CU 2000V XLPE Insulation. RHH/RHW-2

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

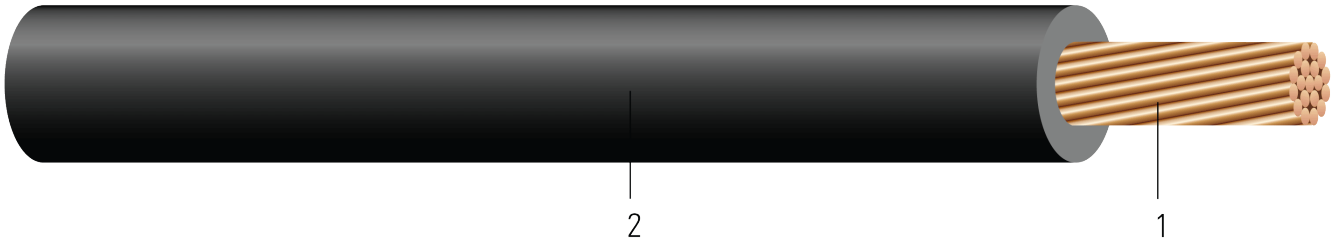

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** 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 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control Cable Conductor Identification Method 4
- 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 KCMIL (XXX{mm2}) CU TYPE RHH OR RHW-2 120 MILS XLP FOR CT USE SUN. RES. VW-1 2000 VOLTS {NOM}-ANCE

Table 1 – Weights and Measurements

Stock Number	Cond. Size	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	7	0.141	70	0.281	50	74
TBA	6	7	0.177	70	0.317	81	109
TBA	4	7	0.225	70	0.365	128	161
TBA	2	7	0.282	70	0.422	204	244
TBA	1	19	0.322	90	0.502	258	318
TBA	1/0	19	0.361	90	0.541	325	391
TBA	2/0	19	0.405	90	0.585	410	482
TBA	3/0	19	0.456	90	0.636	518	598
TBA	4/0	19	0.512	90	0.692	653	741
TBA	250	37	0.558	105	0.768	771	884
TBA	350	37	0.661	105	0.871	1081	1212
568018	500	37	0.789	105	0.986	1543	1748
TBA	600	61	0.865	120	1.105	1853	2046
648750	750	61	0.968	120	1.220	2315	2569
TBA	1000	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

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 60°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
TBA	8	1.1	132	0.653	0.786	0.052	40	50	55
TBA	6	1.2	209	0.411	0.495	0.051	55	65	75
TBA	4	1.4	333	0.258	0.310	0.048	70	85	95
TBA	2	1.6	530	0.162	0.195	0.045	95	115	130
TBA	1	2.0	669	0.128	0.154	0.046	110	130	145
TBA	1/0	2.1	844	0.102	0.122	0.044	125	150	170
TBA	2/0	2.3	1064	0.081	0.097	0.043	145	175	195
TBA	3/0	2.5	1342	0.064	0.078	0.042	165	200	225
TBA	4/0	2.7	1692	0.051	0.062	0.041	195	230	260
TBA	250	3.0	2000	0.043	0.053	0.041	215	255	290
TBA	350	3.4	2800	0.031	0.039	0.040	260	310	350
568018	500	3.9	4000	0.022	0.029	0.039	320	380	430
TBA	600	5.5	4800	0.018	0.025	0.039	350	420	475
648750	750	6.1	6000	0.014	0.022	0.038	400	475	535
TBA	1000	6.7	8000	0.011	0.018	0.037	455	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.