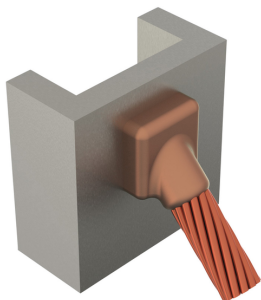


# CABLE TO STEEL, RAIL



## 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

Catalog Number	Mold Family	Connects To	Conductor Size	Conductor Outer Diameter, Nominal	Pipe Size	Outer Diameter
PB10VN1GRH2	VN	Steel Pipe	#6 Solid	0.162"	2"	2 3/8"
SB01VS6M	VS	Steel Pipe or Flat Surface	#6 Solid	0.162"	24" Min	24" Min
PB10VS1H	VS	Steel Pipe or Flat Surface	#6 Concentric	0.184"	24" Min	24" Min
SB01VS4M	VS	Steel Pipe or Flat Surface	#4 Solid	0.204"	24" Min	24" Min

Catalog Number	Mold Family	Connects To	Conductor Size	Conductor Outer Diameter, Nominal	Pipe Size	Outer Diameter
PB10HS1L	HS	Steel Pipe or Flat Surface	#4 Concentric	0.232"	24" Min	24" Min
PB10VB1L	VB	Steel Pipe or Flat Surface	#4 Concentric	0.232"	24" Min	24" Min
PB10VS1L	VS	Steel Pipe or Flat Surface	#4 Concentric	0.232"	24" Min	24" Min
PB20VT1L2.50	VT	Steel Pipe	#4 Concentric	0.232"	2 1/2"	2 7/8"
PB41HA1L	HA	Steel Pipe or Flat Surface	#4 Concentric	0.232"	24" Min	24" Min
PB10VS1T	VS	Steel Pipe or Flat Surface	#2 Solid	0.257"	24" Min	24" Min
PB10VB1H	VB	Steel Pipe or Flat Surface	#6 Concentric	0.292"	24" Min	24" Min
PB10VB1V	VB	Steel Pipe or Flat Surface	#2 Concentric	0.292"	24" Min	24" Min
PB41HA1Y	HA	Steel Pipe or Flat Surface	#1 Concentric	0.332"	24" Min	24" Min
PB10HS2G	HS	Steel Pipe or Flat Surface	2/0 Concentric	0.418"	24" Min	24" Min
PB10VB2G	VB	Steel Pipe or Flat Surface	2/0 Concentric	0.418"	24" Min	24" Min
PB10VB2GV1.50	VB	Steel Pipe	2/0 Concentric	0.418"	1 1/2"	1.900"
PB10VB2GV3C	VB	Steel Pipe	2/0 Concentric	0.418"	2" – 4"	2 3/8" – 4 1/2"
PB03VGY4	VG	Steel Pipe or Flat Surface	70 mm <sup>2</sup> Concentric	0.430"	24" Min	24" Min
PB10HS2Q	HS	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB10VB2Q	VB	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB10VN2QLH	VN	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB10VN2QRH	VN	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB10VS2Q	VS	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB10VS2QV3C	VS	Steel Pipe	4/0 Concentric	0.528"	2" – 4"	2 3/8" – 4 1/2"
PB13VF2Q	VF	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB13VV2Q	VV	Steel Pipe or Flat Surface	4/0 Concentric	0.528"	24" Min	24" Min
PB10VS3D	VS	Steel Pipe or Flat Surface	350 kcmil Concentric	0.681"	24" Min	24" Min
PB10HS2W	HS	Steel Pipe or Flat Surface	250 kcmil Ropelay	3/4"	24" Min	24" Min
PB10HS4M	HS	Steel Pipe or Flat Surface	#24 Ropelay	0.749"	24" Min	24" Min

Catalog Number	Mold Family	Connects To	Conductor Size	Conductor Outer Diameter, Nominal	Pipe Size	Outer Diameter
PB13VB3Q	VB	Steel Pipe or Flat Surface	500 kcmil Concentric	0.813"	24" Min	24" Min
PB10HS3S	HS	Steel Pipe or Flat Surface	500 kcmil Ropelay	1.040"	24" Min	24" Min

## ADDITIONAL PRODUCT DETAILS

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.

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 test weld should be made to check for the possibility of burn through on thin sections and to determine detrimental metallurgical effects.

<b>W-XXXX-XX-XX-LH-XX-L-M</b>		
W*	Wear Plates	Reduce mechanical abrasion of molds at cable entry points
XXXX	Price Key	
XX	Mold Family	
XX	Conductor Size	
LH	Weld End	LH = Weld on left end of conductor RH = Weld on right end of conductor (For VN Mold Family only)
XX	Pipe Size	
L*	Split Crucible	Crucible section is split on molds designed with horizontal opening for easier cleaning
M*	Mold Only	

\* Empty if none

## WARNING

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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](http://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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