

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"	17.32 mm	#8 Concentric	3.71mm

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
PB10GR121H	GR	Steel	3/8"	9.53 mm	#6 Concentric	4.67mm
PB10GR181H	GR	Copper-bonded	3/4"	17.32 mm	#6 Concentric	4.67mm
PB10GT161H	GT	Copper-bonded	5/8"	14.3 mm	#6 Concentric	4.67mm
PB10GT181H	GT	Copper-bonded	3/4"	17.32 mm	#6 Concentric	4.67mm
PB10GR181V	GR	Copper-bonded	3/4"	17.32 mm	#2 Concentric	7.42mm
PB10GT181V	GT	Copper-bonded	3/4"	17.32 mm	#2 Concentric	7.42mm
PB13GY181V	GY	Copper-bonded	3/4"	17.32 mm	#2 Concentric	7.42mm
PB19GY181V	GY	Copper-bonded	3/4"	17.32 mm	#2 Concentric	7.42mm
PB10GR182C	GR	Copper-bonded	3/4"	17.32 mm	1/0 Concentric	9.47mm
PB10GS352C	GS	Steel	7/8"	22.23 mm	1/0 Concentric	9.47mm
PB10GT182C	GT	Copper-bonded	3/4"	17.32 mm	1/0 Concentric	9.47mm
PB10GR162G	GR	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
PB10GR182G	GR	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
PB10GT162G	GT	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
PB10GT182G	GT	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
PB19GY162G	GY	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
PB19GY182G	GY	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
PB10GR182Q	GR	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
PB10GT162Q	GT	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
PB10GT182Q	GT	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
PB10GT222Q	GT	Copper-bonded	1"	23.22 mm	4/0 Concentric	13.41mm
PB10GT332Q	GT	Steel	3/4"	19.05 mm	4/0 Concentric	13.41mm
PB13GY162Q	GY	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
PB13GY182Q	GY	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
PB19GY162Q	GY	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
PB19GY182Q	GY	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
PB13GV169F	GV	Copper-bonded	5/8"	14.3 mm	19/#9 Copperweld	14.53mm
PB10GT182V	GT	Copper-bonded	3/4"	17.32 mm	250 kcmil Concentric	14.61mm
PB10GR184H	GR	Copper-bonded	3/4"	17.32 mm	#24	15.37mm
PB10GT182S	GT	Copper-bonded	3/4"	17.32 mm	4/0 Ropelay	15.49mm
PB10GT184R	GT	Copper-bonded	3/4"	17.32 mm	#24 Ropelay	22.4mm
PB10GF223S	GF	Copper-bonded	1"	23.22 mm	500 kcmil Ropelay	26.42mm
PB60GG3S22	GG	Copper-bonded	1"	23.22 mm	500 kcmil Ropelay	26.42mm

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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