

Ground Rod to Lug or Busbar



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

Mold Families LA and LE can be used with straight or offset lugs

SPECIFICATIONS

Table 1/2

Catalog Number	Article Number	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Lug/Busbar Size
LAC18EK		LA (To Ground Rod)	Copper-bonded	3/4"	17.3 mm	1/4" x 3" and wider
CMC14EAJ		CM	Steel	1/2"	12.83 mm	4 mm x 25 mm
CMC14EAL		CM	Steel	1/2"	12.83 mm	4 mm x 40 mm
CMC14EAM		CM	Steel	1/2"	12.83 mm	4 mm x 50 mm
CMC14FAM		CM	Steel	1/2"	12.83 mm	5 mm x 50 mm
CNC14EAJ		CN	Steel	1/2"	12.83 mm	4 mm x 25 mm
CNC14EAM		CN	Steel	1/2"	12.83 mm	4 mm x 50 mm
CSE14EG		CS	Steel	1/2"	12.83 mm	1/4" x 1 1/2"
CMC16CAJ		CM	Copper-bonded	5/8"	14.3 mm	3 mm x 25 mm
CMC16CAM		CM	Copper-bonded	5/8"	14.3 mm	3 mm x 50 mm
CMC16EAJ		CM	Copper-bonded	5/8"	14.3 mm	4 mm x 25 mm
CMC16EAL		CM	Copper-bonded	5/8"	14.3 mm	4 mm x 40 mm
CMC16EH		CM	Copper-bonded	5/8"	14.3 mm	1/4" x 2"
CMC16PAJ		CM	Copper-bonded	5/8"	14.3 mm	6 mm x 25 mm
CMC16PAL		CM	Copper-bonded	5/8"	14.3 mm	6 mm x 40 mm
CMC16PAM		CM	Copper-bonded	5/8"	14.3 mm	6 mm x 50 mm
CNC16CAJ		CN	Copper-bonded	5/8"	14.3 mm	3 mm x 25 mm

CatalogNumber	Article Number	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Lug/Busbar Size
CNC16CAK		CN	Copper-bonded	5/8"	14.3 mm	3 mm x 30 mm
CNC16EAM		CN	Copper-bonded	5/8"	14.3 mm	4 mm x 50 mm
CNC16FAL		CN	Copper-bonded	5/8"	14.3 mm	5 mm x 40 mm
CPC16BAH		CP	Copper-bonded	5/8"	14.3 mm	2 mm x 20 mm
CPC16CAJ		CP	Copper-bonded	5/8"	14.3 mm	3 mm x 25 mm and wider
CPC16EAJ		CP	Copper-bonded	5/8"	14.3 mm	4 mm x 25 mm and wider
CQR16CAH		CQ	Copper-bonded	5/8"	14.3 mm	3 mm x 20 mm
CRC16CE		CR	Copper-bonded	5/8"	14.3 mm	1/8" x 1"
CRC16EK		CR	Copper-bonded	5/8"	14.3 mm	1/4" x 3" and wider
CRC16FAM		CR	Copper-bonded	5/8"	14.3 mm	5 mm x 50 mm and wider
CRC16PAM		CR	Copper-bonded	5/8"	14.3 mm	6 mm x 50 mm and wider
CSE16EAJ		CS	Copper-bonded	5/8"	14.3 mm	4 mm x 25 mm
CSE16EAM		CS	Copper-bonded	5/8"	14.3 mm	4 mm x 50 mm
CMCP160CAJ		CM	Steel	16"	16 mm	3 mm x 25 mm
CRCP160CAJ		CR	Steel	16"	16 mm	3 mm x 25 mm
CMC18CAJ		CM	Copper-bonded	3/4"	17.32 mm	3 mm x 25 mm
CMC18CAL		CM	Copper-bonded	3/4"	17.32 mm	3 mm x 40 mm
CNC18CAJ		CN	Copper-bonded	3/4"	17.32 mm	3 mm x 25 mm

CatalogNumber	Article Number	Mold Family	Ground Rod Type	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual	Lug/Busbar Size
CNC18CAK		CN	Copper-bonded	3/4"	17.32 mm	3 mm x 30 mm
CNC18CAL		CN	Copper-bonded	3/4"	17.32 mm	3 mm x 40 mm
CNC18EAL		CN	Copper-bonded	3/4"	17.32 mm	4 mm x 40 mm
CPC18CAJ		CP	Copper-bonded	3/4"	17.32 mm	3 mm x 25 mm and wider
CPC18EAJ		CP	Copper-bonded	3/4"	17.32 mm	4 mm x 25 mm and wider
CRC18BAL		CR	Copper-bonded	3/4"	17.32 mm	2 mm x 40 mm and wider
CRC18EAL		CR	Copper-bonded	3/4"	17.32 mm	4 mm x 40 mm and wider
CRC18EH		CR	Copper-bonded	3/4"	17.32 mm	1/4" x 2" and wider
CRD18EK		CR	Copper-bonded	3/4"	17.32 mm	1/4" x 3" and wider
CNCP180FAM		CN	Steel	18"	18 mm	5 mm x 50 mm
CQRP190CAJ		CQ	Steel	19"	19 mm	3 mm x 25 mm
CMCP200CAJ	238133	CM	Steel	20"	20 mm	3 mm x 25 mm
CNCP200CAK		CN	Steel	20"	20 mm	3 mm x 30 mm
CQFP200FAN		CQ	Steel	20"	20 mm	5 mm x 60 mm
CQRP200PAJ		CQ	Steel	20"	20 mm	6 mm x 25 mm
CMC22CAJ		CM	Copper-bonded	1"	23.22 mm	3 mm x 25 mm
CMD22FAM		CM	Copper-bonded	1"	23.22 mm	5 mm x 50 mm

Table 2/2

Catalog Number	Article Number	Certifications
LAC18EK		
CMC14EAJ		
CMC14EAL		
CMC14EAM		
CMC14FAM		
CNC14EAJ		
CNC14EAM		
CSE14EG		
CMC16CAJ		
CMC16CAM		
CMC16EAJ		
CMC16EAL		
CMC16EH		
CMC16PAJ		
CMC16PAL		
CMC16PAM		
CNC16CAJ		
CNC16CAK		

Catalog Number	Article Number	Certifications
CNC16EAM		
CNC16FAL		
CPC16BAH		
CPC16CAJ		
CPC16EAJ		
CQR16CAH		
CRC16CE		
CRC16EK		
CRC16FAM		
CRC16PAM		
CSE16EAJ		
CSE16EAM		
CMCP160CAJ		
CRCP160CAJ		
CMC18CAJ		
CMC18CAL		
CNC18CAJ		
CNC18CAK		

Catalog Number	Article Number	Certifications
CNC18CAL		
CNC18EAL		
CPC18CAJ		
CPC18EAJ		
CRC18BAL		cUL, UL
CRC18EAL		
CRC18EH		
CRD18EK		
CNCP180FAM		
CQRP190CAJ		
CMCP200CAJ	238133	
CNCP200CAK		
CQFP200FAN		
CQRP200PAJ		
CMC22CAJ		
CMD22FAM		

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-L-M-W		
XX	Mold Family	
X	Price Key	
XX	Ground Rod Code	
XX	Lug/Busbar Size	
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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