



## CU 1000V LSZH Solononplus™ Insulation. RW90

Single Copper Conductors, LSZH Insulation Solononplus™, 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:** Low Smoke Zero Halogen Solononplus™ (XLPO)

### 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. 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
- CSA C22.2 No. 2556 / UL 2556 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
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (500kcmil & Larger)
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways

### SAMPLE PRINT LEGEND:

SOUTHWIRE SOLONONplus{TM} LSZH XLPO 156205 {CSA} XXX KCMIL (XXX{mm<sup>2</sup>}) CU RW90 1000V VW-1 HAL-FREE TC PRI PRII GRI GRII -40°C SR FT4 ST-1

**Table 1 – Weights and Measurements**

| Cond. Size | Strand | Insul. Thickness | 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                                 |
| 4          | 7      | 60               | 0.345      | 155            | 1.3                | 333              | 0.258                | 0.310                | 0.048                      | 95                                  |





All dimensions are nominal and subject to normal manufacturing tolerances  
 ◇ Cable marked with this symbol is a standard stock item

**Table 2 – Weights and Measurements (Metric)**

| Cond. Size | Strand | Insul. Thickness | 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                                |
| 4          | 7      | 1.52             | 8.76       | 231            | 33.02              | 1482             | 0.85                 | 1.02                 | 0.1575                     | 95                                 |

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 ◇ Cable marked with this symbol is a standard stock item

