



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

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



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- 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 available in white, red, blue, yellow, brown, orange or grey. -40°C 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 - AWG 8 & Larger

### 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/<br>Kcmil |              | No.    | mil              |                  | inch       | lb/<br>1000ft  | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 649090◇      | 4/0           | 1            | 19     | 80               | WE               | 0.666      | 745            | 2.6                | 1692             | 0.051                | 0.062                | 0.041                      | 260                                 |

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.

**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                                |
| 649090◇      | 4/0        | 1            | 19     | 2.03             | WE               | 16.92      | 1109           | 66.04              | 7529             | 0.17                 | 0.20                 | 0.1345                     | 260                                |

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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.

## 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  |

◇ Cable marked with this symbol is a standard stock item

