

# 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                            |

| Catalog Number | Ground Rod Type | Mold Family                  | Ground Rod Diameter, Nominal | Ground Rod Diameter, Actual | Conductor Size | Conductor Outer Diameter, 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                           |

| CatalogNumber | Ground Rod Type | Mold Family                  | Ground Rod Diameter, Nominal | Ground Rod Diameter, Actual | Conductor Size                | Conductor OuterDiameter, 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 <sup>2</sup> Concentric | 10.92mm                          |
| RACY42Q       |                 | RA (To Ground Plate)         |                              |                             | 70 mm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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](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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