CU 2000V XLPE Insulation. RHH/RHW-2 USE-2

Power Cable 2000 Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) Insulation RHH/RHW-2 USE-2

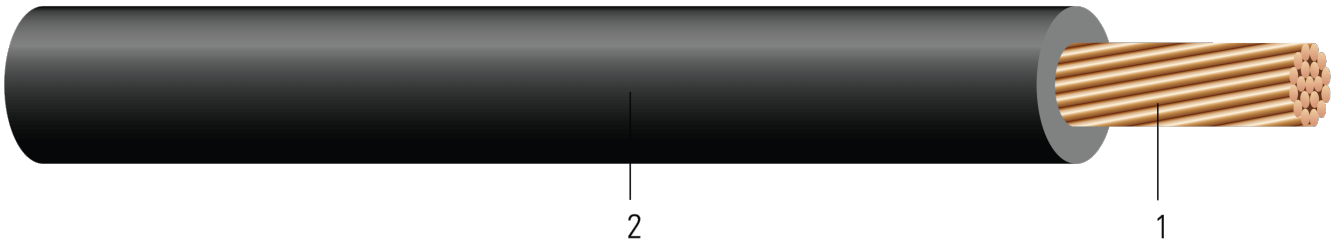

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type RHH/RHW-2

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.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 854 Service Entrance Cable
- 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

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 {UL} XXX AWG or KCMIL (XXX{mm2}) CU TYPE USE-2 OR RHH OR RHW-2 XX MILS XLP FOR CT USE SUN. RES. VW-1 2000 VOLTS {NOM}-ANCE

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil		No. of Strands	inch	mil	inch	lb/1000ft	lb/1000ft
TBA	8	0	7	0.141	70	0.281	50	74
TBA	6	1	7	0.177	70	0.317	81	109
TBA	4	1	7	0.225	70	0.365	128	161
TBA	2	1	7	0.282	70	0.422	204	244
TBA	1	1	19	0.322	90	0.502	258	318
TBA	1/0	1	19	0.361	90	0.541	325	391
TBA	2/0	1	19	0.405	90	0.585	410	482
TBA	3/0	1	19	0.456	90	0.636	518	598
TBA	4/0	1	19	0.512	90	0.692	653	741
TBA	250	1	37	0.558	105	0.768	771	884
TBA	300	1	37	0.609	105	0.820	926	1048
TBA	350	1	37	0.661	105	0.871	1081	1212
568018	500	1	37	0.789	105	0.986	1543	1748
TBA	600	1	61	0.865	120	1.105	1853	2046
648750	750	1	61	0.968	120	1.220	2315	2569
TBA	1000	1	61	1.117	120	1.357	3088	3330

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.

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	8	0	1.1	132	0.653	0.786	0.052	50	55
TBA	6	1	1.2	209	0.411	0.495	0.051	65	75
TBA	4	1	1.4	333	0.258	0.310	0.048	85	95
TBA	2	1	1.6	530	0.162	0.195	0.045	115	130
TBA	1	1	2.0	669	0.128	0.154	0.046	130	145
TBA	1/0	1	2.1	844	0.102	0.122	0.044	150	170
TBA	2/0	1	2.3	1064	0.081	0.097	0.043	175	195
TBA	3/0	1	2.5	1342	0.064	0.078	0.042	200	225
TBA	4/0	1	2.7	1692	0.051	0.062	0.041	230	260
TBA	250	1	3.0	2000	0.043	0.053	0.041	255	290
TBA	300	1	3.3	2400	0.031	0.039	0.040	285	320
TBA	350	1	3.4	2800	0.031	0.039	0.040	310	350
568018	500	1	3.9	4000	0.022	0.029	0.039	380	430
TBA	600	1	5.5	4800	0.018	0.025	0.039	420	475
648750	750	1	6.1	6000	0.014	0.022	0.038	475	535
TBA	1000	1	6.7	8000	0.011	0.018	0.037	545	615

* 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.