"	0.91"	4/0 Concentric	0.53"
PB10GT332Q	GT	Steel	3/4"	0.75"	4/0 Concentric	0.53"
PB13GY162Q	GY	Copper-bonded	5/8"	0.56"	4/0 Concentric	0.53"
PB13GY182Q	GY	Copper-bonded	3/4"	0.68"	4/0 Concentric	0.53"
PB19GY162Q	GY	Copper-bonded	5/8"	0.56"	4/0 Concentric	0.53"
PB19GY182Q	GY	Copper-bonded	3/4"	0.68"	4/0 Concentric	0.53"
PB13GV169F	GV	Copper-bonded	5/8"	0.56"	19/#9 Copperweld	0.57"
PB10GT182V	GT	Copper-bonded	3/4"	0.68"	250 kcmil Concentric	0.57"
PB10GR184H	GR	Copper-bonded	3/4"	0.68"	#24	0.6"
PB10GT182S	GT	Copper-bonded	3/4"	0.68"	4/0 Ropelay	0.61"
PB10GT184R	GT	Copper-bonded	3/4"	0.68"	#24 Ropelay	0.88"
PB10GF223S	GF	Copper-bonded	1"	0.91"	500 kcmil Ropelay	1.04"
PB60GG3S22	GG	Copper-bonded	1"	0.91"	500 kcmil Ropelay	1.04"

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	Ground Rod Code	
XX	Conductor Code	
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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