

1/C AL 2000V XLPE RHH/RHW-2 Power Cable

Single Conductor Power Cable 2000 Volt Aluminum Conductor XLPE Insulation. RHH/RHW-2. Heat, Moisture, Oil and Sunlight Resistant 90°C. For CT Use

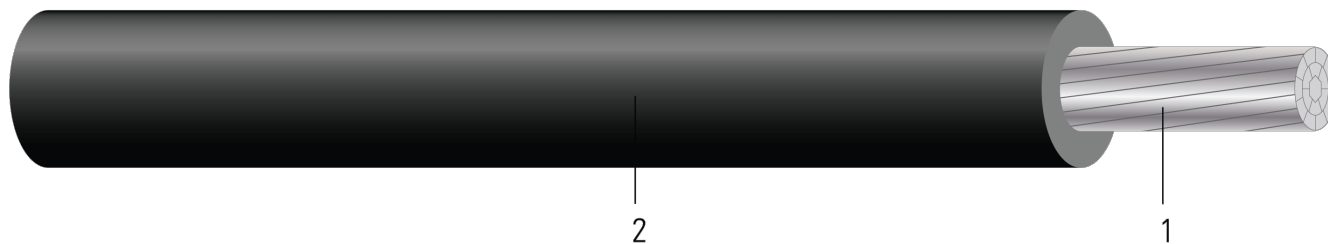


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** AlumaFlex® Compact Stranded Aluminum Alloy (AA-8176)
2. **Insulation:** Cross-linked Polyethylene (XLPE)

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.

Features:

- Oil Resistant PRI/PRII
- Gas and Oil Res GRI/GRII
- Sunlight Resistant all Colors
- Meets cold bend and cold impact tests at -40°C
- VW-1
- FT4 1/0 and Larger
- CT Rated 1/0 and Larger

SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test (1/0 and Larger)

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 MASTER-DESIGN {UL} XXX KCMIL AL TYPE USE-2 OR RHH OR RHW-2 FOR CT USE XXX MILS
XLP 2000 VOLTS



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Aluminum Weight	Approx. Weight
	AWG/Kcmil	inch	mil	inch	lb/1000ft	lb/1000ft
TBA	1/0	0.336	90	0.516	100	164
TBA	2/0	0.376	90	0.556	125	196
TBA	3/0	0.423	90	0.603	158	235
TBA	4/0	0.475	90	0.655	199	284
TBA	250	0.52	105	0.73	236	342
TBA	350	0.616	105	0.826	330	452
TBA	500	0.736	105	0.946	471	614
TBA	600	0.813	120	1.053	565	776
TBA	750	0.908	120	1.148	707	902
TBA	1000	1.06	120	1.3	942	1166

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 @ 90°C	Inductive Reactance @ 60Hz	Shield Short Circuit Current 6 Cycles	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	Amp
TBA	1/0	4.128	634	0.164	0.211	0.033	15707	100	120	135
TBA	2/0	4.448	799	0.13	0.167	0.032	19797	115	135	150
TBA	3/0	4.824	1007	0.103	0.132	0.031	24959	130	155	175
TBA	4/0	5.24	1270	0.082	0.105	0.03	31464	150	180	205
TBA	250	5.84	1500	0.0694	0.089	0.03	37186	170	205	230
TBA	350	6.61	2100	0.0495	0.064	0.029	52060	210	250	280
TBA	500	7.57	3000	0.0347	0.045	0.028	74372	260	310	350
TBA	600	8.4	3600	0.030	0.038	0.026	89247	285	340	385
TBA	750	9.18	4500	0.0231	0.031	0.028	111558	320	385	435
TBA	1000	10.4	6000	0.0173	0.024	0.027	148745	375	445	500

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

