

# **DURATRAY™ CU 1000V XLPE Insulation. RHH/RHW-2/RW90 UL & CSA**

Single Copper Conductors, XLPE Insulation, Sunlight Resistant, 1000V, 90°C MAX, -40°C MIN, Gasoline & Oil Resistant

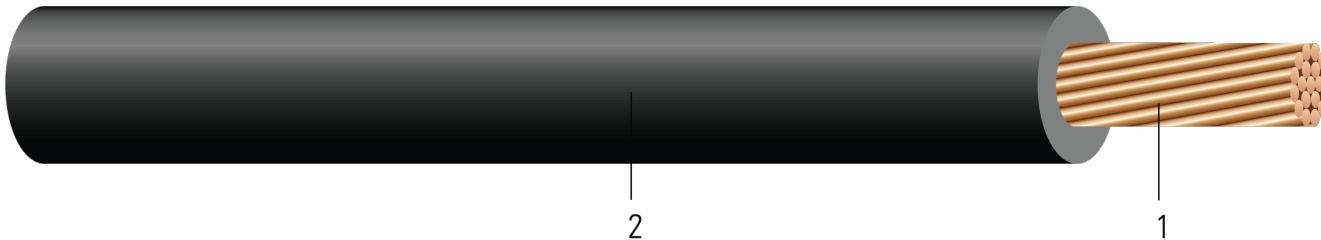


Image not to scale. See Table 1 for dimensions.

## **CONSTRUCTION:**

- 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. Standard colour is black. Some sizes may be available in white, red, blue, yellow, brown, orange or grey. 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 LTGG [-40°C] - as per C68.10 - for Cold Bend and Impact rating
- 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:**

{SQFTG} E30117 MASTER-DESIGN {UL} XXX AWG CU RHH-RHW-2 1000V FOR CT USE FT4 SR PR I OR PR II 90{D}C WET OR DRY -40{D}C --- {CSA} LL90458 4/0 AWG (107{MM2}) RW90 1000V TC FT4 SR -40{D}C XLPE --- RoHS

**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                                 |
| 694140       | 1/0           | 1            | 19     | 80               | Black            | 0.528      | 394            | 2.1                | 844              | 0.102                | 0.122                | 0.044                      | 170                                 |

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 | 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                                |
| 694140       | 1/0        | 1            | 19     | 2.03             | Black            | 13.41      | 586            | 53.34              | 3756             | 0.33                 | 0.40                 | 0.1444                     | 170                                |

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.

### Stock Codes and Colors

| Cond. Size (Strand) | Stock Number (Color) |        |        |        |      |        |       |        |      |
|---------------------|----------------------|--------|--------|--------|------|--------|-------|--------|------|
|                     | Size                 | BLACK  | WHITE  | RED    | BLUE | YELLOW | BROWN | ORANGE | GREY |
| 1/0                 | 694140               | 649133 | 649135 | 649138 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 2/0                 | 649089               | 649082 | 649084 | 649086 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 3/0                 | 649149               | 649142 | 649144 | 649147 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 4/0                 | 649098               | 649091 | 649093 | 649096 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 250Kcmil            | TBA                  | TBA    | TBA    | TBA    | TBA  | TBA    | TBA   | TBA    | TBA  |
| 350Kcmil            | 649108               | 649101 | 649104 | 649106 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 500Kcmil            | 649047               | 649112 | 649114 | 649116 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 750Kcmil            | 649049               | 649118 | 649120 | 649122 | TBA  | TBA    | TBA   | TBA    | TBA  |
| 1000Kcmil           | 649131               | 649124 | 649126 | 649128 | TBA  | TBA    | TBA   | TBA    | TBA  |

◊ Cable marked with this symbol is a standard stock item

