

Cable to Ground Rod Splice/Grounding Receptacle



nVent ERICO Cadweld graphite molds are designed and engineered for thousands of connection styles and conductor combinations.

CERTIFICATIONS



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 1/2

Catalog Number	Ground Rod Type	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor Outer Diameter, Nominal
GBJGT161HR1	Copper-bonded	GB/GT	5/8"	14.3 mm	#6 Concentric	4.67mm
GBJGT181HR1	Copper-bonded	GB/GT	3/4"	17.32 mm	#6 Concentric	4.67mm
GBJGT181LR1	Copper-bonded	GB/GT	3/4"	17.32 mm	#4 Concentric	5.89mm
GBJGT181LR1 M	Copper-bonded	GB/GT	3/4"	17.32 mm	#4 Concentric	5.89mm
RAC1L2Q		RA (To Ground Plate)			#4 Concentric	5.89mm
RBC1L		RB (To Grounding Receptacle)			#4 Concentric	5.89mm
GBJGT181VR2	Copper-bonded	GB/GT	3/4"	17.32 mm	#2 Concentric	7.42mm
GBJGT181VR2 M	Copper-bonded	GB/GT	3/4"	17.32 mm	#2 Concentric	7.42mm
GBJGT162CR1 M	Copper-bonded	GB/GT	5/8"	14.3 mm	1/0 Concentric	9.47mm
GBJGT182CR1	Copper-bonded	GB/GT	3/4"	17.32 mm	1/0 Concentric	9.47mm
GBJGT182CR1 M	Copper-bonded	GB/GT	3/4"	17.32 mm	1/0 Concentric	9.47mm
GBJGT182CR3	Copper-bonded	GB/GT	3/4"	17.32 mm	1/0 Concentric	9.47mm
RAC2C		RA (To Grounding Receptacle)			1/0 Concentric	9.47mm
RAC2C2Q		RA (To Ground Plate)			1/0 Concentric	9.47mm

CatalogNumber	Ground Rod Type	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
RBC2C2Q		RB (To Ground Plate)			1/0 Concentric	9.47mm
GBJGR162CR2	Copper-bonded	GB/GR	5/8"	14.3 mm	1/0 Concentric	9.47mm
GBJGR182CR1	Copper-bonded	GB/GR	3/4"	17.32 mm	1/0 Concentric	9.47mm
GBJGR182CR1 M	Copper-bonded	GB/GR	3/4"	17.32 mm	1/0 Concentric	9.47mm
GBJGR182CR2	Copper-bonded	GB/GR	3/4"	17.32 mm	1/0 Concentric	9.47mm
GBJGR182CR2 M	Copper-bonded	GB/GR	3/4"	17.32 mm	1/0 Concentric	9.47mm
GECP100	Steel	GE	10"	10 mm		
GECP107P107	Steel	GE	10.7"	10.7 mm		
RAC2G		RA (To Grounding Receptacle)			2/0 Concentric	10.62mm
RAC2G2Q		RA (To Ground Plate)			2/0 Concentric	10.62mm
RAC2G3Q		RA (To Ground Plate)			2/0 Concentric	10.62mm
RBC2G		RB (To Grounding Receptacle)			2/0 Concentric	10.62mm
RBC2G2Q		RB (To Ground Plate)			2/0 Concentric	10.62mm
RBC2G3Q		RB (To Ground Plate)			2/0 Concentric	10.62mm
GBJGR182GR1	Copper-bonded	GB/GR	3/4"	17.32 mm	2/0 Concentric	10.62mm
GBJGR182GR2	Copper-bonded	GB/GR	3/4"	17.32 mm	2/0 Concentric	10.62mm

Catalog Number	Ground Rod Type	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor Outer Diameter, Nominal
GBJGR182GR2M	Copper-bonded	GB/GR	3/4"	17.32 mm	2/0 Concentric	10.62mm
GBJGR332GR1	Copper-bonded	GB/GR	3/4"	19.05 mm	2/0 Concentric	10.62mm
GBJGT162GR1	Copper-bonded	GB/GT	5/8"	14.3 mm	2/0 Concentric	10.62mm
GBJGT162GR1M	Copper-bonded	GB/GT	5/8"	14.3 mm	2/0 Concentric	10.62mm
GBJGT182GR1	Copper-bonded	GB/GT	3/4"	17.32 mm	2/0 Concentric	10.62mm
GBJGT182GR1M	Copper-bonded	GB/GT	3/4"	17.32 mm	2/0 Concentric	10.62mm
GBJGT332GR1	Copper-bonded	GB/GT	3/4"	19.05 mm	2/0 Concentric	10.62mm
RACY4		RA (To Grounding Receptacle)			70 mm ² Concentric	10.92mm
RACY42Q		RA (To Ground Plate)			70 mm ² Concentric	10.92mm
GECP120DBG	Steel	GE	12"	12 mm		
RAC2L2Q		RA (To Ground Plate)			3/0 Concentric	11.94mm
GBJGR182LR1	Copper-bonded	GB/GR	3/4"	17.32 mm	3/0 Concentric	11.94mm
GBJGT162LR1	Copper-bonded	GB/GT	5/8"	14.3 mm	3/0 Concentric	11.94mm
GBJGT182LR1M	Copper-bonded	GB/GT	3/4"	17.32 mm	3/0 Concentric	11.94mm
GBJGT182LR2	Copper-bonded	GB/GT	3/4"	17.32 mm	3/0 Concentric	11.94mm
GEC14	Steel	GE	1/2"	12.8 mm		

CatalogNumber	Ground Rod Type	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
GFCY5DBG		GF (To Ground Plate)			95 mm ² Concentric	12.83mm
RAC2Q		RA (To Grounding Receptacle)			4/0 Concentric	13.41mm
RAC2Q2Q		RA (To Ground Plate)			4/0 Concentric	13.41mm
RBC2Q		RB (To Grounding Receptacle)			4/0 Concentric	13.41mm
RBC2Q2Q		RB (To Ground Plate)			4/0 Concentric	13.41mm
GBJGR162QR1	Copper-bonded	GB/GR	5/8"	14.3 mm	4/0 Concentric	13.41mm
GBJGR182QR1	Copper-bonded	GB/GR	3/4"	17.32 mm	4/0 Concentric	13.41mm
GBJGT162QR1M	Copper-bonded	GB/GT	5/8"	14.3 mm	4/0 Concentric	13.41mm
GBJGT182QR1	Copper-bonded	GB/GT	3/4"	17.32 mm	4/0 Concentric	13.41mm
GBJGT182QR2M	Copper-bonded	GB/GT	3/4"	17.32 mm	4/0 Concentric	13.41mm
GBJGT332QR1M	Copper-bonded	GB/GT	3/4"	19.05 mm	4/0 Concentric	13.41mm
GBR16R1	Copper-bonded	GB	5/8"	14.3 mm		
GEC16	Copper-bonded	GE	5/8"	14.3 mm		
GFC2VDBG		GF (To Ground Plate)			250 kcmil Concentric	14.61mm
RAC2V2Q		RA (To Ground Plate)			250 kcmil Concentric	14.61mm
RACY62Q		RA (To Ground Plate)			120 mm ² Concentric	14.4mm

Catalog Number	Ground Rod Type	Mold Family	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor Outer Diameter, Nominal
GECP150	Steel	GE	15"	15 mm		
GEC31	Steel	GE	5/8"	15.88 mm		
GECP160	Steel	GE	16"	16 mm		
GBR18R1	Copper-bonded	GB	3/4"	17.32 mm		
GBR18R2	Copper-bonded	GB	3/4"	17.32 mm		
GEC18	Copper-bonded	GE	3/4"	17.3 mm		
GFC3DDBG		GF (To Ground Plate)			350 kcmil Concentric	17.3mm
GBR33R1	Steel	GB	3/4"	19.05 mm		
GBF22R1	Copper-bonded	GB	1"	23.22 mm		

Table 2/2

Catalog Number	Connects To	Ground Plate/Grounding Receptacle	Certifications
GBJGT161HR1		B165 Grounding Receptacle	cUL, UL
GBJGT181HR1		B165 Grounding Receptacle	cUL, UL
GBJGT181LR1		B165 Grounding Receptacle	UL, cUL
GBJGT181LR1M		B165 Grounding Receptacle	cUL, UL
RAC1L2Q		4/0 Ground Plate	cUL, UL
RBC1L		B165 Grounding Receptacle	UL, cUL
GBJGT181VR2		B166 Grounding Receptacle	UL, cUL

Catalog Number	Connects To	Ground Plate/Grounding Receptacle	Certifications
GBJGT181VR2M		B166 Grounding Receptacle	cUL, UL
GBJGT162CR1M		B165 Grounding Receptacle	UL, cUL
GBJGT182CR1		B165 Grounding Receptacle	UL, cUL
GBJGT182CR1M		B165 Grounding Receptacle	cUL, UL
GBJGT182CR3		B167 Grounding Receptacle	UL, cUL
RAC2C		B165 Grounding Receptacle	UL, cUL
RAC2C2Q		4/0 Ground Plate	UL, cUL
RBC2C2Q		4/0 Ground Plate	UL, cUL
GBJGR162CR2		B166 Grounding Receptacle	cUL, UL
GBJGR182CR1		B165 Grounding Receptacle	cUL, UL
GBJGR182CR1M		B165 Grounding Receptacle	UL, cUL
GBJGR182CR2		B166 Grounding Receptacle	cUL, UL
GBJGR182CR2M		B166 Grounding Receptacle	UL, cUL
GECP100	Identical Ground Rod		
GECP107P107	Identical Ground Rod		
RAC2G		B165 Grounding Receptacle	cUL, UL
RAC2G2Q		4/0 Ground Plate	UL, cUL
RAC2G3Q		500 kcmil Ground Plate	UL, cUL

Catalog Number	Connects To	Ground Plate/Grounding Receptacle	Certifications
RBC2G		B165 Grounding Receptacle	cUL, UL
RBC2G2Q		4/0 Ground Plate	UL, cUL
RBC2G3Q		500 kcmil Ground Plate	
GBJGR182GR1		B165 Grounding Receptacle	cUL, UL
GBJGR182GR2		B166 Grounding Receptacle	UL, cUL
GBJGR182GR2M		B166 Grounding Receptacle	cUL, UL
GBJGR332GR1		B165 Grounding Receptacle	UL, cUL
GBJGT162GR1		B165 Grounding Receptacle	cUL, UL
GBJGT162GR1M		B165 Grounding Receptacle	UL, cUL
GBJGT182GR1		B165 Grounding Receptacle	cUL, UL
GBJGT182GR1M		B165 Grounding Receptacle	UL, cUL
GBJGT332GR1		B165 Grounding Receptacle	cUL, UL
RACY4		B165 Grounding Receptacle	UL, cUL
RACY42Q		4/0 Ground Plate	UL, cUL
GECP120DBG		DB Ground Plate	
RAC2L2Q		4/0 Ground Plate	cUL, UL
GBJGR182LR1		B165 Grounding Receptacle	UL, cUL
GBJGT162LR1		B165 Grounding Receptacle	cUL, UL

Catalog Number	Connects To	Ground Plate/Grounding Receptacle	Certifications
GBJGT182LR1M		B165 Grounding Receptacle	cUL, UL
GBJGT182LR2		B166 Grounding Receptacle	UL, cUL
GEC14	Identical Ground Rod		
GFCY5DBG		DB Ground Plate	
RAC2Q		B165 Grounding Receptacle	UL, cUL
RAC2Q2Q		4/0 Ground Plate	UL, cUL
RBC2Q		B165 Grounding Receptacle	UL, cUL
RBC2Q2Q		4/0 Ground Plate	cUL, UL
GBJGR162QR1		B165 Grounding Receptacle	UL, cUL
GBJGR182QR1		B165 Grounding Receptacle	cUL, UL
GBJGT162QR1M		B165 Grounding Receptacle	UL, cUL
GBJGT182QR1		B165 Grounding Receptacle	cUL, UL
GBJGT182QR2M		B166 Grounding Receptacle	UL, cUL
GBJGT332QR1M		B165 Grounding Receptacle	UL, cUL
GBR16R1		B165 Grounding Receptacle	cUL, UL
GEC16	Identical Ground Rod		
GFC2VDBG		DB Ground Plate	
RAC2V2Q		4/0 Ground Plate	cUL, UL

Catalog Number	Connects To	Ground Plate/Grounding Receptacle	Certifications
RACY62Q		4/0 Ground Plate	cUL, UL
GECP150	Identical Ground Rod		
GEC31	Identical Ground Rod		
GECP160	Identical Ground Rod		
GBR18R1		B165 Grounding Receptacle	UL, cUL
GBR18R2		B166 Grounding Receptacle	cUL, UL
GEC18	Identical Ground Rod		
GFC3DDBG		DB Ground Plate	
GBR33R1		B165 Grounding Receptacle	UL, cUL
GBF22R1		B165 Grounding Receptacle	UL, cUL

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 TAC2Q2Q becomes XLTAC2Q2Q). Similarly, nVent ERICO Cadweld Exolon welding material is also designated by the XL prefix (for example, 150 becomes XL150).

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

XX-X-XX-XX-XX-XX-L-M-W		
XX	Mold Family	
X	Price Key	
XX	Mold Family	
XX	Ground Rod Type	
XX	Conductor Code	
XX	Grounding Receptacle	
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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