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

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

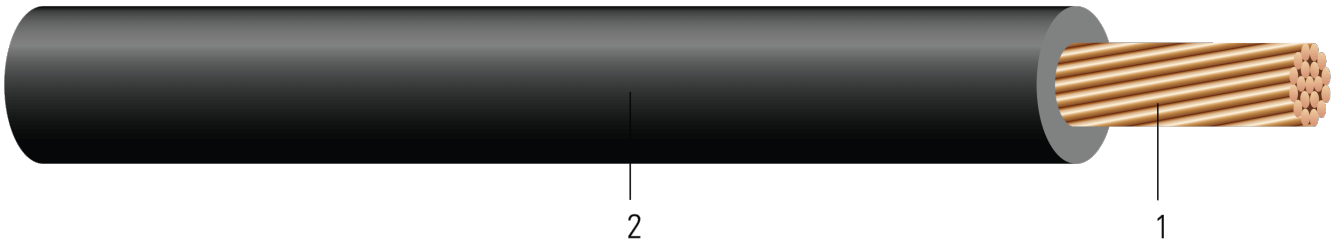



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

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

## 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 availabe 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

## 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

| 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 |
| 8 | 1 | 7 | 60 | Black | 0.141 | 50 | 0.5 | 132 | 0.653 | 0.786 | 0.052 | 55 |

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. - 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)

| 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 |
| 8 | 1 | 7 | 1.52 | Black | 3.58 | 74 | 12.70 | 587 | 2.14 | 2.58 | 0.1706 | 55 |

All dimensions are nominal and subject to normal manufacturing tolerances
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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. - 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 |
| 2/0 | 649089 | 649082 | 649084 | 649086 | TBA | TBA | TBA | TBA |
| 3/0 | 649149 | 649142 | 649144 | 649147 | TBA | TBA | TBA | TBA |
| 4/0 | 649098 | 649091 | 649093 | 649096 | TBA | TBA | TBA | TBA |
| 250Kcmil | TBA | TBA | TBA | TBA | TBA | TBA | TBA | TBA |
| 350Kcmil | 649108 | 649101 | 649104 | 649106 | TBA | TBA | TBA | TBA |
| 500Kcmil | 649047 | 649112 | 649114 | 649116 | TBA | TBA | TBA | TBA |
| 750Kcmil | 649049 | 649118 | 649120 | 649122 | TBA | TBA | TBA | TBA |
| 1000Kcmil | 649131 | 649124 | 649126 | 649128 | TBA | TBA | TBA | TBA |

◊ Cable marked with this symbol is a standard stock item


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