CU 2400V NL-EPR Thermoset SOLONON LSZH-TS TRACTION POWER CABLE. MV 90

Traction Power Cable 2400 Volt Single Conductor Copper, No Lead Ethylene Propylene Rubber (NL-EPR) insulation Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8 (tinned copper per ASTM B33 optional)
2. **Conductor Shield:** Semi-conducting cross-linked copolymer
3. **Insulation:** No Lead Ethylene Propylene Rubber (NL-EPR)
4. **Overall Jacket:** Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS)

APPLICATIONS AND FEATURES:

Southwire 2400V No Lead NL-EPR/SOLONON Traction Power 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 jacket. Meets Flame Spread and Smoke Release requirements of NFPA 130. Rated for 1000 lb/ft maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 1072 Medium-Voltage Power Cables
- ICEA S-96-659 (NEMA WC 71) 2001-5000 V Nonshielded Cables
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (1/0 AWG and larger)
- AREMA 10.3.13 Recommended Design Criteria for Low-Smoke Halogen Free (LSHF) Polymeric Cable Jackets

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE® EXXXXX {UL} XXX AWG/KCMIL CU XXX MILS NL-EPR 2400V NONSHIELDED MV-90 OIL RES I/II SUN RES -40°C FT4-ST1 {NESC}

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Max Pull Tension
	AWG/kcmil	No. of Strands	inch	mil	mil	inch	lb/1000ft	lb
138994	1/0	19	0.361	125	80	0.826	568	845
138995	2/0	19	0.405	125	80	0.871	671	1065
138996	3/0	19	0.456	125	95	0.955	830	1342
138997	4/0	19	0.512	125	95	0.995	978	1693
138998	250	37	0.558	140	110	1.112	1179	2000
138999	350	37	0.661	140	110	1.207	1531	2800
139000	500	37	0.789	140	110	1.322	2039	4000
139001	750	61	0.968	155	125	1.611	3038	6000
139002	1000	61	1.117	155	125	1.761	3893	8000

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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