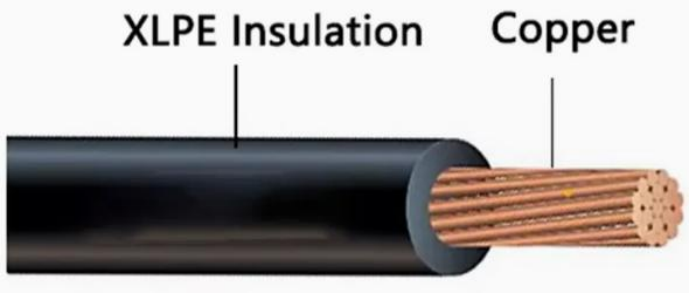
SOUTH CABLE

Copper RHW-2 Wire



APPLICATION

Copper RHW-2 wire is a high-performance cable with annealed (soft) copper conductors for excellent electrical conductivity. Its insulation material is cross-linked polyethylene (XLPE), which has excellent heat and moisture resistance, and can operate in dry or humid environments with a maximum operating temperature of up to 90°C. The RHW-2 cable is rated for 600 volts.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
600V

Temperature Rating
90°C dry or wet

STANDARDS

ASTM B3 Soft or Annealed Copper Wire
ASTM B8 Concentric-Lay-Stranded Copper Conductors
ASTM B787 19 Wire Combination Unilay-Stranded Copper 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 green‘s low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company‘s healthy and sustainable development.

CONSTRUCTION

Conductor
Bare copper per ASTM B3. Stranding is either Class B compressed per ASTM B8 or combination unilay per ASTM B787

Insulation
Cross Linked Polyethylene (XLPE), Silicone-Free, Abrasion, High-Heat, Moisture Resistant

Sheath Colour
Black, Customized as needed

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WEIGHTS AND MEASUREMENTS

Copper RHW-2 Wire, 600V

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
14	7	0.07	45	0.161	12	20
12	Solid	0.08	45	0.174	19	28
12	7	0.088	45	0.179	20	28
10	7	0.113	45	0.203	32	42
8	7	0.141	60	0.259	95	67
6	7	0.177	60	0.3	81	102
4	7	0.225	60	0.345	128	153
3	7	0.252	60	0.378	162	191
2	7	0.282	60	0.403	205	244
1	19	0.322	80	0.481	258	304
1/0	19	0.361	80	0.522	325	390
2/0	19	0.405	80	0.564	410	481
3/0	19	0.456	80	0.616	518	598
4/0	19	0.512	80	0.672	653	742
250	37	0.558	95	0.748	771	884
300	37	0.61	95	0.801	926	1023
350	37	0.661	95	0.851	1081	1213
400	37	0.705	95	0.896	1235	1345
500	37	0.789	95	0.956	1544	1696
600	61	0.865	110	1.085	1853	2028
750	61	0.968	110	1.171	2315	2492
1000	61	1.117	110	1.337	3088	3283

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ELECTRICAL AND ENGINEERING DATA

Copper RHW-2 Wire, 600V

Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity 75°C	Allowable Ampacity 90°C
AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
14	0.6	32	2.631	3.17	0.058	20	25
12	0.7	52	1.662	2.002	0.054	25	30
12	0.7	52	1.662	2.002	0.054	25	30
10	0.8	83	1.04	1.253	0.05	35	40
8	1	132	0.653	0.786	0.052	50	55
6	1.2	209	0.411	0.495	0.051	65	75
4	1.4	333	0.258	0.31	0.048	85	95
3	1.5	420	0.205	0.246	0.047	100	115
2	1.6	530	0.162	0.195	0.045	115	130
1	1.9	669	0.128	0.154	0.046	130	145
1/0	2.1	844	0.102	0.122	0.044	150	170
2/0	2.3	1064	0.081	0.097	0.043	175	195
3/0	2.5	1342	0.064	0.078	0.042	200	225
4/0	2.7	1692	0.051	0.062	0.041	230	260
250	3	2000	0.043	0.053	0.041	255	290
300	3.2	2400	0.036	0.045	0.041	285	320
350	3.4	2800	0.031	0.039	0.04	310	350
400	3.6	3200	0.027	0.035	0.04	335	380
500	3.8	4000	0.022	0.029	0.039	380	430
600	5.4	4800	0.018	0.025	0.039	420	475
750	5.9	6000	0.014	0.022	0.038	475	535
1000	6.7	8000	0.011	0.018	0.037	545	615

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