

# nVent ERICO Ericore Underminated Conductor



## FEATURES

Low-inductance, low-impedance cable designed to minimize voltage build-up due to lightning impulses

Multiple insulated layers of conductor reduce the potential of side flashing

Requires upper and lower termination kits

## SPECIFICATIONS

Table 1/3

| Catalog Number | Length (L) | Length | Capacitance |
|----------------|------------|--------|-------------|
| ERICORE001U    | 1m         | 1 m    | 0.75 nF     |
| ERICORE003U    | 3m         | 3 m    | 0.75 nF     |
| ERICORE011U    | 11m        | 11 m   | 0.75 nF     |
| ERICORE012U    | 12m        | 12 m   | 0.75 nF     |
| ERICORE015U    | 15m        | 15 m   | 0.75 nF     |
| ERICORE018U    | 18m        | 18 m   | 0.75 nF     |
| ERICORE019U    | 19m        | 19 m   | 0.75 nF     |

| Catalog Number | Length (L) | Length | Capacitance |
|----------------|------------|--------|-------------|
| ERICORE020U    | 20m        | 20 m   | 0.75 nF     |
| ERICORE022U    | 22m        | 22 m   | 0.75 nF     |
| ERICORE025U    | 25m        | 25 m   | 0.75 nF     |
| ERICORE035U    | 35m        | 35 m   | 0.75 nF     |
| ERICORE037U    | 37m        | 37 m   | 0.75 nF     |
| ERICORE040U    |            | 40 m   | 0.75 nF     |
| ERICORE046U    |            | 46 m   | 0.75 nF     |
| ERICORE047U    |            | 47 m   | 0.75 nF     |
| ERICORE050U    |            | 50 m   | 0.75 nF     |
| ERICORE051U    |            | 51 m   | 0.75 nF     |
| ERICORE052U    |            | 52 m   | 0.75 nF     |
| ERICORE055U    |            | 55 m   | 0.75 nF     |
| ERICORE060U    |            | 60 m   | 0.75 nF     |
| ERICORE070U    |            | 70 m   | 0.75 nF     |
| ERICORE073U    |            | 73 m   | 0.75 nF     |
| ERICORE075U    |            | 75 m   | 0.75 nF     |
| ERICORE085U    |            | 85 m   | 0.75 nF     |
| ERICORE095U    |            | 95 m   | 0.75 nF     |

| Catalog Number | Length (L) | Length | Capacitance |
|----------------|------------|--------|-------------|
| ERICORE1000U   | 1000m      | 1000 m | 0.75 nF     |
| ERICORE100U    | 100m       | 100 m  | 0.75 nF     |
| ERICORE107U    | 107m       | 107 m  | 0.75 nF     |
| ERICORE110U    | 110m       | 110 m  | 0.75 nF     |
| ERICORE125U    | 125m       | 125 m  | 0.75 nF     |
| ERICORE130U    | 130m       | 130 m  | 0.75 nF     |
| ERICORE138U    | 138m       | 138 m  | 0.75 nF     |
| ERICORE140U    | 140m       | 140 m  | 0.75 nF     |
| ERICORE1500U   | 1500m      | 1500 m | 0.75 nF     |
| ERICORE150U    | 150m       | 150 m  | 0.75 nF     |
| ERICORE152U    | 152m       | 152 m  | 0.75 nF     |
| ERICORE160U    | 160m       | 160 m  | 0.75 nF     |
| ERICORE180U    | 180m       | 180 m  | 0.75 nF     |
| ERICORE185U    | 185m       | 185 m  | 0.75 nF     |
| ERICORE191U    | 191m       | 191 m  | 0.75 nF     |
| ERICORE200U    | 200m       | 200 m  | 0.75 nF     |
| ERICORE203U    | 203m       | 203 m  | 0.75 nF     |
| ERICORE250U    | 250m       | 250 m  | 0.75 nF     |

| Catalog Number | Length (L) | Length | Capacitance |
|----------------|------------|--------|-------------|
| ERICORE264U    | 264m       | 264 m  | 0.75 nF     |
| ERICORE275U    | 275m       | 275 m  | 0.75 nF     |
| ERICORE285U    | 285m       | 285 m  | 0.75 nF     |
| ERICORE300U    | 300m       | 300 m  | 0.75 nF     |
| ERICORE340U    | 340m       | 340 mm | 0.75 nF     |
| ERICORE375U    |            | 375 m  | 0.75 nF     |
| ERICORE400U    |            | 400 m  | 0.75 nF     |
| ERICORE500U    |            | 500 m  | 0.75 nF     |
| ERICORE600U    |            | 600 m  | 0.75 nF     |

| Table 2/3      |                   |              |           |            |                  |                   |
|----------------|-------------------|--------------|-----------|------------|------------------|-------------------|
| Catalog Number | Cross Section     | Diameter (Ø) | Impedance | Inductance | Resistance (Rdc) | Resistance (Rimp) |
| ERICORE001U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE003U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE011U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE012U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE015U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE018U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE019U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE020U    | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |

| CatalogNumber | Cross Section     | Diameter (Ø) | Impedance | Inductance | Resistance (Rdc) | Resistance (Rimp) |
|---------------|-------------------|--------------|-----------|------------|------------------|-------------------|
| ERICORE022U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE025U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE035U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE037U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE040U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE046U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE047U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE050U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE051U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE052U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE055U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE060U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE070U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE073U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE075U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE085U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE095U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE1000U  | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |

| CatalogNumber | Cross Section     | Diameter (Ø) | Impedance | Inductance | Resistance (Rdc) | Resistance (Rimp) |
|---------------|-------------------|--------------|-----------|------------|------------------|-------------------|
| ERICORE100U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE107U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE110U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE125U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE130U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE138U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE140U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE1500U  | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE150U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE152U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE160U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE180U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE185U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE191U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE200U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE203U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE250U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE264U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |

| CatalogNumber | Cross Section     | Diameter (Ø) | Impedance | Inductance | Resistance (Rdc) | Resistance (Rimp) |
|---------------|-------------------|--------------|-----------|------------|------------------|-------------------|
| ERICORE275U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE285U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE300U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE340U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE375U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE400U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE500U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |
| ERICORE600U   | 50mm <sup>2</sup> | 36 mm        | 12 Ω Max  | 37nH       | 0.5mΩ·m          | 6mΩ·m             |

Table 3/3

| Catalog Number | Unit Weight |
|----------------|-------------|
| ERICORE001U    | 1.18 kg     |
| ERICORE003U    | 3.54 kg     |
| ERICORE011U    | 12.98 kg    |
| ERICORE012U    | 14.16 kg    |
| ERICORE015U    | 17.7 kg     |
| ERICORE018U    | 21.24 kg    |
| ERICORE019U    | 22.42 kg    |
| ERICORE020U    | 23.6 kg     |
| ERICORE022U    | 25.96 kg    |

| Catalog Number | Unit Weight |
|----------------|-------------|
| ERICORE025U    | 29.5 kg     |
| ERICORE035U    | 41.3 kg     |
| ERICORE037U    | 43.66 kg    |
| ERICORE040U    | 47.2 kg     |
| ERICORE046U    | 54.28 kg    |
| ERICORE047U    | 55.46 kg    |
| ERICORE050U    | 59 kg       |
| ERICORE051U    | 60.18 kg    |
| ERICORE052U    | 61.36 kg    |
| ERICORE055U    | 64.9 kg     |
| ERICORE060U    | 70.8 kg     |
| ERICORE070U    | 82.6 kg     |
| ERICORE073U    | 86.14 kg    |
| ERICORE075U    | 88.5 kg     |
| ERICORE085U    | 100.3 kg    |
| ERICORE095U    | 112.1 kg    |
| ERICORE1000U   | 1180 kg     |
| ERICORE100U    | 118 kg      |

| Catalog Number | Unit Weight |
|----------------|-------------|
| ERICORE107U    | 126.26 kg   |
| ERICORE110U    | 129.8 kg    |
| ERICORE125U    | 147.5 kg    |
| ERICORE130U    | 153.4 kg    |
| ERICORE138U    | 162.84 kg   |
| ERICORE140U    | 165.2 kg    |
| ERICORE1500U   | 1770 kg     |
| ERICORE150U    | 177 kg      |
| ERICORE152U    | 179.36 kg   |
| ERICORE160U    | 188.8 kg    |
| ERICORE180U    | 212.4 kg    |
| ERICORE185U    | 218.3 kg    |
| ERICORE191U    | 225.38 kg   |
| ERICORE200U    | 236 kg      |
| ERICORE203U    | 239.54 kg   |
| ERICORE250U    | 295 kg      |
| ERICORE264U    | 311.52 kg   |
| ERICORE275U    | 324.5 kg    |

| Catalog Number | Unit Weight |
|----------------|-------------|
| ERICORE285U    | 336.3 kg    |
| ERICORE300U    | 354 kg      |
| ERICORE340U    | 401.2 kg    |
| ERICORE375U    | 442.5 kg    |
| ERICORE400U    | 472 kg      |
| ERICORE500U    | 590 kg      |
| ERICORE600U    | 708 kg      |

## ADDITIONAL PRODUCT DETAILS

Consult nVent ERICO technical support or the installation manual for guidance on maximum allowable lengths.

Inductance and Capacitance are per meter.

## DIAGRAMS



## 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**