# CU 1000V LSZH Solononplus™ Insulation. RW90

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

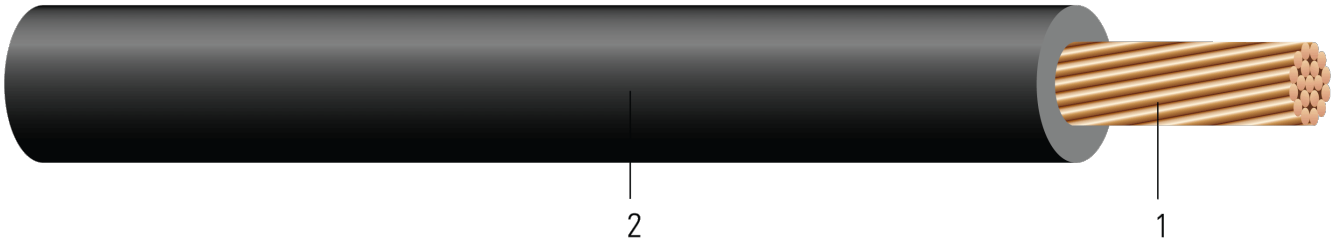



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** 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 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
- 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 (2 AWG and Larger)
- Oil Res I & Sun Res
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (2 AWG and larger)
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways (non-emergency circuits only)

## 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

| Cond. Size | Cond. Number | Strand | Insul. Thickness | Insulation Color | Approx. OD | Approx. Weight | Min Bending Radius | 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 | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp |
| 14 | 1 | 7 | 45 | BK | 0.161 | 22 | 0.6 | 2.631 | 3.265 | 0.058 | 25 |



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All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
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 | 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 | Ω/km | Ω/km | Ω/km | Amp |
| 14 | 1 | 7 | 1.14 | BK | 4.09 | 33 | 15.24 | 8.63 | 10.71 | 0.1903 | 25 |

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


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