

# nVent ERICO Cadweld Exolon, Cable to Steel

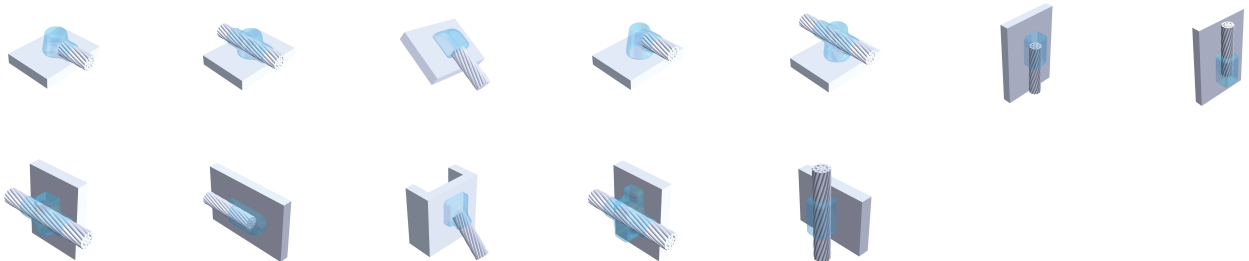


Developed in 1988, nVent ERICO Cadweld Exolon connections represented a significant advancement in welded electrical connections for sensitive indoor applications like data centers, hospitals, and other clean room environments. The virtual elimination of smoke and a unique electronic starting system 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

## SPECIFICATIONS

Table 1/2

| Catalog Number | Mold Family | Connects To                | Conductor Size | Conductor Outer Diameter, Nominal | Outer Diameter  | NB/DN    |
|----------------|-------------|----------------------------|----------------|-----------------------------------|-----------------|----------|
| XLVSC1H        | VS          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLVSC1HV3C     | VS          | Steel Pipe                 | #6 Concentric  | 4.67mm                            | 48.3 - 114.3 mm | 40 - 100 |
| XLVSP1H        | VS          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLVSP1HM       | VS          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLVTC1H        | VT          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLHAA1H        | HA          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLHCA1H        | HC          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLVBC1H        | VB          | Steel Pipe or Flat Surface | #6 Concentric  | 4.67mm                            | 609.6 mm Min    | 600 Min  |
| XLHCA1K        | HC          | Steel Pipe or Flat Surface | #4 Solid       | 5.18mm                            | 609.6 mm Min    | 600 Min  |
| XLHCA1K162C    | HC          | Steel Pipe                 | #4 Solid       | 5.18mm                            | 42.2 - 60.3 mm  | 32 - 50  |
| XLVFC1KV3C     | VF          | Steel Pipe                 | #4 Solid       | 5.18mm                            | 48.3 - 114.3 mm | 40 - 100 |
| XLVSC1KV3C     | VS          | Steel Pipe                 | #4 Solid       | 5.18mm                            | 48.3 - 114.3 mm | 40 - 100 |
| XLVSC1L        | VS          | Steel Pipe or Flat Surface | #4 Concentric  | 5.89mm                            | 609.6 mm Min    | 600 Min  |
| XLVSC1LV3C     | VS          | Steel Pipe                 | #4 Concentric  | 5.89mm                            | 48.3 - 114.3 mm | 40 - 100 |
| XLVTC1L        | VT          | Steel Pipe or Flat Surface | #4 Concentric  | 5.89mm                            | 609.6 mm Min    | 600 Min  |
| XLVVC1L        | VV          | Steel Pipe or Flat Surface | #4 Concentric  | 5.89mm                            | 609.6 mm Min    | 600 Min  |

| CatalogNumber | Mold Family | Connects To                | Conductor Size | Conductor OuterDiameter, Nominal | Outer Diameter   | NB/DN     |
|---------------|-------------|----------------------------|----------------|----------------------------------|------------------|-----------|
| XLHAA1L       | HA          | Steel Pipe or Flat Surface | #4 Concentric  | 5.89mm                           | 609.6 mm Min     | 600 Min   |
| XLHCA1L       | HC          | Steel Pipe or Flat Surface | #4 Concentric  | 5.89mm                           | 609.6 mm Min     | 600 Min   |
| XLHCA1L1.50   | HC          | Steel Pipe                 | #4 Concentric  | 5.89mm                           | 48.3 mm          | 40        |
| XLHCA1L2      | HC          | Steel Pipe                 | #4 Concentric  | 5.89mm                           | 60.3 mm          | 50        |
| XLVBC1L       | VB          | Steel Pipe or Flat Surface | #4 Concentric  | 5.89mm                           | 609.6 mm Min     | 600 Min   |
| XLHAA1T       | HA          | Steel Pipe or Flat Surface | #2 Solid       | 6.53mm                           | 609.6 mm Min     | 600 Min   |
| XLHAA1T162C   | HA          | Steel Pipe                 | #2 Solid       | 6.53mm                           | 42.2 - 60.3 mm   | 32 - 50   |
| XLVFC1T       | VF          | Steel Pipe or Flat Surface | #2 Solid       | 6.53mm                           | 609.6 mm Min     | 600 Min   |
| XLVFC1TV4     | VF          | Steel Pipe                 | #2 Solid       | 6.53mm                           | 114.3 mm         | 100       |
| XLVSC1TV3C    | VS          | Steel Pipe                 | #2 Solid       | 6.53mm                           | 48.3 - 114.3 mm  | 40 - 100  |
| XLVSC1TV5C    | VS          | Steel Pipe                 | #2 Solid       | 6.53mm                           | 114.3 - 168.3 mm | 100 - 150 |
| XLVSC1V       | VS          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |
| XLVSC1VV3C    | VS          | Steel Pipe                 | #2 Concentric  | 7.42mm                           | 48.3 - 114.3 mm  | 40 - 100  |
| XLVTC1V       | VT          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |
| XLHAA1V       | HA          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |
| XLHCA1V       | HC          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |
| XLHSC1V       | HS          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |
| XLVBC1V       | VB          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |

| CatalogNumber | Mold Family | Connects To                | Conductor Size | Conductor OuterDiameter, Nominal | Outer Diameter   | NB/DN     |
|---------------|-------------|----------------------------|----------------|----------------------------------|------------------|-----------|
| XLVFC1V       | VF          | Steel Pipe or Flat Surface | #2 Concentric  | 7.42mm                           | 609.6 mm Min     | 600 Min   |
| XLHSC2C       | HS          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVBC2C       | VB          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVFC2C       | VF          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVGC2C       | VG          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVSC2C       | VS          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVSC2CV3C    | VS          | Steel Pipe                 | 1/0 Concentric | 9.47mm                           | 60.3 - 114.3 mm  | 50 - 100  |
| XLVSC2CV8C    | VS          | Steel Pipe                 | 1/0 Concentric | 9.47mm                           | 158.8 - 273.1 mm | 150 - 250 |
| XLVVR2C       | VV          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVVR2CS      | VV          | Steel Pipe or Flat Surface | 1/0 Concentric | 9.47mm                           | 609.6 mm Min     | 600 Min   |
| XLVGC2G       | VG          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |
| XLVNC2GLH     | VN          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |
| XLVSC2G       | VS          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |
| XLVSC2GV3C    | VS          | Steel Pipe                 | 2/0 Concentric | 10.62mm                          | 42.2 - 101.6 mm  | 32 - 90   |
| XLVSC2GV5C    | VS          | Steel Pipe                 | 2/0 Concentric | 10.62mm                          | 114.3 - 168.3 mm | 100 - 150 |
| XLHFC2G       | HF          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |
| XLHSC2G       | HS          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |
| XLHTC2G       | HT          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |

| CatalogNumber | Mold Family | Connects To                | Conductor Size | Conductor OuterDiameter, Nominal | Outer Diameter   | NB/DN     |
|---------------|-------------|----------------------------|----------------|----------------------------------|------------------|-----------|
| XLVBC2G       | VB          | Steel Pipe or Flat Surface | 2/0 Concentric | 10.62mm                          | 609.6 mm Min     | 600 Min   |
| XLHSC2L       | HS          | Steel Pipe or Flat Surface | 3/0 Concentric | 11.94mm                          | 609.6 mm Min     | 600 Min   |
| XLHTC2L       | HT          | Steel Pipe or Flat Surface | 3/0 Concentric | 11.94mm                          | 609.6 mm Min     | 600 Min   |
| XLVSC2L       | VS          | Steel Pipe or Flat Surface | 3/0 Concentric | 11.94mm                          | 609.6 mm Min     | 600 Min   |
| XLVNC2QLH     | VN          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVNC2QRH     | VN          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVSC2Q       | VS          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVSC2QW      | VS          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVTC2Q       | VT          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVTC2QW      | VT          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVVR2Q       | VV          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLVVR2QS      | VV          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLHAH2Q20C    | HA          | Steel Pipe                 | 4/0 Concentric | 13.41mm                          | 323.9 - 609.6 mm | 300 - 600 |
| XLHAH2Q8C     | HA          | Steel Pipe                 | 4/0 Concentric | 13.41mm                          | 158.8 - 273.1 mm | 150 - 250 |
| XLHDVBC2QS    | VB          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLHSC2Q       | HS          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLHTC2Q       | HT          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |
| XLHTC2QW      | HT          | Steel Pipe or Flat Surface | 4/0 Concentric | 13.41mm                          | 609.6 mm Min     | 600 Min   |

| CatalogNumber | Mold Family | Connects To                | Conductor Size       | Conductor OuterDiameter, Nominal | Outer Diameter | NB/DN   |
|---------------|-------------|----------------------------|----------------------|----------------------------------|----------------|---------|
| XLVBC2Q       | VB          | Steel Pipe or Flat Surface | 4/0 Concentric       | 13.41mm                          | 609.6 mm Min   | 600 Min |
| XLVFR2Q       | VF          | Steel Pipe or Flat Surface | 4/0 Concentric       | 13.41mm                          | 609.6 mm Min   | 600 Min |
| XLVFR2QS      | VF          | Steel Pipe or Flat Surface | 4/0 Concentric       | 13.41mm                          | 609.6 mm Min   | 600 Min |
| XLVTC2V       | VT          | Steel Pipe or Flat Surface | 250 kcmil Concentric | 14.61mm                          | 609.6 mm Min   | 600 Min |
| XLVSC3D       | VS          | Steel Pipe or Flat Surface | 350 kcmil Concentric | 17.3mm                           | 609.6 mm Min   | 600 Min |
| XLVSC3DS      | VS          | Steel Pipe or Flat Surface | 350 kcmil Concentric | 17.3mm                           | 609.6 mm Min   | 600 Min |
| XLHSC3Q       | HS          | Steel Pipe or Flat Surface | 500 kcmil Concentric | 20.65mm                          | 609.6 mm Min   | 600 Min |
| XLHSC3QS      | HS          | Steel Pipe or Flat Surface | 500 kcmil Concentric | 20.65mm                          | 609.6 mm Min   | 600 Min |
| XLVBR3Q       | VB          | Steel Pipe or Flat Surface | 500 kcmil Concentric | 20.65mm                          | 609.6 mm Min   | 600 Min |
| XLVSC4L       | VS          | Steel Pipe or Flat Surface | 750 kcmil Concentric | 25.35mm                          | 609.6 mm Min   | 600 Min |

Table 2/2

| Catalog Number | Certifications |
|----------------|----------------|
| XLVSC1H        | cUL, UL        |
| XLVSC1HV3C     | UL, cUL        |
| XLVSP1H        |                |
| XLVSP1HM       |                |
| XLVTC1H        | cUL, UL        |
| XLHAA1H        | UL, cUL        |

| Catalog Number | Certifications |
|----------------|----------------|
| XLHCA1H        | cUL, UL        |
| XLVBC1H        | cUL, UL        |
| XLHCA1K        | UL, cUL        |
| XLHCA1K162C    | UL, cUL        |
| XLVFC1KV3C     |                |
| XLVSC1KV3C     | cUL, UL        |
| XLVSC1L        | cUL, UL        |
| XLVSC1LV3C     | UL, cUL        |
| XLVTC1L        | UL, cUL        |
| XLVVC1L        |                |
| XLHAA1L        | cUL, UL        |
| XLHCA1L        | cUL, UL        |
| XLHCA1L1.50    | UL, cUL        |
| XLHCA1L2       | UL, cUL        |
| XLVBC1L        | UL, cUL        |
| XLHAA1T        | UL, cUL        |
| XLHAA1T162C    | UL, cUL        |
| XLVFC1T        |                |

| Catalog Number | Certifications |
|----------------|----------------|
| XLVFC1TV4      |                |
| XLVSC1TV3C     | cUL, UL        |
| XLVSC1TV5C     | cUL, UL        |
| XLVSC1V        | UL, cUL        |
| XLVSC1VV3C     | cUL, UL        |
| XLVTC1V        | cUL, UL        |
| XLHAA1V        | cUL, UL        |
| XLHCA1V        | cUL, UL        |
| XLHSC1V        | UL, cUL        |
| XLVBC1V        | cUL, UL        |
| XLVFC1V        |                |
| XLHSC2C        | cUL, UL        |
| XLVBC2C        | cUL, UL        |
| XLVFC2C        |                |
| XLVGC2C        |                |
| XLVSC2C        | cUL, UL        |
| XLVSC2CV3C     | UL, cUL        |
| XLVSC2CV8C     | cUL, UL        |

| Catalog Number | Certifications |
|----------------|----------------|
| XLVVR2C        |                |
| XLVVR2CS       |                |
| XLVGC2G        |                |
| XLVNC2GLH      |                |
| XLVSC2G        | cUL, UL        |
| XLVSC2GV3C     | UL, cUL        |
| XLVSC2GV5C     | cUL, UL        |
| XLHFC2G        |                |
| XLHSC2G        | UL, cUL        |
| XLHTC2G        | cUL, UL        |
| XLVBC2G        | UL, cUL        |
| XLHSC2L        | UL, cUL        |
| XLHTC2L        | UL, cUL        |
| XLVSC2L        | cUL, UL        |
| XLVNC2QLH      |                |
| XLVNC2QRH      |                |
| XLVSC2Q        | UL, cUL        |
| XLVSC2QW       | cUL, UL        |

| Catalog Number | Certifications |
|----------------|----------------|
| XLVTC2Q        | cUL, UL        |
| XLVTC2QW       | UL, cUL        |
| XLVVR2Q        |                |
| XLVVR2QS       |                |
| XLHAH2Q20C     | UL, cUL        |
| XLHAH2Q8C      | UL, cUL        |
| XLHDVBC2QS     | cUL, UL        |
| XLHSC2Q        | cUL, UL        |
| XLHTC2Q        | cUL, UL        |
| XLHTC2QW       | cUL, UL        |
| XLVBC2Q        | cUL, UL        |
| XLVFR2Q        |                |
| XLVFR2QS       |                |
| XLVTC2V        | cUL, UL        |
| XLVSC3D        |                |
| XLVSC3DS       |                |
| XLHSC3Q        |                |
| XLHSC3QS       |                |

| Catalog Number | Certifications |
|----------------|----------------|
| XLVBR3Q        |                |
| XLVSC4L        |                |

## ADDITIONAL PRODUCT DETAILS

A test weld should be made to check for the possibility of burn through on thin sections and to determine detrimental metallurgical effects.

| W-XL-XX-X-XX-LH-XX-L-M |                                  |                                                                                                        |
|------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------|
| W*                     | Wear Plates                      | Reduce mechanical abrasion of molds at cable entry points                                              |
| XL                     | ERICO CADWELD EXOLON Designation |                                                                                                        |
| XX                     | Mold Family                      |                                                                                                        |
| X                      | Price Key                        |                                                                                                        |
| XX                     | Conductor Size                   |                                                                                                        |
| LH                     | Weld End                         | LH = Weld on left end of conductor<br>RH = Weld on right end of conductor<br>(For VN Mold Family only) |
| XX                     | Pipe Size                        |                                                                                                        |
| L*                     | Split Crucible                   | Crucible section is split on molds designed with horizontal opening for easier cleaning                |
| M*                     | Mold Only                        |                                                                                                        |

\* 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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