# 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}

### Table 1 – Physical and Electrical Data

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 138995 | 2/0 | B | 19 | 133100 | 1 | 0.405 | 125 | 0.708 | 80 | BK | 0.884 | 702 | 0.082 | 0.112 | 1065 |

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



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