CU 2000V EPR Insulation Thermoset CPE-TS Jacket. RHH/RHW-2

Power Cable 2000 Volt Single Conductor Copper, Ethylene Propylene Rubber (EPR) insulation RHH/RHW-2 Thermoset Chlorinated Polyethylene (CPE-TS) Jacket

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare or tinned copper per ASTM B3, ASTM B8, ASTM B33
2. **Binder Tape:** Mylar Tape
3. **Insulation:** Ethylene Propylene Rubber (EPR) Type RHH/RHW-2
4. **Overall Jacket:** Cross-linked/Thermoset Chlorinated Polyethylene (CPE-TS) Jacket

APPLICATIONS AND FEATURES:

Southwire's 2000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, 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.

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 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- CT USE Sizes 1/0 AWG and Larger

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE {UL} XXXX KCMIL CU TYPE RHH OR RHW-2 XX MILS EPR XX MILS THERMOSET CPE FOR CT USE SUN RESISTANT 2000 VOLT CABLE

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Min. Avg. Insul. Thickness	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/ Kcmil		No. of Strands	inch	mil	mil	inch	lb/1000ft	lb/1000ft
TBA	14	0	7	0.070	45	15	0.190	12	24
TBA	12	1	7	0.088	45	15	0.208	20	34
TBA	10	1	7	0.113	45	15	0.233	32	48
TBA	8	1	7	0.141	55	30	0.311	50	81
457178	6	1	7	0.178	55	30	0.364	81	126
TBA	1	1	19	0.322	65	45	0.542	258	335
TBA	1/0	1	19	0.361	65	45	0.581	325	409
TBA	2/0	1	19	0.405	65	45	0.625	410	502
TBA	3/0	1	19	0.456	65	45	0.676	518	619
138544^	4/0	1	19	0.512	65	45	0.748	653	788
TBA	250	1	37	0.558	75	65	0.838	771	930
TBA	350	1	37	0.661	75	65	0.941	1081	1264
679291	500	0	37	0.789	75	65	1.089	1543	1799
TBA	600	1	61	0.865	90	65	1.175	1853	2111
TBA	750	1	61	0.968	90	65	1.278	2316	2600
TBA	800	1	61	1.000	90	65	1.310	2470	2763
641560	1000	1	61	1.117	90	65	1.449	3087	3471
TBA	2000	1	127	1.583	115	95	2.003	6175	6791

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
^ Tinned Copper Conductor
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

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
TBA	14	0	0.7	33	2.631	3.170	0.058	20	25
TBA	12	1	0.8	52	1.662	2.002	0.054	25	30
TBA	10	1	0.9	83	1.040	1.253	0.050	35	40
TBA	8	1	1.2	132	0.653	0.786	0.052	50	55
457178	6	1	1.5	209	0.411	0.495	0.051	65	75
TBA	1	1	2.2	669	0.128	0.154	0.046	130	145
TBA	1/0	1	2.3	844	0.102	0.122	0.044	150	170
TBA	2/0	1	2.5	1064	0.081	0.097	0.043	175	195
TBA	3/0	1	2.7	1342	0.064	0.078	0.042	200	225
138544^	4/0	1	2.9	1692	0.051	0.062	0.041	230	260
TBA	250	1	3.3	2000	0.043	0.053	0.041	255	290
TBA	350	1	3.7	2800	0.031	0.039	0.040	310	350
679291	500	0	5.4	4000	0.022	0.029	0.039	380	430
TBA	600	1	5.8	4800	0.018	0.025	0.039	420	475
TBA	750	1	6.3	6000	0.014	0.022	0.038	475	535
TBA	800	1	6.5	6400	0.013	0.021	0.028	490	555
641560	1000	1	7.2	8000	0.011	0.018	0.037	545	615
TBA	2000	1	12.0	10000	0.005	0.016	0.027	665	750

* Ampacities based upon 2023 NEC Table 310.16. See NEC sections 310.15 and 110.14(C) for additional requirements.
* Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.