

Cable to Ground Rod or Other Rounds, Heavy Duty



Heavy duty connections were originally developed to be used on reclaimed cable. The heavy duty connections use a larger size connection cavity in the mold and a larger size welding material than the equivalent standard duty connection.

The larger size welding material supplies extra BTU's to melt the heavy oxide coating on the conductor and to overcome some severe field conditions. Heavy duty connections eliminate cutting the run conductor on certain types of connections, reduce cable cleaning requirements for old or reclaimed cable, and increase reliability under adverse field conditions.

Heavy duty connections are increasingly being specified for copper-coated steel conductor connections.

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	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor Outer Diameter, Nominal
HDGTC181L	GT	Copper-bonded	3/4"	17.32 mm	#4 Concentric	5.89mm
HDGRC161Q	GR	Copper-bonded	5/8"	14.3 mm	#3 Concentric	6.6mm
HDGRC161V	GR	Copper-bonded	5/8"	14.3 mm	#2 Concentric	7.42mm
HDGTC161V	GT	Copper-bonded	5/8"	14.3 mm	#2 Concentric	7.42mm
HDGTC181V	GT	Copper-bonded	3/4"	17.32 mm	#2 Concentric	7.42mm
HDGRC169A	GR	Copper-bonded	5/8"	14.3 mm	7/#10 Copperweld	7.77mm
HDGTC182B	GT	Copper-bonded	3/4"	17.32 mm	1/0 Solid	8.23mm
HDGTC182C	GT	Copper-bonded	3/4"	17.32 mm	1/0 Concentric	9.47mm
HDGRC162C	GR	Copper-bonded	5/8"	14.3 mm	1/0 Concentric	9.47mm
HDGTC162C	GT	Copper-bonded	5/8"	14.3 mm	1/0 Concentric	9.47mm
HDGTC162CW	GT	Copper-bonded	5/8"	14.3 mm	1/0 Concentric	9.47mm
HDGRC162G	GR	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
HDGRC162GW	GR	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
HDGRC182G	GR	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
HDGRC182GW	GR	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
HDGRC222G	GR	Copper-bonded	1"	23.22 mm	2/0 Concentric	10.62mm

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
HDGRC372G	GR	Steel	1"	25.4 mm	2/0 Concentric	10.62mm
HDGTC162G	GT	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
HDGTC162GW	GT	Copper-bonded	5/8"	14.3 mm	2/0 Concentric	10.62mm
HDGTC182G	GT	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
HDGTC182GW	GT	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
HDGTC222G	GT	Copper-bonded	1"	23.22 mm	2/0 Concentric	10.62mm
HDGYE182G	GY	Copper-bonded	3/4"	17.32 mm	2/0 Concentric	10.62mm
HDGNR169C	GN	Copper-bonded	5/8"	14.3 mm	7/#7 Copperweld	11mm
HDGNR169CW	GN	Copper-bonded	5/8"	14.3 mm	7/#7 Copperweld	11mm
HDGRC332P	GR	Steel	3/4"	19.05 mm	4/0 Solid	11.68mm
HDGTC182P	GT	Copper-bonded	3/4"	17.32 mm	4/0 Solid	11.68mm
HDGTC182L	GT	Copper-bonded	3/4"	17.32 mm	3/0 Concentric	11.94mm
HDGRC162L	GR	Copper-bonded	5/8"	14.3 mm	3/0 Concentric	11.94mm
HDGTC162L	GT	Copper-bonded	5/8"	14.3 mm	3/0 Concentric	11.94mm
HDGTC162LW	GT	Copper-bonded	5/8"	14.3 mm	3/0 Concentric	11.94mm
HDGMR182Q	GM	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGRC162Q	GR	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
HDGRC162QW	GR	Copper-bonded	5/8"	14.3 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
HDGRC182Q	GR	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGRC182QW	GR	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGRC222Q	GR	Copper-bonded	1"	23.22 mm	4/0 Concentric	13.41mm
HDGRC312Q	GR	Steel	5/8"	15.88 mm	4/0 Concentric	13.41mm
HDGTC162Q	GT	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
HDGTC162QW	GT	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
HDGTC182Q	GT	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGTC182QW	GT	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGYE162Q	GY	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
HDGYE162QW	GY	Copper-bonded	5/8"	14.3 mm	4/0 Concentric	13.41mm
HDGYE182Q	GY	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGYE182QM	GY	Copper-bonded	3/4"	17.32 mm	4/0 Concentric	13.41mm
HDGYE222Q	GY	Copper-bonded	1"	23.22 mm	4/0 Concentric	13.41mm
HDGTC169FW	GT	Copper-bonded	5/8"	14.3 mm	19/#9 Copperweld	14.53mm
HDGTC169G	GT	Copper-bonded	5/8"	14.3 mm	19/#8 Copperweld	16.31mm
HDGTD163H	GT	Copper-bonded	5/8"	14.3 mm	400 kcmil Concentric	18.49mm
HDGTD163Q	GT	Copper-bonded	5/8"	14.3 mm	500 kcmil Concentric	20.65mm
HDGTD163QW	GT	Copper-bonded	5/8"	14.3 mm	500 kcmil Concentric	20.65mm

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
HDGTD169HW	GT	Copper-bonded	5/8"	14.3 mm	19/#7 Copperweld	18.31mm
HDGTD169K	GT	Copper-bonded	5/8"	14.3 mm	19/#5 Copperweld	23.11mm
HDGNF169F	GN	Copper-bonded	5/8"	14.3 mm	19/#9 Copperweld	14.53mm
HDGRC163A	GR	Copper-bonded	5/8"	14.3 mm	300 kcmil Concentric	16mm
HDGRC163H	GR	Copper-bonded	5/8"	14.3 mm	400 kcmil Concentric	18.49mm
HDGRC163Q	GR	Copper-bonded	5/8"	14.3 mm	500 kcmil Concentric	20.65mm
HDGTC162V	GT	Copper-bonded	5/8"	14.3 mm	250 kcmil Concentric	14.61mm
HDGTC163A	GT	Copper-bonded	5/8"	14.3 mm	300 kcmil Concentric	16mm
HDGTC163AW	GT	Copper-bonded	5/8"	14.3 mm	300 kcmil Concentric	16mm
HDGTC163D	GT	Copper-bonded	5/8"	14.3 mm	350 kcmil Concentric	17.3mm
HDGTC169F	GT	Copper-bonded	5/8"	14.3 mm	19/#9 Copperweld	14.53mm
HDGRC182V	GR	Copper-bonded	3/4"	17.32 mm	250 kcmil Concentric	14.61mm
HDGTC182V	GT	Copper-bonded	3/4"	17.32 mm	250 kcmil Concentric	14.61mm
HDGTC189F	GT	Copper-bonded	3/4"	17.32 mm	19/#9 Copperweld	14.53mm
HDGTD313Q	GT	Steel	5/8"	15.88 mm	500 kcmil Concentric	20.65mm
HDGTC183D	GT	Copper-bonded	3/4"	17.32 mm	350 kcmil Concentric	17.3mm
HDGTD183Q	GT	Copper-bonded	3/4"	17.32 mm	500 kcmil Concentric	20.65mm
HDGTD189K	GT	Copper-bonded	3/4"	17.32 mm	19/#5 Copperweld	23.11mm

CatalogNumber	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Conductor Size	Conductor OuterDiameter, Nominal
HDGYJ183Q	GY	Copper-bonded	3/4"	17.32 mm	500 kcmil Concentric	20.65mm
HDGRC183D	GR	Copper-bonded	3/4"	17.32 mm	350 kcmil Concentric	17.3mm
HDGRC183H	GR	Copper-bonded	3/4"	17.32 mm	400 kcmil Concentric	18.49mm
HDGRC183Q	GR	Copper-bonded	3/4"	17.32 mm	500 kcmil Concentric	20.65mm
HDGRD184L	GR	Copper-bonded	3/4"	17.32 mm	750 kcmil Concentric	25.35mm
HDGTF224Y	GT	Copper-bonded	1"	23.22 mm	1000 kcmil Concentric	29.26mm

Table 2/2

Catalog Number	Certifications
HDGTC181L	UL, cUL
HDGRC161Q	UL, cUL
HDGRC161V	cUL, UL
HDGTC161V	cUL, UL
HDGTC181V	cUL, UL
HDGRC169A	
HDGTC182B	UL, cUL
HDGTC182C	UL, cUL
HDGRC162C	UL, cUL
HDGTC162C	UL, cUL

Catalog Number	Certifications
HDGTC162CW	cUL, UL
HDGRC162G	UL, cUL
HDGRC162GW	cUL, UL
HDGRC182G	cUL, UL
HDGRC182GW	UL, cUL
HDGRC222G	UL, cUL
HDGRC372G	cUL, UL
HDGTC162G	cUL, UL
HDGTC162GW	UL, cUL
HDGTC182G	cUL, UL
HDGTC182GW	UL, cUL
HDGTC222G	cUL, UL
HDGYE182G	UL, cUL
HDGNR169C	
HDGNR169CW	
HDGRC332P	UL, cUL
HDGTC182P	cUL, UL
HDGTC182L	UL, cUL

Catalog Number	Certifications
HDGRC162L	UL, cUL
HDGTC162L	cUL, UL
HDGTC162LW	cUL, UL
HDGMR182Q	
HDGRC162Q	UL, cUL
HDGRC162QW	cUL, UL
HDGRC182Q	cUL, UL
HDGRC182QW	cUL, UL
HDGRC222Q	cUL, UL
HDGRC312Q	UL, cUL
HDGTC162Q	UL, cUL
HDGTC162QW	cUL, UL
HDGTC182Q	UL, cUL
HDGTC182QW	UL, cUL
HDGYE162Q	UL, cUL
HDGYE162QW	cUL, UL
HDGYE182Q	UL, cUL
HDGYE182QM	cUL, UL

Catalog Number	Certifications
HDGYE222Q	UL, cUL
HDGTC169FW	
HDGTC169G	
HDGTD163H	
HDGTD163Q	
HDGTD163QW	
HDGTD169HW	
HDGTD169K	
HDGNF169F	
HDGRC163A	
HDGRC163H	
HDGRC163Q	
HDGTC162V	cUL, UL
HDGTC163A	
HDGTC163AW	
HDGTC163D	
HDGTC169F	
HDGRC182V	UL, cUL

Catalog Number	Certifications
HDGTC182V	cUL, UL
HDGTC189F	
HDGTD313Q	
HDGTC183D	
HDGTD183Q	
HDGTD189K	
HDGYJ183Q	
HDGRC183D	
HDGRC183H	
HDGRC183Q	
HDGRD184L	
HDGTF224Y	

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).

HD-XX-X-XX-XX-L-M-W		
HD	Heavy Duty Designation	
XX	Mold Family	
X	Price Key	
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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