

CU 1000V LSZH Insulation. RW90

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

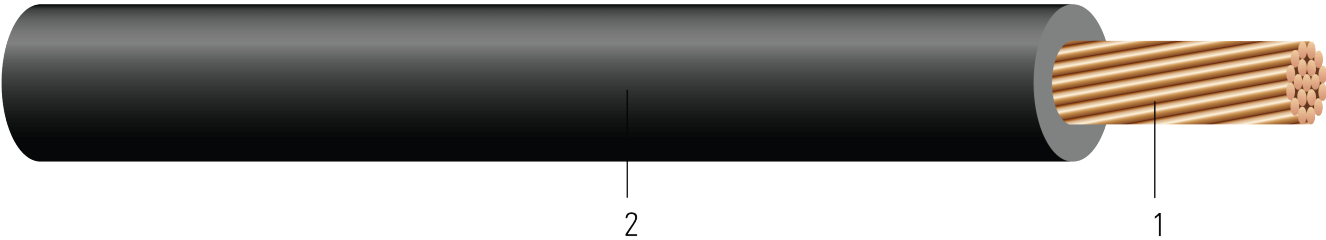


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Low Smoke Zero Halogen Solonon® (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{mm2}) CU RW90 1000V VW-1 HAL-FREE TC
PRI PRII GRI GRII -40°C SR FT4 ST-1

Table 1 – Weights and Measurements

| Stock Number | 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 |
| 664475 | 500 | 37 | 90 | 0.956 | 1716 | 3.8 | 4000 | 0.022 | 0.029 | 0.039 | 430 |

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)

| Stock Number | 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 |
| 664475 | 500 | 37 | 2.29 | 24.28 | 2554 | 96.52 | 17800 | 0.07 | 0.10 | 0.1280 | 430 |

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

