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	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	7	0.070	45	15	0.190	12	24
TBA	12	7	0.088	45	15	0.208	20	34
TBA	10	7	0.113	45	15	0.233	32	48
TBA	8	7	0.141	55	30	0.311	50	81
TBA	1/0	19	0.361	65	45	0.581	325	409
TBA	2/0	19	0.405	65	45	0.625	410	502
TBA	3/0	19	0.456	65	45	0.676	518	619
138544^	4/0	19	0.512	65	45	0.748	653	788
TBA	250	37	0.558	75	65	0.838	771	930
TBA	350	37	0.661	75	65	0.941	1081	1264
679291	500	37	0.789	75	65	1.089	1543	1799
TBA	600	61	0.865	90	65	1.175	1853	2111
TBA	750	61	0.968	90	65	1.278	2316	2600
TBA	800	61	1.000	90	65	1.310	2470	2763
641560	1000	61	1.117	90	65	1.449	3087	3471
TBA	2000	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

Table 2 – Electrical and Engineering Data

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