CU 600/1000V XLPE Insulation PVC Jacket XHHW-2. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

Type TC-ER Power Cable 600 or 1000 Volt Four Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Polyvinyl Chloride (PVC) Jacket with 1 Bare CU Ground. Silicone Free. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

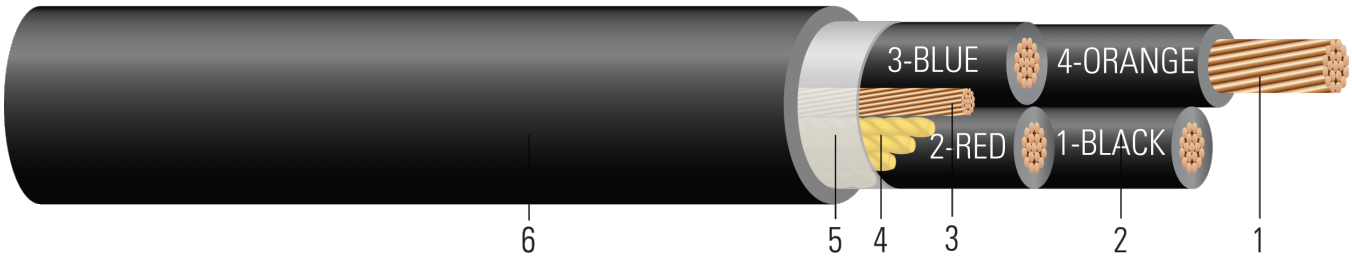

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Grounding Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8 (cable size 8 & 6 has insulated green ground)
4. **Filler:** Paper filler (cable size 8 & 6 uses Polypropylene filler)
5. **Binder:** Polyester flat thread binder tape for cable sizes larger than 2 AWG
6. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 or 1000 Volt Type TC-ER power 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. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. Constructions with 3 or more conductors are listed for exposed runs (TC-ER) per NEC 336.10. Sunlight Resistant - For Direct Burial - Silicone Free

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1277 Electrical Power and Control Tray Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE, 4-ORANGE)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE® {UL} XXX KCMIL (XXX{mm2}) CU 4/C TYPE TC-ER XHHW-2 CDRS GW 1 X X AWG CU 90°C JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V or 1000V {NOM}-ANCE {YYYY}

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Ground	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil		No. of Strands	inch	mil	No. x AWG	mil	inch	lb/1000ft	lb/1000ft	
557009	8	4	7	0.142	45	1 x 10	60	0.755	238	404	BK
560102	6	4	7	0.178	45	1 x 8	80	0.902	379	613	BK
556993	4	4	7	0.225	45	1 x 8	80	0.938	572	812	BK
554303	2	4	7	0.283	45	1 x 6	80	1.047	910	1171	BK
602011	1	4	19	0.322	55	1 x 6	80	1.229	1126	1481	BK
554436	1/0	4	19	0.362	55	1 x 6	80	1.328	1399	1770	BK
556985	2/0	4	19	0.405	55	1 x 6	80	1.43	1742	2138	BK
602037	3/0	4	19	0.456	55	1 x 4	80	1.55	2223	2671	BK
554444	4/0	4	19	0.512	55	1 x 4	110	1.717	2770	3367	BK
602052	250	4	37	0.558	65	1 x 4	110	1.866	3249	3935	BK
602078	350	4	37	0.661	65	1 x 3	110	2.105	4530	5314	BK
675713	350	4	37	0.661	65	1 x 1	110	2.105	4627	5431	BK
675711	500	4	37	0.789	65	1 x 2/0	110	2.407	6652	7640	BK
554469	500	4	37	0.789	65	1 x 2	110	2.407	6444	7324	BK
672235	500	4	37	0.789	65	1 x 1	110	2.407	6498	7540	BK
672237	500	4	37	0.789	65	1 x 1/0	110	2.407	6566	7555	BK
672240	500	4	37	0.789	65	1 x 4/0	110	2.537	6897	7912	BK
675706	600	4	61	0.866	80	1 x 1/0	140	2.723	7813	9129	BK
665772	600	4	61	0.866	80	1 x 350	145	2.859	8576	9942	BK
675708	600	4	61	0.866	80	1 x 250	140	2.868	8264	9618	BK
649649	600	4	61	0.866	80	1 x 4/0	140	2.868	8144	9499	BK
675715	750	4	61	0.968	80	1 x 1/0	140	3.032	9684	11224	BK
570961	750	4	61	0.968	80	1 x 1	140	3.032	9616	11156	BK

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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Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
557009	8	4	3	528	0.653	0.81	0.052	40	44
560102	6	4	3.6	839	0.411	0.51	0.051	52	60
556993	4	4	3.8	1335	0.258	0.32	0.048	68	76
554303	2	4	5.2	2123	0.162	0.201	0.045	92	104
602011	1	4	6.1	2678	0.128	0.159	0.046	104	116
554436	1/0	4	6.6	3379	0.102	0.127	0.044	120	136
556985	2/0	4	7.2	4259	0.082	0.102	0.043	140	156
602037	3/0	4	7.8	5369	0.064	0.079	0.042	160	180
554444	4/0	4	8.6	6771	0.051	0.063	0.041	184	208
602052	250	4	9.3	8000	0.043	0.053	0.041	204	232
602078	350	4	12.6	11200	0.031	0.039	0.04	248	280
675713	350	4	12.6	11200	0.031	0.039	0.04	248	280
675711	500	4	14.4	16000	0.021	0.027	0.039	304	344
554469	500	4	14.4	16000	0.021	0.027	0.039	304	344
672235	500	4	14.4	16000	0.021	0.027	0.039	304	344
672237	500	4	14.4	16000	0.021	0.027	0.039	304	344
672240	500	4	15.2	16000	0.021	0.027	0.039	304	344
675706	600	4	16.3	19200	0.018	0.024	0.039	336	380
665772	600	4	17.2	19200	0.018	0.024	0.039	336	380
675708	600	4	17.2	19200	0.018	0.024	0.039	336	380
649649	600	4	17.2	19200	0.018	0.024	0.039	336	380
675715	750	4	18.2	24000	0.014	0.019	0.038	380	428
570961	750	4	18.2	24000	0.014	0.019	0.038	380	428

* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.
* Ampacities have been adjusted for more than Three Current-Carrying Conductors.

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