SOUTH CABLE

Aluminum Alloy Conductor Photovoltaic Wire 1000/2000V



APPLICATION

Aluminum alloy conductor XL insulated solar cable. For use in solar power applications per NEC Article 690. Rated 90°C for exposed or concealed wiring in wet or dry locations.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
1000/2000V

Max. Conductor Operating Temperature
90 °C

Min. Bending Radius during Installation
10xD

Min. Bending Radius Fix Installed
8xD (D is diameter of cable)

STANDARDS

UL4703
UL44

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 ℄arbon 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
Aluminum alloy conductor

Insulation
XL insulation

Color code
Black Red *other colours available on request

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

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RANGE AND DIMENSIONS

Size	Conductor diameter	Insulation thickness	Nominal outside diameter	Weight of aluminium	Net weight
AWG or kcmil	mm	mm	mm	kg/km	kg/km
6	4.3	2.15	8.6	35	84
4	5.4	2.15	9.7	56	113
3	6	2.15	10.3	71	133
2	6.8	2.15	11.1	89	156
1	7.6	2.66	12.9	113	207
1/0	8.5	2.66	13.9	142	244
2/0	9.6	2.66	14.9	179	290
3/0	10.7	2.66	16.1	226	348
4/0	12.10	2.66	17.4	285	417
250	13.2	3.04	19.3	338	504
300	14.5	3.04	20.6	404	583
350	15.7	3.04	21.7	471	660
400	16.7	3.04	22.8	540	740
450	17.8	3.04	23.9	606	816
500	18.7	3.04	24.8	673	894
550	19.5	3.43	26.4	742	1006
600	20.4	3.43	27.2	808	1083
650	21.2	3.43	28.1	875	1158
700	22	3.43	28.9	944	1237
750	22.9	3.43	29.8	1011	1312
800	23.5	3.43	30.4	1077	1388
900	25	3.43	31.9	1213	1537
1000	26.5	3.43	33.4	1348	1687

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ELECTRICAL CHARACTERISTICS

Size	Minimum radius of curvature	Conductor resistance at 20°C	Conductor resistance at 90°C	Maximum traction	Allowable ampacities in air	Allowable ampacities in the soil
AWG or kcmil	mm	Ω/km	Ω/km	N	A	A
6	86	2.21	2.833	519	85	55
4	97	1.39	1.782	825	115	75
3	103	1.1	1.41	1040	130	85
2	111	0.875	1.122	1311	150	100
1	129	0.693	0.888	1654	175	115
1/0	139	0.55	0.705	2087	205	135
2/0	149	0.436	0.559	2629	235	150
3/0	161	0.346	0.444	3315	270	175
4/0	174	0.274	0.351	4181	315	205
250	193	0.232	0.297	4953	355	230
300	206	0.194	0.249	5928	395	260
350	217	0.166	0.213	6903	445	280
400	228	0.145	0.186	7917	480	305
450	239	0.129	0.165	8892	510	325
500	248	0.116	0.149	9867	545	350
550	264	0.106	0.136	10881	580	365
600	272	0.0967	0.124	11856	615	385
650	281	0.0893	0.114	12831	640	405
700	289	0.0829	0.106	13845	670	425
750	298	0.0774	0.099	14820	700	435
800	304	0.0725	0.093	15795	725	445
900	319	0.0645	0.083	17784	790	480
1000	334	0.058	0.074	19773	845	500

*Allowable Ampacities of Single-Insulated Conductors Rated Up to and Including 2000 Volts in Free Air, Based on Ambient Temperature of 30 °C (86 °F)

*Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 Volts, Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30 °C (86 °F)

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