Multi-Conductor CU 1000 V FR-XLPE Shielded Thermoset LSZH Jacket Control Cable Color Method 1 Table 1

Control Cable 1000 Volt Copper Conductors, Flame Retardant Cross Linked Polyethylene (FR-XLPE) Insulation Shielded Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket, Control Cable Conductor Identification Method 1 Table 1. Silicone Free



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** 7 strands class B compressed bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Flame Retardant Cross Linked Polyethylene (FR-XLPE)
3. **Filler:** Polypropylene filler
4. **Binder:** Polypropylene tape
5. **Shielding:** 5 mil copper Helically-Applied Tape shield
6. **Rip Cord:** Rip cord for ease of jacket removal
7. **Overall Jacket:** Thermoset SOLONON® Low Smoke Zero Halogen (LSZH-TS) Jacket

APPLICATIONS AND FEATURES:

Southwire's 1000 Volt control cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, 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 in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 1
- 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 FR-XLPE CDRS SHIELDED 90C LSZH JACKET SUNLIGHT RESISTANT DIRECT BURIAL 1000V {MMM/DD/YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Rectance	Min Bending Radius	Allowable Ampacity 75°C	Allowable Ampacity 90°C	Jacket Color
	AWG	No.	strands	inch	mil	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp	
14 AWG																
TBA	14	5	7	0.071	30	45	0.45	123	182	2.631	3.265	0.058	3.2	16	20	BK
621894	14	7	7	0.071	45	60	0.641	126	274	2.631	3.265	0.058	4.5	14	18	BK
621892	14	12	7	0.071	45	80	0.879	210	473	2.631	3.265	0.058	6.2	10	12	BK
12 AWG																
660941†	12	4	7	0.089	30	60	0.488	121	194	1.662	2.063	0.054	3.4	20	24	BK
626177!	12	4	7	0.089	45	60	0.592	115	234	1.662	2.063	0.054	4.1	20	24	BK
626172!	12	7	7	0.089	45	60	0.699	182	350	1.662	2.063	0.054	4.9	18	21	BK
660930	12	12	7	0.089	30	80	0.787	298	482	1.662	2.063	0.054	5.5	12	15	BK
626166!	12	12	7	0.089	45	80	0.954	310	605	1.662	2.063	0.054	6.7	12	15	BK
10 AWG																
TBA	10	4	7	0.113	30	45	0.515	195	262	1.04	1.291	0.05	3.6	28	32	BK
621899†	10	4	7	0.113	30	60	0.578	162	275	1.04	1.291	0.05	4	28	32	BK
621885	10	3	7	0.113	45	60	0.598	131	252	1.04	1.291	0.05	4.2	35	40	BK
626152!	10	4	7	0.113	45	60	0.645	172	308	1.04	1.291	0.05	4.5	28	32	BK
621887	10	7	7	0.113	45	80	0.771	271	466	1.04	1.291	0.05	5.4	24	28	BK
621883	10	10	7	0.113	45	80	1.02	382	688	1.04	1.291	0.05	7.1	18	20	BK
623760	10	12	7	0.113	45	80	1.054	448	791	1.04	1.291	0.05	7.4	18	20	BK
8 AWG																
TBA	8	3	7	0.142	45	60	0.627	233	338	0.653	0.81	0.052	4.4	50	55	BK
TBA	8	4	7	0.142	45	60	0.687	292	418	0.653	0.81	0.052	4.8	40	44	BK
6 AWG																
TBA	6	3	7	0.178	45	60	0.705	333	454	0.411	0.51	0.051	4.9	65	75	BK
624410	6	4	7	0.178	55	80	0.902	385	662	0.411	0.51	0.051	6.3	52	60	BK
4 AWG																
TBA	4	3	7	0.225	45	60	0.806	494	638	0.258	0.32	0.048	5.6	85	95	BK
2 AWG																
TBA	2	3	7	0.283	45	80	0.972	741	945	0.162	0.201	0.045	6.8	115	130	BK
624409	2	2	7	0.283	55	80	0.978	469	703	0.162	0.201	0.045	6.8	115	130	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
!Drain wire
† Rated 600 Volts
* 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 310.15 and 110.14(C) for additional requirements. Ampacities have been adjusted for stock numbers containing more than Three Current-Carrying Conductors.
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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