



# DURAGROUND™ CU 600V XLPE Insulation. RHH/RHW-2/RW90 UL & CSA

Single Copper Conductors, XLPE Insulation, Sunlight Resistant, 600V, 90°C MAX, -40°C MIN, Gasoline & Oil Resistant



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type RW90

## APPLICATIONS AND FEATURES:

Suitable for installation in Cable Trays and Underground Duct Banks - As per CE Code limitations (see Rule 12-2202) for grounding and bonding applications.

## SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA SUN RES - for Sunlight Resistant rating
- CT USE Sizes 1/0 AWG and Larger
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- RoHS-2 (European Directive 2011/65/EU)

## SAMPLE PRINT LEGEND:

E30117 {UL} XXXX KCMIL CU RHH-RHW-2 600V FOR CT USE FT4 SR PR I OR PR II 90°C WET OR DRY -40°C --- {CSA}  
LL90458 XXXX KCMIL (XXX mm<sup>2</sup>) RW90 600V FT4 SR -40°C XLPE --- RoHS {MMM/DD/YYYY}





**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size    | Strand | Insul. Thickness | Insulation Color | Approx. OD | Approx. Weight | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity In Raceway 90°C† |
|--------------|---------------|--------|------------------|------------------|------------|----------------|--------------------|------------------|----------------------|----------------------|----------------------------|-------------------------------------|
|              | AWG/<br>Kcmil | No.    | mil              |                  | inch       | lb/1000ft      | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| TBA          | 8             | 7      | 60               | Black            | 0.261      | 69             | 1.0                | 132              | 0.653                | 0.786                | 0.052                      | 55                                  |
| 649033       | 6             | 7      | 60               | Black            | 0.300      | 108            | 1.2                | 209              | 0.411                | 0.495                | 0.051                      | 75                                  |
| TBA          | 4             | 7      | 60               | Black            | 0.345      | 155            | 1.3                | 333              | 0.258                | 0.310                | 0.048                      | 95                                  |
| 649039       | 2             | 7      | 60               | Black            | 0.403      | 245            | 1.6                | 530              | 0.162                | 0.195                | 0.045                      | 130                                 |
| TBA          | 1/0           | 19     | 80               | Black            | 0.521      | 382            | 2.0                | 844              | 0.102                | 0.122                | 0.044                      | 170                                 |
| 649041       | 2/0           | 19     | 80               | Black            | 0.574      | 487            | 2.2                | 1064             | 0.081                | 0.097                | 0.043                      | 195                                 |
| TBA          | 3/0           | 19     | 80               | Black            | 0.616      | 588            | 2.4                | 1342             | 0.064                | 0.078                | 0.042                      | 225                                 |
| 649043       | 4/0           | 19     | 80               | Black            | 0.666      | 745            | 2.6                | 1692             | 0.051                | 0.062                | 0.041                      | 260                                 |
| TBA          | 250           | 37     | 95               | Black            | 0.748      | 872            | 2.9                | 2000             | 0.043                | 0.053                | 0.041                      | 290                                 |
| 649054       | 350           | 37     | 95               | Black            | 0.841      | 1218           | 3.3                | 2800             | 0.031                | 0.039                | 0.040                      | 350                                 |
| 649056       | 500           | 37     | 95               | Black            | 0.966      | 1705           | 3.8                | 4000             | 0.022                | 0.029                | 0.039                      | 430                                 |
| 649058       | 750           | 61     | 110              | Black            | 1.200      | 2549           | 6.0                | 6000             | 0.014                | 0.022                | 0.038                      | 535                                 |
| 649060       | 1000          | 61     | 110              | Black            | 1.349      | 3354           | 6.7                | 8000             | 0.011                | 0.018                | 0.037                      | 615                                 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

†Ampacities derived from the 2015 Canadian Electrical Code - Table 1 - For single conductor in free air and based on an ambient temperature of 30°C. - Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a conduit and based on an ambient temperature of 30°C.

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

**Table 2 – Weights and Measurements (Metric)**

| Stock Number | Cond. Size    | Strand | Insul. Thickness | Insulation Color | Approx. OD | Approx. Weight | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity In Raceway 90°C |
|--------------|---------------|--------|------------------|------------------|------------|----------------|--------------------|------------------|----------------------|----------------------|----------------------------|------------------------------------|
|              | AWG/<br>Kcmil | No.    | mm               |                  | mm         | kg/km          | mm                 | newton           | Ω/km                 | Ω/km                 | Ω/km                       | Amp                                |
| TBA          | 8             | 7      | 1.52             | Black            | 6.63       | 103            | 25.40              | 587              | 2.14                 | 2.58                 | 0.1706                     | 55                                 |
| 649033       | 6             | 7      | 1.52             | Black            | 7.62       | 161            | 30.48              | 930              | 1.35                 | 1.62                 | 0.1673                     | 75                                 |
| TBA          | 4             | 7      | 1.52             | Black            | 8.76       | 231            | 33.02              | 1482             | 0.85                 | 1.02                 | 0.1575                     | 95                                 |
| 649039       | 2             | 7      | 1.52             | Black            | 10.24      | 365            | 40.64              | 2359             | 0.53                 | 0.64                 | 0.1476                     | 130                                |
| TBA          | 1/0           | 19     | 2.03             | Black            | 13.23      | 568            | 50.80              | 3756             | 0.33                 | 0.40                 | 0.1444                     | 170                                |
| 649041       | 2/0           | 19     | 2.03             | Black            | 14.58      | 725            | 55.88              | 4735             | 0.27                 | 0.32                 | 0.1411                     | 195                                |
| TBA          | 3/0           | 19     | 2.03             | Black            | 15.65      | 875            | 60.96              | 5972             | 0.21                 | 0.26                 | 0.1378                     | 225                                |
| 649043       | 4/0           | 19     | 2.03             | Black            | 16.92      | 1109           | 66.04              | 7529             | 0.17                 | 0.20                 | 0.1345                     | 260                                |
| TBA          | 250           | 37     | 2.41             | Black            | 19.00      | 1298           | 73.66              | 8900             | 0.14                 | 0.17                 | 0.1345                     | 290                                |
| 649054       | 350           | 37     | 2.41             | Black            | 21.36      | 1813           | 83.82              | 12460            | 0.10                 | 0.13                 | 0.1312                     | 350                                |
| 649056       | 500           | 37     | 2.41             | Black            | 24.54      | 2537           | 96.52              | 17800            | 0.07                 | 0.10                 | 0.1280                     | 430                                |
| 649058       | 750           | 61     | 2.79             | Black            | 30.48      | 3793           | 152.40             | 26700            | 0.05                 | 0.07                 | 0.1247                     | 535                                |
| 649060       | 1000          | 61     | 2.79             | Black            | 34.26      | 4991           | 170.18             | 35600            | 0.04                 | 0.06                 | 0.1214                     | 615                                |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item





†Ampacities derived from the 2015 Canadian Electrical Code - Table 1 - For single conductor in free air and based on an ambient temperature of 30°C. - Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a conduit and based on an ambient temperature of 30°C.

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