CU Compressed 2.4kV EPR Insulation LSZH-TS Jacket. MV 90

Type MV-90 Single Conductor Copper, Ethylene Propylene Rubber (EPR) Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket. Silicone Free



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:** Ethylene Propylene Rubber (EPR)
4. **Overall Jacket:** Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS)

APPLICATIONS AND FEATURES:

Southwire's 2.4kV cables are suited for use in wet and dry areas, conduits, ducts, troughs, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload, and 250°C for short circuit conditions. Rated at -25°C for cold bend. Rated for 1000 lb/ft maximum sidewall pressure. Silicone Free.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL 1072 Medium-Voltage Power Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- ICEA S-96-659 (NEMA WC 71) 2001-5000 V Nonshielded Cables
- CT USE Sizes 1/0 AWG and Larger
- Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661
- AREMA 10.3.13 Recommended Design Criteria for Low-Smoke Halogen Free (LSHF) Polymeric Cable Jackets

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE® POWER CABLE {UL} XXX AWG CU XXX MILS EPR/SOLONON XL JKT 2400V NONSHIELDED MV-90 WET/DRY ST1 OIL RES II FOR CT USE MAXIMUM 2400 VOLTS

Table 1 – Weights and Measurements

958546^	2	7	0.282	0.57	125	80	0.741	204	426	530	5.9	2.5

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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* Conduit size based on 3 phase 40% fill-factor without ground
^ 2 AWG: non "LS" rated
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

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Zero Sequence Impedance	Positive Sequence Impedance	Allowable Ampacity In Duct 90°C	Allowable Ampacity In Air 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
2	0.162	0.204	0.0434	0.186 + j0.023	0.193 + j0.032	145	190

***** NEC ampacities are based on:
For Duct: Table 310.60(C)(11) Detail 1
For Free Air: Table 310.60(C)(3)
***** Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

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