Multi-Conductor Tinned CU Unshielded Signal Cable 1000V

Multi-Conductor Unshielded Signal cables 1000 Volt Single Conductor Tinned Copper, Ethylene Propylene Rubber (EPR) insulation Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket.

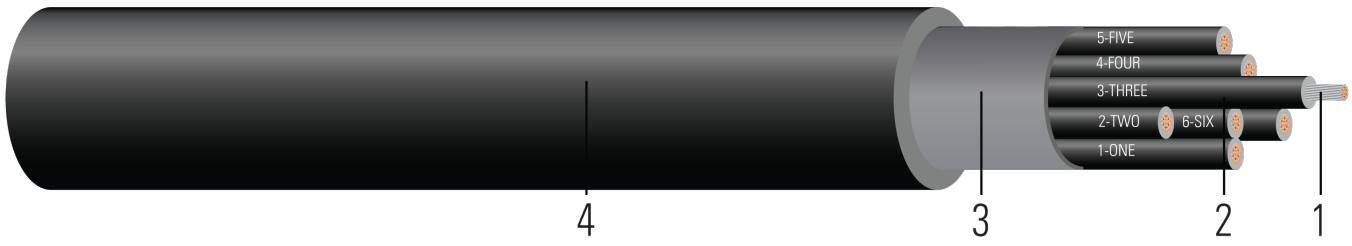

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Stranded tinned copper per ASTM B33 and ASTM B8
2. **Insulation:** Ethylene Propylene Rubber (EPR)
3. **Separator:** Silicone polymer
4. **Overall Jacket:** Black, Thermoset, SOLONON® Low Smoke Zero Halogen (LSZH-TS)

APPLICATIONS AND FEATURES:

Southwire's Railroad Signal cables 1000 Volt conform to requirements in AREMA Signal Manual Part 10.3.16 and are suited for use in air or non-plenum ducts.

SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ICEA S-73-532 Control, Thermocouple Extension, and Instrumentation Cables (applicable to sizes 20-9 AWG conductors)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

SOUTHWIRE XX AWG X/C EPR CDRS 90C SOLONON® JKT 1000V SUN. RES. {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Strand Class	Strand Count	Cond. Cmil	Cond. Number	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Jacket Color	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C
	AWG/ kcmil		No. of Strands	cmil	No.	inch	mil	mil		inch	lb/1000ft	Ω/1000ft	Ω/1000ft
457588	14	C	19	4110	3	0.073	80	80	BK	0.707	222	2.736	3.396
457590	14	C	19	4110	5	0.073	80	80	BK	0.837	317	2.736	3.396
457572	14	C	19	4110	7	0.073	80	95	BK	0.942	433	2.736	3.396
457592	12	C	19	6530	3	0.09	80	80	BK	0.742	258	1.729	2.146
457594	9	C	19	13090	3	0.131	80	80	BK	0.821	350	0.858	1.065
457596	9	C	19	13090	4	0.131	80	95	BK	0.928	466	0.858	1.065
457598	9	C	19	13090	8	0.131	80	95	BK	1.193	809	0.858	1.065
TBA	6	C	19	26240	2	0.179	95	95	BK	0.926	442	0.427	0.53
457600	6	C	19	26240	3	0.179	95	95	BK	1.035	593	0.427	0.53
TBA	6	C	19	26240	7	0.179	95	95	BK	1.294	1094	0.427	0.53

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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