SOUTH CABLE

RHH/RHW/USE-2 Aluminum Cable



APPLICATION

USE-2 or RHH/RHW-2 power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, 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. Rated for 1000 lbs./FT maximum sidewall pressure.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
600V

Temperature Rating
90°C dry or wet

STANDARDS

ASTM B800 8000 Series Aluminum Alloy Wire
ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
ASTM B836 Compact Rounded Stranded Aluminum Conductors
UL 44 Thermoset-Insulated Wires and Cables

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

South Cable actively implements the ‟carbon reduction”goal, strives to promote the greens low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the companys healthy and sustainable development.

CONSTRUCTION

Conductor
Class B compact stranded bare aluminum per ASTM B800 and ASTM B801, or Single Input Wire (SIW) Compact AL per ASTM B836

Insulation
Cross Linked Polyethylene (XLPE) Type RHH/RHW-2 USE-2, Silicone-Free, High Heat, Moisture and Abrasion Resistant

Sheath Colour
Black, Customized as needed

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SOUTH CABLE High-tech Zone, Zhengzhou City, Henan Province, China

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WEIGHTS AND MEASUREMENTS

Cond. Size	Conductor Number	Cond. Strands	Diameter Over Conductor	Insulation Thickness	Approx. OD	Aluminum Weight	Approx. Weight
AWG			inch	mil	inch	lb/1000ft	lb/1000ft
6 AWG	1	7	0.169	60	0.295	24	46
4 AWG	1	7	0.212	60	0.339	39	65
2 AWG	1	6	0.268	60	0.394	62	93
1 AWG	1	8	0.298	80	0.467	78	126
1/0 AWG	1	10	0.336	80	0.504	99	151
2/0 AWG	1	12	0.376	80	0.544	125	182
3/0 AWG	1	15	0.422	80	0.591	158	221
3/0 AWG	1	15	0.422	80	0.591	158	221
4/0 AWG	1	19	0.474	80	0.643	199	269
250 KCMIL	1	22	0.52	95.0	0.72	235	321
300 KCMIL	1	35	0.569	95	0.77	282	381
350 KCMIL	1	35	0.615	95	0.816	329	435
400 KCMIL	1	35	0.659	95	0.859	376	490
500 KCMIL	1	34	0.735	95	0.938	471	601
600 KCMIL	1	58	0.812	110	1.037	565	724
750 KCMIL	1	61	0.908	110	1.14	706	884

ELECTRICAL AND ENGINEERING DATA

Cond. Size	Conductor Number	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance	Allowable Ampacity 75°C	Allowable Ampacity 90°C
AWG		inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
6 AWG	1	1.2	157	0.674	0.812	0.051	50	55
4 AWG	1	1.4	250	0.424	0.51	0.048	65	75
2 AWG	1	1.6	398	0.267	0.321	0.045	90	100
1 AWG	1	1.9	502	0.211	0.254	0.046	100	115
1/0 AWG	1	2	633	0.168	0.201	0.044	120	135
2/0 AWG	1	2.2	798	0.133	0.16	0.043	135	150
3/0 AWG	1	2.4	1006	0.105	0.126	0.042	155	175
3/0 AWG	1	2.4	1006	0.1	0.126	0.042	155	175
4/0 AWG	1	2.6	1269	0.084	0.1	0.041	180	205
250 KCMIL	1	2.9	1500	0.071	0.086	0.041	205	230
300 KCMIL	1	3.1	1800	0.059	0.071	0.041	230	260
350 KCMIL	1	3.3	2100	0.05	0.062	0.04	250	280
400 KCMIL	1	3.4	2400	0.044	0.054	0.04	270	305
500 KCMIL	1	3.8	3000	0.035	0.044	0.039	310	350
600 KCMIL	1	5.2	3600	0.029	0.037	0.039	340	385
750 KCMIL	1	5.7	4500	0.024	0.031	0.038	385	435

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

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