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
	AWG/Kcmil	No. of Strands	inch	mil	mil	inch	lb/1000ft	lb/1000ft
550581	1550	3843	1.596	150	115	2.132	4851	5761

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

Stock Number	Cond. Size	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz
	AWG/Kcmil	inch	Ω/1000ft	Ω/1000ft	Ω/1000ft
550581	1550	12.7	0.0078	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

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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.