Coleman Wires & Cables

AERIAL CABLE

Contents

AERIAL CABLES

Insulated Aerial cable with rated voltage up to 36kV

Brief introduction

The product is made up of the compacted copper, aluminium (aluminium alloy) conductor, inner shield, climate-resistant insulation material and outer shield. It has structure and is safe and reliable. It has both excellent properties of the power cable and good physical properties of the aerial cable. By using the climate-resistant insulation material, the product has the excellent properties of resistance to air aging. Compare with the bare wire, it has good characteristics such as smaller laying distance, higher reliability. It is suitable for using in the high buildings, brushland and bad weather zone.

1. There are three rated voltage: 1kV、11kV、33kV、
2. Allowed long-term working temperature:
   PE insulation - 70°C, PVC insulation -70°C, Cross-linked PE -90°C
3. When short-circuit (the longest time is not more than 5 second), the highest temperature:
   PE isulation 130°C, PVC insulation 160°C, cross-linked PE 250°C.
4. The environment temperature for laying should be not lower than - 20°C.
5. The working environment temperature is from -40°C to +40°C, the relative humidity should no be more than 90% in rainy season.
6. Permitted bending radius radius

Cable with rated voltage 1kV and below: outer diameter of the cable D ≤ 25mm, bending radius should be not less than 4D. The outer diameter of cable D > 25mm, bending radius should be not less than 6D.

Cable with rated voltage 11kV, 33kV: Single core cable: 20 x (D+d) ± 5%
Multiple core cable: 15 x (D + d) ± 5% in which:
D the actual outer diameter of the cable, mm
D the actual outer diameter of the cable conductor, mm

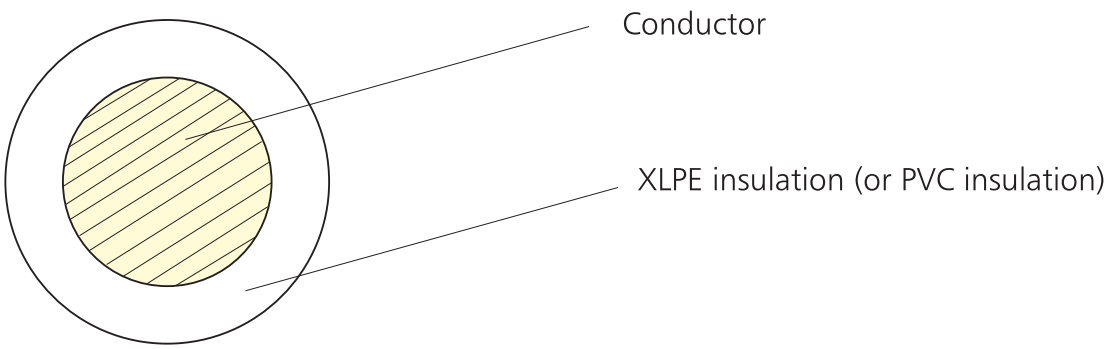
Type, Description and Application

Rated Voltage	Description	Application
1kV	Rated voltage 1kV, Copper conductor, PVC insulated aerial cable	As the entry wire when fixed-laying in aerial
	Rated voltage 1kV, Aluminium conductor, PVC insulated aerial cable	
	Rated voltage 1kV, Copper conductor, PE insulated aerial cable	
	Rated voltage 1kV, Aluminium conductor, PE insulated aerial cable	
	Rated voltage 1kV, Copper conductor, XLPE insulated aerial cable	
	Rated voltage 1kV, Aluminium conductor, XLPE insulated aerial cable	
	Rated voltage 0.6/1kV, Aluminium-steel core XLPE insulated aerial	
	Rated voltage 0.6/1kV, steel core, aluminium stranded, PVC insulated aerial cable	
10kV	Copper core, XLPE insulated aerial cable	When fixed-laying, the aerial cable should keep the distance from the tree. During operation it is allowed to contact the tree frequently.
	Aluminium core, XLPE insusated aerial cable	
	Copper core, PE insulated aerial cable	
	Aluminium core, PE insulated aerial cable	
	Rated voltage 10kV, Aluminium core, XLPE insulated light type aerial cable	
	Rated voltage 10kV, Aluminium steel, XLPE insulated light type aerial cable	
36kV	Aluminium core, XLPE insulated light type aerial cable	
	Aluminium core, insulated light type aerial cable XLPE	
	Aluminium core, PE insulated light type aerial cable	

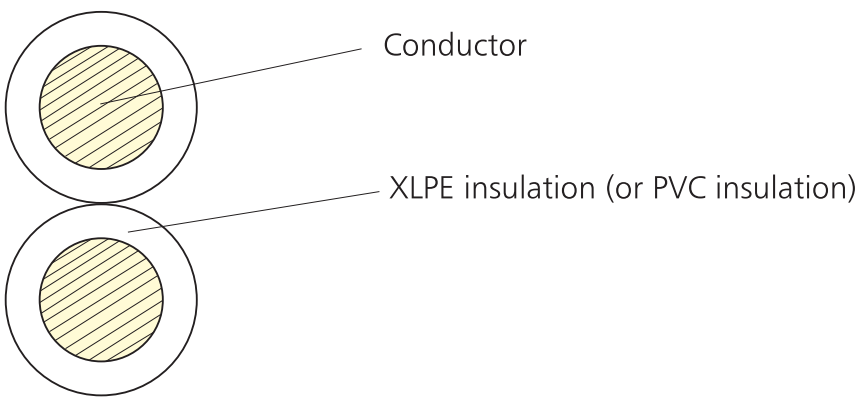
Structure Size, Reference Weight and main Technical Parameters

0.6/1kV insulated aerial cable

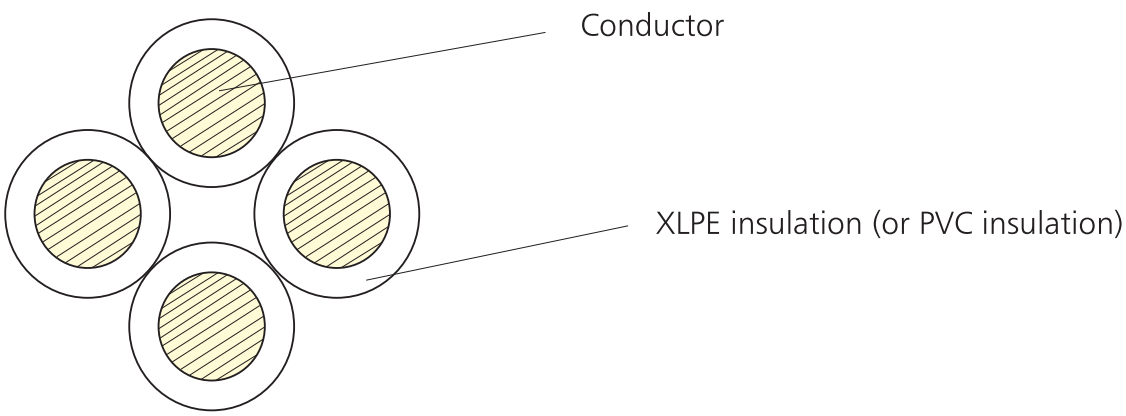
1. Structure diagram



1kV single-core insulated aerial cable



1kV 2-core insulated aerial cable



1kV 4-core insulated aerial cable

i. 0.6/1kV Insulated Aerial Cable

Nominal cross section mm²	Overall Dia. of Compact Contractor mm	Insulation thickness mm	Outer dia of cable mm	Approx. Weight Kg/km			Dc resistance of conductor at 20°C Ω/km			Breaking force of conductor ≥ N		
							Cu	Al	Al Alloy	Cu	Al	Al Alloy
1 x 10	3.8	1.0	6.3	106.8	44.9	45.2	1.906	3.080	3.574	3471	1650	2514
1 x 16	4.8	1.2	7.6	167.6	98.0	98.8	1.198	1.910	2.217	5486	2512	6284
1 x 25	6.0	1.2	8..8	258.7	129.3	130.4	0.749	1.200	1.393	8486	3762	8800
1 x 35	6.9	1.4	10.1	341.9	168.8	170.3	0.540	0.868	1.007	11731	5177	12569
1 x 70	8.1	1.4	11.3	461.7	234.1	236.2	0.399	0.641	0.744	16502	7011	17596
1 x 95	9.8	1.4	13.0	662.9	314.2	317.0	0.276	0.443	0.514	23461	10354	23880
1 x 120	11.4	1.6	15.0	894.3	385.4	389.0	0.199	0.320	0.371	31759	13727	30164
1 x 150	12.8	1.6	16.4	1116.8	480.4	484.9	0.158	0.253	0.294	39911	17339	37706
1 x 185	14.3	1.8	18.3	1393.3	605.9	611.6	0.128	0.206	0.239	49505	21033	46503
1 x 240	16.1	2.0	20.5	1763.1	760.9	768.1	0.1021	0.164	0.190	61846	26732	60329

ii. 0.6/1kV Steel-Core Aluminium Stranded Aerial Cable

Nominal cross section A1/St mm²	Diameter of conductor mm	Insulation thickness mm	Approx. outer diameter mm	Approx. weight of cable kg/km	Dc resistance of conductor at 20°C	Breaking force of conductor N
		1kV	1kV	1kV		
10/2	4.20	1.0	6.6	62.2	3.080	4120
16 / 3	5.20	1.2	8.0	92.8	1.910	6130
25 / 4	6.50	1.2	9.3	131.7	1.200	9290
35 / 6	7.93	1.4	11.1	186.3	0.868	12630
50 /8	9.10	1.4	12.3	248.5	0.641	16870
70 / 10	10.74	1.4	13.9	325.1	0.443	23390
95 / 15	12.90	1.6	16.5	452.4	0.320	35000
120 / 7	13.50	1.6	17.1	460.8	0.253	27570
150 / 8	15.30	1.8	19.3	570.6	0.206	32860
185 / 10	16.50	2.0	20.9	700.2	0.164	40880
240 / 30	20.00	2.2	24.8	1042.4	0.125	75620
300 / 15	22.06	2.3	26.5	1106.0	0.100	75680

iii. 0.6/1kV 2-Core Insulated Aerial Cable

Nominal cross section mm²	Insulation thickness mm	Approx. Outer diameter mm	Approx. Weight		Dc resistance of conductor at 20°C ≤		Breaking force of conductor ≥		Cable current carrying capacity	
			Cu Kg/km	Al Kg/km	Cu Ω/km	Al Ω/km	Cu Ω/km	Cu N	Al N A	In air A
10	1.0	13.0	232	108	≤1.906	≤ 3.08	6594	3135	53	40
16	1.2	16.0	357	159	≤1.198	≤ 1.91	10423	4782	72	56
25	1.2	18.8	534	223	≤0.249	≤ 1.20	16083	7147	96	73
35	1.4	22.0	734	299	≤0.540	≤ 0.868	22288	9836	112	88
50	1.4	24.6	1021	400	≤0.339	≤ 0.641	31353	13320	144	112
70	1.4	28.2	1396	528	≤0.276	≤ 0.443	44575	19672	176	136
95	1.6	33.0	1894	715	≤0.199	≤ 0.320	60342	26081	216	168
120	1.6	36.2	2360	870	≤0.158	≤ 0.253	75830	32944	252	196

iv. 0.6/1kV 3-Core Insulated Aerial Cable

Nominal cross section mm²	Insulation thickness mm	Approx. Outer diameter mm	Approx. Weight		Dc resistance of conductor at 20°C ≤		Breaking force of conductor ≥		Cable current carrying capacity	
			Cu Kg/km	Al Kg/km	Cu Ω/km	Al Ω/km	Cu Ω/km	Cu N	Al N A	In air A
10	1.0	14.0	348	≤ 162	≤1.906	3.08	9397	4702	50	38
16	1.2	17.2	534	≤ 240	≤1.198	1.91	15583	7173	67	54
25	1.2	20.2	798	≤ 336	≤0.249	1.20	24125	10721	86	70
35	1.4	26.5	1530	≤ 600	≤0.399	0.641	41748	19981	138	109
50	1.4	23.7	1098	≤ 450	≤0.540	0.868	33433	14754	107	86
70	1.4	30.4	2091	≤ 792	≤0.276	0.443	66863	29508	166	134
95	1.6	35.5	2835	≤1074	≤0.199	0.320	90513	39121	206	166
120	1.6	39.0	3525	≤1305	≤0.158	0.253	113746	49416	236	192

v. 0.6/1kV 4-core Insulated Aerial Cable

Nominal cross section mm²	Insulation thickness mm	Approx. Outer diameter mm	Approx. Weight		Dc resistance of conductor at 20°C ≤		Breaking force of conductor ≥		Cable current carrying capacity	
			Cu Kg/km	Al Kg/km	Cu Ω/km	Al Ω/km	Cu Ω/km	Cu N	Al N A	In air A
10	1.0	15.7	464	216	≤1.906	≤ 3.08	13189	6270	42	32
16	1.2	19.3	712	320	≤1.198	≤ 1.91	17426	9564	59	47
25	1.2	22.7	1064	448	≤0.249	≤ 1.20	32167	14295	75	62
35	1.4	26.6	1464	600	≤0.540	≤0.868	44577	19672	94	77
50	1.4	29.7	2040	800	≤.0339	≤0.641	62707	26641	121	95
70	1.4	34.0	2788	1056	≤0.276	≤0.443	89151	39345	207	118
95	1.6	39.8	3780	1432	≤0.199	≤0.320	120684	52151	180	146
120	1.6	43.7	4700	1740	≤0.158	≤0.253	151661	65888	207	168

vi. 36kV 3-Core Cross-linked PE Insulated Aerial Cable

Nominal cross section mm²	Overal l Dia. Of Com-Pact Con-doctor mm ²	Shield Thickne ss of conduct or mm	Nomi nal insulat ion thickn ess mm	Shield Thickne ss of insulatio n mm	Appro x. Outer diamet er mm	Approx. weight kg/km			Dc resistance of conductor at 20°C≦ Ω/km			Breaking force of conductor ≧N		
						Cu	Al	A1 Alloy	Cu	Al	A1 Alloy	Cu	Al	Al Alloy
3x 50	8.1	0.5	9.3	1.5	68.7	3447.7	2564.6	2569.1	0.399	0.641	0.744	48516	20612	36953
3x 70	9.8	0.5	9.3	1.5	72.4	4215.6	2922.7	2929.1	0.276	0.443	0.514	68975	30441	52732
3x 95	11.4	0.5	9.3	1.5	75.8	5039.3	3290.0	3298.4	0.199	0.320	0.371	93371	40357	70207
3x 120	12.8	0.5	9.3	1.5	78.8	5840.4	3635.2	3646.0	0.158	0.253	0.294	117338	50977	88682
3x 150	14.3	0.5	9.3	1.5	82.1	6781.9	4029.5	4043.1	0.128	0.206	0.239	145545	61837	110856
3x 185	16.1	0.7	9.3	1.5	85.9	8025.6	4537.0	4553.9	0.1021	0.164	0.190	181827	78592	136719
3x 240	18	0.7	9.3	1.5	90.3	9553.0	5143.6	5165.3	0.0777	0.125	0.145	234680	101956	177367
3 x 300	20.5	0.7	9.3	1.5	95.4	11588.2	5931.7	5959.4	0.0619	0.100	0.110	293377	127446	221706

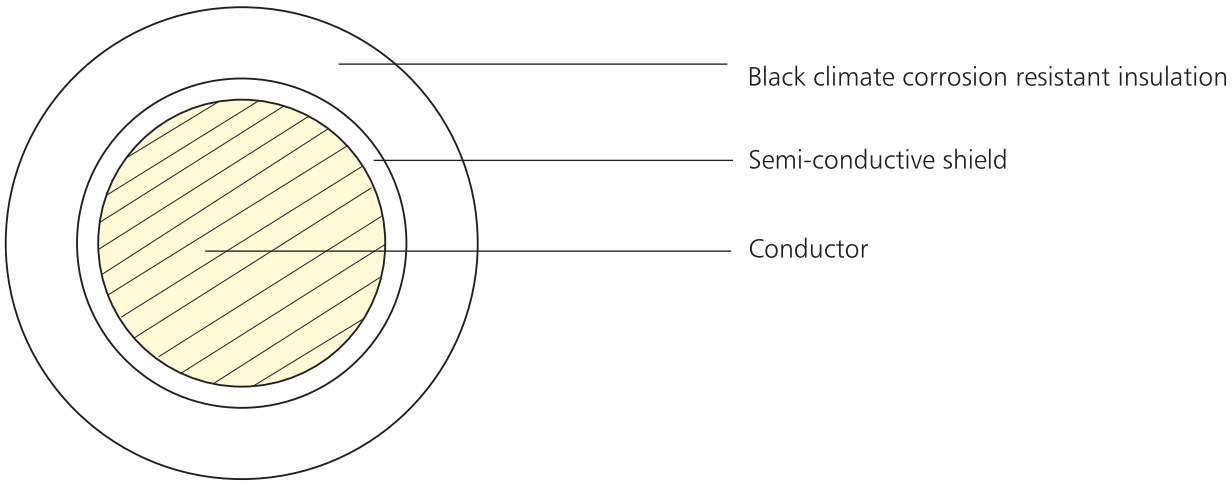
Derivative Products

1. Aluminium-alloy aerial insulated cable
2. Parallel bundling aerial cable
3. Water-blocking aerial cable
4. Water-blocking bundling aerial cable
5. Non-standard insulated aerial cable

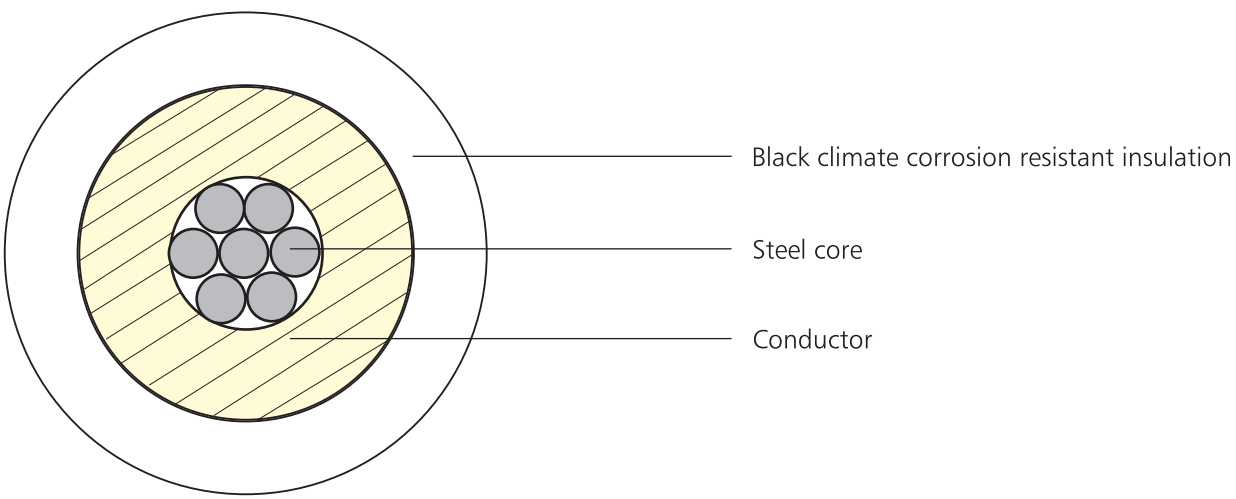
Item	Name	Specification	Feature
1	Aluminium – alloy aerial insulated cable	1 cores-4cross 10-240	High strength
2	Parallel aerial cable	2cores-4cores 10-240	Easy to lay
3	Water-blocking aerial cable	25-240	Good property of water-proof
4	Water-blocking aerial cable	3 25-240	Bundled laying
5	Aerial cable	10-240	According to the customer's needs

Structure of XLPE Insulated Aerial Cable

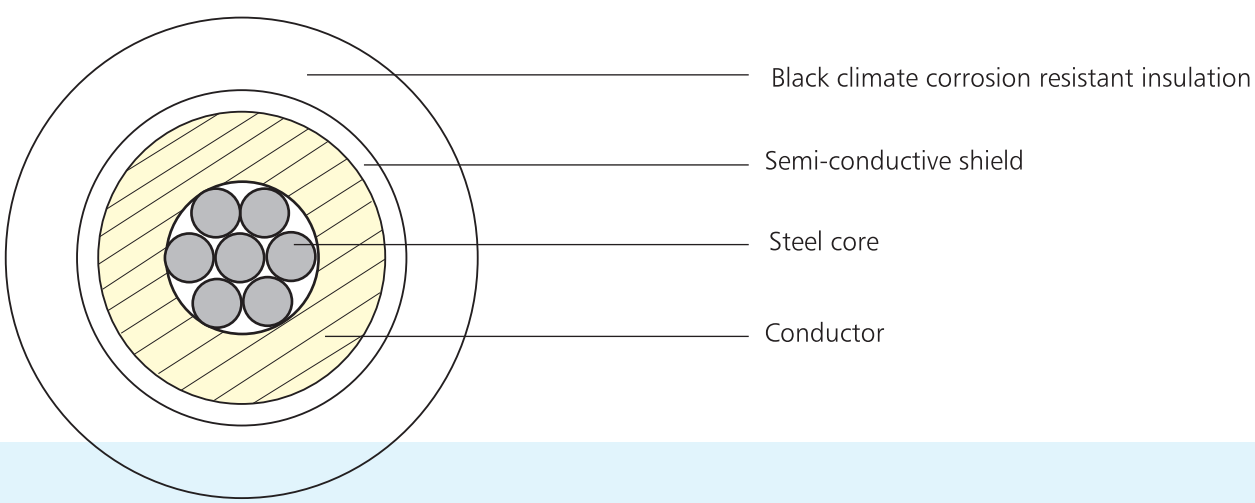
1. Structure diagram



10kV single-core XLPE insulated aerial cable



10kV steel-core reinforced single-core XLPE insulated light-type aerial cable



11kV steel-core reinforced single-core XLPE insulated aerial cable

AAC and ACSR

BRIEF INTRODUCTION

Aluminium stranded cable and steel-core aluminium stranded cable have the characteristics of simple structure, easy for laying and maintenance, low cost of circuit, bigger transmission capacity and convenience for laying across the river and valley with special geographic conditions. Thus the product is suitable for using in the aerial transmission circuit of all kinds of voltage.

Implemented standard, IEC61089.

Standard	IEC61089
Aluminium stranded cable	A1
Steel-core aluminium stranded cable	A1/S1A, A1/S1BA/S2A, A1/S2B, A1/S3A
Anti-corossion steel-core Aluminium stranded cable	

According to the customers requirements, we can manufacture the aluminium stranded cable and aluminium stranded conductor steel reinforced based on the standard, such as ASTM、DIN、BS etc. We can also produce the non-standard aluminium stranded cable and steel-core aluminium stranded cable based on requirements of section, structure and properties put forward by the customer. According to the different anti-corrosion needs, the anti-corrosion paint can be coated in the way any layer of the aluminium stranded conductor steel reinforced, manufacture the anti-corrosion type aluminium stranded conductor steel reinforced.

Material Standard

The stiff aluminium wires used in the aluminium stranded conductor and aluminium stranded conductor steel reinforced equivalent to IEC60889

The galvanized steel wires of the aluminium stranded conductor steel reinforced implement IEC60888.

According to the customer's needs, we can manufacture the cable based on the material requirements.

Product characteristics

The properties of the aluminium stranded cable and steel core aluminium stranded cable is expressed by the kilometer resistance at 20^{0}C. The specific resistance of the stiff aluminium wire should be not more than 0.028264 mm2 /m ,which is standard value internationally accepted.

There are three strength grades for the aluminium stranded conductor steel reinforced: general strength grade, high-strength grade and super-high strength grade.

Product Maintenance

During handling and transportation, the product should prevent from impact and collision. When transportation and storage, the cable drum should not be layed flatly. The moisture-proof measures should be used during the storage.

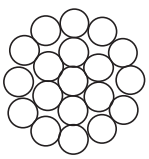
Notes for ordering

The following datas should be supplied when ordering or inquiry:

- Name, specification and stranded structure of the product.
- Implemented standard
- Product quantity
- Direction of the stranding (normally, the stranding direction of the outer layer is rightward)
- Anti-corrosion grade and requirements (if needed).
- Length and deviation of each cable drum, short-length and its proportion of the delivery Quantity used in the engineering
- Package type and special requirements.
- Special inspection and package requirements
- Delivery period and delivery mode.

StructureDiagram

7(1+6)A1



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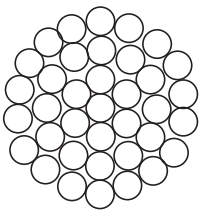
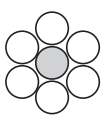


37(1+6+12+18)A1

Diagram of AAC



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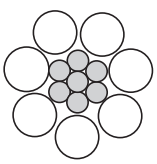

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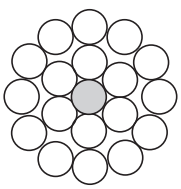

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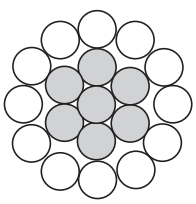

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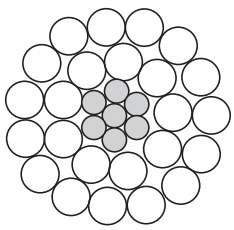

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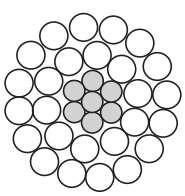

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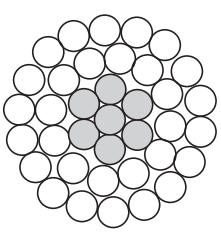

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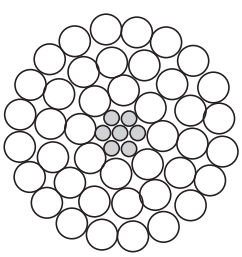

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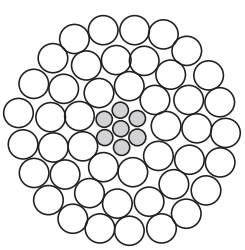

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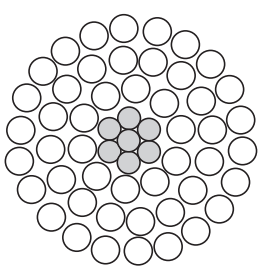

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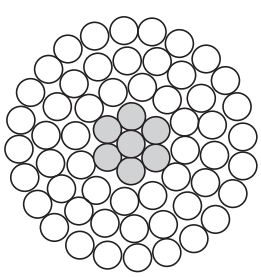

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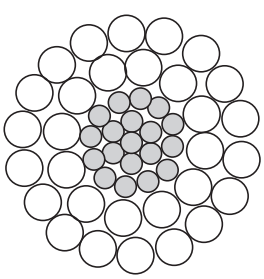

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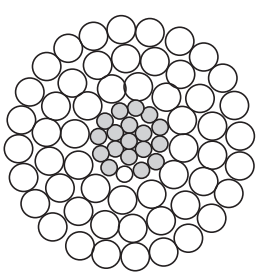

54A1/19St

Diagram of ACSR

Structure Size, Reference Weight And Main Technical Parameters

Aluminium stranded cable (AAC /AOHL)

NOMINAL CROSS SECTIONAL AREA (mm^2)	CODE NAME	NO. OF THREAD	DIAMETER MM		WEIGHT PER KM KG/KM	RATED BRAKING FORCE KN	D.C RESISTANCE AT 20°C (Ω/Km)
			Single	Stranded			
16		7	1.7	5.1	44	2.9	1.802
22	Midge	7	2.06	6.2	64	4	1.227
25		7	2.1	6.3	66	4.25	1.181
35		7	2.5	7.5	94	5.85	0.833
50	Ant	7	3.1	9.3	145	8.3	0.5419
50		19	1.8	9	133	8.6	0.595
60	Fly	7	3.4	10.2	174	9.9	0.4505
70		19	2.1	10.5	181	11.5	0.437
95		19	2.5	12.5	256	15.95	0.308
100	Beetle	19	2.67	13.4	293	17.42	0.27
100	Wasp	7	4.39	13.2	290	16	0.2702
120		19	2.8	14	322	19.1	0.246
150		37	2.25	15.8	406	25.7	0.196
150	Hornet	19	3.25	16.3	434	24.7	0.1825
185		37	2.5	17.5	501	31.05	0.159
200	Chaffer	19	3.78	18.9	587	32.4	0.1349
240		61	2.25	20.3	670	40.15	0.119
250	Cockroach	19	4.22	21.1	731	40.4	0.1083
300		61	2.5	22.5	827	48.5	0.097
300	Butterfly	19	4.65	23.3	888	48.75	0.0892
400		61	2.89	26	1105	61.9	0.072
400	Centipede	37	3.78	26.5	1145	63.1	0.0694
500		61	3.2	29.1	1381	76	0.058
630		61	3.62	32.6	1735	96.9	0.046
800		61	4.1	36.9	2225	120.55	0.036
1000		61	4.57	41.1	2764	148.45	0.029

Aluminum conductor Steel Reinforced (ACSR)

NOMINAL CROSS SECTIONAL AREA (mm2)	CODE NAME	STRUCTURE NUMBER/DIAMETER mm		WEIGHT (Kg/Km)	OUTER DIAMETER OF CONDUCTOR (mm)	RATED BREAKING LOAD (kN)	D.C RESISTANCE AT 20°C (Ω/Km)
		Al	St				
16/2.5	-	6 x 1.80	1 x 1.80	5.4	62	5.95	1.879
25/4	-	6 x 2.25	1 x 2.25	6.8	97	9.2	1.203
26/4	COPHER	6 x 2.36	1 x 2.36	7.1	106	9.61	1.093
35/6	-	6 x 2.70	1 x 2.70	8.1	140	12.85	0.835
30/5	WEASEL	6 x 2.59	1 x 2.59	7.8	128	11.45	0.908
50/8	-	6 x 3.20	1 x 3.20	9.6	196	17.1	0.595
52/8	RABBIT	6 x 3.35	1 x 3.35	10.1	214	18.4	0.5426
70/12	-	26 x 1.85	7 x 1.14	11.7	284	26.8	0.413
70/42	HORSE	12 x 2.79	7 x 2.79	14	538	61.2	0.394
95/15	-	26 x 2.15	7 x 1.67	13.6	383	35.75	0.306
100/15	DOG	6 x 4.72	7 x 1.57	14.2	394	32.7	0.2733
120/20	-	26 x 2.44	7 x 1.90	15.5	494	45.65	0.237
150/25	-	26 x 2.70	7 x 2.10	17.1	605	55.25	0.194
150/35	WOLF	30 x 2.59	7 x 2.59	18.1	726	69.2	0.1828
175/40	LYNX	30 x 2.79	7 x 2.79	19.5	842	79.8	0.1576
185/30	-	26 x 3.0	7 x 2.33	19	746	66.2	0.157
200/50	PANTHER	30 x 3.0	7 x 3.0	21	974	92.7	0.1363
240/40	-	26 x 3.45	7 x 2.68	21.9	987	86.4	0.119
264/62	BEAR	30 x 3.35	7 x 3.35	23.5	1216	111.1	0.1035
382/50	BISON	54 x 3.0	7 x 3.0	27	1443	120.9	0.0757
429/100	DEER	30 x 4.27	7 x 4.27	29.9	1947	178.5	0.0673

Aluminum conductor Steel Reinforced (ACSR)

Spec.No	Structure Number/ Daimeter		Outer Diameter of conductor mm	Weight per km Kg/km	Rated Breaking Force					DC Resistance at 20°C Ω/km
	Al	St			Al/SLA	Al/SLB	Al/S2A	Al/S2B	Al/S3A	
	mm				kN					
500	45 / 3.76	7 / 2.51	30.1	1650.2	119.41	116.99	124.25	121.83	128.94	0.0578
500	54 / 3.43	7 / 3.43	30.9	1887.9	153.80	47131	162.87	158.33	171.94	0.0578
560	45 / 3.98	7 / 2.65	31.8	1848.2	133.74	131.03	139.16	136.45	144.19	0.0516
560	54 / 3.63	19 / 2.18	32.7	2103.4	172.59	167.63	182.52	177.56	192.45	0.0516
630	45 / 4.22	7 / 2.81	33.8	2079.2	150.45	147.40	156.55	153.50	162.21	0.0459
630	54 / 3.85	19 / 2.31	34.7	2366.3	191.77	186.19	202.94	197.36	213.32	0.0459
710	45 / 4.48	7 / 2.99	35.9	2343.2	169.56	166.12	176.43	172.99	182.81	0.0407
710	54 / 4.09	19 / 2.45	36.8	2666.8	216.12	209.83	228.71	222.42	240.41	0.0407
800	72/ 3.76	7 / 2.51	37.6	2480.2	167.41	164.99	172.25	169.83	176.74	0.0361
800	84 / 3.48	7 / 3.48	38.3	2732.7	205.33	198.67	214.67	210.00	224.00	0.0362
800	54 / 4.34	19 / 2.61	39.1	3004.9	246.52	236.43	257.71	250.61	270.88	0.0362
900	72 / 3.99	7 / 2.66	39.9	2790.2	188.33	185.61	193.78	191.06	198.83	0.0321
900	84 / 3.69	7 / 3.69	40.6	3074.2	226.50	219.00	231.75	226.50	244.50	0.0322
1000	72 / 4.21	7 / 2.80	42.1	3100.3	209.26	206.23	215.31	212.28	220.93	0.0289
1120	72 / 4.45	19 / 1.78	44.5	3464.9	234.53	231.22	241.15	237.84	247.77	0.0258
1120	84 / 4.12	19 / 2.47	45.3	3811.5	283.17	276.78	295.94	289.55	307.79	0.0258
1250	72 / 4.70	19 / 1.88	47.0	3867.1	261.75	258.06	269.14	265.44	276.53	0.0231
1250	84 / 4.35	19 / 2.61	47.9	4253.9	316.04	308.91	330.29	323.16	343.52	0.0232

Aluminium Stranded Conductor

Nominal cross section mm^2	Structure Number/Diameter n/mm	Outer diameter of stranded conductor mm	Weight of stranded conductor kg/km	Breaking force kN	DC Resistance at 20^0C Ω/km
16	7/1.70	5.10	43.5	2.84	1.802
25	7/2.15	6.45	69.6	4.36	1.127
35	7/2.50	7.50	94.1	5.76	0.8332
50	7/3.00	9.00	135.5	7.93	0.5786
70	7/3.60	10.80	195.1	10.95	0.4018
95	7/4.16	12.48	260.5	14.45	0.3009
120	19/2.85	14.25	333.5	19.42	0.2373
150	19/3.15	15.75	407.4	23.31	0.1943
185	19/3.50	17.50	503.0	28.44	0.1574
210	19/3.	18.75	577.4	32.26	0.1371
240	19/4.00	20.00	656.9	36.26	0.1205
300	37/3.20	22.40	820.4	46.85	0.09689
400	37/3.70	25.90	1097	61.15	0.07247
500	37/4.16	29.12	1387	76.37	0.05733
630	61/3.63	32.67	1744	91.94	0.04577
800	61/4.10	36.90	2225	115.90	0.03588

Nominal cross section mm^2	Structure Steel Wire Number/Diameter n/mm	Structure Aluminium conductor n/mm	Outside diameter of standard conductor mm	Weight of stranded conductor kg/km	Breaking force kN	Resistance at $20^0C \leq \Omega$/km
10/2	1/1.50	6 / 1.50	4.50	42.9	4.12	2.706
16/3	1/1.85	6 / 1.85	5.55	65.2	6.13	1.779
25/4	1/ 2.32	6 / 2.32	6.96	102.6	9.29	1.131
35/6	1/ 2.72	6 / 2.72	8.16	141.0	12.63	0.8230
50/8	1/3.20	6 / 3.20	9.60	195.1	16.87	0.5946
50/30	7 / 2.32	12/2.32	11.60	372.0	42.62	0.5692
70/10	1 / 3.80	6 / 3.80	11.40	275.2	23.39	0.4217
70/40	7/2.72	12 / 2.72	13.60	511.3	58.30	0.4141
95/15	7/1.67	26 / 2.15	13.61	380.8	35.00	0.3058
95/20	7/1.85	7 / 4.16	13.87	408.9	37.20	0.3019
95/55	7/3.20	12 / 3.20	16.00	707.7	78.11	0.2992
120/7	1/2.90	18 / 2.90	14.50	379.0	27.57	0.2422
120/20	7/1.85	26 / 2.38	15.07	466.8	41.00	0.2496
120/25	7 / 2.10	7 / 4.72	15.74	526.6	47.88	0.2345
120/70	7/3.60	12 / 3.60	18.0	895.6	98.37	0.2364
150/8	1 / 3.20	18 / 3.20	16.00	461.4	32.86	0.1989
150/20	7 / 1.85	24 / 2.78	16.67	549.4	46.63	0.1980
150/25	7/2.10	26 / 2.70	17.10	601.0	54.11	0.1939
150/35	7/2.50	30 / 2.50	17.50	676.2	65.02	0.1962
185/10	1/3.60	18 / 3.60	18.00	584.0	40.88	0.1572
185/25	7/2.10	24 / 3.15	18.90	706.1	59.42	0.1542
185/30	7/2.32	26 / 2.98	18.88	732.6	64.32	0.1592
185/45	7/ 2.80	30 / 2.80	19.60	848.2	80.19	0.1564
210/10	1/3.80	18 / 3.80	19.00	650.7	45.14	0.1411
210/25	7/2.22	24 / 3.33	19.98	789.1	65.99	0.1380
210/35	7/2.50	26 / 3.22	20.38	853.9	74.25	0.1363
210/50	7/2.98	30 / 2.98	20.86	960.8	90.83	0.1381
240/30	7/2.40	24 / 3.60	21.60	9.22.2	75.62	0.1181
240/40	7/2.68	26 / 3.42	21.66	964.3	83.37	0.1209
240/55	7/3.20	30 / 3.20	22.40	1108	102.10	0.1198
300/15	7/1.67	42 / 3.00	23.01	939.8	68.06	0.09724
300/20	7 /1.95	45 / 2.93	23.43	1002	75.68	0.09520
300/25	7/2.22	48 / 2.85	23.76	1058	83.41	0.09433
300/40	7/2.66	24 / 3.99	23.94	1133	92.22	0.09614
300/50	7/ 2.98	26 / 3.83	24.26	1210	103.40	0.09636

Nominal cross section mm^2	Structure Steel Wire Number/Diameter n/mm	Structure Aluminium conductor n/mm	Outside diameter of standard conductor mm	Weight of stranded conductor kg/km	Breaking force kN	Resistance at $20^0C \leq \Omega$/km
300/70	7/ 3.60	30 / 3.60	25.20	1402	128.00	0.09463
400/20	7/1.95	42 / 3.15	26.91	1286	88.85	0.07104
400/25	7/2.22	45 / 3.33	26.64	1295	95.94	0.07370
400/35	7/2.50	48 / 3.22	26.82	1349	103.90	0.07389
500/35	7/2.50	45 / 3.60	30.00	1642	119.50	0.05812
500/45	7/2.80	48 / 3.60	30.00	1688	128.10	0.05912
500/65	7/3.44	54 / 3.44	30.96	1897	154.00	0.05760
630/45	7/ 2.80	45 / 4.20	33.60	2060	148.70	0.04633
630/55	7/3.20	48 / 4.12	34.32	2209	164.40	0.04514
630/80	19/2.32	54 / 3.87	34.82	2388	192.90	0.04551
800/55	7/3.20	45 / 4.80	38.40	2690	191.50	0.03547
800/70	7/3.60	48 / 4.63	38.58	2791	207.00	0.03574
800/100	19 2.60	54 / 4.33	38.98	2991	241.10	0.03635