

CU 600 V FR-XLPE Shielded Thermoplastic CPE-TP Jacket Power Cable Color Method 1 Table 2

Power Cable 600 or 1000 Volt Three Conductor Copper, Fire Retardant Cross-Linked Polyethylene (FR-XLPE) insulation Shielded Thermoplastic Chlorinated Polyethylene (CPE-TP) Jacket Conductor Identification Method 1 Table 2

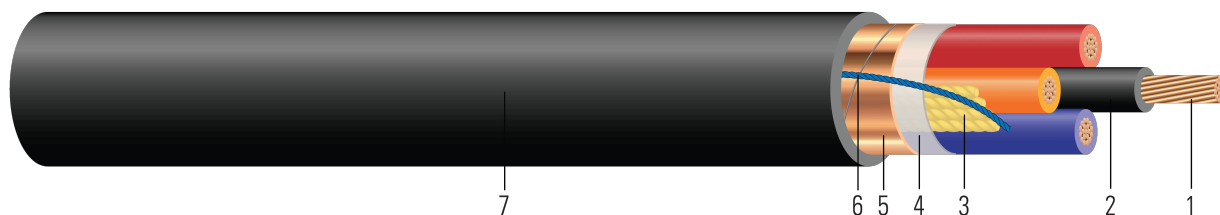


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Fire Retardant Cross Linked Polyethylene (FR-XLPE)
3. **Filler:** Paper or Polypropylene filler
4. **Binder:** Polyester flat thread binder tape
5. **Shield:** 5 mils tape shield
6. **Rip Cord:** Rip cord for ease of jacket removal
7. **Overall Jacket:** Thermoplastic Chlorinated Polyethylene (CPE-TP) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 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 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ICEA S-73-532 Standard for Control, Thermocouple Extension and Instrumentation Cables
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

SOUTHWIRE MASTER-DESIGN XX AWG XX/C FR-XLPE CDRS 90C COPPER SHIELDED CPE JKT 600V SUN. RES. DIRECT BURIAL YEAR {SEQUENTIAL FOOTAGE MARKS} SEQ FEET



Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Diameter Over Insulation	Jacket Thickness	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 90°C	Min Bending Radius	Allowable Ampacity At 60°C *	Allowable Ampacity 75°C *	Allowable Ampacity 90°C *
	AWG	No.	strands	inch	mil	inch	mil	inch	lb /1000ft	Ω /1000ft	Ω /1000ft	inch	Amp	Amp	Amp
TBA	8	2	7	0.139	45	0.229	60	0.59	206	0.652	0.815	7.1	40	50	55
TBA	8	3	7	0.139	45	0.229	60	0.615	275	0.652	0.815	7.4	40	50	55
TBA	8	4	7	0.139	45	0.229	60	0.673	347	0.652	0.815	8.1	32	40	44
603609	8	12	19	0.143	45	0.233	80	1.157	1069	0.652	0.815	13.9	20	25	27
TBA	6	2	7	0.174	45	0.264	60	0.661	285	0.411	0.514	7.9	55	65	75
TBA	6	3	7	0.174	45	0.264	60	0.691	394	0.411	0.514	8.3	55	65	75
TBA	6	4	7	0.174	45	0.264	60	0.795	570	0.411	0.514	9.5	44	52	60
TBA	6	4	7	0.174	45	0.264	80	0.839	582	0.411	0.514	10.1	44	52	60
TBA	4	2	7	0.221	45	0.311	60	0.753	409	0.258	0.323	9	70	85	95
TBA	4	3	7	0.221	45	0.311	60	0.791	557	0.258	0.323	9.5	70	85	95
TBA	4	4	7	0.221	45	0.311	80	0.938	826	0.258	0.323	11.3	56	68	76
TBA	2	2	7	0.277	45	0.367	80	0.907	630	0.162	0.203	10.9	95	115	130
TBA	2	3	7	0.277	45	0.367	80	0.953	861	0.162	0.203	11.4	95	115	130
TBA	2	4	7	0.277	45	0.367	80	1.047	1109	0.162	0.203	12.6	76	92	104
TBA	1	2	19	0.321	55	0.431	80	1.036	789	0.129	0.161	12.4	110	130	145
TBA	1	3	19	0.321	55	0.431	80	1.091	1079	0.129	0.162	13.1	110	130	145
TBA	1	4	19	0.321	55	0.431	80	1.200	1392	0.129	0.161	14.4	88	104	116
TBA	1/0	2	19	0.36	55	0.47	80	1.116	956	0.102	0.128	13.4	125	150	150
TBA	1/0	3	19	0.360	55	0.470	80	1.175	1317	0.102	0.128	14.1	125	150	170
TBA	1/0	4	19	0.360	55	0.470	80	1.295	1704	0.102	0.128	15.5	100	120	136
TBA	2/0	2	19	0.404	55	0.515	80	1.202	1162	0.081	0.101	14.4	145	175	195
TBA	2/0	3	19	0.404	55	0.514	80	1.270	1613	0.081	0.102	15.2	145	175	195
TBA	2/0	4	19	0.404	55	0.514	80	1.401	2093	0.081	0.101	16.8	116	140	156
TBA	3/0	2	19	0.454	55	0.564	80	1.304	1422	0.064	0.08	15.7	165	200	225
TBA	3/0	3	19	0.454	55	0.564	80	1.378	1986	0.064	0.081	16.5	165	200	225
TBA	3/0	4	19	0.454	55	0.564	80	1.521	2582	0.064	0.080	18.3	132	160	180
TBA	4/0	2	19	0.51	55	0.62	80	1.416	1744	0.051	0.064	17	195	230	260
TBA	4/0	3	19	0.510	55	0.620	80	1.499	2449	0.051	0.064	18	195	230	260
TBA	4/0	4	19	0.510	55	0.620	80	1.657	3191	0.051	0.064	20	156	184	208

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

