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

Single Copper Conductors, XLPE Insulation, Sunlight Resistant, 600V, 90ºC MAX, -40ºC Min for Cold Bend and Impact Rating, Gasoline & Oil Resistant

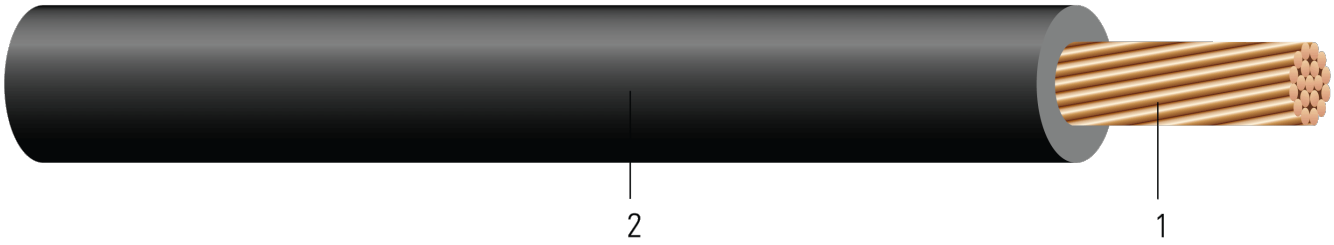



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

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

## APPLICATIONS AND FEATURES:

Suitable for installation in Cable Trays, Underground Duct Banks - As per CE Code limitations (see Rule 12-2202) for grounding and bonding applications. Standard colour is black. Some sizes may be availabe in white, red, blue, yellow, brown, orange or grey. -40ºC min for cold bend and impact rating. Green Duraground™ also available.

## SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- CSA C22.2 No.230 Tray Cables - Rated TC-ER (1/0 AWG and Larger)
- CSA C22.2 No. 2556 & No. 0.3 Wire and Cable Test Methods
- CSA SUN RES - for Sunlight Resistant rating
- CSA ST1 Smoke Test - marked FT4-ST1 (1/0 and Larger)
- Oil Res I & Sun Res

## SAMPLE PRINT LEGEND:

SOUTHWIRE E30117 {UL} XX AWG CU RHH-RHW-2 600V FOR CT USE FT4 SR PR I OR PR II 90°C WET OR DRY -40°C --- {CSA} LL90458 XX AWG (XX.Xmm2) RW90 600V FT4 SR -40°C XLPE --- RoHS {MM/DD/YYYY}

### Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Cond. Number | 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 |
| 649048◊ | 750 | 1 | 61 | 110 | BK | 1.2 | 2550 | 6 | 6000 | 0.014 | 0.019 | 0.038 | 535 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item



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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.
- 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 | Cond. Number | 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 |
| 649048◊ | 750 | 1 | 61 | 2.79 | BK | 30.48 | 3795 | 152.40 | 26700 | 0.05 | 0.06 | 0.1247 | 535 |

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.
- 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.

## Stock Codes and Colors

| Size | Black | White | Red | Blue | Yellow | Brown | Orange | Grey |
|---|---|---|---|---|---|---|---|---|
| 1/0 | 649139 | 649132 | 649134 | 649136 | TBA | TBA | TBA | TBA |
| 2/0 | 649088 | 649081 | 649083 | 649085 | TBA | TBA | TBA | TBA |
| 3/0 | 649148 | 649141 | 649143 | 649146 | TBA | TBA | TBA | TBA |
| 4/0 | 649097 | 649090 | 649092 | 649094 | TBA | TBA | TBA | TBA |
| 250Kcmil | TBA | TBA | TBA | TBA | TBA | TBA | TBA | TBA |
| 350Kcmil | 649107 | 649109 | 649102 | 649105 | TBA | TBA | TBA | TBA |
| 500Kcmil | 649045 | 649110 | 649113 | 649115 | TBA | TBA | TBA | TBA |
| 750Kcmil | 649048 | 649117 | 649119 | 649121 | TBA | TBA | TBA | TBA |
| 1000Kcmil | 649130 | 649123 | 649125 | 649127 | TBA | TBA | TBA | TBA |

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