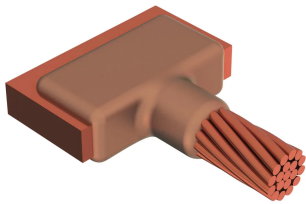


# nVent ERICO Cadweld Exolon, Cable to Lug or Busbar



Developed in 1988, nVent ERICO Cadweld Exolon connections represented a significant advancement in welded electrical connections for sensitive indoor applications like data centers, hospitals, and other clean room environments. The virtual elimination of smoke and a unique electronic starting system makes this an ideal solution for sensitive applications. Each nVent ERICO Cadweld Exolon package contains ceramic filters that produce an extremely low emission connection.

## 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 | Mold Family | Lug/Busbar Size          | Conductor Size | Conductor Outer Diameter, Nominal | Conductor 1 | Conductor 1 Outer Diameter, Nominal |
|----------------|-------------|--------------------------|----------------|-----------------------------------|-------------|-------------------------------------|
| XLLAP1HAA      | LA          | 1/16" x 1/2"             | #6 Concentric  | 4.67mm                            |             |                                     |
| XLLAP1HAAM     | LA          | 1/16" x 1/2"             | #6 Concentric  | 4.67mm                            |             |                                     |
| XLLJCEG1H      | LJ          | 1/4" x 1 1/2" and wider  | #6 Concentric  | 4.67mm                            |             |                                     |
| XLGLCCE1L      | GL          | 1/8" x 1"                | #4 Concentric  | 5.89mm                            |             |                                     |
| XLLAC1TCE      | LA          | 1/8" x 1"                | #2 Solid       | 6.53mm                            |             |                                     |
| XLLJCEG1T      | LJ          | 1/4" x 1 1/2" and wider  | #2 Solid       | 6.53mm                            |             |                                     |
| XLLREEG1T      | LR          | 1/4" x 1 1/2" and wider  | #2 Solid       | 6.53mm                            |             |                                     |
| XLLAC1VCE      | LA          | 1/8" x 1"                | #2 Concentric  | 7.42mm                            |             |                                     |
| XLLJCAG1V      | LJ          | 1/16" x 1 1/2" and wider | #2 Concentric  | 7.42mm                            |             |                                     |
| XLLJCEG1V      | LJ          | 1/4" x 1 1/2" and wider  | #2 Concentric  | 7.42mm                            |             |                                     |
| XLLJCGG1V      | LJ          | 3/8" x 1 1/2" and wider  | #2 Concentric  | 7.42mm                            |             |                                     |
| XLLQEEH1VS     | LQ          | 1/4" x 2" and wider      | #2 Concentric  | 7.42mm                            |             |                                     |
| XLGLCCE2C      | GL          | 1/8" x 1"                | 1/0 Concentric | 9.47mm                            |             |                                     |
| XLLJCEG2C      | LJ          | 1/4" x 1 1/2" and wider  | 1/0 Concentric | 9.47mm                            |             |                                     |
| XLGLCCE2G      | GL          | 1/8" x 1"                | 2/0 Concentric | 10.62mm                           |             |                                     |
| XLLAC2GCE      | LA          | 1/8" x 1"                | 2/0 Concentric | 10.62mm                           |             |                                     |

| CatalogNumber | Mold Family | Lug/Busbar Size         | Conductor Size       | Conductor OuterDiameter, Nominal | Conductor 1    | Conductor 1 OuterDiameter, Nominal |
|---------------|-------------|-------------------------|----------------------|----------------------------------|----------------|------------------------------------|
| XLLAC2GDE     | LA          | 3/16" x 1"              | 2/0 Concentric       | 10.62mm                          |                |                                    |
| XLLJCEG2G     | LJ          | 1/4" x 1 1/2" and wider | 2/0 Concentric       | 10.62mm                          |                |                                    |
| XLLJCEG2L     | LJ          | 1/4" x 1 1/2" and wider | 3/0 Concentric       | 11.94mm                          |                |                                    |
| XLLQJEH2LMS   | LQ          | 1/4" x 2" and wider     | 3/0 Concentric       | 11.94mm                          |                |                                    |
| XLLQJEH2LS    | LQ          | 1/4" x 2" and wider     | 3/0 Concentric       | 11.94mm                          |                |                                    |
| XLGLCDE2Q     | GL          | 3/16" x 1"              | 4/0 Concentric       | 13.41mm                          |                |                                    |
| XLLJCCE2Q     | LJ          | 1/8" x 1"               | 4/0 Concentric       | 13.41mm                          |                |                                    |
| XLLJCEG2Q     | LJ          | 1/4" x 1 1/2" and wider | 4/0 Concentric       | 13.41mm                          |                |                                    |
| XLLQJEH2Q     | LQ          | 1/4" x 2" and wider     | 4/0 Concentric       | 13.41mm                          |                |                                    |
| XLLQJEH2QMS   | LQ          | 1/4" x 2" and wider     | 4/0 Concentric       | 13.41mm                          |                |                                    |
| XLLQJEH2QS    | LQ          | 1/4" x 2" and wider     | 4/0 Concentric       | 13.41mm                          |                |                                    |
| XLLSK2QGH     | LS          | 3/8" x 2"               |                      |                                  | 4/0 Concentric | 13.41mm                            |
| XLLSK2QGHS    | LS          | 3/8" x 2"               |                      |                                  | 4/0 Concentric | 13.41mm                            |
| XLLSK2QJK     | LS          | 1/2" x 3"               |                      |                                  | 4/0 Concentric | 13.41mm                            |
| XLLSK2QJKS    | LS          | 1/2" x 3"               |                      |                                  | 4/0 Concentric | 13.41mm                            |
| XLLQJEH2VS    | LQ          | 1/4" x 2" and wider     | 250 kcmil Concentric | 14.61mm                          |                |                                    |
| XLLQJGH2V     | LQ          | 3/8" x 2" and wider     | 250 kcmil Concentric | 14.61mm                          |                |                                    |
| XLLAC2SCE     | LA          | 1/8" x 1"               | 4/0 Ropelay          | 15.49mm                          |                |                                    |

| CatalogNumber | Mold Family | Lug/Busbar Size         | Conductor Size       | Conductor OuterDiameter, Nominal | Conductor 1 | Conductor 1 OuterDiameter, Nominal |
|---------------|-------------|-------------------------|----------------------|----------------------------------|-------------|------------------------------------|
| XLLAD2WGHS    | LA          | 3/8" x 2"               | 250 kcmil Ropelay    | 19.05mm                          |             |                                    |
| XLLAC3QEG     | LA          | 1/4" x 1 1/2"           | 500 kcmil Concentric | 20.65mm                          |             |                                    |
| XLLJCEG3Q     | LJ          | 1/4" x 1 1/2" and wider | 500 kcmil Concentric | 20.65mm                          |             |                                    |
| XLLJCEG3QS    | LJ          | 1/4" x 1 1/2" and wider | 500 kcmil Concentric | 20.65mm                          |             |                                    |
| XLLQJEH3QS    | LQ          | 1/4" x 2" and wider     | 500 kcmil Concentric | 20.65mm                          |             |                                    |
| XLLJCGG4L     | LJ          | 3/8" x 1 1/2" and wider | 750 kcmil Concentric | 25.35mm                          |             |                                    |
| XLLJCGG4LS    | LJ          | 3/8" x 1 1/2" and wider | 750 kcmil Concentric | 25.35mm                          |             |                                    |
| XLLQJEH4LS    | LQ          | 1/4" x 2" and wider     | 750 kcmil Concentric | 25.35mm                          |             |                                    |
| XLLQJGH4L     | LQ          | 3/8" x 2" and wider     | 750 kcmil Concentric | 25.35mm                          |             |                                    |
| XLLAD5AJH     | LA          | 1/2" x 2"               | 1000 kcmil Ropelay   | 33.78mm                          |             |                                    |
| XLLAD5AJHS    | LA          | 1/2" x 2"               | 1000 kcmil Ropelay   | 33.78mm                          |             |                                    |

Table 2/2

| Catalog Number | Conductor 2 | Conductor 2 Outer Diameter, Nominal | Certifications |
|----------------|-------------|-------------------------------------|----------------|
| XLLAP1HAA      |             |                                     | cUL, UL        |
| XLLAP1HAAM     |             |                                     | UL, cUL        |
| XLLJCEG1H      |             |                                     | UL, cUL        |
| XLGLCCE1L      |             |                                     | cUL, UL        |
| XLLAC1TCE      |             |                                     | UL, cUL        |

| Catalog Number | Conductor 2 | Conductor 2 Outer Diameter,<br>Nominal | Certifications |
|----------------|-------------|----------------------------------------|----------------|
| XLLJCEG1T      |             |                                        | cUL, UL        |
| XLLREEG1T      |             |                                        |                |
| XLLAC1VCE      |             |                                        | cUL, UL        |
| XLLJCAG1V      |             |                                        | cUL, UL        |
| XLLJCEG1V      |             |                                        | cUL, UL        |
| XLLJCGG1V      |             |                                        | UL, cUL        |
| XLLQEEH1VS     |             |                                        | cUL, UL        |
| XLGLCCE2C      |             |                                        | UL, cUL        |
| XLLJCEG2C      |             |                                        | UL, cUL        |
| XLGLCCE2G      |             |                                        | cUL, UL        |
| XLLAC2GCE      |             |                                        | UL, cUL        |
| XLLAC2GDE      |             |                                        | UL, cUL        |
| XLLJCEG2G      |             |                                        | cUL, UL        |
| XLLJCEG2L      |             |                                        | cUL, UL        |
| XLLQJEH2LMS    |             |                                        | UL, cUL        |
| XLLQJEH2LS     |             |                                        | cUL, UL        |
| XLGLCDE2Q      |             |                                        | cUL, UL        |
| XLLJCCE2Q      |             |                                        | cUL, UL        |

| Catalog Number | Conductor 2    | Conductor 2 Outer Diameter,<br>Nominal | Certifications |
|----------------|----------------|----------------------------------------|----------------|
| XLLJCEG2Q      |                |                                        | UL, cUL        |
| XLLQJEH2Q      |                |                                        | cUL, UL        |
| XLLQJEH2QMS    |                |                                        | UL, cUL        |
| XLLQJEH2QS     |                |                                        | cUL, UL        |
| XLLSK2QGH      | 4/0 Concentric | 13.41mm                                |                |
| XLLSK2QGHS     | 4/0 Concentric | 13.41mm                                |                |
| XLLSK2QJK      | 4/0 Concentric | 13.41mm                                |                |
| XLLSK2QJKS     | 4/0 Concentric | 13.41mm                                |                |
| XLLQJEH2VS     |                |                                        | cUL, UL        |
| XLLQJGH2V      |                |                                        | UL, cUL        |
| XLLAC2SCE      |                |                                        | cUL, UL        |
| XLLAD2WGHS     |                |                                        |                |
| XLLAC3QEG      |                |                                        |                |
| XLLJCEG3Q      |                |                                        |                |
| XLLJCEG3QS     |                |                                        |                |
| XLLQJEH3QS     |                |                                        |                |
| XLLJCGG4L      |                |                                        |                |
| XLLJCGG4LS     |                |                                        |                |

| Catalog Number | Conductor 2 | Conductor 2 Outer Diameter,<br>Nominal | Certifications |
|----------------|-------------|----------------------------------------|----------------|
| XLLQJEH4LS     |             |                                        |                |
| XLLQJGH4L      |             |                                        |                |
| XLLAD5AJH      |             |                                        |                |
| XLLAD5AJHS     |             |                                        |                |

## ADDITIONAL PRODUCT DETAILS

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

| XL-XX-X-XX-XX-L-M-W |                                  |                                                                                         |
|---------------------|----------------------------------|-----------------------------------------------------------------------------------------|
| XL                  | ERICO CADWELD EXOLON Designation |                                                                                         |
| XX                  | Mold Family                      |                                                                                         |
| X                   | Price Key                        |                                                                                         |
| XX                  | Lug/Busbar Size                  |                                                                                         |
| XX                  | Conductor 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](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.

#### North America

+1.800.753.9221

Option 1 – Customer Care

Option 2 – Technical

Support

#### Europe

Netherlands:

+31 800-0200135

France:

+33 800 901 793

#### Europe

Germany:

800 1890272

Other Countries:

+31 13 5835404

#### APAC

Shanghai:

+ 86 21 2412 1618/19

Sydney:

+61 2 9751 8500



Our powerful portfolio of brands:

**CADDY**

**ERICO**

**HOFFMAN**

**ILSCO**

**SCHROFF**

**TRACHTE**