

DURAGROUND™ CU 1000V XLPE RHH/RHW-2/RW90 UL & CSA FT4 Tray Rated Ground Cable

Single Copper Conductors, XLPE Insulation, Sunlight Resistant, 1000V, 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 1000V FOR CT USE FT4 SR PR I OR PR II 90°C WET OR DRY -40°C --- {CSA}
LL90458 XXXX KCMIL (XXX{mm²}) RW90 1000V TC 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/ Kcmil | No. | mil | | inch | lb/1000ft | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp |
| TBA | 8 | 7 | 60 | Green | 0.261 | 69 | 1.0 | 132 | 0.653 | 0.786 | 0.052 | 55 |
| TBA | 6 | 7 | 60 | Green | 0.300 | 108 | 1.2 | 209 | 0.411 | 0.495 | 0.051 | 75 |
| TBA | 4 | 7 | 60 | Green | 0.345 | 155 | 1.3 | 333 | 0.258 | 0.310 | 0.048 | 95 |
| 649040 | 2 | 7 | 60 | Green | 0.403 | 245 | 1.6 | 530 | 0.162 | 0.195 | 0.045 | 130 |
| TBA | 1/0 | 19 | 80 | Green | 0.521 | 382 | 2.0 | 844 | 0.102 | 0.122 | 0.044 | 170 |
| 649042 | 2/0 | 19 | 80 | Green | 0.572 | 486 | 2.2 | 1064 | 0.081 | 0.097 | 0.043 | 195 |
| TBA | 3/0 | 19 | 80 | Green | 0.616 | 588 | 2.4 | 1342 | 0.064 | 0.078 | 0.042 | 225 |
| 649044 | 4/0 | 19 | 80 | Green | 0.666 | 743 | 2.6 | 1692 | 0.051 | 0.062 | 0.041 | 260 |
| TBA | 250 | 37 | 95 | Green | 0.748 | 872 | 2.9 | 2000 | 0.043 | 0.053 | 0.041 | 290 |
| 649055 | 350 | 37 | 95 | Green | 0.841 | 1216 | 3.3 | 2800 | 0.031 | 0.039 | 0.040 | 350 |
| 649057 | 500 | 37 | 95 | Green | 0.966 | 1702 | 3.8 | 4000 | 0.022 | 0.029 | 0.039 | 430 |
| 649059 | 750 | 61 | 110 | Green | 1.200 | 2544 | 6.0 | 6000 | 0.014 | 0.022 | 0.038 | 535 |
| 649062 | 1000 | 61 | 110 | Green | 1.349 | 3349 | 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/ Kcmil | No. | mm | | mm | kg/km | mm | newton | Ω/km | Ω/km | Ω/km | Amp |
| TBA | 8 | 7 | 1.52 | Green | 6.63 | 103 | 25.40 | 587 | 2.14 | 2.58 | 0.1706 | 55 |
| TBA | 6 | 7 | 1.52 | Green | 7.62 | 161 | 30.48 | 930 | 1.35 | 1.62 | 0.1673 | 75 |
| TBA | 4 | 7 | 1.52 | Green | 8.76 | 231 | 33.02 | 1482 | 0.85 | 1.02 | 0.1575 | 95 |
| 649040 | 2 | 7 | 1.52 | Green | 10.24 | 365 | 40.64 | 2359 | 0.53 | 0.64 | 0.1476 | 130 |
| TBA | 1/0 | 19 | 2.03 | Green | 13.23 | 568 | 50.80 | 3756 | 0.33 | 0.40 | 0.1444 | 170 |
| 649042 | 2/0 | 19 | 2.03 | Green | 14.53 | 723 | 55.88 | 4735 | 0.27 | 0.32 | 0.1411 | 195 |
| TBA | 3/0 | 19 | 2.03 | Green | 15.65 | 875 | 60.96 | 5972 | 0.21 | 0.26 | 0.1378 | 225 |
| 649044 | 4/0 | 19 | 2.03 | Green | 16.92 | 1106 | 66.04 | 7529 | 0.17 | 0.20 | 0.1345 | 260 |
| TBA | 250 | 37 | 2.41 | Green | 19.00 | 1298 | 73.66 | 8900 | 0.14 | 0.17 | 0.1345 | 290 |
| 649055 | 350 | 37 | 2.41 | Green | 21.36 | 1810 | 83.82 | 12460 | 0.10 | 0.13 | 0.1312 | 350 |
| 649057 | 500 | 37 | 2.41 | Green | 24.54 | 2533 | 96.52 | 17800 | 0.07 | 0.10 | 0.1280 | 430 |
| 649059 | 750 | 61 | 2.79 | Green | 30.48 | 3786 | 152.40 | 26700 | 0.05 | 0.07 | 0.1247 | 535 |
| 649062 | 1000 | 61 | 2.79 | Green | 34.26 | 4984 | 170.18 | 35600 | 0.04 | 0.06 | 0.1214 | 615 |

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