



1/C CU 2000V EPR LSZH Exciter Cable

Single Conductor 2KV Flexible Class I Copper Ethylene Propylene Rubber Insulation Solonon[®] Low Smoke Zero Halogen (LSZH) Jacket



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible rope lay stranded annealed copper class I
2. **Tape:** Binder tape for ease of insulation removal
3. **Insulation:** Heat, moisture, and ozone resistant Ethylene Propylene Rubber(EPR)
4. **Jacket:** Solonon[®] Low Smoke Zero Halogen (LSZH) Thermoset Jacket

APPLICATIONS AND FEATURES:

Southwire 2000V EPR/ Solonon[®] Exciter Cable is suited for use in mass transit and general industry applications where flexibility, fire resistance, and low smoke generation are a concern. May be installed in wet or dry locations in cable trays or raceways. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions. Resistance to moisture and most oils, acids, and alkalis with an overall durable LSZH XLPO Thermoset Solonon[®] jacket. Alternate constructions available upon request.

SPECIFICATIONS:

- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors

SAMPLE PRINT LEGEND:

SOUTHWIRE[®] XXX SIZE STRANDED NON-SHIELDED 90°C DRY EPR/CPE SEQUENTIAL MARKS NON-UL

Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Strand Count | Diameter Over Conductor | Insul. Thickness | Jacket Thickness | Approx. OD | Copper Weight | Approx. Weight | Jacket Color |
|--------------|------------|----------------|-------------------------|------------------|------------------|------------|---------------|----------------|--------------|
| | AWG/ Kcmil | No. of Strands | inch | mil | mil | inch | lb/1000ft | lb/1000ft | |
| 550581 | 1550 | 3843 | 1.596 | 150 | 115 | 2.132 | 4851 | 5761 | BK |

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 – Electrical and Engineering Data

| | | | | | |
|--------|------|------|-------|-------|-------|
| 550581 | 1550 | 12.7 | 0.008 | 0.012 | 0.035 |
|--------|------|------|-------|-------|-------|





† 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.

† Ampacities have been adjusted for more than Three Current-Carrying Conductors.

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

