



Romex[®] Control & Signal Cable

Class 2 Cable for Low-Voltage Power-Limited Lighting Control and Dimming. 150 Volts. Copper Conductors. SIMpull[®] Jacket Designed for Easier Pulling.

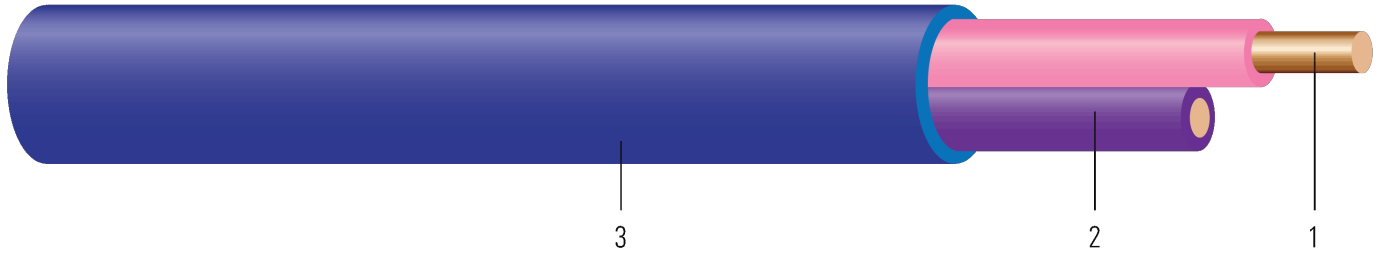


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Solid copper per ASTM B3
- Insulation:** All phases are insulated with Polyvinyl Chloride (PVC)
- Jacket:** Polyvinyl Chloride (PVC) jacket utilizing SIMpull[®] Technology. Colored light: Blue

APPLICATIONS AND FEATURES:

ROMEX[®] SIMpull[®] Low-Voltage Control & Signal Cable is a class 2 power-limited circuit cable for use in lighting control and dimming applications. Rated for 150 volts per NEC Article 725. Temperature range is -20°C to +60°C. Sunlight Resistant

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- UL 13 Power-Limited Circuit Cables
- UL 2556 Standard for Safety Wire and Cable Test Methods

SAMPLE PRINT LEGEND:

SOUTHWIRE{R} 16 AWG CU 2/C E57497 (UL) TYPE CL2

Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Conductor Number | Diameter Over Conductor | Conductor Stranding | Insulation Thickness | Approx. OD | Copper Weight | Overall Weight |
|----------------|---------------|------------------|-------------------------|---------------------|----------------------|------------------|---------------|----------------|
| | AWG/ Kcmil | | inch | | mils | inch | lbs/1000ft | lbs/1000ft |
| 16 AWG Solid | | | | | | | | |
| 643505 | 16 | 2 | 0.050 | Solid | 6 | 0.106 X 0.186 | 16 | 22 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item





Table 2 – Electrical and Engineering Data

| Cond. Size | Conductor Number | Min. Bend Radius | DC Resistance at 25°C | AC Resistance at 75°C | Inductive Reactance @ 60Hz | Allowable Ampacity Raceway 75°C | Allowable Ampacity Raceway 90°C |
|----------------|------------------|------------------|-----------------------|-----------------------|----------------------------|---------------------------------|---------------------------------|
| AWG/ Kcmil | | Inches | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp | Amp |
| 16 AWG Solid | | | | | | | |
| 16 | 2 | 0.7 | 4.181 | 5.037 | 0.033 | - | 18 |

* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

