CU 2000V XLPE Insulation Type RHH/RHW-2. 600V Type USE-2

Power Cable 2000 Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) Insulation for Type RHH/RHW-2 and 600 Volt for Type USE-2

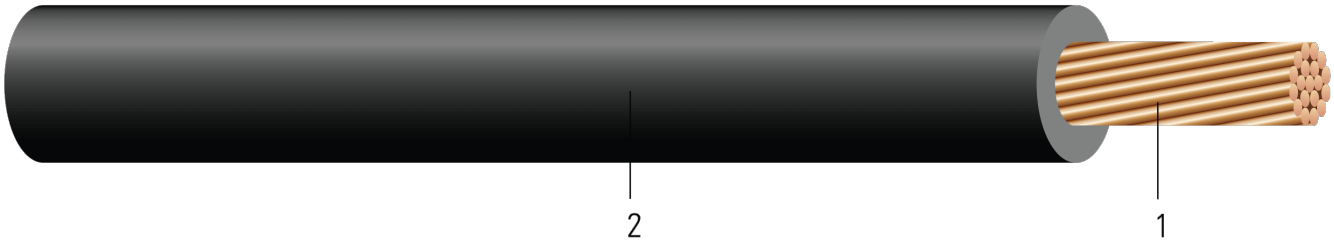


Image not to scale. See Table 1 for dimensions.

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 RHH/RHW 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. Can be used in direct burial applications at 600 Volt. 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 KCMIL CU XXX MILS XLP 2KV TYPE RHH-RHW-2 / 600 VOLTS TYPE USE-2 90{D}C

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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	300	37	0.609	105	0.820	926	1048
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
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	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	1.1	132	0.653	0.786	0.052	50	55
TBA	6	1.2	209	0.411	0.495	0.051	65	75
TBA	4	1.4	333	0.258	0.310	0.048	85	95
TBA	2	1.6	530	0.162	0.195	0.045	115	130
TBA	1	2.0	669	0.128	0.154	0.046	130	145
TBA	1/0	2.1	844	0.102	0.122	0.044	150	170
TBA	2/0	2.3	1064	0.081	0.097	0.043	175	195
TBA	3/0	2.5	1342	0.064	0.078	0.042	200	225
TBA	4/0	2.7	1692	0.051	0.062	0.041	230	260
TBA	250	3.0	2000	0.043	0.053	0.041	255	290
TBA	300	3.3	2400	0.031	0.039	0.040	285	320
TBA	350	3.4	2800	0.031	0.039	0.040	310	350
568018	500	3.9	4000	0.022	0.029	0.039	380	430
TBA	600	5.5	4800	0.018	0.025	0.039	420	475
648750	750	6.1	6000	0.014	0.022	0.038	475	535
TBA	1000	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.

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