Product Catalogue

BOAN 宝安电缆
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BOAN 宝安电缆

Porduct Catalogue

Bare Conductor
Aerial Bundled Cable
Low Voltage Powr Cable
Medium Voltage Power Cable
Control Cable
Electric Wire
Extra High Voltage Power Cable

Transmission, changing for you

BOAN
宝安电缆

CONTENTS

BRIEF INTRODUCTION

Jiangsu Boan Cable Co., Ltd. was founded in 1996 with a registered capital of 216 million RMB (36 million USD DOLLAR). The company is located in the National Hi-Tech Industrial Zone—China Yixing Industrial Park for Environmental Science & Technology (ES&TP), covering an area of 200000 square meters .It owns total assets of 1000 million yuan and more than 800 staff members. The annual production capacity reaches 3 billion .It is one of key enterprises of China wire & cable industry, the national high-tech enterprises, the innovation and development pilot enterprises of Jiangsu Province, the private technology enterprises in Jiangsu Province, keeping Contract and Credit Enterprises and AAA-grade credit enterprise. We have passed ISO9001 Quality System, ISO14001 Environment Management System Certificate and OHSAS 18001 Occupational Health and Safety Management System Certificate.

With more than 300 sets of first-class domestic and imported manufacture and test equipment, Boan Cable can manufacture ten thousand specifications, including electric wire, bare conductor(AAC & ACSR & Stranded Bare Copper Conductor), aerial bundled cable(ABC & service drop), steel wire conductor, power cable(low, medium and high voltage, including PVC/XLPE insulated power cable, flame-retardant and fire-resistant wire & cable, low smoke and halogen-free cable), control cable, computer cable, mineral insulated metal sheathed flexible fire-proof cable, rubber insulated cable.

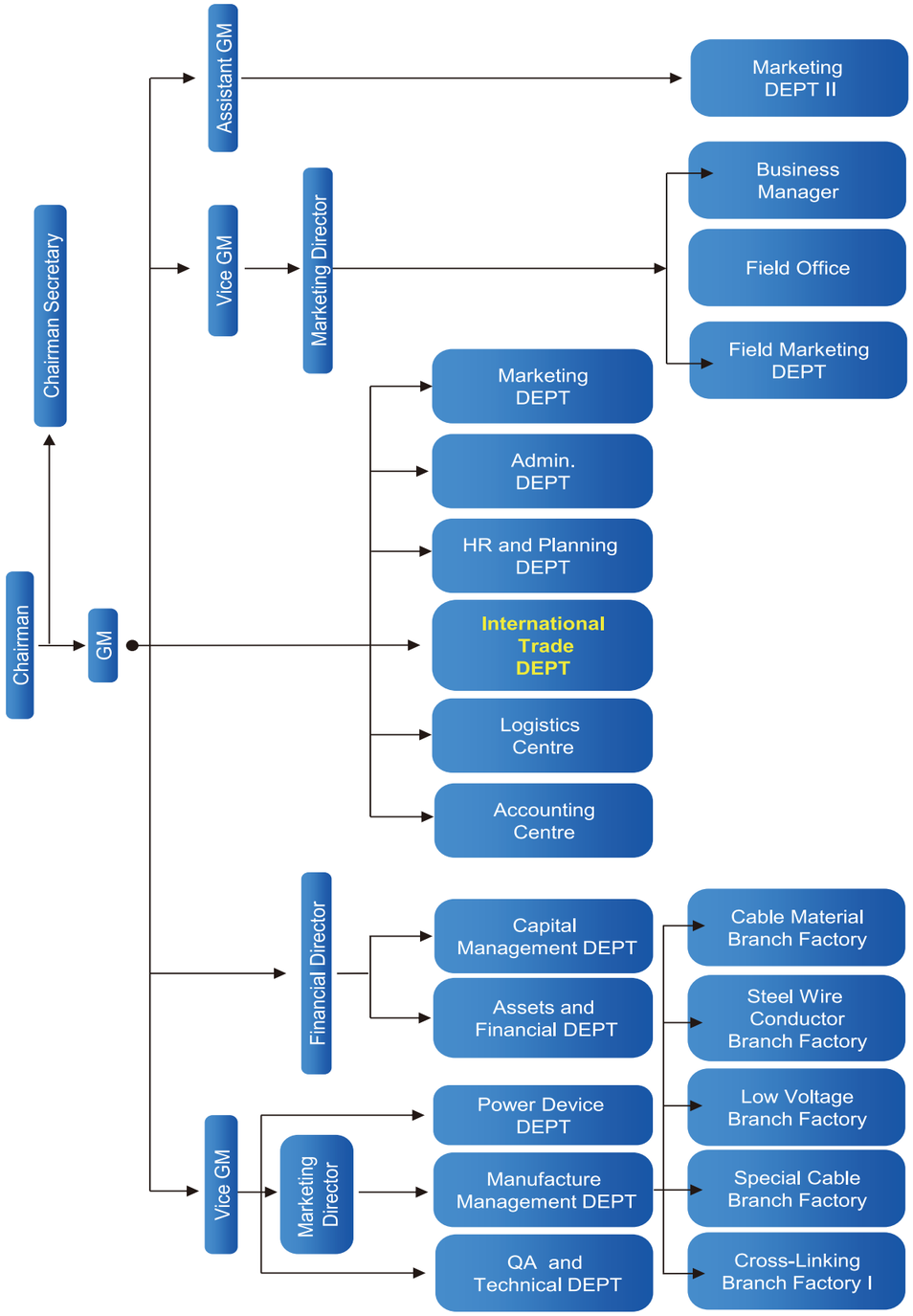
BOAN

Today, Boan Cable is a fast growing global supplier, our products can be manufactured according to different standards, including national standards (GB), the international electrical standards (IEC), the Australia and New Zealand Standards (AS/NZS), the German standards (VDE), the British standards (BS), the European standards (EN/CENELEC HD), the French standards (NF C), the American Standard (ICEA/ASTM/ANSI/UL) and so on.

“Ding-an” brand cable has been identified as high-tech products, brand-name products and well-known trademark in Wuxi. Our wire and cable have passed national compulsory certificate (3C certification), electricity certificate (PCCC certification), coal security certificate, flame retardant (fire-resistant) logo certification and series of other certifications. The products cover electric power, petrifaction, railway, construction, communication aerospace, automobile, metallurgical, appliance and widely used in construction of urban and rural electricity net and transform projects all over the world. Our products have been used in Guodian Corporation, Datang Corporation, Huaneng group, China Railway Group Limited, China National Electric Equipment Corporation in kinds of construction projects and large-scale key projects.

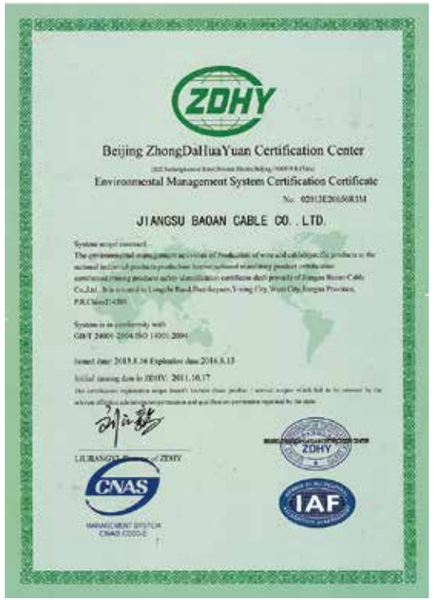
Jiangsu Boan Cable Co., Ltd. always adheres to the spirit of enterprise that "pioneering and innovative, sincere service", explaining the service concept “transmission——changing for you”, committing to provide excellent products and professional service for global customers.

PERSONNEL AND ORGANIZATION



CERTIFICATES

ISO



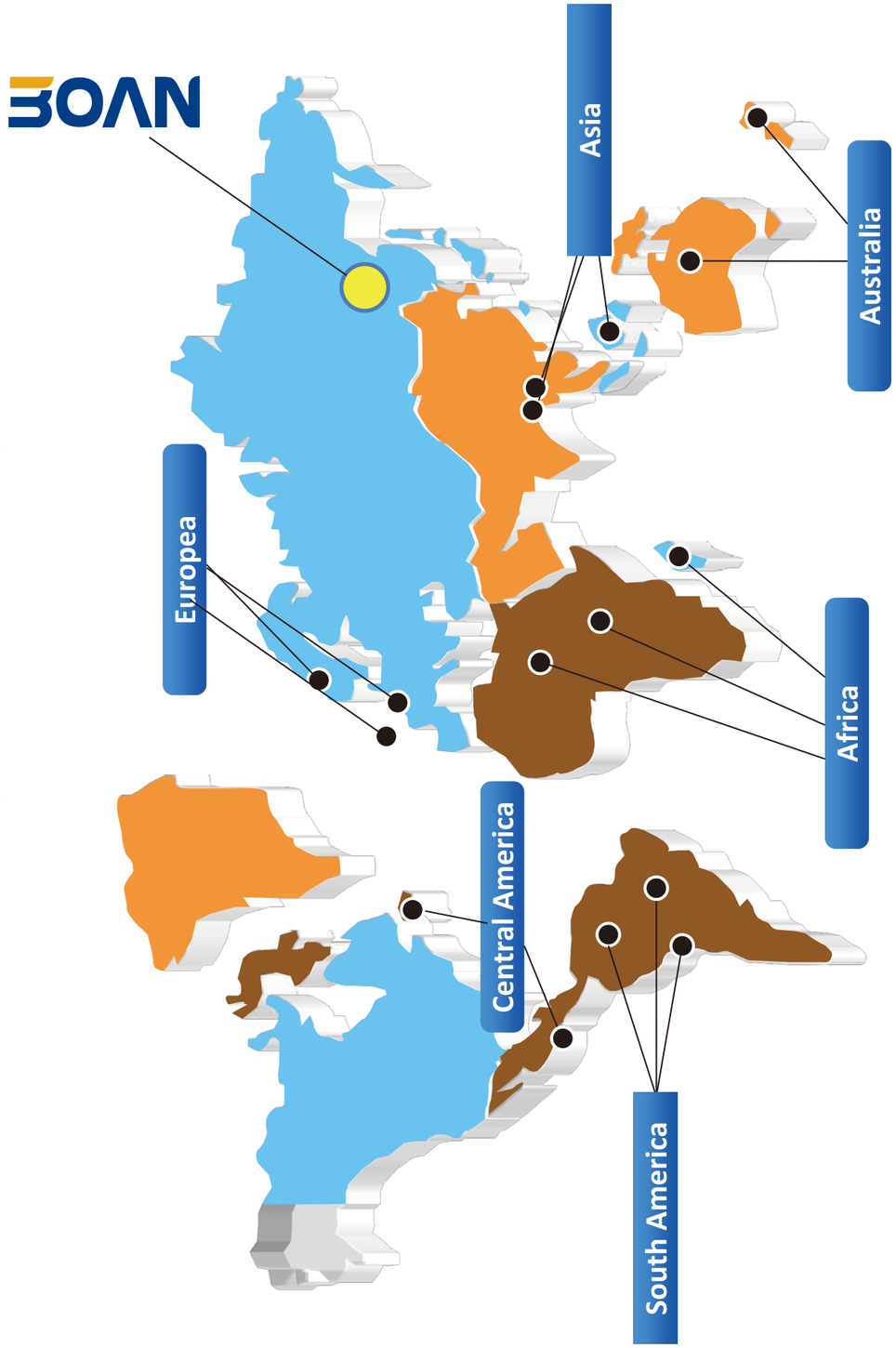
CERTIFICATES

SGS*

CCC

*Note: Please download Boan Cable's complete SGS report from official made-in-China website:
http://boancable.en.made-in-china.com/

GLOBAL MARETS



COMPANY VIEW

WORKSHOP

EQUIPMENT

PRODUCT CATALOGUE

PART I Bare Conductor

AAC Conductor

ACSR Conductor

Steel Wire Conductor

Copper Wire Conductor

All Aluminium Conductors (AAC)

Bare Conductors for Power Transmission

ASTM B 231 DIN 48 201-5 IEC 61089 BS 215-1 AS 1531 UNE 21018

Application

AAC conductor is widely used in power transmission lines with various voltage levels.

Since they have such good characteristics as simple structure, convenient installation and maintenance, low cost for the line, large transmission capacity and are also suitable for laying across rivers and valleys where special geographical teatures exist.

ASTM B 231/B 231M

① Conductor: 1350 Aluminium Wire

Code Name	Size	Stranding	Section	Overall Diameter	Conductor Weight	Rated Strength	Electrical Resistance
	AWG-MCM	No x Ømm	mm2	mm	kg/km	kN	DC.20°C Ω/km
PEACHBELL	6	7X1.55	13.21	4.65	36.6	2.5	1.1702
ROSE	4	7X1.96	21.12	5.88	58.3	3.92	1.3638
IRIS	2	7X2.47	33.54	7.41	92.7	6.01	0.857
PANSY	1	7X2.78	42.49	8.34	116.8	7.3	0.6801
POPPY	1/0	7X3.12	53.52	9.36	147.5	8.86	0.539
ASTER	2/0	7X3.50	67.34	10.5	185.9	11.17	0.4275
PHLOX	3/0	7X3.93	84.91	11.79	234.4	13.35	0.3392
OXLIP	4/0	7X4.42	107.4	13.26	295.6	17.05	0.2689
SNEEZEWORTH	250	7X4.80	127.6	14.4	349.3	20.12	0.2273
VALERIAN	250	17X2.91	126.4	14.55	349.3	20.74	0.2273
DAISY	266.8	7X4.96	135.3	14.88	327.8	21.5	0.2133
LAUREL	266.8	19X3.01	135.2	15.05	327.8	22.12	0.2133
PEONY	300	19X3.19	151.9	15.95	419.1	24.38	0.1897
TULIP	336.4	19X3.38	170.5	16.9	470	27.37	0.1691
DAFFODIL	350	19X3.45	177.6	17.25	489	28.45	0.1626
CANNA	397.5	19X3.68	202.1	18.4	55.4	31.64	0.1431
GOLDENTUFT	450	19X3.91	228.1	19.55	682.6	35.11	0.1264
COSMOS	477	19X4.02	241.2	20.1	666.4	37.2	0.1193
SYRINGA	477	37X2.88	241	20.16	666.4	38.67	0.1193
ZINNIA	500	19X4.12	253.3	20.6	698.6	38.98	0.1138
HYACINTH	500	37X2.95	252.9	20.65	698.6	40.54	0.1138
DAHLIA	556.5	19X4.35	282.4	21.75	777.4	43.39	0.1022
MISTLETOE	556.5	37X3.11	281.1	21.77	777.4	44.25	0.1022
MEADOWSWEET	600	37X3.23	303.2	22.61	838.1	47.62	0.09482
ORCHID	636	37X3.33	322.2	23.31	888.4	50.73	0.08947
HEUCHERA	650	37X3.37	330	23.59	908.1	51.84	0.08747
VERBANA	700	37X3.49	354	24.43	977.9	55.63	0.08123
FLAG	700	61X2.72	354.5	24.48	977.9	57,415	0.08123
VIOLET	715	37X3.53	362.1	24.71	999.6	56.96	0.07953
NASTURTIUM	715.5	61X2.75	362.35	24.73	999.6	58.3	0.07953
PETUNNIA	750	37X3.62	380.8	25.34	1.047.7	58.3	0.07587
CATTAIL	750	61X2.82	381	25.38	1.047.7	60.08	0.07585
ARBUTIUS	795	37X3.72	402.1	26.04	1.110.6	61.86	0.07156
ULAC	795	61X2.90	402.9	26.1	1.110.6	63.65	0.07156
FUCHSIA	800	37X3.75	408.7	26.25	1.115.2	62.3	0.07116
HELIOTROPE	800	61X2.92	408.7	26.28	1.115.2	64.08	0.07116
ANEMONE	874.5	37X3.91	444.3	27.37	1.221.8	66.75	0.06506

ASTM B 231/B 231M

Conductor: 1350 Aluminum Wire

Code Name	Size	Stranding	Section	Overall Diameter	Conductor Weight	Rated Strength	Electrical Resistance
	AWG-MCM	No x Ømm	mm2	mm	kg/km	kN	DC.20°C Ω/km
CROCUS	874.5	61X3.04	442.8	27.36	1221.8	70.31	0.06506
COCKCOMB	900	37X3.96	455.7	27.72	1257.4	68.53	0.06332
SNAPDRAGON	900	61X3.09	457.4	27.81	1257.4	70.76	0.06332
MAGNOLIA	954	37X4.08	483.7	28.56	1332.8	75,215	0.05965
GOLDENROD	954	61X3.18	484.5	28.62	1332.8	75,215	0.05965
HAWKWEED	1.000.0	37X4.17	505.3	29.19	1397	76.54	0.05689
CAMELLIA	1.000.0	61X3.25	506	29.25	1397	78.77	0.05689
BLUEBELL	1.033.5	37X4.24	522.4	29.68	1443.8	78.77	0.05505
LARKSPUR	1.035.5	61X3.31	524.9	29.79	1443.8	81.45	0.05505
MARIGOLD	1.272.0	61X3.43	563.6	30.87	1555.2	87.67	0.05112
HAWTHORN	1.192.5	61X3.55	603.8	31.95	1665.3	93.9	0.0477
NARCISSUS	1.272.0	61X3.67	645.3	33.03	1776.9	97.9	0.04472
COLUMBINE	1.351.5	61X3.78	684.5	34.02	1888.5	104.13	0.04209
CARNATION	1.431.0	61X3.89	725	35.01	1998.6	108.14	0.03976
GLADIOLUS	1.510.5	61X4.00	766.5	36	2110.3	113.92	0.03766
COREOPSIS	1.590.0	61X4.10	805.4	36.9	2222	120.15	0.03579
JESSANINE	1.750.0	61X4.30	885.8	38.7	2445.1	132.17	0.03251
COWSLIP	2.000.0	91X3.76	1.010.4	41.36	2793.3	152.19	0.02845
SAGEBRUSH	2.250.0	91X3.99	1.137.8	43.89	3174.3	167.77	0.02829
PIGWEED	2.300.0	61X4.93	1.164.4	44.37	3239.8	173.56	0.02473
LUPINE	2.500.0	91X4.21	1.266.8	46.31	3527	186.46	0.02298
BITTERROOT	2.750.0	91X4.41	1.390.0	48.51	3879.8	205.15	0.0207
TRILLIUM	3.000.0	127X3.90	1.517.0	50.7	4232.4	223.84	0.01915
BLUEBONNET	3.500.0	127X4.22	1.776.3	54.86	4985.4	261.22	0.01657

DIN 48 201-5

Conductor: Hard Drawn Aluminum Wire

Code Name	Stranding		Section	Overall Diameter	Conductor Weight	Rated Strength	Electrical Resistance	Current Carying Capacity
	No.	Ømm	mm2	mm	kg/km	kN	DC.20°C Ω / Km	A
16	7	1.70	15.89	5.1	44	2.84	1.8018	110
25	7	2.1	24.25	6.3	67	4.17	1.1808	145
35	7	2.5	34.46	7.5	94	5.74	0.8332	180
50	7	3	49.48	9	135	7.95	0.5786	225
50	19	1.8	48.36	9	133	8.44	0.595	225
70	19	2.1	65.82	10.5	181	11.25	0.4371	270
95	19	2.5	93.27	12.5	256	15.65	0.3085	340
120	19	2.8	117	14	322	18.75	0.2459	390
150	37	2.25	147.1	15.7	406	25.25	0.1961	455
185	37	2.5	181.6	17.5	501	30.45	0.1587	520
240	61	2.25	242.5	20.2	670	39.35	0.1192	625
300	61	2.5	299.4	22.5	827	47.55	0.0965	710
400	61	2.89	400.1	26	1,105	60.7	0.0722	855
500	61	3.23	499.8	29.1	1,381	74.5	0.0578	990
625	91	2.96	626.3	32.6	1,733	95	0.0462	1,140
800	91	3.35	802.1	36.8	2,219	118.2	0.0361	1,340
1000	91	3.74	999.7	41.1	2,766	145.5	0.029	1,540

IEC 61089

Conductor: Hard Drawn Aluminum Wire A1

Code Name	Stranding		Section	Overall Diameter	Conductor Weight	Rated strength	Electrical Resistance
	No.	Ømm	mm2	mm	kg/km	kN	DC.20°C Ω / Km
10	7	1.35	10	4.05	27.4	1.95	2.8633
16	7	1.71	16	5.12	43.8	3.04	1.7896
25	7	2.13	25	6.40	68.4	4.50	1.1453
40	7	2.70	40	8.09	109.4	6.80	0.7158
63	7	3.39	63	10.2	172.3	10.39	0.4545
100	19	2.59	100	12.9	274.8	17.00	0.2877
125	19	2.89	125	14.5	343.6	21.25	0.2302
160	19	3.27	160	16.4	439.8	26.40	0.1798
200	19	3.66	200	18.3	549.7	32.00	0.1439
250	19	4.09	250	20.5	687.1	40.00	0.1151
315	37	3.29	315	23.0	867.9	51.97	0.0916
400	37	3.71	400	26.0	1102.0	64.00	0.0721
450	37	3.94	450	27.5	1239.8	72.00	0.0641
500	37	4.15	500	29.0	1377.6	80.00	0.0577
560	37	4.39	560	30.7	1542.9	89.60	0.0515
630	61	3.63	630	32.6	1738.3	100.80	0.0458
710	61	3.85	710	34.6	1959.1	114.60	0.0407
800	61	4.09	800	36.8	2207.4	128.00	0.0361
900	61	4.33	900	39.0	2483.3	144.00	0.0321
1000	61	4.57	1000	41.1	2759.2	160.00	0.0289
1120	91	3.96	1120	43.5	3093.5	179.20	0.0258
1250	91	4.18	1250	46.0	3452.6	200.00	0.0231
1400	91	4.43	1400	48.7	3866.9	224.00	0.0207
1500	91	4.58	1500	50.4	4143.1	240.00	0.0193

BS 215-1

Conductor: Hard Drawn Aluminum Wire

Code Name	Stranding		Section	Overall Diameter	Conductor Weight	Rated strength	Electrical Resistance
	No.	Ømm	mm2	mm	kg/km	kN	DC.20°C Ω/km
MIDGE	7	2.06	23.3	6.18	63.8	4.20	1.2449
GNAT	7	2.21	26.9	6.63	73.4	4.83	1.0643
MOSQUITO	7	2.59	36.9	7.77	100.8	6.27	0.7749
LADYBIRD	7	2.79	42.8	8.37	117.0	7.28	0.6678
ANT	7	3.10	52.8	9.30	144.4	8.72	0.5409
FLY	7	3.40	63.6	10.2	173.7	10.49	0.4497
BLUEBOTTLE	7	3.66	73.6	11.0	201.3	11.78	0.3880
EARWIG	7	3.78	78.6	11.3	214.7	12.57	0.3638
GRASSHOPPER	7	3.91	84.1	11.7	229.7	13.45	0.3400
CLEGG	7	4.17	95.6	12.5	261.3	15.30	0.2989
WASP	7	4.39	106.0	13.2	289.6	16.95	0.2697
BEETLE	19	2.67	106.4	13.4	292.4	18.08	0.2701
BEE	7	4.90	132.0	14.7	360.8	21.12	0.2165
HORNET	19	3.25	157.6	16.3	433.2	26.01	0.1823
CATERPILLAR	19	3.53	185.9	17.7	511.1	29.75	0.1546
CHAFER	19	3.78	213.2	18.9	586.0	34.12	0.1348
SPIDER	19	3.99	237.6	20.0	652.9	38.01	0.1210
COCKROACH	19	4.22	265.7	21.1	730.4	42.52	0.1081
BUTTERFLY	19	4.65	322.7	23.3	886.8	51.63	0.0891
MOTH	19	5.00	373.1	25.0	1025.3	59.69	0.0770
DRONE	37	3.58	372.4	25.1	1027.1	59.59	0.0774
CENTIPEDE	37	3.78	415.2	26.5	1145.1	66.43	0.0695
MAYBUG	37	4.09	486.1	28.6	1340.6	77.78	0.0593
SCORPION	37	4.27	529.8	29.9	1461.2	84.77	0.0544
CICADA	37	4.65	628.3	32.6	1732.9	100.54	0.0459

AS 1531

Conductor: Aluminum 1350 Wire

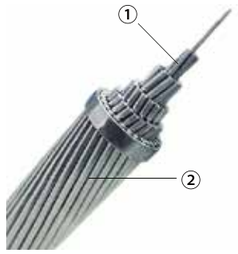
Code Name	Stranding		Section	Overall Diameter	Conductor Weight	Rated strength	Electrical Resistance
	No.	Ømm	mm2	mm	kg/km	kN	DC.20°C Ω / Km
Leo	7	2.50	34.36	7.5	94.3	5.71	0.833
Leonids	7	2.75	41.58	8.25	113	6.72	0.689
Libra	7	3.00	49.48	9.0	135	7.98	0.579
Mars	7	3.75	77.28	11.3	211	11.8	0.370
Mercury	7	4.50	111.3	13.5	304	16.9	0.258
Moon	7	4.75	124.0	14.3	339	18.9	0.232
Neptune	19	3.25	157.6	16.3	433	24.7	0.183
Orion	19	3.50	182.8	17.5	503	28.7	0.157
Pluto	19	3.75	209.8	18.8	576	31.9	0.137
Saturn	37	3.00	261.6	21.0	721	42.2	0.110
Sirius	37	3.25	307.0	22.8	845	48.2	0.094
Taurus	19	4.75	336.7	23.8	924	51.3	0.0857
Triton	37	3.75	408.5	26.3	1120	62.2	0.0706
Uranus	61	3.25	506.1	29.3	1400	75.2	0.0572
Ursula	61	3.50	586.9	31.5	1620	87.3	0.0493
Venus	61	3.75	673.4	33.8	1860	97.2	0.0429

UNE 21018

Conductor: Hard Drawn Aluminum Wire

Code Name	Stranding		Section	Overall Diameter	Conductor Weight	Rated strength	Electrical Resistance
	No.	Ømm	mm2	mm	kg/km	kN	DC.20°C Ω / Km
L 28	7	2.25	27.8	6.75	76.2	5	1.0285
L 40	7	2.8	43.1	8.4	118	7.3	0.6641
L 56	7	3.15	54.6	9.45	149.3	9	0.5247
L 80	19	2.25	75.5	11.25	208	13.6	0.3807
L 110	19	2.8	117	14	322	19.7	0.2458
L 145	19	3.15	148.1	15.75	407	24.5	0.1942
L 180	19	3.55	188.1	17.75	517	30.4	0.1529
L 280	37	3.1	279.3	21.7	770	46.1	0.1032
L 400	61	2.82	381	25.38	1053	64.2	0.0758
L 450	61	3.08	454.5	27.72	1256	75.5	0.0635
L 550	61	3.38	547.3	30.42	1512	89.7	0.0527
L 630	61	3.65	638.3	32.85	1763	103.5	0.0452

Aluminum Conductors Steel Reinforced (ACSR)



Bare Conductors for Power Transmission

BS 215-2/ BS EN 50182 ASTM-B 232/B 232M AS 3607 IEC 61089 DIN 48204 NF C 34-120 UNE 21018

Application

ACSR have been widely used in power transmission lines with various voltage levels, because they have such good characteristics as simple structure, convenient installation and maintenance, low cost large transmission capacity. And they are also suitable for laying across rivers valleys and the places where special geographical features exist.

BS 215-2/BS EN 50182

① Conductor: Steel Wire
② Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C Ω/km
	No./Ømm						
MOLE	6/1.50	1/1.50	4.50	12.37	42.8	4.14	2.7027
SQUIRREL	6/2.11	1/2.11	6.33	24.50	84.7	7.87	1.3659
GOPHER	6/2.36	1/2.36	7.08	30.57	106.0	9.58	1.0919
WEASEL	6/2.59	1/2.59	7.77	36.87	127.6	11.38	0.9065
FOX	6/2.79	1/2.79	8.37	42.81	148.1	13.21	0.7812
FERRET	6/3.00	1/3.00	9.00	49.47	171.2	15.27	0.6757
RABBIT	6/3.35	1/3.35	10.1	61.71	213.5	18.42	0.5419
MINK	6/3.66	1/3.66	11.0	73.6	254.9	21.67	0.4540
SKUNK	12/2.59	7/2.59	13.0	100.1	463.0	52.79	0.4568
BEAVER	6/3.99	1/3.99	12.0	87.5	302.9	25.76	0.3820
HORSE	12/2.79	7/2.79	14.0	116.2	537.3	61.26	0.3936
RACOON	6/4.09	1/4.09	12.3	91.9	318.3	27.06	0.3635
OTTER	6/4.22	1/4.22	12.7	97.9	338.8	28.81	0.3415
CAT	6/4.50	1/4.50	13.5	111.3	385.3	32.76	0.3003
HARE	6/4.72	1/4.72	14.2	122.5	423.8	36.04	0.2730
DOG	6/4.72	7/1.57	14.2	118.6	394.0	32.65	0.2733
COYOTE	26/2.54	7/1.91	15.9	151.8	520.7	45.86	0.2192
COUGAR	18/3.05	1/3.05	15.3	138.81	418.8	29.74	0.2188
TIGER	30/2.36	7/2.36	16.5	161.8	602.2	57.87	0.2202
WOLF	30/2.59	7/2.59	18.1	195	725.3	68.91	0.1829
DINGO	18/3.35	1/3.35	16.8	167.51	505.2	35.87	0.1814
LYNX	30/2.79	7/2.79	19.5	226.2	841.6	79.97	0.1576
CARACAL	18/3.61	1/3.61	18.1	194.4	586.7	40.74	0.1562
PANTHER	30/3.00	7/3.00	21.0	261.6	973.1	92.46	0.1363
JAGUAR	18/3.86	1/3.86	19.3	222.3	670.8	46.57	0.1366
LION	30/3.18	7/3.18	22.3	293.9	1093.4	100.47	0.1213
BEAR	30/3.35	7/3.35	23.5	326.1	1213.4	111.50	0.1093
GOAT	30/3.71	7/3.71	26.0	400	1488.2	135.13	0.0891
SHEEP	30/3.99	7/3.99	27.9	462.6	1721.3	156.30	0.0771
ANTELOPE	54/2.97	7/2.97	26.7	422.6	1413.8	118.88	0.0773
BISON	54/3.00	7/3.00	27.0	431.2	1442.5	121.30	0.0758
DEER	30/4.27	7/4.27	29.9	529.8	1971.4	179.00	0.0673
ZEBRA	54/3.18	7/3.18	28.6	484.5	1620.8	131.92	0.0674
ELK	30/4.50	7/4.50	31.5	588.4	2189.5	198.80	0.0606
CAMEL	54/3.35	7/3.35	30.2	537.7	1798.8	146.40	0.0608
MOOSE	54/3.53	7/3.53	31.8	597	1997.3	159.92	0.0547
KEZIAH	30/2.79	7/2.79	19.5	226.2	841.6	102.89	0.1740

ASTM-B 232/B 232M

Conductor: Zinc-coated Steel Wire
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
TURKEY	6/1.68	1/1.68	15.52	5.04	53.8	5.295	2.1135
SWAN	6/2.12	1/2.12	24.71	6.36	85.4	8.28	1.3278
SWANATE	7/1.96	1/2.61	26.47	6.53	99.7	10.5	1.1313
SPARROW	6/2.67	1/2.67	39.2	8.01	135.9	12.68	0.8343
SPARATE	7/2.47	1/3.30	42.09	5.24	163.4	6.2	0.8251
ROBIN	6/3.00	1/3.00	49.48	9	171.4	15.8	0.6621
RAVEN	6/3.37	1/3.37	62.44	10.11	216.1	19.49	0.5243
QUAIL	6/3.78	1/3.78	78.55	11.34	272.5	23.63	0.416
PIGEON	6/4.25	1/4.25	99.31	12.75	343.5	29.46	0.3304
PENGUIN	6/4.77	1/4.77	125.09	14.31	433.2	37.16	0.2618
WAXWING	18/3.09	1/3.09	142.5	15.45	431.6	30.62	0.2119
PARTRIDGE	26/2.57	7/2.00	156.9	16.28	546.1	50.28	0.21
ORSTRICH	26/2.73	7/2.12	176.9	17.28	614.6	56.52	0.1867
MERLIN	18/3.47	1/3.47	179.7	17.35	543.2	38.36	0.168
LINNET	26/2.89	7/2.25	198.4	18.31	689.0	62.75	0.1663
ORIOLE	30/2.69	7/2.69	210.3	18.83	784.3	76.98	0.1654
CHICKADEE	18/3.77	1/3.77	212.1	18.85	642.9	44.23	0.1221
BRANT	24/3.27	7/2.18	227.7	19.62	762.0	64.97	0.1417
IBIS	26/3.14	7/2.44	234	19.88	814.0	72.53	0.1411
LARK	30/2.92	7/2.92	247.8	20.44	927.1	90.3	0.1401
PALICAN	18/4.14	1/4.14	255.8	20.7	770.9	52.51	0.1184
FLICKER	26/3.58	7/2.39	273	21.19	915.2	76.54	0.1178
HAWK	26/3.44	7/2.67	280.8	21.77	977.7	86.77	0.1171
HEN	30/3.20	7/3.20	297.6	22.4	1,111.7	105.91	0.1165
OSPREY	18/4.47	1/4.47	298.2	22.35	898.9	60.96	0.1014
PARAKEET	24/3.87	7/2.58	318.9	23.22	1,067.0	88.11	0.101
DOVE	26/3.72	7/2.89	328.5	23.55	1,140.0	105.57	0.1007
EAGLE	27/3.30	7/3.46	347.9	24.27	1,497.7	123.71	0.1001
PEACOCK	24/4.03	7/2.65	345.9	24.19	1,160.8	96.12	0.09285
SQUAB	26/3.87	7/3.01	355.6	24.51	1,239.7	108.13	0.09252
WOODDUCK	30/3.61	7/3.61	378.8	25.27	1,410.8	128.6	0.03186
TEAL	30/3.61	19/2.16	376.1	25.24	1,398.9	135.5	0.09186
KINGBIRD	18/4.78	1/4.78	340.9	23.9	1,026.9	69.86	0.08891
ROOK	24/4.14	7/2.76	365	24.84	1,281.8	97.9	0.08825
GROSBEAK	26/3.97	7/3.09	321.8	9270	892.6	1.302.2	0.11214
SCOTER	30/3.70	7/3.70	397.9	25.9	1,477.8	135.27	0.0876
EGRET	30/3.70	19/2.22	396.1	25.9	1,470.3	140.17	0.0876
SWIFT	36/3.38	1/3.38	332	23.66	958.4	61.41	0.08924
FLAMINGO	24/4.23	7/2.82	381	25.38	1,276.9	105.46	0.08432
GANNET	26/4.07	7/3.16	393.2	25.76	1,364.7	117.48	0.08399
STILT	24/4.39	7/2.92	410.2	26.32	369.1	113.47	0.07841
STARLING	26/4.21	7/3.28	421	26.68	462.9	126.37	0.07808
REDWING	30/3.92	19/2.35	444.5	27.43	647.4	153.96	0.07776
CUCKOO	24/4.62	7/3.08	454.5	27.72	408.5	124.15	0.07087
DRAKE	26/4.44	7/3.45	468	28.11	514.2	140.17	0.07054
COOT	36/3.77	1/3.77	413.1	26.39	89.1	74.76	0.07152
TERN	45/3.38	7/2.25	431.6	27.03	218.5	98.34	0.07119
CONDOR	54/3.08	7/3.08	454.5	27.72	409.0	125.48	0.07054
MALLARD	30/4.14	19/2.48	495.6	28.96	721.0	170.87	0.06988
RUDDY	45/3.59	7/2.40	487.2	28.74	248.8	108.58	0.06234
CANARY	54/3.28	7/3.28	515.4	29.52	463.1	141.95	0.06234
CATBIRD	36/4.14	1/4.14	498.1	28.98	105.9	88.11	0.05971
RAIL	45/3.70	7/2.47	517.3	29.61	262.1	115.25	0.05938
CARDINAL	54/3.38	7/3.38	547.3	30.42	491.3	150.4	0.05906
TANAGER	36/4.30	1/4.30	537.3	30.1	115.0	95.23	0.05577
ORTOLAN	45/3.85	7/2.57	560.2	30.81	284.2	123.26	0.05479

ASTM-B 232/B 232M II

Conductor: Zinc-coated Steel Wire
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
CURLEVV	54/3.52	7/3.52	593.6	31.68	530.5	162.86	0.05446
BLUEJAY	45/4.0	7/2.66	604.4	31.98	307.3	132.6	0.05085
FINCH	54/3.65	19/2.19	636.6	32.85	561.2	174	0.05085
BUNTING	45/4.14	7/2.76	647.7	33.12	327.8	142.4	0.04757
GRACKLE	54/3.77	19/2.27	679.7	33.97	602.2	186.45	0.04724
SKYLARK	36/4.78	1/4.78	664	33.46	142.6	117.48	0.04462
BITTERN	45/4.27	7/2.85	489.1	34.17	386.9	151.74	0.04462
PHEASANT	54/3.90	19/2.34	726.8	35.1	642.3	199.96	0.04429
DIPPERF	45/4.40	7/2.93	731.4	35.19	370.4	161.08	0.04199
MARTIN	54/4.02	19/2.41	772.1	36.17	680.9	206.03	0.04167
BOBOLINK	45/4.53	7/3.02	775.4	36.24	393.4	170.43	0.0397
PLOVER	54/4.14	19/2.48	818.7	37.24	721.3	218.48	0.03937
NUTHATCH	45/4.65	7/3.10	817	37.2	415.0	178.44	0.0374
PARROT	54/4.25	19/2.55	863.1	38.25	761.2	230.05	0.0374
LAPWING	45/4.78	7/3.18	863.1	38.22	437.0	187.78	0.03576
FALCON	54/4.36	19/2.62	908.6	39.26	802.1	242.51	0.03543
CHUKAR	84/3.70	19/2.22	976.7	42.7	579.0	226.94	0.03182
BLUEBIRD	84/4.07	19/2.44	1.181.6	44.76	700.8	268.32	0.02628
KIWI	72/4.41	7/2.94	1.147.3	44.1	374.4	221.6	0.02628
THRASHER	76/4.43	19/2.07	1.235.3	45.79	502.0	252.3	0.02461
GROUSE	8/2.54	1/4.24	54.66	9.32	221.7	23140	0.6798
PETREL	12/2.34	7/2.34	81.71	11.7	378.1	42280	0.5217
MINORCA	12/2.44	7/2.44	88.84	12.2	411.6	50280	0.4793
LEGHORN	12/2.69	7/2.69	108	13.45	500.0	60520	0.3947
GUINEA	12/2.92	7/2.92	127.23	14.6	590.5	68080	0.334
DOTTEREL	12/3.08	7/3.08	141.56	15.4	656.8	76980	0.3002
DORKING	12/3.20	12/3.20	152.81	16	708.8	0.2782	0.2782
BRAHMA	16/2.86	19/2.48	194.57	18.12	1007.2	0.252	0.252
COCHIN	12/3.37	7/3.37	169.47	16.85	785	0.2513	0.2513

AS 3607

Conductor: Zinc-coated Steel Wire (King Wire Included)
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
Almond	6/2.50	1/2.50	7.5	34.4	119	10.5	0.975
Apricot	6/2.75	1/2.75	8.3	41.6	144	12.6	0.805
Apple	6/3.00	1/3.00	9.0	49.5	171	14.9	0.677
Banana	6/3.75	1/3.75	11.3	77.3	268	22.7	0.433
Cherry	6/4.75	7/1.60	14.3	120	402	33.4	0.271
Grape	30/2.50	7/2.50	17.5	182	677	63.5	0.196
Lemon	30/3.00	7/3.00	21.0	262	973	90.4	0.136
Lychee	30/3.25	7/3.25	22.8	307	1140	105	0.116
Lime	30/3.50	7/3.50	24.5	356	1320	122	0.100
Mango	54/3.00	7/3.00	27.0	431	1440	119	0.0758
Orange	54/3.25	7/3.25	29.3	506	1690	137	0.0646
Olive	54/3.50	7/3.50	31.5	587	1960	159	0.0557
Pawpaw	54/3.75	19/2.25	33.8	672	2240	178	0.0485
Quince	3/1.75	4/1.75	5.3	16.8	95	12.7	3.25
Raisin	3/2.50	4/2.50	7.5	34.4	195	24.4	1.59
Sultana	4/3.00	3/3.00	9.0	49.5	243	28.3	0.897
Walnut	4/3.75	3/3.75	11.3	77.3	380	43.9	0.573

IEC 61089

Conductor: Zinc-coated Steel Wire
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
16	6/1.84	1/1.84	5.53	18.7	64.6	6.08	1.7934
25	6/2.3	1/2.3	6.91	29.2	100.9	9.13	1.1478
40	6/2.91	1/2.91	8.74	46.7	161.5	14.4	0.7174
63	6/3.66	1/3.66	11	73.5	254.4	21.63	0.4555
100	6/4.61	1/4.61	13.8	117	403.8	34.33	0.2869
125	18/2.97	1/2.97	14.9	132	397.9	29.17	0.2304
125	26/2.47	7/1.92	15.7	145	503.9	45.69	0.231
160	18/3.36	1/3.36	16.8	169	508.3	36.18	0.18
160	26/2.8	7/2.18	17.7	186	644.9	57.69	0.1805
200	18/3.76	1/3.76	18.8	211	636.7	44.22	0.144
200	26/3.13	7/2.43	19.8	233	806.2	70.13	0.1444
250	22/3.8	7/2.11	21.6	275	880.6	68.72	0.1154
250	26/3.5	7/2.72	22.2	291	1007.7	87.67	0.1155
315	45/2.99	7/1.99	23.9	337	1039.6	79.03	0.0917
315	26/3.93	7/3.05	24.9	366	1269.7	106.83	0.0917
400	45/3.36	7/2.24	26.9	428	1320.1	98.36	0.0722
400	54/3.07	7/3.07	27.6	452	1510.3	123.04	0.0723
450	45/3.57	7/2.38	28.5	481	1485.2	107.47	0.0642
450	54/3.26	7/3.26	29.3	508	1699.1	138.42	0.0643
500	45/3.76	7/2.51	30.1	535	1650.2	119.41	0.0578
500	54/3.43	7/3.43	30.9	565	1887.9	153.8	0.0578
560	45/3.98	7/2.65	31.8	599	1848.2	133.74	0.0516
560	54/3.63	19/2.18	32.7	631	2103.4	172.59	0.0516
630	45/4.22	7/2.81	33.8	674	2079.2	150.45	0.0459
630	54/3.85	19/2.31	34.7	710	2366.3	191.77	0.0459
710	45/4.48	7/2.99	35.9	759	2343.2	169.56	0.0407
710	54/4.09	19/2.45	36.8	800	2666.8	216.12	0.0407
800	72/3.76	7/2.51	37.6	835	2480.2	167.41	0.0361
800	84/3.48	7/3.48	38.3	867	2732.7	205.33	0.0362
800	54/4.34	19/2.61	39.1	901	3004.9	243.52	0.0362
900	72/3.99	7/2.66	39.9	939	2790.2	188.33	0.0321
900	84/3.69	7/3.69	40.6	975	3074.2	226.50	0.0322
1000	72/4.21	7/2.8	42.1	1043	3100.3	209.26	0.0289
1120	72/4.45	19/1.78	44.5	1167	3464.9	234.53	0.0258
1120	84/4.12	19/2.47	45.3	1211	3811.5	283.17	0.0258
1250	84/4.35	19/2.61	47.9	1352	4253.9	316.04	0.0232
1250	72/4.7	19/1.88	47	1303	3867.1	261.75	0.0231

DIN 48204

Conductor: Zinc-coated Steel Wire
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
16/2.5	6/1.80	1/1.80	5.40	17.85	62	5,950	1.8792
25/4	6/2.25	1/2.25	6.80	27.8	97	9,200	1.2027
35/6	6/2.70	1/2.70	8.10	40	140	12,650	0.8353
44/32	14/2.00	7/2.40	11.20	75.7	372	45,000	0.6566
50/8	6/3.20	1/3.20	9.60	56.3	196	17,100	0.5946
50/30	12/2.33	7/2.33	11.70	81	378	43,800	0.5644
70/12	26/1.85	7/1.44	11.70	81.3	284	26,800	0.413
95/15	26/2.15	7/1.67	13.60	109.7	383	35,750	0.3058
95/55	12/3.20	7/3.20	16.00	152.8	712	79,350	0.2992
105/75	14/3.10	19/2.25	17.50	181.5	891	108,450	0.2733
120/20	26/2.44	7/1.90	15.50	141.4	494	45,650	0.2374
120/70	12/3.60	7/3.60	18.00	193.3	901	100,000	0.2364
125/30	30/2.33	7/2.33	16.10	157.7	591	57,600	0.2259
150/25	26/2.70	7/2.10	17.10	173.1	605	55,250	0.1939
170/40	30/2.70	7/2.70	18.90	211.9	794	76,750	0.1682
185/30	26/3.00	7/2.33	19.00	213.6	746	66,200	0.1571
210/35	26/3.20	7/2.49	20.30	243.2	850	74,900	0.138
210/50	30/3.00	7/3.00	21.00	261.6	981	93,900	0.1363
230/30	24/3.50	7/2.33	21.00	260.7	877	73,100	0.1249
240/40	26/3.45	7/2.68	21.90	282.5	987	86,400	0.1188
265/35	24/3.74	7/2.49	22.40	297.8	1002	83,050	0.1117
300/50	26/3.86	7/3.00	24.50	353.7	1236	107,000	0.0949
305/40	54/2.68	7/2.68	24.10	344.1	1160	99,400	0.0949
340/30	48/3.00	7/2.33	25.00	369.1	1180	92,900	0.0853
380/50	54/3.00	7/3.00	27.00	431.5	1453	123,100	0.0757
385/35	48/3.20	7/2.49	26.70	420.1	1344	104,800	0.0749
435/55	54/3.20	7/3.20	28.80	490.6	1653	136,450	0.0666
450/40	48/3.45	7/2.68	28.70	488.2	1561	120,750	0.0644
490/65	54/3.40	7/3.40	30.60	553.9	1866	153,100	0.059
495/35	45/3.74	7/2.49	29.90	528.2	1616	121,800	0.0585
510/45	48/3.68	7/2.87	30.70	555.5	1778	136,650	0.0565
550/70	54/3.60	7/3.60	32.40	621.3	2092	170,600	0.0526
560/50	48/3.86	7/3.00	32.20	611.2	1954	148,950	0.0515
570/40	45/4.02	7/2.68	32.20	610.7	1888	136,200	0.0512
650/45	45/4.30	7/2.87	34.00	698.8	2171	155,500	0.0458
680/85	54/4.00	19/2.40	36.00	764.6	2566	206,250	0.0426
1.045/45	72/4.30	7/2.87	43.00	1.090.9	3251	217,600	0.0277

NF C 34-120

Conductor: Zinc-coated Steel Wire
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
CANNA 37.7	9/2.00	3/2.00	8.3	37.69	155	15.4	1.02
CANNA 59.7	12/2.00	7/2.00	10	59.69	276	30.5	0.765
CANNA 75.5	12/2.25	7/2.25	11.25	75.54	348	38.4	0.605
CANNA 116.2	30/2.00	7/2.00	14	116.24	432	41.45	0.306
CANNA 116.2	30/2.00	7/2.00	14	116.24	432	47.4	0.306
CANNA 147.1	30/2.25	7/2.25	15.75	147.11	547	52.6	0.243
CANNA 147.1	30/2.25	7/2.25	15.75	147.11	547	59.5	0.243
CANNA 181.6	30/2.50	7/2.50	17.5	181.62	675	62.6	0.197
CANNA 181.6	30/2.50	7/2.50	17.5	181.62	675	72.9	0.197
CANNA 228.0	30/2.80	7/2.80	19.6	227.82	848	77.1	0.157
CANNA 228.0	30/2.80	7/2.80	19.6	227.82	848	90	0.157
CANNA 288.0	30/3.15	7/3.15	22.05	288.35	1.074	96.9	0.1225
CANNA 288.0	30/3.15	7/3.15	22.05	288.35	1.074	113.2	0.1225
CANNA 297.0	36/2.80	19/2.25	22.45	297.21	1.218	139.5	0.1305
CANNA 412.0	32/3.60	19/2.40	26.4	411.67	1.593	169.6	0.0898
CANNA 612.0	66/3.13	19/2.65	32.2	612.62	2.241	231.5	0.0566
CANNA 865.0	66/3.72	19/3.15	38.1	865.39	3.174	319	0.0405

UNE 21018

Conductor: Zinc-coated Steel Wire
Aluminum 1350 Wire

Code Name	Stranding		Overall Diameter	Section	Conductor Weight	Rated Strength	Electrical Resistance
	Aluminium	Steel	mm	mm2	kg/km	kN	DC.20°C
	No./Ømm						Ω/km
LA- 30	6/2.38	1/2.38	7.14	31.1	107.9	9.9	1.0794
LA- 56	6/3.15	1/3.15	9.45	54.6	189.1	16.4	0.6136
LA- 78	6/3.78	1/3.78	11.34	78.6	272	23.1	0.4261
LA-110	30/2.00	7/2.00	14	116.2	433	43.1	0.3066
LA-145	30/2.25	7/2.25	15.75	147.1	548	54.1	0.2422
LA-180	30/2.50	7/2.50	17.5	181.6	676	63.9	0.1962
LA-280	26/3.44	7/2.68	21.8	281.1	977	84.5	0.1194
LA-380	54/2.82	7/2.82	25.38	381	1.275.0	106.5	0.0857
LA-455	54/3.08	7/3.08	27.72	454.5	1.521.0	124	0.0718
LA-545	54/3.38	7/3.38	30.42	547.3	1.832.0	148.5	0.0596
LA-635	54/3.65	19/2.19	32.85	636.6	2.125.0	175	0.0511

Stranded Steel Wire Conductor

Bare Conductors for Power Transmission

ASTM A 475 **YB/T 5004/JIS G 3537** **AS 1222.1** **BS 183**
IEC 60888

Application

Used as overhead ground wire or static wire on transmission lines, as pole or structure guy wires, and as messenger cable, fields and pastures division, animal containment.

ASTM A 475

① Conductor: Zinc-coated Steel Wire

Construction	Diameter of Wire	Overall Deameter	Section	Conductor Weight	Min. Breaking Load
	mm	mm	mm2	kg/km	High Strength Grade
					kN
1*7	1.04	3.12	5.9	47	5.916
1*7	1.32	3.96	9.6	76	9.519
1*7	1.57	4.71	13.6	107	12.677
1*3	2.64	5.69	16.4	131	15.569
1*7	1.83	5.49	18.4	146	17.126
1*3	3.05	6.57	21.9	174	21.04
1*7	2.03	6.09	22.7	180	21.129
1*3	3.3	7.11	25.7	204	23.398
1*7	2.36	7.08	30.6	243	28.469
1*3	3.68	7.93	31.9	254	28.246
1*7	2.64	7.92	38.3	304	35.586
1*3	4.19	9.03	41.4	329	37.187
1*7	3.05	9.15	51.1	405	48.04
1*7	3.68	11.04	74.5	590	64.499
1*7	4.19	12.57	96.5	765	83.627
1*19	2.54	12.70	96.3	765	84.961
1*7	4.78	14.34	125.6	996	108.981
1*19	2.87	14.35	122.9	976	107.202
1*7	5.26	15.78	152.1	1,206	131.667
1*19	3.18	15.90	150.9	1,198	124.995
1*19	3.81	19.05	216.6	1,720	181.487
1*19	4.5	22.50	302.2	2,400	248.211
1*19	5.08	25.40	385.1	3,058	325.61
1*37	3.63	25.41	382.9	3,042	319.827
1*37	4.09	28.63	486.1	3,862	407.457
1*37	4.55	31.85	601.6	4,780	505.318

YB/T 5004/JIS G 3537

Conductor: Galvanized Steel Wire

Construction	Diameter of Wire	Overall Deameter	Section	Conductor Weight	Min. Breaking Load
	mm	mm	mm2	kg/km	kN
1*3	2.90	6.2	19.82	164.9	23.10
	3.20	6.4	24.13	200.9	28.10
	3.50	7.5	28.86	240.3	33.70
	4.00	8.3	37.70	313.8	44.00
1*7	1.00	3.0	5.50	45.8	6.42
	1.10	3.3	6.65	55.4	7.77
	1.20	3.6	7.92	65.9	9.25
	1.30	3.9	9.29	77.3	10.80
	1.40	4.2	10.78	89.7	12.50
	1.50	4.5	12.37	103	14.40
	1.60	4.8	14.07	117.1	16.40
	1.70	5.1	15.89	132.3	18.50
	1.80	5.4	17.81	148.3	20.80
	2.00	6.0	21.99	183.1	25.60
	2.20	6.7	26.61	221.5	31.00
	2.40	7.2	31.67	263.6	37.00
	2.60	7.8	37.16	309.3	43.40
	2.80	8.4	43.10	358.8	50.30
	3.00	9.0	49.48	411.9	57.80
	3.20	9.6	56.30	168.7	65.70
	3.50	10.5	67.35	560.7	78.60
	3.80	11.4	79.39	660.9	92.70
	4.00	12.0	87.96	732.2	102.00
1*19	1.00	5.0	14.92	124.2	17.00
	1.10	5.5	18.06	150.3	20.60
	1.20	6.0	21.49	178.9	24.50
	1.30	6.5	25.22	209.9	28.80
	1.40	7.0	29.25	243.5	33.40
	1.60	8.0	38.20	318	43.60
	1.80	9.0	48.35	402.5	55.20
	2.00	10.0	59.69	496.9	68.20
	2.20	11.0	72.22	601.2	82.50
	2.40	12.0	85.95	715.5	98.20
	2.50	12.5	93.27	776.4	106.00
	2.60	13.0	100.88	839.8	1145.00
	2.80	14.0	116.99	973.9	133.00
	3.00	15.0	134.30	1188	152.00
	3.20	16.0	152.81	1272.1	174.00
	3.50	17.5	182.80	1520.17	208.00
	4.00	20.0	238.76	1987.6	272.00
1*37	1.00	7.0	29.06	241.9	31.30
	1.10	7.7	35.16	292.7	37.90
	1.30	9.1	49.11	408.8	53.00
	1.40	9.8	56.96	474.2	61.40
	1.60	11.2	74.39	619.2	80.30
	1.80	12.6	94.15	783.8	101.00
	2.00	14.0	116.24	967.6	125.00
	2.20	15.5	140.65	1170.8	151.00
	2.40	16.8	167.38	1393.4	180.00
	2.50	17.5	181.62	1511.9	196.00
	2.60	18.2	196.44	1635.3	212.00
	2.80	19.6	227.83	1896.6	245.00
	3.00	21.0	261.54	2177.2	282.00
	3.20	22.4	297.57	2477.2	321.00
	3.50	24.5	355.98	2963.4	384.00
	4.00	28.0	464.95	3870.6	501.00

AS 1222.1

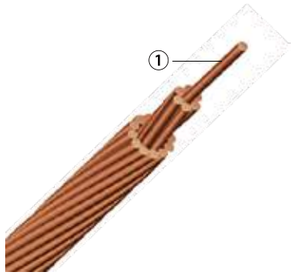
Conductor: Galvanized Steel Wire

Construction	Diameter of Wire	Overall Deameter	Section	Conductor Weight	Min. Breaking Load
	mm	mm	mm2	kg/km	kN
1*3	2	4.31	9.426	74	11.7
1*3	2.75	5.93	17.82	140	26.2
1*7	2	6.00	21.99	173	26.0
1*3	2.75	8.25	41.58	328	49.0
1*7	3.25	9.75	58.07	458	68.7
1*7	3.75	11.3	77.28	609	91.3
1*19	2	10.00	59.70	473	70.5
1*19	2.75	13.8	112.9	894	133
1*19	3.25	16.3	157.6	1250	186

BS 183

Conductor: Galvanized Steel Wire

Construction	Diameter of Wire	Overall Deameter	Section	Conductor Weight	Min. Breaking Load
	mm	mm	mm2	kg/km	Grade 1150
					kN
1*7	0.56	1.7	1.72	14	1.98
	0.71	2.1	2.77	28	3.19
	0.85	2.6	3.97	31	4.57
	0.9	2.7	4.45	35	5.12
	1.0	3.0	5.50	43	6.32
	1.25	3.8	8.59	67	9.88
	1.4	4.2	10.78	84	12.35
	1.6	4.8	14.07	110	16.20
	1.8	5.4	17.81	140	20.5
	2.0	6.0	21.99	170	25.30
	2.36	7.1	30.62	240	35.20
	2.7	8.0	38.61	300	44.40
	3	9	49.48	392	56.90
	3.15	9.5	54.55	430	62.75
	3.25	9.8	58.07	460	66.80
	3.7	11.0	73.24	570	84.20
	4.0	12.0	87.96	690	101.00
	4.25	12.8	99.30	780	114
	4.8	14.0	124.04	970	142.70
1*19	1.0	5.0	14.92	120	17.16
	1.25	6.3	23.32	180	26.81
	1.4	7.0	29.25	230	33.64
	1.6	8.0	38.20	300	43.93
	2.0	10.0	59.69	470	68.64
	2.5	12.5	93.27	730	107.3
	3.0	15.0	134.30	1050	154.50
	3.55	17.8	188.06	1470	216.30
	4.0	20.0	238.76	1870	274.6
	4.75	23.8	336.69	2630	387.2



Bare Copper Conductor

Bare Conductors for Power Transmission

ASTM B 8 **AS 1746**

Application

Solid and stranded (classes AA and A) bare copper are suitable for overhead transmission and distribution applications.

Stranded conductor of greater flexibility (classes B and C) are suitable for uninsulated hook up, jumpers, and grounds in electrical construction. Soft Drawn copper is unilay construction.

ASTM B 8

① Conductor: Hard-drawn or Soft/Annealed Copper Wire

Size	Stranding	Conductor Weight	Overall Diameter	Hard Drawn		Medium-Hard Drawn		Soft-Drawn (Annealed)	
				Min. Breaking Load	Electrical Resistance	Min. Breaking Load	Electrical Resistance	Min. Breaking Load	Electrical Resistance
AWG	mils No./Ømils	lbs/1000 f	mils	lbs	DC 20°C ohms/1000 ft	lbs	DC 20°C ohms/1000 ft	lbs	DC 20°C ohms/1000 ft
8	7/49	51	146	777	0.6663	610	0.6629	499	0.6408
6	7/61	81	184	1228	0.4191	959	0.4169	794	0.403
4	7/77	128.9	232	1938	0.2636	1505	0.2622	1320	0.2534
3	7/87	162.5	260	2433	0.209	1885	0.2079	1670	0.201
2	7/97	204.9	292	3050	0.166	2360	0.165	2110	0.1578
1	7/109	258.4	328	3801	0.1316	2955	0.1309	2552	0.1252
1/0	7/123	326.1	368	4752	0.1042	3705	0.1037	3221	0.1002
2/0	7/138	410.9	414	5926	0.08267	4640	0.08224	4062	0.07949
2/0	19/84	410.9	418	6690	0.08267	4765	0.08224	4024	0.07949
3/0	7/155	518.1	464	7366	0.06556	5812	0.06522	5118	0.06304
4/0	7/174	653.3	522	9154	0.05199	7278	0.05172	6459	0.04999
4/0	19/106	653.3	528	9617	0.05199	7479	0.05172	6453	0.04999
250	19/115	771.9	574	11360	0.044	8836	0.04378	7627	0.04231
250	37/82	771.9	575	11600	0.044	8952	0.04378	7940	0.04231
300	19/126	926.2	628	13510	0.03667	10530	0.03648	9160	0.03526
350	19/136	1080.6	679	15590	0.03143	12200	0.03127	10680	0.03022
500	37/116	1543.8	814	22510	0.022	17550	0.02189	15240	0.02116
600	37/127	1852.5	891	27020	0.01834	21060	0.01825	18300	0.01763
750	61/111	2315.6	998	34090	0.01467	26510	0.01459	22890	0.0141
1000	61/128	3087.5	1152	45030	0.011	35100	0.01094	30500	0.01058

AS 1746

Conductor: Hard-drawn or Soft/Annealed Copper Wire

Stranding	Overall Diameter	Section	Conductor Weight	Min. Breaking laod	Electrical Resistance
No./Ømm	mm	mm2	kg/km	kN	DC 20°C Ω/km
7/1.00	3	5.498	49.3	2.32	3.25
7/1.25	3.75	8.589	76.9	3.59	2.09
7/1.75	5.25	16.84	151	6.89	1.06
7/2.00	6	21.99	197	8.89	0.815
7/2.75	8.25	41.58	375	16.2	0.433
19/1.75	8.75	45.7	413	18.3	0.395
19/2.00	10	59.7	538	23.6	0.303
7/3.50	10.5	67.35	607	25.4	0.268
7/3.75	11.3	77.28	696	28.8	0.233
37/1.75	12.3	88.99	806	35.6	0.203
19/2.75	13.8	112.9	1020	43.1	0.16
19/3.00	15	134.3	1210	50.8	0.134
37/2.50	17.5	181.6	1640	70.3	0.099 6
37/2.75	19.3	219.8	1990	83.9	0.082 3
37/3.00	21	261.6	2370	98.9	0.069 1
61/2.75	24.8	362.3	3290	138	0.050 0

PART II Aerial Bundled Cable (ABC Cable)

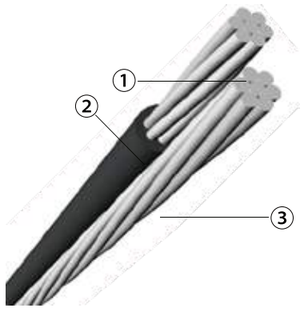
Service Drop Cable

LV ABC Cable

MV ABC Cable

ABC Cable with Bare Conductor

Service Drop Cable



ABC Cable with AAC/AAAC/ACSR for Aerial Service

ANSI/ICEA S-76-474

Application

To supply 120 volt aerial service for temporary service at construction sites, as a Service Drop (power pole to service entrance), as a secondary cable (pole to pole) or street lighting. For service at 600 volts or lower at a maximum conductor temperature of 75°C for Polyethylene insulated cables or 90°C for Cross-Linked (XLPE) insulation.

Duplex Service Drop Cable

① Phase Conductor: Aluminum 1350-H19 conductor
② Insulation: XLPE
③ Neutral Messenger: Bare AAC, AAAC or ACSR

Code Name	Phase Conductors				Bare Natural		Cable Weigth
	Number of Wires	Insulation Thickness mm	Conductor Diameter mm	Outer Diameter mm	Number of Wires	Rated Strength kN N	kg/km
AAC							
Pekingese	6-Solid	1.14	4.1	6.4	6-7	255	94
Collie	6-7	1.14	4.6	6.9	6-7	255	97
Cocker	6-7	1.52	4.6	7.7	6-7	255	106
Dachshund	4-Solid	1.14	5.2	7.5	6-7	400	141
Spaniel	4-7	1.14	5.9	8.2	6-7	400	146
Cairn	4-7	1.52	5.9	8.9	6-7	400	156
Doberman	2-7	1.14	7.4	9.7	2-7	612	223
Airedale	1-19	1.52	8.4	11.5	1-7	---	290
Basset	1/0-7	1.52	9.3	12.4	1/0-7	903	359
Malemure	1/0-19	1.52	9.4	12.5	1/0-7	903	359
AAAC							
Chihuahua	6-Solid	1.14	4.1	6.4	6-7	499	94
Vizsla	6-7	1.14	4.6	6.9	6-7	499	97
Harrier	4-Solid	1.14	5.2	7.5	4-7	798	143
Whippet	4-7	1.14	5.9	8.2	4-7	798	146
Schnauzer	2-7	1.14	7.4	9.7	2-7	1270	223
Afghan	1/0-7	1.52	9.3	12.4	1/0-7	2023	360
heeler	1/0-19	1.52	9.4	12.5	1/0-7	2023	360
ACSR							
Setter	6-Solid	1.14	4.1	6.4	6/6/01	540	94
Shepherd	6-7	1.14	4.6	6.9	6/6/01	540	97
Retriever	6-7	1.52	4.6	7.7	6/6/01	540	106
Eskimo	4-Solid	1.14	5.2	7.5	4/6/01	844	141
Terrier	4-7	1.14	5.9	8.2	4/6/01	844	146
Yorkshire	4-7	1.52	5.9	8.9	4/6/01	844	156
Chow	2-7	1.14	7.4	9.7	2/6/01	1293	223
Labrador	1-19	1.52	8.4	11.5	1/6/01	1610	290
Bloodhound	1/0-7	1.52	9.3	12.4	1/0-6/1	1987	359
Bull	1/0-19	1.52	9.4	12.5	1/0-6/1	1987	359

Triplex Service Drop Cable

Phase Conductor: Aluminum 1350-H19 conductor
Insulation: XLPE
Neutral Messenger: Bare AAC, AAAC or ACSR

Code Name	Phase Conductors				Bare Natural		Cable Weigth
	Number of Wires	Insulation Thickness mm	Conductor Diameter mm	Outer Diameter mm	Number of Wires	Rated Strength kN N	kg/km
AAC							
Halotis	6-Solid	1.14	4.115	6.4	6-7	255	152
Pike	6-7	0.76	4.67	6.2	6-7	255	143
Patella	6-7	1.14	4.67	7.0	6-7	255	159
Albus	6-7	1.52	4.67	7.7	6-7	255	198
Fusus	4-Solid	1.14	5.182	7.5	4-7	400	229
Oyster	4-7	1.14	5.89	8.2	4-7	400	237
Argo	4-7	1.52	5.89	8.9	4-7	400	258
Clam	2-7	1.14	7.42	9.7	2-7	612	359
Thia	2-7	1.52	7.42	10.5	2-7	612	383
Mussel	2-7	1.14	7.42	9.7	2-7	612	359
Pyrula	1-7	1.52	8.33	11.4	1-7	744	467
Hyas	1-19	1.52	8.43	11.5	1-7	744	469
Murex	1/0-7	1.52	9.35	12.4	1/0-7	903	513
Purpura	1/0-19	1.52	9.47	12.5	1/0-7	903	515
Nasa	2/0-7	1.52	10.52	13.6	2/0-7	1139	710
Trophon	2/0-19	1.52	10.64	13.7	2/0-7	1139	713
Quahog	3/0-7	2.03	11.79	15.9	3/0-7	1379	926
Ione	3/0-19	2.03	11.94	16.0	3/0-7	1379	929
Melita	3/0-19	1.52	11.94	15.0	3/0-19	1501	881
Coquina	4/0-7	1.52	13.26	16.3	4/0-7	1737	1,089
Tusk	4/0-7	2.03	13.26	17.3	4/0-7	1737	1,141
Apus	4/0-19	2.03	13.41	17.5	4/0-7	1737	1,144
Portunus	4/0-19	1.52	13.41	16.5	4/0-19	1823	1,091
Chiton	266.8-19	2.03	14.88	18.9	266.8-19	2254	1,409
Nannynose	336.4-19	2.03	16.92	21.0	336.4-19	2790	1,749
AAAC							
Homarus	6-Solid	1.14	4.115	6.4	6-7	499	159
Minex	6-Solid	1.14	4.115	13.3	6-7	499	159
Cabera	6-7	1.14	4.65	6.9	6-7	499	165
Hippa	6-7	1.14	4.65	6.9	6-7	499	165
Artemia	4-Solid	1.14	5.182	7.5	6-7	499	214
Maira	4-7	1.14	5.89	8.2	6-7	499	247
Crab	4-7	1.14	5.89	8.2	6-7	499	222
Luidia	4-Solid	1.14	5.182	7.5	6-7	499	214
Prawn	4-Solid	1.14	5.182	7.5	4-7	798	240
Metalia	4-7	1.14	5.89	8.2	4-7	798	247
Barnacles	4-7	1.14	5.89	8.2	4-7	798	247
Solaster	2-7	1.14	7.42	9.7	4-7	798	333
Pagarus	2-7	1.52	7.42	10.5	4-7	798	357
Shrimp	2-7	1.14	7.42	9.7	2-7	1270	374
Lobster	2-7	1.52	7.42	10.5	2-7	1270	397
Encope	1-19	1.52	8.43	11.5	2-7	1270	461
Sanderab	1/0-7	1.52	9.35	12.4	2-7	1270	537
Echinus	1/0-19	1.52	9.47	12.5	2-7	1270	539
Gammarus	1/0-7	1.52	9.35	12.4	1/0-7	2023	601
Leda	1/0-19	1.52	9.47	12.5	1/0-7	2023	603
Crayfish	2/0-7	1.52	10.5	13.6	2-7	1270	631
Sipho	2/0-19	1.52	10.6	13.7	2-7	1270	634
Dungenese	2/0-7	1.52	10.5	13.6	2/0-7	2445	740
Cyclops	2/0-7	1.52	10.6	13.7	2/0-7	2445	743

Triplex Service Drop Cable II

- Phase Conductor: Aluminum 1350-H19 conductor
- Insulation: XLPE
- Neutral Messenger: Bare AAC, AAAC or ACSR

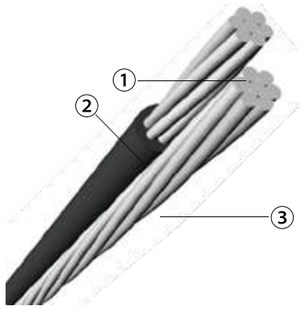
Code Name	Phase Conductors				Bare Natural		Cable Weigth
	Number of Wires	Insulation Thickness mm	Conductor Diameter mm	Outer Diameter mm	Number of Wires	Rated Strength kN	kg/km
AAAC							
Slug	3/0-7	1.52	11.8	14.8	1/0-7	2023	816
Fulgur	3/0-19	1.52	11.9	15.0	1/0-7	2023	819
Balanus	3/0-19	2.03	11.9	16.0	1/0-7	2023	868
Stonecrab	3/0-7	1.52	11.8	14.8	3/0-7	3080	917
Flustra	3/0-7	1.52	11.9	15.0	3/0-7	3080	920
Crisia	3/0-19	2.03	11.9	16.0	3/0-7	3080	969
Squid	4/0-7	1.52	13.3	16.3	2/0-7	2431	1011
Arca	4/0-19	1.52	13.4	16.5	2/0-7	2431	1012
Bugula	4/0-19	2.03	13.4	17.5	2/0-7	2431	1066
Kingerab	4/0-7	1.52	13.3	16.3	4/0-7	3883	1137
Lepas	4/0-19	1.52	13.4	16.5	4/0-7	3883	1140
Cassi	4/0-19	2.03	13.4	17.5	4/0-7	3883	1194
ACSR							
Paludina	6-Solid	1.14	4.115	6.401	6-6/1	540	170
Voluta	6-7	1.14	4.67	6.960	6-6/1	540	176
Bolma	6-7	1.52	4.67	7.722	6-6/1	540	194
Scallop	4-Solid	1.14	5.182	7.468	6-6/1	540	225
Strombus	4-7	1.14	5.89	8.179	6-6/1	540	232
Carnea	4-7	1.52	5.89	8.941	6-6/1	540	253
Whelk	4-Solid	1.14	5.182	7.468	4-6/1	844	258
Periwinkle	4-7	1.14	5.89	8.179	4-6/1	844	263
Calma	4-7	1.52	5.89	8.941	4-6/1	844	284
Cockle	2-7	1.14	5.89	8.179	4-6/1	844	335
Gebia	2-7	1.52	5.89	8.941	4-6/1	844	354
Conch	2-7	1.14	5.89	8.179	2-6/1	1293	384
Uca	2-7	1.52	5.89	8.941	2-6/1	1293	405
Vermeths	1-7	1.52	8.33	11.379	1-6/1	1610	522
Atya	1-19	1.52	8.33	11.379	1-6/1	1610	524
Janthina	1/0-7	1.52	8.33	11.379	2-6/1	1293	549
Ranella	1/0-19	1.52	9.47	12.522	2-6/1	1293	566
Neritina	1/0-7	1.52	9.35	12.395	1/0-6/1	1987	644
Cenia	1/0-19	1.52	9.47	12.522	1/0-6/1	1987	646
Cavolinia	2/0-7	1.52	10.5	13.564	1-6/1	1610	697
Clio	2/0-19	1.52	10.6	13.691	1-6/1	1610	698
Runcina	2/0-7	1.52	10.5	13.564	2/0-6/1	2404	796
Triton	2/0-19	1.52	10.6	13.691	2/0-6/1	2404	799
Sanddollar	3/0-7	1.52	11.8	14.834	1/0-6/1	1987	860
Aega	3/0-19	1.52	11.9	14.986	1/0-6/1	1987	862
Pisa	3/0-19	2.03	11.9	16.002	1/0-6/1	1987	911
Cherrystone	3/0-7	1.52	11.8	14.834	3/0-6/1	3003	987
Mursia	3/0-19	1.52	11.9	14.986	3/0-6/1	3003	990
Mysis	3/0-19	2.03	11.9	16.002	3/0-6/1	3003	990
Cuttlefish	4/0-7	1.52	13.3	16.307	2/0-6/1	2404	1066
Cerapus	4/0-19	1.52	13.4	16.459	2/0-6/1	2404	1069
Nepatus	4/0-19	2.03	13.4	17.475	2/0-6/1	2404	1121
Razor	4/0-7	1.52	13.3	16.307	4/0-6/11	3788	1226
Zuzara	4/0-19	1.52	13.4	16.459	4/0-6/	3788	1229
Alima	4/0-19	2.03	13.4	17.475	4/0-6/1	3788	1281
Callista	266.8-19	2.03	15.1	19.126	3/0-6/1	3003	1384
Dosinia	266.8-19	2.03	15.1	19.126	266.8-18/1	3121	1472
Cowry	336.4-19	2.03	16.9	20.980	4/0-6/1	3788	1713
Limpet	336.4-19	2.03	16.9	20.980	336.4-18/1	3937	1823

Quadruplex Service Drop Cable

- Phase Conductor: Aluminum 1350-H19 conductor
- Insulation: XLPE
- Neutral Messenger: Bare AAC, AAAC or ACSR

Code Name	Phase Conductors				Bare Natural		Cable Weigth
	Number of Wires	Insulation Thickness mm	Conductor Diameter mm	Outer Diameter mm	Number of Wires	Rated Strength kN	kg/km
AAC							
Quarter	6-Solid	1.143	4.115	6.401	6-7	255.371	211
Clydesdale	4-Solid	1.143	5.182	7.468	4-7	399.613	315
Pinto	4-7	1.143	5.893	8.179	4-7	399.613	326
Mustang	2-7	1.143	7.417	9.703	2-7	612.347	491
Shire	1-19	1.524	8.433	11.481	1-19	743.888	646
Libyan	1/0-7	1.524	9.347	12.395	1/0-7	902.644	790
Criollo	1/0-19	1.524	9.474	12.522	1/0-19	902.644	793
Orloff	2/0-7	1.524	10.516	13.564	2/0-7	1138.511	973
Percheron	2/0-19	1.524	10.643	13.691	2/0-19	1138.511	976
Mongolian	3/0-7	1.524	11.786	14.834	3/0-7	1378.914	1199
Hanoverian	3/0-19	1.524	11.938	14.986	3/0-19	1378.914	1204
Singlefoot	4/0-7	1.524	13.259	16.307	4/0-7	1737.250	1485
oldenburg	4/0-19	1.524	13.411	16.459	4/0-19	1737.250	1490
AAAC							
Bay	6-Solid	1.143	4.115	6.401	6-7	503.485	217
French-conch	6-7	1.143	4.674	6.960	6-7	503.485	226
German-conch	4-Solid	1.143	5.182	7.468	4-7	798.318	324
Arabian	4-7	1.143	5.893	8.179	4-7	784.711	336
Belgian	2-7	1.143	7.417	9.703	2-7	1270.052	506
Saddle	1-19	1.524	8.433	11.481	2-7	1270.052	637
Plow	1/0-7	1.524	9.347	12.395	1/0-7	2023.011	814
Sherland	1/0-19	1.524	9.474	12.522	1/0-7	2023.011	817
Dapple-grey	2/0-7	1.524	10.516	13.564	2/0-7	2444.850	1005
Thoroughbred	2/0-19	1.524	10.643	13.691	2/0-7	2444.850	1007
Dobbin	3/0-7	1.524	11.786	14.834	3/0-7	3079.876	1238
Trotter	3/0-19	1.524	11.938	14.986	3/0-7	3079.876	1243
Pony	4/0-7	1.524	13.259	16.307	4/0-7	3882.730	1534
Walking	4/0-19	1.524	13.411	16.459	4/0-7	3882.730	1539
ACSR							
Morochuca	6-Solid	1.143	4.115	6.401	6-6/1	539.772	229
Chola	6-7	1.143	4.674	6.960	6-6/1	539.772	237
Morgan	4-Solid	1.143	5.182	7.468	4-6/1	843.677	344
Hackney	4-7	1.143	5.893	8.179	4-6/1	843.677	356
Palomino	2-7	1.143	7.417	9.703	2-6/1	1292.732	557
Albino	1-19	1.524	8.433	11.481	1-6/1	1610.245	699
Standardbred	1/0-7	1.524	9.347	12.395	1/0-6/1	1986.724	859
Costena	1/0-19	1.524	9.474	12.522	1/0-6/1	1986.724	862
Chicoteagues	2/0-7	1.524	10.516	13.564	2/0-6/1	2404.027	1060
Grullo	2/0-19	1.524	10.643	13.691	2/0-6/1	2404.027	1063
Mare	3/0-7	1.524	11.786	14.834	3/0-6/1	3002.766	1308
Suffolk	3/0-19	1.524	11.938	14.986	3/0-6/1	3002.766	1313
Stallion	4/0-7	1.524	13.259	16.307	4/0-6/1	3787.477	1622
Appaloosa	4/0-19	1.524	13.411	16.459	4/0-6/1	3787.477	1627

0.6/1 kV ABC Cable



- **ABC Cable with or without AAAC for Overhead Distribution**
- **VDE 0276-626** **HD 626** **BS 7870-5** **AS/NZS 5000.1**
- **AS/NZS 5000.2** **NF C 33-209**

Application

The usage of Aerial Bundled Cables in low voltage networks provides important saving in installation costs, while it ensures the same reliability and safety, replaces bare conductors in overhead distribution lines and increased very rapidly all around the world.

Compared to the copper conductors aerial bundled cables are lighter and more economical. They can be used safely in wood, concrete and iron poles. The poles height's can be shorter instead of using 5 different sized lines, by ABC systems we can use only one line which save on time, effort and material. Lower inductive reactance of the aerial bundled cables reduces voltage drop and power losses.

VDE 0276-626 NFA2X

① Phase Conductor:
② Insulation: XLPE
③ Neutral Messenger: Bare AAAC

Section	Overall Diameter	Cable Weight	Radius of Bend	Electrical Resistance	Current Carrying Capacity in Air
No.xmm2	mm	kg/km	mm	Ω/km	A
2x16	17	140	255	1,910	75
2x25	20	200	300	1,200	116
2x35	23	275	345	0.868	140
3x16	17	210	255	1,910	69
3x25	21	300	315	1,200	107
4x16	19	280	285	1,910	69
4x25	22	410	330	1,200	107
4x35	25	550	380	0.868	132
4x50	28	750	420	0.641	165
4x70	32	1000	480	0.443	205
4x95	38	1350	570	0.32	250
4x120	41	1680	620	0.253	280
4x35+1x25	28	623	420	0.866+1.200	130
4x50+1x25	30	805	450	0.641+1.200	161
4x70+1x25	33	1062	500	0.443+1.200	205
4x70+1x35	34	1093	500	0.443+0.868	205
4x95+1x25	38	1434	570	0.32+1.200	250
4x120+1x25	42	1723	630	0.253+1.200	280
4x50+2x16	32	859	480	0.641+1.910	161
4x70+2x16	36	1116	540	0.443+1.910	205
4x70+2x25	37	1154	550	0.443+1.200	205
4x95+2x16	40	1489	600	0.320+1.910	250
4x120+2x16	45	1787	680	0.253+1.910	280

NF C 33-209

- Phase Conductor: Aluminum
- Insulation: PE or XLPE
- Neutral Messenger: Bare AAAC

Description		Conductor						Cable	
Type	Section	Electrical Resistance	Conductor Diameter		Rated Strength	Current Carrying Capacity	Insulation Thickness	Overall Diameter	
	mm2	DC.20°C	Min.	Max.	daN	A	mm	Min.	Max.
		Ω/km	mm	mm				mm	mm
Phases and Public Lighting	16	1.91	4.6	5.1	190	70	1.2	7	7.8
	25	1.2	5.8	6.3	300	90	1.4	8.6	9.4
	35	0.868	6.8	7.3	-	115	1.6	10	10.9
	50	0.641	7.9	8.4	-	140	1.6	11.1	12
	70	0.443	9.7	10.2	-	180	1.8	13.3	14.2
	95	0.32	11	12	-	215	1.8	14.6	15.7
	120	0.253	12	13.1	-	250	1.8	15.6	16.7
	150	0.206	13.9	15	-	290	1.7	17.3	18.6
Neutral (Messenger)	54.6	0.63	9.2	9.6	1660	-	1.6	12.3	13
	70	0.5	10	10.2	2050	-	1.5	12.9	13.6
	95	0.343	12.2	12.9	2750	-	1.6	15.3**	16.3**
Special Neutral (Compacted)	54.6	0.63	8.4	9.2	1660	-	1.6	11.6	12.5
	70	0.5	9.4	9.8	2050	-	1.5	12.4	13
	95	0.343	11.2	12	2750	-	1.6	14.4	15.2

Structure	Insulated conductors			Public Lighting	Messenger		Complete cable	
	Section	Electrical Resistance	Insulation Thickness	Section	Rated Strength	Electrical Resistance	Diameter	Cable Weight
	No.xmm2	DC.20℃ Ω/km	mm	No.xmm2	kN	DC.20℃ ohm/km	mm	kg/km
1x10+16	1x10	2.85	1.4	-	4.7	2.15	10	90
1x16+25	1x16	1.91	1.4	-	7.4	1.38	15	140
1x25+35	1x25	1.20	1.4	-	10.3	0.986	17	200
1x35+50	1x35	0.868	1.6	-	14.2	0.720	20	275
1x50+70	1x50	0.641	1.6	-	20.6	0.493	22	350
1x70+95	1x70	0.443	1.8	-	27.9	0.363	25	505
3x10+16	3x10	2.85	1.4	-	4.7	2.15	14	180
3x16+25	3x16	1.91	1.4	-	7.4	1.38	22	270
3x25+35	3x25	1.20	1.4	-	10.3	0.986	26	390
3x35+50	3x35	0.868	1.6	-	14.2	0.720	30	530
3x50+70	3x50	0.641	1.6	-	20.6	0.493	35	700
3x70+95	3x70	0.443	1.8	-	27.9	0.363	41	990
3x120+95	3x120	0.253	2.0	-	27.9	0.363	47	1510
1x16+1x16+25	1x16+1x16	1.91	1.4	1x16	7.4	1.38	16	205
3x16+1x16+25	3x16+1x16	1.91	1.4	1x16	7.4	1.38	22	335
3x25+1x16+35	3x25+1x16	1.20	1.4	1x16	10.3	0.986	26	455
3x35+1x16+50	3x35+1x16	0.868	1.6	1x16	14.2	0.720	30	595
3x50+1x16+70	3x50+1x16	0.641	1.6	1x16	20.6	0.493	35	765
3x70+1x16+95	3x70+1x16	0.443	1.8	1x16	27.9	0.363	41	1055
3x120+1x16+95	3x120+1x16	0.253	2.0	1x16	27.9	0.363	47	1600
4x16+25	4x16	1.91	1.4	-	7.4	1.38	22	330
4x25+35	4x25	1.20	1.4	-	10.3	0.986	26	490
4x35+50	4x35	0.868	1.6	-	14.2	0.720	30	660
4x50+70	4x50	0.641	1.6	-	20.6	0.493	35	870
4x70+95	4x70	0.443	1.8	-	27.9	0.363	41	1235

BS 7870-5

- Phase Conductor: Aluminum 1350 conductor
- Insulation: XLPE
- Neutral Conductor: Aluminum 1350 conductor
- Street Lighting Conductor: Aluminum 1350 conductor

ABC Cables without Street Lighting							
1+1 Structure							
Phase Conductor			Neutral Conductor			Completed Cable	
Section	Insulation Thickness	Electrical Resistance DC.20°C	Section	Insulation Thickness	Electrical Resistance DC.20°C	Overall Diameter	Cable Weight
No.xmm2	mm	Ω/km	mm2	mm	Ω/km	mm	kg/km
1x25	1.3	1.20	25	1.3	1.20	17.6	210
1x35	1.3	0.868	35	1.3	0.868	19.6	270
1x50	1.5	0.641	50	1.5	0.641	23	360
1x70	1.5	0.443	70	1.5	0.443	26.4	500
1x95	1.7	0.320	95	1.7	0.320	30.6	680
3+1 Structure							
Phase Conductor			Neutral Conductor			Completed Cable	
Section	Insulation Thickness	Electrical Resistance DC.20°C	Section	Insulation Thickness	Electrical Resistance DC.20°C	Overall Diameter	Cable Weight
No.xmm2	mm	Ω/km	mm2	mm	Ω/km	mm	kg/km
3x25	1.3	1.20	25	1.3	1.20	21.2	410
3x35	1.3	0.868	35	1.3	0.868	23.7	550
3x50	1.5	0.641	50	1.5	0.641	27.8	730
3x70	1.5	0.443	70	1.5	0.443	31.9	1000
3x95	1.7	0.320	95	1.7	0.320	36.9	1370
3x120	1.7	0.253	120	1.7	0.253	40.6	1690

ABC Cables with Street Lighting							
3+1+1 Structure							
Phase Conductor		Neutral Conductor		Street Lighting Conductor		Completed Cable	
Section	Insulation Thickness	Section	Insulation Thickness	Section	Insulation Thickness	Overall Diameter	Cable Weight
No.xmm2	mm	mm2	mm	mm2	mm	mm	kg/km
3x50	1.5	50	1.5	25	1.3	29.8	830
3x70	1.5	70	1.5	25	1.3	33.6	1100
3x95	1.7	95	1.7	25	1.3	38.2	1470

AS/NZS 3560.1 3560.2

- Conductor: Aluminum 1350 conductor
- Insulation: XLPE

AS/NZS-3560.1							
LV XLPE Insulated 2/3/4 Core Aluminium ABC							
Section	Conductor Diameter	Insulation Thickness	Electrical Resistance DC.20°C Ω/km	Cable Weight	Rated Strength	Modulus of Elasticity	Coeff. of Linear Expansion
No.xmm2	mm	mm		kg/km	kN	GPa	x10-6/°C
2x16	4.7	1.3	1.91	130	4.4	59	23.0
2x25	5.9	1.3	1.20	190	7.0	59	23.0
2x35	6.9	1.3	0.868	250	9.8	59	23.0
2x50	8.1	1.5	0.641	340	14.0	59	23.0
2x95	11.4	1.7	0.320	640	26.6	56	23.0
3x25	5.9	1.3	1.20	290	10.5	59	23.0
3x35	6.9	1.3	0.868	370	14.7	59	23.0
3x50	8.1	1.5	0.641	510	21.0	59	23.0
4x16	4.7	1.3	1.91	270	8.8	59	23.0
4x25	5.9	1.3	1.20	390	14.0	59	23.0
4x35	6.9	1.3	0.868	500	19.6	59	23.0
4x50	8.1	1.5	0.641	670	28.0	59	23.0
4x70	9.7	1.5	0.443	930	39.2	56	23.0
4x95	11.4	1.7	0.320	1280	53.2	56	23.0
4x120	12.8	1.7	0.253	1570	67.2	56	23.0
4x150	14.2	1.7	0.206	1890	84.0	56	23.0
AS/NZS-3560.2							
LV XLPE Insulated 2/3/4 Core Copper ABC							
2x6	3.3	1.3	3.18	0.14	4.8	112	17.0
2x10	4.2	1.3	1.89	0.23	8.0	112	17.0
2x16	5.2	1.3	1.19	0.35	12.2	112	17.0
2x25	6.6	1.3	0.749	0.57	19.4	110	17.0
3x6	3.3	1.3	3.18	0.22	7.2	112	17.0
3x10	4.2	1.3	1.89	0.35	12.0	112	17.0
3x16	5.2	1.3	1.19	0.53	18.3	112	17.0
3x25	6.6	1.3	0.749	0.86	29.1	110	17.0
4x6	3.3	1.3	3.18	0.29	9.6	112	17.0
4x10	4.2	1.3	1.89	0.47	16	112	17.0
4x16	5.2	1.3	1.19	0.71	24.4	112	17.0
4x25	6.6	1.3	0.749	1.15	38.8	112	17.0
AS/NZS-5000.2							
PVC Insulated Flat Aerial Cables 1/2/3 Core Copper							
1x6	3.1	1.0	80	3.17	2.3	112	17.0
1x10	4.1	1.0	120	1.88	3.9	112	17.0
1x16	5.1	1.0	180	1.18	5.9	112	17.0
1x25	6.8	1.2	300	0.749	10.4	110	17.0
1x35	7.7	1.2	370	0.540	12.7	110	17.0
1x50	8.9	1.4	510	0.399	17.3	110	17.0
1x70	10.7	1.4	710	0.276	25.0	110	17.0
2x6	3.1	1.0	150	3.17	4.6	112	17.0
2x10	4.1	1.0	240	1.88	7.8	112	17.0
2x16	5.1	1.0	360	1.18	11.8	112	17.0
2x25	6.8	1.2	600	0.749	20.8	110	17.0
3x6	3.1	1.0	230	3.17	7.0	112	17.0
3x10	4.1	1.0	360	1.88	11.8	112	17.0
3x16	5.1	1.0	540	1.18	17.8	112	17.0

AS/NZS 3560.2

- Conductor: Aluminum 1350 conductor
- Insulation: XLPE

AS/NZS-5000.2							
PVC Insulated Twisted Aerial Cables 2/3/4 Core Copper							
2x6	3.1	1.0	160	3.17	4.6	112	17.0
2x10	4.1	1.0	240	1.88	7.8	112	17.0
2x16	5.1	1.0	370	1.18	11.8	112	17.0
2x25	6.8	1.2	610	0.749	20.8	110	17.0
3x6	3.1	1.0	240	3.17	7.0	112	17.0
3x10	4.1	1.0	360	1.88	11.8	112	17.0
3x16	5.1	1.0	550	1.18	17.8	112	17.0
3x25	6.8	1.2	910	0.749	31.2	110	17.0
4x6	3.1	1.0	310	3.17	9.3	112	17.0
4x10	4.1	1.0	480	1.88	15.7	112	17.0
4x16	5.1	1.0	730	1.18	23.7	112	17.0
4x25	6.8	1.2	1210	0.749	41.6	110	17.0

6.35/11 kV and 12.7/22 kV ABC Cable

- **ABC Cable with Galvanised Steel or AAAC for Overhead Distribution**
- **AS/NZS 3599.1**
- **AS/NZS 5000.1**

General

Metallic Screened High Voltage Aerial Bundled Cable conforming to AS/NZS 3599.1 incorporates a metallic screen of copper wires and a galvanised steel messenger. Non-Metallic Screened High Voltage Aerial Bundled Cable conforming to AS/NZS 3599.2 is provided only with a semi-conductive screen and the fault currents are carried by the high conductivity Aluminium Alloy (1120) catenary. NMS HV-ABC is smaller, lighter and less expensive than MS HV ABC.

AS/NZS 3599.1

① Phase Conductor: Aluminum 1350
② Insulation: XLPE
③ Metallic Screen: Copper
④ Catenary: Steel Wire

MV XLPE Insulated Non-metallic Screend ABC (Cross-linked Screen Only)							
Section	Insulation Thickness	Copper Wire Screen	Sheath Thickness	Galvanised Steel	Overall Diameter	Cable Weight	Electrical Resistance
mm2	mm	no/mm	mm	no/mm	mm	kg/km	DC.20°C Ω/km
6.35/11 KV							
35	6.9	3.4	1.0	7/4.75	48.4	1170	0.868
50	8.1	3.4	1.0	7/4.75	50.7	1320	0.641
70	9.6	3.4	1.0	7/4.75	53.9	1560	0.443
95	11.4	3.4	1.0	7/4.75	57.3	1860	0.320
120	12.8	3.4	1.0	19/3.50	63.3	2280	0.253
150	14.2	3.4	1.0	19/3.50	66.2	2570	0.206
185	15.7	3.4	1.0	19/3.50	69.2	2890	0.164
12.7/22 KV							
35	6.9	5.5	1.0	7/4.75	57.1	1540	0.868
50	8.1	5.5	1.0	7/4.75	59.3	1710	0.641
70	9.6	5.5	1.0	7/4.75	62.5	1990	0.443
95	11.4	5.5	1.0	7/4.75	66.0	2310	0.320
120	12.8	5.5	1.0	19/3.50	72.0	2760	0.253
150	14.2	5.5	1.0	19/3.50	75.2	3100	0.206
185	15.7	5.5	1.0	19/3.50	78.2	3460	0.164
MV XLPE Insulated Non-metallic Screend ABC (Cross-linked Screen with Semi-conductive HDPE)							
6.35/11 KV							
35	6.9	3.4	1.8	7/4.75	52.0	1320	0.868
50	8.1	3.4	1.8	7/4.75	54.2	1490	0.641
70	9.6	3.4	1.8	7/4.75	57.4	1740	0.443
95	11.4	3.4	1.8	7/4.75	60.9	2050	0.320
120	12.8	3.4	1.8	19/3.50	66.9	2480	0.253
150	14.2	3.4	1.8	19/3.50	69.7	2780	0.206
185	15.7	3.4	1.8	19/3.50	72.7	3120	0.164
12.7/22 KV							
35	6.9	5.5	1.8	7/4.75	60.6	1730	0.868
50	8.1	5.5	1.8	7/4.75	62.9	1910	0.641
70	9.6	5.5	1.8	7/4.75	66.1	2200	0.443
95	11.4	5.5	1.8	7/4.75	69.5	2530	0.320
120	12.8	5.5	1.8	19/3.50	75.5	3000	0.253
150	14.2	5.5	1.8	19/3.50	78.3	3320	0.206
185	15.7	5.5	1.8	19/3.50	81.3	3690	0.164

AAAC/1120 Support Conductors						
Stranding	Section	Overall Diameter	Electrical Resistance	Rated Strength	Modulus of Elasticity	Coeff. of Linear Expansion
no/mm	mm2	mm	DC.20°C Ω/km	kN	GPa	x 10-6/°C
7/4.75	124.0	14.3	0.239	27.1	59	23
19/3.50	182.8	17.5	0.163	41.7	56	23

AS/NZS 3599.2

- Phase Conductor: Galvanized Steel Wire
- Insulation: XLPE
- Sheath: HDPE
- Support Conductor: AAAC

MV XLPE Insulated Metallic Screend ABC 6.35/11 KV							
Section	Insulation Thickness	Copper Wire Screen	Sheath Thickness	Galvanised Steel	Overall Diameter	Cable Weight	Electrical Resistance
mm2	mm	no/mm	mm	no/mm	mm	kg/km	DC.20°C Ω/km
Light Duty Screen							
35	3.4	24/0.85	1.8	7/2.00	53.1	1760	0.868
35	3.4	24/0.85	1.8	19/2.00	57.1	2060	0.868
50	3.4	24/0.85	1.8	19/2.00	59.3	2230	0.641
70	3.4	24/0.85	1.8	19/2.00	62.5	2500	0.443
95	3.4	24/0.85	1.8	19/2.00	66.0	2820	0.320
120	3.4	24/0.85	1.8	19/2.00	58.8	3100	0.253
150	3.4	24/0.85	1.9	19/2.00	72.0	3440	0.206
185	3.4	24/0.85	1.9	19/2.00	75.0	3800	0.164
Heavy Duty Screen							
35	3.4	40/0.85	1.8	7/2.00	53.1	2020	0.868
35	3.4	40/0.85	1.8	19/2.00	57.1	2310	0.868
50	3.4	23/1.35	1.8	19/2.00	61.3	2790	0.641
70	3.4	32/1.35	1.8	19/2.00	64.5	3420	0.443
95	3.4	38/1.35	1.8	19/2.00	68.0	3980	0.320
120	3.4	38/1.35	1.8	19/2.00	70.8	4270	0.253
150	3.4	38/1.35	1.9	19/2.00	74.0	4600	0.206
185	3.4	38/1.35	1.9	19/2.00	77.0	4960	0.164
MV XLPE Insulated Metallic Screend ABC 12.7/22 KV							
Light Duty Screen							
35	5.5	24/0.85	1.8	7/2.00	61.7	2210	0.868
35	5.5	24/0.85	1.8	19/2.00	65.7	2500	0.868
50	5.5	24/0.85	1.8	19/2.00	68.0	2690	0.641
70	5.5	24/0.85	1.9	19/2.00	71.6	3020	0.443
95	5.5	24/0.85	1.9	19/2.00	75.0	3370	0.320
120	5.5	24/0.85	2.0	19/2.00	78.2	3720	0.253
150	5.5	24/0.85	2.0	19/2.00	81.0	4060	0.206
185	5.5	24/0.85	2.1	19/2.00	84.4	4470	0.164
Heavy Duty Screen							
35	5.5	40/0.85	1.8	7/2.00	61.7	2460	0.868
35	5.5	40/0.85	1.8	19/2.00	65.7	2760	0.868
50	5.5	23/1.35	1.8	19/2.00	70.0	3250	0.641
70	5.5	32/1.35	1.9	19/2.00	73.6	3940	0.443
95	5.5	38/1.35	1.9	19/2.00	77.0	4530	0.320
120	5.5	38/1.35	2.0	19/2.00	80.2	4880	0.253
150	5.5	38/1.35	2.0	19/2.00	83.0	5220	0.206
185	5.5	38/1.35	2.1	19/2.00	86.4	5640	0.164

Galvanised Steel Catenaries						
Stranding	Section	Overall Diameter	Electrical Resistance	Rated Strength	Modulus of Elasticity	Coeff. of Linear Expansion
no/mm	mm2	mm	DC.20°C Ω/km	kN	GPa	x 10-6/°C
7/2.00	22.0	6.0	8.7	26.0	170	11.5
19/2.00	59.7	10.0	3.2	70.5	166	11.5

PART III Low Voltage Power Cable

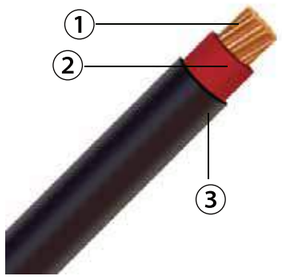
PVC Insulated Unarmoured Power Cable

PVC Insulated Armoured Power Cable

XLPE Insulated Unarmoured Power Cable

XLPE Insulated Armoured Power Cable

0.6/1 kV PVC Insulated Cable



Power Cable for Low Voltage Installation System

IEC 60502-1 **AS/NZS 5000.1**

Application

These cables are used for electricity supply in low voltage installation system, They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

IEC 60502-1

① Conductor: Copper or Aluminum
② Insulation: PVC
③ Sheath: PVC

Section	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	Kg/Km
Single Core PVC Insulated Power Cable					
1x4	2.6	1	1.4	7.5	95
1x6	3.1	1	1.4	8	120
1x10	4	1	1.4	9	165
1x16	5	1	1.4	10	230
1x25	6.3	1.2	1.4	12	340
1x35	7.4	1.2	1.4	13	450
1x50	8.8	1.4	1.4	14.5	570
1x70	10.6	1.4	1.4	16	800
1x95	12.4	1.6	1.5	18.5	1070
1x120	14	1.6	1.5	20	1300
1x150	15.5	1.8	1.6	22	1600
1x185	17.4	2	1.7	24	1980
1x240	20.3	2.2	1.7	27	2560
1x300	22.7	2.4	1.8	30	3180
1x400	25.4	2.6	1.9	33	4060
1x500	28.8	2.8	2	37	5140
1x630	30.4	2.8	2.2	42	6600
Two Cores PVC Insulated Power Cable					
2x1.5	1.6	0.8	1.8	12	205
2x2.5	2	0.8	1.8	13	250
2x4	2.6	1	1.8	15	330
2x6	3.1	1	1.8	16	400
2x10	4	1	1.8	18	525
2x16	5	1	1.8	20	720
2x25	6.3	1.2	1.8	24	1030
2x35	7.4	1.2	1.8	26	1320
2x50	8.8	1.4	1.8	29	1670
2x70	10.6	1.4	1.8	32	2290
2x95	12.4	1.6	1.9	37	3060
2x120	14	1.6	2	40	3700
2x150	15.5	1.8	2.2	44	4500
2x185	17.4	2	2.3	48	5570
2x240	20.3	2.2	2.5	55	7180

0.6/1 kV PVC Insulated Cable

Section	Conductor Diameter		Insulation Thickness		Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm		mm		mm	mm	Kg/Km
Three Cores PVC Insulated Power Cable							
3x1.5	1.6		0.8		1.8	13	230
3x2.5	2		0.8		1.8	14	280
3x4	2.6		1		1.8	16	380
3x6	3.1		1		1.8	17	470
3x10	4		1		1.8	19	630
3x16	5		1		1.8	21	880
3x25	6.3		1.2		1.8	25	1280
3x35	7.4		1.2		1.8	27	1660
3x50	8.8		1.4		1.8	30	2110
3x70	10.6		1.4		1.9	35	2980
3x95	12.4		1.6		2	40	3930
3x120	14		1.6		2.1	43	4780
3x150	15.5		1.8		2.3	48	5880
3x185	17.4		2		2.4	52	7230
3x240	20.3		2.2		2.6	59	9390
3x300	22.7		2.4		2.7	65	11620
3x400	25.4		2.6		3	72	14730
3+1 Cores PVC Insulated Power Cable							
	3 (mm)	1 (mm)	3 (mm)	1 (mm)			
3x 16/10	5	4	1	1	1.8	22	1000
3x 25/16	6.3	5	1.2	1	1.8	26	1460
3x 35/16	7.4	5	1.2	1	1.8	28	1830
3x 50/25	8.8	6.3	1.4	1.2	1.8	32	2410
3x 70/35	10.6	7.4	1.4	1.2	1.9	36	3360
3x 95/50	12.4	8.8	1.6	1.4	2.1	41	4440
3x120/70	14	10.6	1.6	1.4	2.2	46	5580
3x150/70	15.5	10.6	1.4	1.2	2.3	49	6580
3x185/95	17.4	12.4	1.6	1.4	2.5	54	8200
3x240/120	20.3	14	1.6	1.4	2.6	61	10570
3x300/150	22.7	15.5	1.8	1.6	2.8	67	13020
3x400/185	25.4	17.4	2	1.6	3.1	75	16560
Four Cores PVC Insulated Power Cable							
4x1.5	1.6		0.8		1.8	14	265
4x2.5	2		0.8		1.8	15	325
4x4	2.6		1		1.8	17	450
4x6	3.1		1		1.8	18	560
4x10	4		1		1.8	20	770
4x16	5		1		1.8	23	1080
4x25	6.3		1.2		1.8	27	1580
4x35	7.4		1.2		1.8	30	2070
4x50	8.8		1.4		1.8	34	2680
4x70	10.6		1.4		2	38	3760
4x95	12.4		1.6		2.1	44	4960
4x120	14		1.6		2.3	48	6110
4x150	15.5		1.8		2.4	53	7450
4x185	17.4		2		2.6	58	9220
4x240	20.3		2.2		2.8	65	11900
4x300	22.7		2.4		3	72	14730
4x400	25.4		2.6		3.3	81	18830

0.6/1 kV PVC Insulated Cable

Section	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	Kg/Km
Multi-Cores PVC Insulated Power Cable					
5x1.5	1.6	0.8	1.8	15	300
7x1.5	1.6	0.8	1.8	16	360
10x1.5	1.6	0.8	1.8	19	460
12x1.5	1.6	0.8	1.8	20	510
14x1.5	1.6	0.8	1.8	20	570
19x1.5	1.6	0.8	1.8	22	710
21x1.5	1.6	0.8	1.8	23	770
24x1.5	1.6	0.8	1.8	25	870
30x1.5	1.6	0.8	1.8	26	1020
40x1.5	1.6	0.8	1.8	29	1290
48x1.5	1.6	0.8	1.8	32	1520
61x1.5	1.6	0.8	1.8	35	1900
5x2.5	2	0.8	1.8	16	375
7x2.5	2	0.8	1.8	17	460
10x2.5	2	0.8	1.8	20	590
12x2.5	2	0.8	1.8	21	660
14x2.5	2	0.8	1.8	22	740
19x2.5	2	0.8	1.8	24	940
21x2.5	2	0.8	1.8	25	1030
24x2.5	2	0.8	1.8	27	1150
30x2.5	2	0.8	1.8	29	1370
40x2.5	2	0.8	1.8	32	1810
48x2.5	2	0.8	1.8	36	2130
61x2.5	2	0.8	1.8	39	2630

0.6/1 kV PVC Insulated Armoured (AWA/SWA) Cable

Power Cable for Low Voltage Installation System

IEC 60502-1 **AS/NZS 5000.1** **BS 7870-3**

General

These cables are used for electricity supply in low voltage installation system, They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

IEC 60502-1

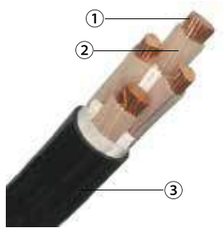
① Conductor: Copper or Aluminum
② Insulation: PVC
③ Bedding: PVC
④ Armour: Aluminum Wire (AWA) (for Single Core)/Steel Wire (SWA)
⑤ Sheath: PVC

Section	Conductor Diameter	Insulation Thickness	Bedding Thickness	Armour Diameter	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	mm	mm	Kg/Km
Single Core PVC Insulated AWA Armoured Power Cable							
1x10	4	1	1	0.8	1.8	14	300
1x16	5	1	1	0.8	1.8	15	375
1x25	6.3	1.2	1	0.8	1.8	16	500
1x35	7.4	1.2	1	0.8	1.8	18	625
1x50	8.8	1.4	1	1.25	1.8	20	835
1x70	10.6	1.4	1	1.25	1.8	22	1075
1x95	12.4	1.6	1	1.25	1.8	24	1385
1x120	14	1.6	1	1.6	1.8	26	1700
1x150	15.5	1.8	1	1.6	1.8	28	2025
1x185	17.4	2	1	1.6	1.8	31	2450
1x240	20.3	2.2	1	1.6	1.9	34	3100
1x300	22.7	2.4	1	2	2	38	3900
1x400	25.4	2.6	1.2	2	2.1	42	4875
1x500	28.8	2.8	1.2	2	2.2	45	6050
1x630	30.4	2.8	1.2	2	2.4	50	7625
Two Cores PVC Insulated SWA Armoured Power Cable							
2x2.5	2	0.8	1	0.8	1.8	15	425
2x4	2.6	1	1	0.8	1.8	17	525
2x6	3.1	1	1	1.25	1.8	19	775
2x10	4	1	1	1.25	1.8	20	825
2x16	5	1	1	1.25	1.8	21	950
2x25	6.3	1	1	1.25	1.8	23	1150
2x35	7.4	1.2	1	1.6	1.8	27	1700
2x2.5	2	1.2	1	1.6	1.8	29	2050
Three Cores PVC Insulated SWA Armoured Power Cable							
3x2.5 RM	2	0.8	1.2	0.8	1.8	16	465
3x4 RE	2.3	1	1.2	1.25	1.8	18	685
3x4 RM	2.6	1	1.2	1.25	1.8	19	725
3x6 RE	2.8	1	1.2	1.25	1.8	19	800
3x6 RM	3.1	1	1.2	1.25	1.8	20	850
3x10 RE	3.6	1	1.2	1.25	1.8	21	1000
3x10 RM	4	1	1.2	1.25	1.8	22	1050
3x16 RM	5	1	1.2	1.25	1.8	24	1350
3x25 RM	6.3	1.2	1.2	1.6	1.8	29	1975
3x35 RM	7.4	1.2	1.2	1.6	1.8	31	2300
3x50 SM	-	1.4	1.2	1.6	2	32	2675
3x70 SM	-	1.4	1.2	2	2.1	36	3700
3x95 SM	-	1.6	1.2	2	2.2	41	4750
3x120 SM	-	1.6	1.2	2	2.3	44	5575
3x150 SM	-	1.8	1.4	2.5	2.5	49	7150
3x185 SM	-	2	1.4	2.5	2.7	53	8550
3x240 SM	-	2.2	1.5	2.5	2.9	59	10700
3x300 SM	-	2.4	1.6	2.5	3.1	65	12925
3x400 SM	-	2.6	1.6	3.15	3.4	74	16900
3x500 SM	-	2.8	1.8	3.15	3.6	81	20650

0.6/1 kV PVC Insulated Armoured (AWA/SWA) Cable

Section	Conductor Diameter		Insulation Thickness		Bedding Thickness	Armour Diameter	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm		mm		mm	mm	mm	mm	Kg/Km
3+1 Cores PVC Insulated SWA Armoured Power Cable									
3x10 RM+6	4	3.1	1	1	1.2	1.25	1.8	23	1175
3x16 RM+10	5	4	1	1	1.2	1.6	1.8	26	1650
3x25 RM+16	6.3	5	1.2	1	1.2	1.6	1.8	30	2200
3x35 SM+16	-	5	1.2	1	1.2	1.6	1.9	30	2375
3x50 SM+25	-	6.3	1.4	1.2	1.2	2	2	35	3275
3x70 SM+35	-	7.4	1.4	1.2	1.2	2	2.1	39	4200
3x95 SM+50	-	8.8	1.6	1.4	1.2	2	2.3	44	5425
3x120 SM+70	-	10.6	1.6	1.4	1.2	2.5	2.5	48	6950
3x150 SM+70	-	10.6	1.8	1.4	1.4	2.5	2.6	52	8100
3x185 SM+95	-	12.4	2	1.6	1.4	2.5	2.7	57	9775
3x240 SM+120	-	14	2.2	1.6	1.5	2.5	2.9	63	12250
3x300 SM+150	-	15.5	2.4	1.8	1.6	2.5	3.1	70	14775
3x400 SM+185	-	17.4	2.6	2	1.6	0.3	3.5	79	19250
3x500 SM+240	-	20.3	2.8	2.2	1.8	3.15	3.7	85	23625
4 Cores PVC Insulated SWA Armoured Power Cable									
4x4 RE	2.3		1		1	1.25	1.8	19	790
4x4 RM	2.6		1		1	1.25	1.8	20	825
4x6 RE	2.8		1		1	1.25	1.8	21	925
4x6 RM	3.1		1		1	1.25	1.8	21	975
4x10 RE	3.6		1		1	1.25	1.8	23	1175
4x10 RM	4		1		1	1.25	1.8	24	1250
4x16 RM	5		1		1	1.6	1.8	27	1750
4x25 RM	6.3		1.2		1	1.6	1.8	31	2375
4x35 SM	-		1.2		1	1.6	1.9	31	2600
4x50 SM	-		1.4		1	2	2.1	37	3625
4x70 SM	-		1.4		1.2	2	2.2	40	4575
4x95 SM	-		1.6		1.2	2.5	2.4	46	6350
4x120 SM	-		1.6		1.4	2.5	2.5	50	7525
4x150 SM	-		1.8		1.4	2.5	2.7	55	8950
4x185 SM	-		2		1.4	2.5	2.9	60	10650
4x240 SM	-		2.2		1.6	2.5	3.1	66	13575
4x300 SM	-		2.4		1.6	2.5	3.3	73	16425
4x400 SM	-		2.6		1.8	3.15	3.6	83	21500
4x500 SM	-		2.8		2	3.15	3.9	91	26500

0.6/1 kV XLPE Insulated Unarmoured Cable



Power Cable for Low Voltage Installation System

IEC 60502-1 AS/NZS 5000.1 BS 7870-3

General

These cables are used for electricity supply in low voltage installation system, They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

IEC 60502-1

① Conductor: Copper or Aluminum
② Insulation: XLPE
③ Sheath: PVC

Section	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	Kg/Km
Single Core XLPE Insulated Power Cable					
1x1.5	1.6	0.7	1.4	6	50
1x2.5	2	0.7	1.4	6.5	70
1x4	2.6	0.7	1.4	7	80
1x6	3.1	0.7	1.4	7.5	110
1x10	4	0.7	1.4	8.5	150
1x16	5	0.7	1.4	9.5	215
1x25	6.3	0.9	1.4	11.5	315
1x35	7.4	0.9	1.4	12	415
1x50	8.8	1	1.4	13	555
1x70	10.6	1.1	1.4	15	760
1x95	12.4	1.1	1.5	17	1025
1x120	14	1.2	1.5	18.5	1270
1x150	15.5	1.4	1.6	21.5	1575
1x185	17.4	1.6	1.6	23	1955
1x240	20.3	1.7	1.7	26	2470
1x300	22.7	1.8	1.8	28	3155
1x400	25.4	2	1.9	32	4049
1x500	28.8	2.2	2	36	5100
1x630	30.4	2.4	2.2	40	6410
Two Cores XLPE Insulated Power Cable					
2x1.5	1.6	0.7	1.8	10	125
2x2.5	2	0.7	1.8	11.5	155
2x4	2.6	0.7	1.8	12.5	195
2x6	3.1	0.7	1.8	13.5	255
2x10	4	0.7	1.8	15.5	370
2x16	5	0.7	1.8	17	500
2x25	6.3	0.9	1.8	20	700
2x35	7.4	0.9	1.8	22	900
2x50	8.8	1	1.8	25	1250
2x70	10.6	1.1	1.8	29	1600
2x95	12.4	1.1	1.9	32	2250
2x120	14	1.2	2	36	2750
2x150	15.5	1.4	2.2	40	3510
2x185	17.4	1.6	2.3	44	4200
2x240	20.3	1.7	2.5	50	5500
2x300	22.5	1.8	2.6	55	6950
2x400	25.4	2	2.9	60	8400

0.6/1 kV XLPE Insulated Unarmoured Cable

Section	Conductor Diameter		Insulation Thickness		Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm		mm		mm	mm	Kg/Km
Three Cores XLPE Insulated Power Cable							
3x1.5	1.6		0.7		1.8	10.5	150
3x2.5	2		0.7		1.8	11	190
3x4	2.6		0.7		1.8	12.5	250
3x6	3.1		0.7		1.8	14.5	320
3x10	4		0.7		1.8	15.5	465
3x16	5		0.7		1.8	18.5	670
3x25	6.3		0.9		1.8	19.5	965
3x35	7.4		0.9		1.8	22	1290
3x50	8.8		1		1.8	26	1750
3x70	10.6		1.1		1.9	28.5	2450
3x95	12.4		1.1		2	32.5	3200
3x120	14		1.2		2.1	35.5	4010
3x150	15.5		1.4		2.3	40	5050
3x185	17.4		1.6		2.4	44.5	6105
3x240	20.3		1.7		2.6	54	8050
3x300	22.5		1.8		2.7	60.5	9998
3x400	25.4		2		3	66	13210
3+1 Cores XLPE Insulated Power Cable							
	3 (mm)	1 (mm)	3 (mm)	1 (mm)			
3x 16/10	5	4	0.7	0.7	1.8	20	825
3x 25/16	6.3	5	0.9	0.7	1.8	22.8	1235
3x 35/16	7.4	5	0.9	0.7	1.8	24.8	1565
3x 50/25	8.8	6.3	1	0.9	1.8	28.5	2220
3x 70/35	10.6	7.4	1.1	0.9	1.9	32	2925
3x 95/50	12.4	8.8	1.1	1	2.1	37.5	3525
3x120/70	14	10.6	1.2	1.1	2.2	41.5	4940
3x150/70	15.5	10.6	1.4	1.1	2.3	45	6250
3x185/95	17.4	12.4	1.6	1.1	2.5	50.5	7450
3x240/120	20.3	14	1.7	1.2	2.6	56	9500
3x300/150	22.7	15.5	1.8	1.4	2.8	64.5	12100
3x400/185	25.4	17.4	2	1.6	3.1	70	18900
Four Cores XLPE Insulated Power Cable							
4x1.5	1.6		0.7		1.8	11	170
4x2.5	2		0.7		1.8	12	230
4x4	2.6		0.7		1.8	14	305
4x6	3.1		0.7		1.8	16	400
4x10	4		0.7		1.8	18	585
4x16	5		0.7		1.8	20	835
4x25	6.3		0.9		1.8	22	1210
4x35	7.4		0.9		1.8	25	1670
4x50	8.8		1		1.8	27	2250
4x70	10.6		1.1		2	32	3015
4x95	12.4		1.1		2.1	37	4085
4x120	14		1.2		2.3	41	5320
4x150	15.5		1.4		2.4	45	6510
4x185	17.4		1.6		2.6	51	8050
4x240	20.3		1.7		2.8	59	10520
4x300	22.7		1.8		3	65	13130
4x400	25.4		2		3.3	74	16850

0.6/1 kV XLPE Insulated Unarmoured Cable

Section	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	Kg/Km
Multi-Cores XLPE Insulated Power Cable					
5x1.5	1.6	0.7	1.4	14	260
7x1.5	1.6	0.7	1.4	15	310
10x1.5	1.6	0.7	1.4	18	395
12x1.5	1.6	0.7	1.4	19	440
14x1.5	1.6	0.7	1.4	19	485
19x1.5	1.6	0.7	1.4	21	600
21x1.5	1.6	0.7	1.4	22	650
24x1.5	1.6	0.7	1.4	24	730
30x1.5	1.6	0.7	1.4	25	860
40x1.5	1.6	0.7	1.4	28	1080
48x1.5	1.6	0.7	1.4	30	1250
61x1.5	1.6	0.7	1.4	33	1570
5x2.5	2	0.7	1.4	15	330
7x2.5	2	0.7	1.4	16	400
10x2.5	2	0.7	1.4	20	515
12x2.5	2	0.7	1.4	20	580
14x2.5	2	0.7	1.4	21	650
19x2.5	2	0.7	1.4	23	810
21x2.5	2	0.7	1.4	24	890
24x2.5	2	0.7	1.4	26	1000
30x2.5	2	0.7	1.4	28	1190
40x2.5	2	0.7	1.4	31	1525
48x2.5	2	0.7	1.4	34	1820
61x2.5	2	0.7	1.4	37	2240

0.6/1 kV XLPE Insulated Armoured (AWA/SWA) Cable

Power Cable for Low Voltage Installation System

IEC 60502-1 AS/NZS 5000.1 BS 7870-3

Application

These cables are used for electricity supply in low voltage installation system, They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

IEC 60502-1

① Conductor: Copper of Aluminum
② Insulation: XLPE
③ Bedding: PVC
④ Armour: Aluminum Wire (AWA) (for Single Core)/Steel Wire (SWA)
⑤ Sheath: PVC

Section	Conductor Diameter	Insulation Thickness	Bedding Thickness	Armour Diameter	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	mm	mm	Kg/Km
Single Core XLPE Insulated AWA Armoured Power Cable							
1x50	8.8	1	1	1.25	1.8	19.5	730
1x70	10.6	1.1	1	1.25	1.8	21.5	970
1x95	12.4	1.1	1	1.6	1.8	24	1220
1x120	14	1.2	1	1.6	1.8	25.5	1520
1x150	15.5	1.4	1	1.6	1.8	27.5	1920
1x185	17.4	1.6	1	1.6	1.8	30	2320
1x240	20.3	1.7	1	1.6	1.9	33	2920
1x300	22.7	1.8	1	1.6	1.9	35	3650
1x400	25.4	2	1.2	2	2.1	40.5	4670
1x500	28.8	2.2	1.2	2	2.2	44.5	5870
1x630	30.4	2.4	1.2	2	2.3	49	7360
Two Cores XLPE Insulated SWA Armoured Power Cable							
2x1.5	1.6	0.7	1	0.9	1.8	13.5	360
2x2.5	2	0.7	1	0.9	1.8	14.5	405
2x4	2.6	0.7	1	0.9	1.8	15.8	470
2x6	3.1	0.7	1	0.9	1.8	17	505
2x10	4	0.7	1	1.25	1.8	19.3	900
2x16	5	0.7	1	1.25	1.8	21.2	950
2x25	6.3	0.9	1	1.6	1.8	24	1205
2x35	7.4	0.9	1	1.6	1.8	24.8	1800
2x50	8.8	1	1	1.6	1.8	26	1850
2x70	10.6	1.1	1	2	2	29	2335
2x95	12.4	1.1	1.2	2	2.1	33.2	3165
2x120	14	1.2	1.2	2	2.3	36.1	3750
2x150	15.5	1.4	1.2	2.5	2.3	39.3	4410
2x185	17.4	1.6	1.3	2.5	2.5	44.8	5710
2x240	20.3	1.7	1.4	2.5	2.7	53.5	7150
2x300	22.5	1.8	1.5	2.5	2.9	58	8565
2x400	25.4	2	1.6	2.5	3.1	63	10695

0.6/1 kV XLPE Insulated Armoured (AWA/SWA) Cable

Section	Conductor Diameter	Insulation Thickness	Bedding Thickness	Armour Diameter	Sheath Thickness	Overall Diameter	Cable Weight
No.xmm²	mm	mm	mm	mm	mm	mm	Kg/Km
Three Cores XLPE Insulated SWA Armoured Power Cable							
3x1.5	1.6	0.7	1.2	0.9	1.8	15	380
3x2.5	2	0.7	1.2	0.9	1.8	15.5	400
3x4	2.6	0.7	1.2	0.9	1.8	16.5	460
3x6	3.1	0.7	1.2	0.9	1.8	18	540
3x10	4	0.7	1.2	0.9	1.8	19.5	750
3x16	5	0.7	1.2	1.25	1.8	22.5	1000
3x25	6.3	0.9	1.2	1.6	1.8	26	1510
3x35	7.4	0.9	1.2	1.6	1.8	28	1950
3x50	8.8	1	1.2	1.6	1.9	32	2350
3x70	10.6	1.1	1.2	2	2	35	3230
3x95	12.4	1.1	1.2	2	2.1	39	4050
3x120	14	1.2	1.2	2	2.3	43	5230
3x150	15.5	1.4	1.4	2.5	2.4	47	6750
3x185	17.4	1.6	1.4	2.5	2.6	52	8230
3x240	20.3	1.7	1.5	2.5	2.7	59	10510
3x300	22.5	1.8	1.6	2.5	2.9	64	13210
3x400	25.4	2	1.6	2.5	3.2	74	16100
3+1 Cores XLPE Insulated SWA Armoured Power Cable							
3x 16/10	5	4	0.7	0.7	1	1.6	1.8	25.5	1550
3x 25/16	6.3	5	0.9	0.7	1	1.6	1.8	27.5	2010
3x 35/16	7.4	5	0.9	0.7	1	1.6	1.8	29	2375
3x 50/25	8.8	6.3	1	0.9	1	1.6	2	33	3100
3x 70/35	10.6	7.4	1.1	0.9	1.2	2	2.1	38	4290
3x 95/50	12.4	8.8	1.1	1	1.2	2	2.3	43.5	5540
3x120/70	14	10.6	1.2	1.1	1.2	2	2.4	49	7150
3x150/70	15.5	10.6	1.4	1.1	1.4	2.5	2.5	52	8330
3x185/95	17.4	12.4	1.6	1.1	1.4	2.5	2.7	57.2	10110
3x240/120	20.3	14	1.7	1.2	1.6	2.5	3	64	12740
3x300/150	22.7	15.5	1.8	1.4	1.6	2.5	3	69.8	15430
3x400/185	25.4	17.4	2	1.6	1.6	3.15	3.3	78.6	19990
4 Cores XLPE Insulated SWA Armoured Power Cable							
4x1.5	1.6	0.7	1	0.9	1.8	15	415
4x2.5	2	0.7	1	0.9	1.8	17.5	490
4x4	2.6	0.7	1	0.9	1.8	19	600
4x6	3.1	0.7	1	0.9	1.8	20	730
4x10	4	0.7	1	1.25	1.8	23	970
4x16	5	0.7	1	1.6	1.8	26	1520
4x25	6.3	0.9	1	1.6	1.8	29	2010
4x35	7.4	0.9	1	1.6	1.9	31	2560
4x50	8.8	1	1	1.6	2.1	36	3350
4x70	10.6	1.1	1.2	2	2.2	40	4680
4x95	12.4	1.1	1.2	2	2.4	44	5710
4x120	14	1.2	1.4	2.5	2.5	50	7500
4x150	15.5	1.4	1.4	2.5	2.6	55	9010
4x185	17.4	1.6	1.4	2.5	2.8	61	10820
4x240	20.3	1.7	1.6	2.5	3.1	69	13630
4x300	22.7	1.8	1.6	2.5	3.2	75	16820
4x400	25.4	2	1.8	3.15	3.4	83	22230

PART IV Medium Voltage Power Cable

XLPE Insulated Unarmoured Power Cable

XLPE Insulated AWA Armoured Power Cable

XLPE Insulated SWA Armoured Power Cable

XLPE Insulated STA Armoured Power Cable

Medium Voltage XLPE Insulated Unarmoured Power Cable

Power Cable for Distribution

IEC 60502-2

Application

The cables are designed for distribution of electrical power with nominal voltage Uo/U ranging from 3.6/6KV to 18/30KV and frequency 50Hz. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

IEC 60502-2

① Conductor: Class 2 Copper or Aluminum
② Conductor Screen: Semi-conductive Compound
③ Insulation: XLPE
④ Insulation Screen: Semi-conductive Compound
⑤ Metallic Screen: Copper Tape or Copper Tape + Copper Wire(Optional)
⑥ Binder Tape
⑦ Sheath: PVC or PE/HDPE(Optional)

Section	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	Kg/Km	
					CU	AL
3.6/6(7.2) KV Single Core XLPE Insulated Unarmoured Power Cable						
1x25	5.9	2.5	1.8	17.5	510	360
1x35	6.9	2.5	1.8	18.5	620	410
1x50	8.1	2.5	1.8	20	750	470
1x70	9.7	2.5	1.8	21.5	975	565
1x95	11.4	2.5	1.8	23	1245	675
1x120	12.9	2.5	1.8	24.5	1490	775
1x150	14.3	2.5	1.8	26	1765	880
1x185	16	2.5	1.8	27.5	2130	1020
1x240	18.4	2.6	1.9	30.5	2715	1255
1x300	20.6	2.8	2	33.5	3340	1505
1x400	23.3	3	2.1	37	4235	1875
1x500	26.3	3.2	2.2	41	5250	2285
1x630	30	3.2	2.3	44.5	6650	2825
1x800	34.2	3.2	2.4	50	8395	3480
1x1000	38.2	3.2	2.6	54.5	10365	4225
6/10(12) KV Single Core XLPE Insulated Unarmoured Power Cable						
1x25	5.9	3.4	1.8	19.5	575	425
1x35	6.9	3.4	1.8	20.5	685	475
1x50	8.1	3.4	1.8	22	825	540
1x70	9.7	3.4	1.8	23.5	1050	640
1x95	11.4	3.4	1.8	25	1325	755
1x120	12.9	3.4	1.8	26.5	1580	860
1x150	14.3	3.4	1.8	28	1855	970
1x185	16	3.4	1.9	30	2240	1130
1x240	18.4	3.4	2	32.5	2825	1365
1x300	20.6	3.4	2	34.5	3420	1580
1x400	23.3	3.4	2.1	38	4280	1925
1x500	26.3	3.4	2.2	41	5275	2310
1x630	30	3.4	2.3	45	6680	2855
1x800	34.2	3.4	2.5	50.5	8445	3535
1x1000	38.2	3.4	2.6	54.5	10400	4260

Medium Voltage XLPE Insulated Unarmoured Power Cable

Section No.xmm²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Overall Diameter mm	Cable Weight Kg/Km	
					CU	AL
8.7/15(17.5) KV Single Core XLPE Insulated Unarmoured Power Cable						
1x25	5.9	4.5	1.8	22	655	505
1x35	6.9	4.5	1.8	23	770	560
1x50	8.1	4.5	1.8	24	910	625
1x70	9.7	4.5	1.8	25.5	1140	730
1x95	11.4	4.5	1.8	27.5	1420	850
1x120	12.9	4.5	1.9	29	1695	975
1x150	14.3	4.5	1.9	30.5	1975	1090
1x185	16	4.5	2	32.5	2365	1255
1x240	18.4	4.5	2	34.5	2945	1485
1x300	20.6	4.5	2.1	37	3565	1725
1x400	23.3	4.5	2.2	40.5	4440	2085
1x500	26.3	4.5	2.3	43.5	5445	2480
1x630	30	4.5	2.4	47.5	6865	3035
1x800	34.2	4.5	2.5	52.5	8625	3715
1x1000	38.2	4.5	2.7	57	10620	4480
12/20(24) KV Single Core XLPE Insulated Unarmoured Power Cable						
1x35	6.9	5.5	1.8	25	860	650
1x50	8.1	5.5	1.8	26	1005	720
1x70	9.7	5.5	1.8	28	1240	830
1x95	11.4	5.5	1.9	29.5	1540	970
1x120	12.9	5.5	1.9	31	1800	1085
1x150	14.3	5.5	2	32.5	2105	1215
1x185	16	5.5	2	34.5	2485	1375
1x240	18.4	5.5	2.1	37	3090	1630
1x300	20.6	5.5	2.2	39.5	3715	1880
1x400	23.3	5.5	2.3	43	4605	2250
1x500	26.3	5.5	2.4	46	5625	2660
1x630	30	5.5	2.5	50	7055	3230
1x800	34.2	5.5	2.6	55	8840	3925
1x1000	38.2	5.5	2.7	59.5	10820	4680
18/30(36) KV Single Core XLPE Insulated Unarmoured Power Cable						
1x50	8.1	8	1.9	31.5	1265	985
1x70	9.7	8	2	33.5	1530	1120
1x95	11.4	8	2.1	35.5	1845	1275
1x120	12.9	8	2.1	37	2120	1405
1x150	14.3	8	2.1	38	2420	1535
1x185	16	8	2.2	40	2835	1725
1x240	18.4	8	2.3	42.5	3460	2000
1x300	20.6	8	2.3	45	4090	2250
1x400	23.3	8	2.5	48.5	5025	2670
1x500	26.3	8	2.5	51.5	6050	3085
1x630	30	8	2.7	55.5	7540	3715
1x800	34.2	8	2.8	60.5	9365	4455
1x1000	38.2	8	2.9	65	11385	5245

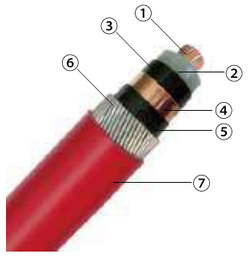
Medium Voltage XLPE Insulated Unarmoured Power Cable

Section No.xmm²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Overall Diameter mm	Cable Weight Kg/Km	
					CU	AL
3.6/6(7.2) KV Three Cores XLPE Insulated Unarmoured Power Cable						
3x25	5.9	2.5	2.1	34.5	1560	1100
3x35	6.9	2.5	2.1	36.5	1905	1260
3x50	8.1	2.5	2.2	39	2345	1480
3x70	9.7	2.5	2.3	43	3065	1815
3x95	11.4	2.5	2.5	47	3965	2230
3x120	12.9	2.5	2.6	50.5	4785	2595
3x150	14.3	2.5	2.7	53.5	5680	2975
3x185	16	2.5	2.8	57.5	6865	3490
3x240	18.4	2.6	3	63.5	8755	4315
3x300	20.6	2.8	3.2	69.5	10780	5185
3x400	23.3	3	3.4	78	13675	6500
6/10(12) KV Three Cores XLPE Insulated Unarmoured Power Cable						
3x25	5.9	3.4	2.2	39	1805	1345
3x35	6.9	3.4	2.3	41	2180	1540
3x50	8.1	3.4	2.4	44	2640	1780
3x70	9.7	3.4	2.5	47.5	3380	2135
3x95	11.4	3.4	2.6	51.5	4285	2550
3x120	12.9	3.4	2.7	55	5125	2940
3x150	14.3	3.4	2.8	58	6040	3340
3x185	16	3.4	2.9	62	7250	3875
3x240	18.4	3.4	3.1	67.5	9140	4695
3x300	20.6	3.4	3.3	73	11105	5515
3x400	23.3	3.4	3.5	80	13900	6725
8.7/15(17.5) KV Three Cores XLPE Insulated Unarmoured Power Cable						
3x25	5.9	4.5	2.4	44	2125	1665
3x35	6.9	4.5	2.5	46.5	2515	1875
3x50	8.1	4.5	2.6	49	2995	2135
3x70	9.7	4.5	2.7	53	3765	2520
3x95	11.4	4.5	2.8	56.5	4695	2960
3x120	12.9	4.5	2.9	60	5560	3375
3x150	14.3	4.5	3	63	6495	3795
3x185	16	4.5	3.1	67	7735	4360
3x240	18.4	4.5	3.3	73	9660	5220
3x300	20.6	4.5	3.4	77.5	11630	6035
3x400	23.3	4.5	3.7	85	14510	7335
12/20(24) KV Three Cores XLPE Insulated Unarmoured Power Cable						
3x35	6.9	5.5	2.6	51.5	2865	2220
3x50	8.1	5.5	2.7	54	3365	2500
3x70	9.7	5.5	2.8	57.5	4155	2910
3x95	11.4	5.5	2.9	61.5	5110	3375
3x120	12.9	5.5	3	65	6000	3810
3x150	14.3	5.5	3.1	68	6955	4255
3x185	16	5.5	3.3	72	8255	4880
3x240	18.4	5.5	3.4	77.5	10185	5745
3x300	20.6	5.5	3.6	83	12225	6635
3x400	23.3	5.5	3.8	90	15115	7940

Medium Voltage XLPE Insulated Unarmoured Power Cable

Section	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	Kg/Km	
					CU	AL
18/30(36) KV Three Cores XLPE Insulated Unarmoured Power Cable						
3x50	8.1	8	3.1	66	4410	3550
3x70	9.7	8	3.2	69.5	5265	4020
3x95	11.4	8	3.3	73.5	6285	4550
3x120	12.9	8	3.4	77	7230	5040
3x150	14.3	8	3.5	80	8235	5535
3x185	16	8	3.6	84	9565	6190
3x240	18.4	8	3.8	89.5	11625	7180
3x300	20.6	8	4	95	13750	8160
3x400	23.3	8	4.2	102	16760	9585

Medium Voltage XLPE Insulated AWA Armoured Power Cable



Power Cable for Distribution

IEC 60502-2

Application

The cables are designed for distribution of electrical power with nominal voltage Uo/U ranging from 3.6/6KV to 18/30KV and frequency 50Hz. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

IEC 60502-2

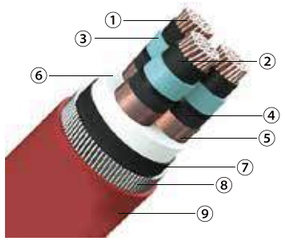
① Conductor: Class 2 Copper or Aluminum
② Conductor Screen: Semi-conductive Compound
③ Insulation: XLPE
④ Insulation Screen: Semi-conductive Compound
⑤ Metallic Screen: Copper Tape or Copper Tape + Copper Wire(Optional)
⑥ Bedding: PVC
⑦ Armour: Aluminum Wire
⑧ Sheath: PVC or PE/HDPE(Optional)

Section	Insulation Thickness	Bedding Thickness	Armour Diameter	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	mm	Kg/Km	
						CU	AL
3.6/6(7.2) KV Single Core XLPE Insulated AWA Armoured Power Cable							
1x25	2.5	1.2	1.6	1.8	21.5	740	590
1x35	2.5	1.2	1.6	1.8	22.5	855	645
1x50	2.5	1.2	1.6	1.8	24	1005	720
1x70	2.5	1.2	1.6	1.8	25.5	1245	835
1x95	2.5	1.2	1.6	1.9	27.5	1550	980
1x120	2.5	1.2	1.6	1.9	29	1820	1100
1x150	2.5	1.2	1.6	2	30.5	2120	1230
1x185	2.5	1.2	2	2	33	2590	1485
1x240	2.6	1.2	2	2.1	36	3225	1765
1x300	2.8	1.2	2	2.2	38.5	3895	2060
1x400	3	1.2	2	2.3	42.5	4845	2490
1x500	3.2	1.3	2.5	2.5	47.5	6115	3150
1x630	3.2	1.4	2.5	2.6	51.5	7625	3800
1x800	3.2	1.4	2.5	2.7	56.5	9465	4550
1x1000	3.2	1.5	2.5	2.9	61	11530	5390
6/10(12) KV Single Core XLPE Insulated AWA Armoured Power Cable							
1x25	3.4	1.2	1.6	1.8	23.5	830	675
1x35	3.4	1.2	1.6	1.8	24.5	950	740
1x50	3.4	1.2	1.6	1.8	26	1105	820
1x70	3.4	1.2	1.6	1.9	27.5	1360	950
1x95	3.4	1.2	1.6	1.9	29.5	1655	1085
1x120	3.4	1.2	1.6	2	31	1940	1220
1x150	3.4	1.2	2	2.1	33.5	2345	1455
1x185	3.4	1.2	2	2.1	35	2735	1625
1x240	3.4	1.2	2	2.2	38	3365	1905
1x300	3.4	1.2	2	2.2	40	3995	2155
1x400	3.4	1.2	2	2.4	43.5	4925	2570
1x500	3.4	1.3	2.5	2.5	48	6155	3190
1x630	3.4	1.4	2.5	2.6	52	7655	3830
1x800	3.4	1.4	2.5	2.7	57	9510	4600
1x1000	3.4	1.5	2.5	2.9	61.5	11580	5440

Medium Voltage XLPE Insulated AWA Armoured Power Cable

Section No.xmm²	Insulation Thickness mm	Bedding Thickness mm	Armour Diameter mm	Sheath Thickness mm	Overall Diameter mm	Cable Weight Kg/Km	
						CU	AL
8.7/15(17.5) KV Single Core XLPE Insulated AWA Armoured Power Cable							
1x25	4.5	1.2	1.6	1.8	26	935	780
1x35	4.5	1.2	1.6	1.9	27	1075	865
1x50	4.5	1.2	1.6	1.9	28.5	1230	945
1x70	4.5	1.2	1.6	1.9	30	1480	1070
1x95	4.5	1.2	2	2	32.5	1880	1310
1x120	4.5	1.2	2	2.1	34.5	2180	1460
1x150	4.5	1.2	2	2.1	35.5	2485	1595
1x185	4.5	1.2	2	2.2	37.5	2900	1790
1x240	4.5	1.2	2	2.3	40	3540	2080
1x300	4.5	1.2	2	2.3	42.5	4175	2340
1x400	4.5	1.3	2.5	2.5	47	5300	2945
1x500	4.5	1.3	2.5	2.6	50.5	6365	3400
1x630	4.5	1.4	2.5	2.7	54.5	7895	4070
1x800	4.5	1.5	2.5	2.8	59.5	9765	4855
1x1000	4.5	1.6	2.5	3	64	11870	5725
12/20(24) KV Single Core XLPE Insulated AWA Armoured Power Cable							
1x35	5.5	1.2	1.6	1.9	29.5	1190	980
1x50	5.5	1.2	1.6	2	30.5	1365	1080
1x70	5.5	1.2	2	2	33	1710	1300
1x95	5.5	1.2	2	2.1	35	2035	1465
1x120	5.5	1.2	2	2.1	36.5	2320	1605
1x150	5.5	1.2	2	2.2	38	2645	1760
1x185	5.5	1.2	2	2.2	39.5	3050	1945
1x240	5.5	1.2	2	2.3	42.5	3700	2240
1x300	5.5	1.3	2.5	2.4	46	4540	2705
1x400	5.5	1.3	2.5	2.5	49.5	5485	3130
1x500	5.5	1.4	2.5	2.6	52.5	6595	3630
1x630	5.5	1.4	2.5	2.8	56.5	8105	4280
1x800	5.5	1.5	2.5	2.9	62	10020	5110
1x1000	5.5	1.6	2.5	3	66.5	12125	5980
18/30(36) KV Single Core XLPE Insulated AWA Armoured Power Cable							
1x50	8	1.2	2	2.2	37	1810	1530
1x70	8	1.2	2	2.2	38.5	2085	1675
1x95	8	1.2	2	2.3	40.5	2425	1855
1x120	8	1.2	2	2.3	42	2725	2005
1x150	8	1.3	2.5	2.4	45	3245	2355
1x185	8	1.3	2.5	2.5	46.5	3695	2585
1x240	8	1.3	2.5	2.5	49	4340	2880
1x300	8	1.4	2.5	2.6	52	5065	3230
1x400	8	1.4	2.5	2.7	55	6040	3685
1x500	8	1.5	2.5	2.8	58.5	7155	4190
1x630	8	1.5	2.5	2.9	62	8700	4870
1x800	8	1.6	2.5	3.1	67.5	10690	5780
1x1000	8	1.7	2.5	3.2	72	12835	6695

Medium Voltage XLPE Insulated SWA Armoured Power Cable



- **Power Cable for Distribution**
- **IEC 60502-2**

Application

The cables are designed for distribution of electrical power with nominal voltage Uo/U ranging from 3.6/6KV to 18/30KV and frequency 50Hz. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

IEC 60502-2

① Conductor: Class 2 Copper or Aluminum
② Conductor Screen: Semi-conductive Compound
③ Insulation: XLPE
④ Insulation Screen: Semi-conductive Compound
⑤ Metallic Screen: Copper Tape or Copper Tape + Copper Wire(Optional)
⑥ Bedding: PVC
⑦ Filler: PP Fillers
⑧ Armour: Galvanised Steel Wire
⑨ Sheath: PVC or PE/HDPE(Optional)

Section No.xmm²	Insulation Thickness mm	Bedding Thickness mm	Armour Diameter mm	Sheath Thickness mm	Overall Diameter mm	Cable Weight Kg/Km	
						CU	AL
3.6/6(7.2) KV Three Cores XLPE Insulated SWA Armoured Power Cable							
3x25	2.5	1.2	2	2.3	39.5	2960	2500
3x35	2.5	1.2	2	2.3	42	3390	2745
3x50	2.5	1.3	2.5	2.5	46	4400	3535
3x70	2.5	1.4	2.5	2.6	50	5320	4075
3x95	2.5	1.4	2.5	2.7	54	6380	4645
3x120	2.5	1.5	2.5	2.8	57	7380	5195
3x150	2.5	1.5	2.5	2.9	60.5	8415	5710
3x185	2.5	1.6	2.5	3	64.5	9850	6475
3x240	2.6	1.7	2.5	3.2	70.5	12045	7605
3x300	2.8	1.8	3.15	3.5	78.5	15325	9730
3x400	3	2	3.15	3.8	87.5	18910	11735
6/10(12) KV Three Cores XLPE Insulated SWA Armoured Power Cable							
3x25	3.4	1.3	2.5	2.4	45.5	3795	3335
3x35	3.4	1.3	2.5	2.5	48	4305	3660
3x50	3.4	1.4	2.5	2.6	51	4920	4060
3x70	3.4	1.4	2.5	2.7	54.5	5845	4600
3x95	3.4	1.5	2.5	2.9	58.5	6955	5220
3x120	3.4	1.6	2.5	3	62	8000	5815
3x150	3.4	1.6	2.5	3.1	65	9055	6355
3x185	3.4	1.7	2.5	3.2	69.5	10525	7145
3x240	3.4	1.8	3.15	3.4	76.5	13605	9160
3x300	3.4	1.9	3.15	3.6	82	15905	10310
3x400	3.4	2	3.15	3.8	89	19235	12060

Medium Voltage XLPE Insulated SWA Armoured Power Cable

Section	Insulation Thickness	Bedding Thickness	Armour Diameter	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	mm	Kg/Km	
						CU	AL
8.7/15(17.5) KV Three Cores XLPE Insulated SWA Armoured Power Cable							
3x25	4.5	1.4	2.5	2.6	51	4405	3945
3x35	4.5	1.4	2.5	2.7	53	4890	4250
3x50	4.5	1.5	2.5	2.8	56	5505	4645
3x70	4.5	1.5	2.5	2.9	59.5	6455	5210
3x95	4.5	1.6	2.5	3	63.5	7635	5900
3x120	4.5	1.7	2.5	3.1	67.5	8710	6520
3x150	4.5	1.7	2.5	3.2	70.5	9785	7080
3x185	4.5	1.8	3.15	3.4	76	12135	8755
3x240	4.5	1.9	3.15	3.6	82	14460	10015
3x300	4.5	2	3.15	3.7	87	16820	11230
3x400	4.5	2.1	3.15	4	94.5	20190	13010
12/20(24) KV Three Cores XLPE Insulated SWA Armoured Power Cable							
3x35	5.5	1.5	2.5	2.8	58	5505	4865
3x50	5.5	1.6	2.5	2.9	61	6165	5305
3x70	5.5	1.6	2.5	3.1	65	7170	5925
3x95	5.5	1.7	2.5	3.2	69	8340	6605
3x120	5.5	1.7	3.15	3.3	73.5	10285	8100
3x150	5.5	1.8	3.15	3.4	77	11425	8725
3x185	5.5	1.9	3.15	3.6	81.5	13045	9670
3x240	5.5	2	3.15	3.7	87	15375	10935
3x300	5.5	2	3.15	3.9	92	17715	12125
3x400	5.5	2.2	3.15	4.1	99.5	21090	13915
18/30(36) KV Three Cores XLPE Insulated SWA Armoured Power Cable							
3x50	8	1.8	3.15	3.4	75	8800	7940
3x70	8	1.8	3.15	3.5	78.5	9875	8625
3x95	8	1.9	3.15	3.6	82.5	11150	9415
3x120	8	2	3.15	3.7	86.5	12350	10165
3x150	8	2	3.15	3.8	89.5	13575	10875
3x185	8	2.1	3.15	4	94	15210	11835
3x240	8	2.2	3.15	4.1	99	17595	13150
3x300	8	2.3	3.15	4.3	104.5	20130	14535
3x400	8	2.4	3.15	4.5	112	23630	16455

Medium Voltage XLPE Insulated STA Armoured Power Cable

Power Cable for Distribution

IEC 60502-2

Application

The cables are designed for distribution of electrical power with nominal voltage Uo/U ranging from 3.6/6KV to 18/30KV and frequency 50Hz. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

IEC 60502-2

① Conductor: Class 2 Copper or Aluminum
② Conductor Screen: Semi-conductive Compound
③ Insulation: XLPE
④ Insulation Screen: Semi-conductive Compound
⑤ Metallic Screen: Copper Tape or Copper Tape + Copper Wire(Optional)
⑥ Bedding: PVC
⑦ Filler: PP Fillers
⑧ Armour: Steel Tape
⑨ Sheath: PVC or PE/HDPE(Optional)

Section	Insulation Thickness	Bedding Thickness	Armour Thickness	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	mm	Kg/Km	
						CU	AL
3.6/6(7.2) KV Three Cores XLPE Insulated STA Armoured Power Cable							
3x25	2.5	1.2	0.5	2.2	37.5	2215	1755
3x35	2.5	1.2	0.5	2.3	40	2615	1975
3x50	2.5	1.3	0.5	2.4	43	3130	2270
3x70	2.5	1.4	0.5	2.5	46.5	3940	2695
3x95	2.5	1.4	0.5	2.6	50.5	4895	3160
3x120	2.5	1.5	0.5	2.7	54	5805	3620
3x150	2.5	1.5	0.5	2.8	57	6735	4030
3x185	2.5	1.6	0.5	2.9	61	8025	4650
3x240	2.6	1.7	0.5	3.1	67.5	10060	5620
3x300	2.8	1.8	0.5	3.3	73.5	12235	6640
3x400	3	2	0.8	3.6	84	16240	9060
6/10(12) KV Three Cores XLPE Insulated STA Armoured Power Cable							
3x25	3.4	1.3	0.5	2.3	42	2565	2100
3x35	3.4	1.3	0.5	2.4	44.5	2980	2335
3x50	3.4	1.4	0.5	2.5	47.5	3515	2650
3x70	3.4	1.4	0.5	2.6	51	4325	3080
3x95	3.4	1.5	0.5	2.7	55.5	5330	3595
3x120	3.4	1.6	0.5	2.9	59	6265	4080
3x150	3.4	1.6	0.5	3	62	7240	4535
3x185	3.4	1.7	0.5	3.1	66	8560	5180
3x240	3.4	1.8	0.5	3.3	72	10590	6145
3x300	3.4	1.9	0.5	3.4	77	12660	7070
3x400	3.4	2	0.8	3.7	86	16520	9340

Medium Voltage XLPE Insulated STA Armoured Power Cable

Section No.xmm²	Insulation Thickness mm	Bedding Thickness mm	Armour Thickness mm	Sheath Thickness mm	Overall Diameter mm	Cable Weight Kg/Km	
						CU	AL
8.7/15(17.5) KV Three Cores XLPE Insulated STA Armoured Power Cable							
3x25	4.5	1.4	0.5	2.5	47.5	3000	2540
3x35	4.5	1.4	0.5	2.6	50	3435	2790
3x50	4.5	1.5	0.5	2.7	53	3990	3130
3x70	4.5	1.5	0.5	2.8	56.5	4805	3555
3x95	4.5	1.6	0.5	2.9	60.5	5835	4100
3x120	4.5	1.7	0.5	3	64	6800	4610
3x150	4.5	1.7	0.5	3.1	67	7795	5090
3x185	4.5	1.8	0.5	3.3	71.5	9175	5800
3x240	4.5	1.9	0.5	3.4	77	11215	6775
3x300	4.5	2	0.8	3.6	83.5	14185	8590
3x400	4.5	2.1	0.8	3.9	91	17330	10155
12/20(24) KV Three Cores XLPE Insulated STA Armoured Power Cable							
3x35	5.5	1.5	0.5	2.7	55	3905	3260
3x50	5.5	1.6	0.5	2.8	58	4460	3595
3x70	5.5	1.6	0.5	2.9	61.5	5320	4075
3x95	5.5	1.7	0.5	3.1	66	6410	4675
3x120	5.5	1.7	0.5	3.2	69	7365	5180
3x150	5.5	1.8	0.5	3.3	72.5	8420	5720
3x185	5.5	1.9	0.5	3.4	76.5	9800	6425
3x240	5.5	2	0.8	3.6	83.5	12740	8300
3x300	5.5	2	0.8	3.8	89	14935	9345
3x400	5.5	2.2	0.8	4	96.5	18140	10965
18/30(36) KV Three Cores XLPE Insulated STA Armoured Power Cable							
3x50	8	1.8	0.5	3.2	70.5	5800	4940
3x70	8	1.8	0.5	3.3	74	6725	5475
3x95	8	1.9	0.5	3.5	78	7895	6160
3x120	8	2	0.8	3.6	83	9760	7575
3x150	8	2	0.8	3.7	86	10865	8165
3x185	8	2.1	0.8	3.9	90.5	12400	9025
3x240	8	2.2	0.8	4	96	14640	10195
3x300	8	2.3	0.8	4.2	101.5	16930	11335
3x400	8	2.4	0.8	4.4	108.5	20210	13035

PART V Control Cable

Unarmoured Control Cable

Cooper Braiding Screen Armoured Control Cable

CTS Armoured Control Cable

SWA Armoured Control Cable

450/750 V & 0.6/1 KV
PVC Insulated Unarmoured Control Cable

Control Cable for Interconnection in Systems

IEC 60227 **IEC 60502-1**

Application

PVC insulated and sheathed control cable is suitable for the interconnection in controlling, signalling, protecting and measuring systems with rated voltages up to and including 450/750 V or 0.6/1 kV.

IEC 60227/IEC 60502-1

① Conductor: Class 1/Class 2 Copper
② Insulation: PVC
③ Sheath: PVC

Section	Insulation Thichness		Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
2x0.75	0.6	0.8	1.2	1.8	7.6	9.6	63	98
2x1	0.6	0.8	1.2	1.8	8.0	10.0	71	108
2x1.5	0.7	0.8	1.2	1.8	8,9	10.5	94	124
2x2.5	0.8	0.8	1.2	1.8	10.3	11.5	127	157
2x4	0.8	1.0	1.2	1.8	11.3	13.3	166	215
2x6	0.8	1.0	1.2	1.8	12.4	14.4	216	269
2x10	1.0	1.0	1.5	1.8	15.7	16.3	353	374
3x0.75	0.6	0.8	1.2	1.8	7.7	9.7	72	109
3x1	0.6	0.8	1.2	1.8	8.0	10.1	83	122
3x1.5	0.7	0.8	1.2	1.8	9.0	10.6	109	143
3x2.5	0.8	0.8	1.2	1.8	10.3	11.5	153	183
3x4	0.8	1.0	1.2	1.8	11.3	13.4	206	259
3x6	0.8	1.0	1.5	1.8	13.0	14.5	292	332
3x10	1.0	1.0	1.5	1.8	16.6	17.2	467	490
4x0.75	0.6	0.8	1.2	1.8	8.6	10.7	91	134
4x1	0.6	0.8	1.2	1.8	9.0	11.2	105	151
4x1.5	0.7	0.8	1.2	1.8	10.1	11.8	139	178
4x2.5	0.8	0.8	1,2	1,8	11.8	13.0	201	235
4x4	0.8	1.0	1,5	1.8	13,6	15.2	288	333
4x6	1.0	1.0	1.5	1.8	15.0	16.6	380	429
4x10	1.0	1.0	1.5	1.8	18.2	18.8	594	619
5x0.75	0.6	0.8	1.2	1.8	8.9	11.1	102	149
5x1	0.6	0.8	1.2	1.8	9.3	11.6	119	168
5x1.5	0.7	0.8	1.2	1.8	10.5	12.2	159	201
5x2.5	0.8	0.8	1.5	1.8	12.7	13.3	247	264
5x4	0.8	1.0	1.5	1.8	14.0	15.7	334	383
5x6	0.8	1.0	1.5	1.8	15.4	17.1	447	500
5x10	1.0	1.0	1.7	1.8	20.3	20.5	743	752
6x0.75	0.6	0.8	1.2	1.8	9.9	12.3	120	174
6x1	0.6	0.8	1,2	1.8	10.5	12.9	141	197
6x1.5	0.7	0.8	1.2	1.8	11.9	13.7	188	236
6x2.5	0.8	0.8	1.5	1.8	14.5	15.1	296	317

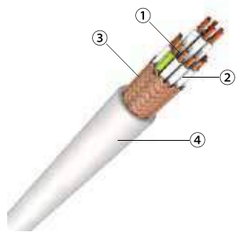
450/750 V & 0.6/1 KV
PVC Insulated Unarmoured Control Cable

Section	Insulation Thichness		Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
6x4	0.8	1.0	1.5	1.8	16.1	17.9	397	455
6x6	0.8	1.0	1.5	1.8	17.8	19.6	544	610
6x10	1.0	1.0	1.7	1.8	22.2	22.4	879	889
7x0.75	0.6	0.8	1.2	1.8	9.5	11.9	123	176
7x1	0.6	0.8	1.2	1.8	10.0	12.4	146	200
7x1.5	0.7	0.8	1.2	1.8	11.3	13.1	198	244
7x2.5	0.8	0.8	1.5	1.8	13.7	14.3	308	327
7x4	0.8	1.0	1.5	1.8	15.2	17.0	423	480
7x6	0.8	1.0	1.5	1.8	16.7	18.5	585	649
7x10	1.0	1.0	1.7	1.8	22.2	22.4	975	985
8x0.75	0.6	0.8	1.2	1.8	10.6	13.1	147	208
8x1	0.6	0.8	1,2	1.8	11.2	13.7	174	237
8x1.5	0.7	0.8	1.2	1.8	13.4	14.6	251	287
8x2.5	0.8	0.8	1.5	1.8	15.6	16.2	370	392
8x4	0.8	1.0	1.5	1.8	17.3	19.2	502	569
8x6	0.8	1.0	1.7	1.8	19.6	21.1	693	750
8x10	1.0	1.0	1.7	1.8	24.0	24.2	1097	1108
10x0.75	0.6	0.8	1.2	1.8	11.7	14.5	172	241
10x1	0.6	0.8	1.2	1.8	12.9	15.1	221	277
10x1.5	0.7	0.8	1.2	1.8	14.7	16.1	299	340
10x2.5	0.8	0.8	1.5	1.8	17.1	17.7	435	459
10x4	0.8	1.0	1.5	1.8	19.4	21.2	619	680
10x6	0.8	1.0	1.5	1.8	21.4	23.2	837	904
10x10	1.0	1.0	1.7	1.9	28.2	28.6	1366	1391
12x0.75	0.6	0.8	1.5	1.8	13.2	15.5	222	283
12x1	0.6	0.8	1.5	1.8	13.9	16.2	262	326
12x1.5	0.7	0.8	1.5	1.8	15.9	17.3	352	398
12x2.5	0.8	0.8	1.5	1.8	19.1	19.3	543	552
12x4	0.8	1.0	1.7	1.8	21.2	23.1	739	811
12x6	0.8	1.0	1.7	1.8	23.6	15.5	998	1078
14x0.75	0.6	0.8	1.5	1.8	13.8	16.2	249	316
14x1	0.6	0.8	1.5	1.8	14.6	17.0	296	366
14x1.5	0.7	0.8	1.5	1.8	16.7	18.1	399	450
14x2.5	0.8	0.8	1.5	1.8	19.7	20.3	600	627
14x4	0.8	1.0	1.7	1.8	22.3	24.3	844	926
14x6	0.8	1.0	1.7	1.8	24.8	26.8	1145	1236
16x0.75	0.6	0.8	1.5	1.8	14.5	16.9	278	351
16x1	0.6	0.8	1.5	1.8	15.3	17.8	330	408
16x1.5	0.7	0.8	1.5	1.8	17.5	19.1	448	503
16x2.5	0.8	0.8	1.7	1.8	21.1	21.3	694	704
19x0.75	0.6	0.8	1.5	1.8	15.2	17.8	312	393
19x1	0.6	0.8	1.5	1.8	16.1	18.7	373	458
19x1.5	0.7	0.8	1.5	1.8	18.4	20.1	508	568
19x2.5	0.8	0.8	1.7	1.8	22.2	22.4	791	801

450/750 V & 0.6/1 KV PVC Insulated Unarmoured Control Cable

Section	Insulation Thichness		Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
24x0.75	0.6	0.8	1.5	1.8	17.5	20.5	386	484
24x1	0.6	0.8	1.5	1.8	18.5	21.5	462	566
24x1.5	0.7	0.8	1.7	1.8	21.8	23.2	651	704
24x2.5	0.8	0.8	1.7	1.8	25.8	26.0	986	998
27x0.75	0.6	0.8	1.5	1.8	17.8	20.9	422	528
27x1	0.6	0.8	1.5	1.8	18.9	22.0	507	619
27x1.5	0.7	0.8	1.7	1.8	11.2	23.6	716	774
27x2.5	0.8	0.8	1.7	1.8	26.4	26.6	1089	1101
30x0.75	0.6	0.8	1.7	1.8	18.4	21.6	461	575
30x1	0.6	0.8	1.7	1.8	20.0	22.7	572	675
30x1.5	0.7	0.8	1.7	1.8	23.3	24.5	784	846
30x2.5	0.8	0.8	1.7	1.8	27.3	27.5	1196	1209
37x0.75	0.6	0.8	1.7	1.8	20.1	23.2	568	684
37x1	0.6	0.8	1.7	1.8	21.4	24.4	684	806
37x1.5	0.7	0.8	1.7	1.8	24.7	26.3	941	1014
37x2.5	0.8	0.8	1.7	1.9	29.5	29.9	1445	1471
44x0.75	0.6	0.8	1.7	1.8	22.5	25.9	666	802
44x1	0.6	0.8	1.7	1.8	23.9	27.3	803	947
44x1.5	0.7	0.8	1.7	1.8	27.7	29.7	1108	1207
44x2.5	0.8	0.8	1.7	1.8	33.7	33.7	1750	1750
48x0.75	0.6	0.8	1.7	1.8	22.8	26.3	714	860
48x1	0.6	0.8	1.7	1.8	24.3	27.8	863	1017
48x1.5	0.7	0.8	1.7	1.9	28.1	30.2	1193	1299
48x2.5	0.8	0.8	2.0	2.1	34.3	34.5	1888	1903
52x0.75	0.6	0.8	1.7	1.8	23.4	27.0	764	920
52x1	0.6	0.8	1.7	1.9	25.0	28.7	925	1103
52x1.5	0.7	0.8	1.7	2	18.9	31.2	1281	1408
52x2.5	0.8	0.8	2.0	2.1	35.2	35.4	2029	2045
61x0.75	0.6	0.8	1.7	1.9	24.8	28.8	878	1069
61x1	0.6	0.8	1.7	1.9	26.4	30.4	1065	1268
61x1.5	0.7	0.8	2.0	2.0	31.2	33.0	1521	1621
61x2.5	0.8	0.8	2.0	2.2	37.4	37.8	2346	2380

450/750 V & 0.6/1 KV PVC Insulated Copper Braiding Screen Unarmoured Control Cable



Control Cable for Interconnection in Systems

IEC 60227 **IEC 60502-1**

Application

PVC insulated and sheathed control cable is suitable for the interconnection in controlling, signalling, protecting and measuring systems with rated voltages up to and including 450/750 V or 0.6/1 kV.

IEC 60227/IEC 60502-1

① Conductor: Class 1/Class 2 Copper
② Insulation: PVC
③ Screen: Copper Braiding
④ Sheath: PVC

Section	Insulation Thichness		Screen Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
2x0.75	0.6	0.8	0.15	1.2	1.8	8.1	9.9	86	126
2x1	0.6	0.8	0.15	1.2	1.8	8.4	10.3	96	137
2x1.5	0.7	0.8	0.15	1.2	1.8	9.4	10.8	120	156
2x2.5	0.8	0.8	0.15	1.2	1.8	10.7	11.8	162	193
2x4	0.8	1.0	0.2	1.5	1.8	12.6	13.8	234	273
2x6	0.8	1.0	0.2	1.5	1.8	13.7	14.9	292	333
2x10	1.0	1.0	0.2	1.5	1.8	16.4	16.8	427	449
3x0.75	0.6	0.8	0.15	1.2	1.8	8.4	10.3	101	144
3x1	0.6	0.8	0.15	1.2	1.8	8.8	10.7	114	158
3x1.5	0.7	0.8	0.15	1.2	1.8	9.8	11.3	144	182
3x2.5	0.8	0.8	0.15	1.2	1.8	11.3	12.3	199	231
3x4	0.8	1.0	0.2	1.5	1.8	13.2	14.5	288	332
3x6	0.8	1.0	0.2	1.5	1.8	14.4	15.7	367	414
3x10	1.0	1.0	0.2	1.5	1.8	17.3	17.7	548	572
4x0.75	0.6	0.8	0.15	1.2	1.8	9.0	11.0	119	167
4x1	0.6	0.8	0.15	1.2	1.8	9.5	11.5	135	185
4x1.5	0.7	0.8	0.15	1.2	1.8	10.6	12.1	173	216
4x2.5	0.8	0.8	0.2	1.5	1.8	13.0	13.5	273	291
4x4	0.8	1.0	0.2	1.5	1.8	14.3	15.7	351	402
4x6	1.0	1.0	0.2	1.5	1.8	15.6	17.1	452	507
4x10	1.0	1.0	0.2	1.7	1.8	19.3	19.3	702	711
5x0.75	0.6	0.8	0.15	1.2	1.8	9.7	11.8	137	191
5x1	0.6	0.8	0.15	1.2	1.8	10.2	12.3	157	214
5x1.5	0.7	0.8	0.15	1.2	1.8	11.4	13.0	203	250
5x2.5	0.8	0.8	0.2	1.5	1.8	14.1	14.5	322	341
5x4	0.8	1.0	0.2	1.5	1.8	15.5	17.0	417	475
5x6	0.8	1.0	0.2	1.5	1.8	17.0	18.5	541	604
5x10	1.0	1.0	0.2	1.7	1.8	21.0	21.0	845	854
6x0.75	0.6	0.8	0.15	1.2	1.8	10.4	12.6	154	213
6x1	0.6	0.8	0.15	1.2	1.8	10.9	13.2	177	238
6x1.5	0.7	0.8	0.15	1.5	1.8	12.9	14.0	247	281
6x2.5	0.8	0.8	0.2	1.5	1.8	15.2	15.6	364	385
6x4	0.8	1.0	0.2	1.5	1.8	16.7	18.4	485	552
6x6	0.8	1.0	0.2	1.5	1.8	18.4	20.1	633	705
6x10	1.0	1.0	0.2	1.7	1.8	22.8	22.9	993	1004

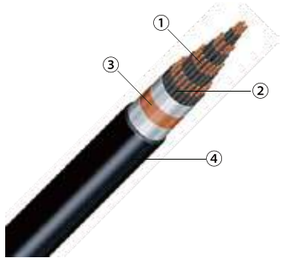
450/750 V & 0.6/1 KV PVC Insulated Copper Braiding Screen Unarmoured Control Cable

Section	Insulation Thichness		Screen Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
7x0.75	0.6	0.8	0.15	1.2	1.8	10.4	12.6	163	223
7x1	0.6	0.8	0.15	1.2	1.8	10.9	13.2	188	251
7x1.5	0.7	0.8	0.2	1.5	1.8	12.9	14.0	263	298
7x2.5	0.8	0.8	0.2	1.5	1.8	15.1	15.6	392	413
7x4	0.8	1.0	0.2	1.5	1.8	16.7	18.4	526	594
7x6	0.8	1.0	0.2	1.5	1.8	18.4	20.1	691	766
7x10	1.0	1.0	0.2	1.7	1.8	22.8	22.9	1091	1101
8x0.75	0.6	0.8	0.15	1.2	1.8	11.1	13.4	183	250
8x1	0.6	0.8	0.15	1.5	1.8	12.3	14.0	229	283
8x1.5	0.7	0.8	0.2	1.5	1.8	14.0	15.1	313	353
8x2.5	0.8	0.8	0.2	1.5	1.8	16.3	16.7	445	467
8x4	0.8	1.0	0.2	1.7	1.8	18.3	19.7	603	663
8x6	0.8	1.0	0.2	1.7	1.8	20.2	21.6	792	856
8x10	1.0	1.0	0.3	1.7	1.8	24.8	24.9	1252	1263
10x0.75	0.6	0.8	0.2	1.5	1.8	13.5	15.5	255	320
10x1	0.6	0.8	0.2	1.5	1.8	14.2	16.3	294	361
10x1.5	0.7	0.8	0.2	1.5	1.8	16.1	17.3	382	430
10x2.5	0.8	0.8	0.2	1.5	1.8	18.8	19.3	547	572
10x4	0.8	1.0	0.2	1.7	1.8	21.3	22.9	743	816
10x6	0.8	1.0	0.3	1.7	1.8	13.7	25.4	1005	1086
10x10	1.0	1.0	0.25	1.7	1.8	29.1	29.3	1552	1578
12x0.75	0.6	0.8	0.2	1.5	1.8	13.8	16.0	282	352
12x1	0.6	0.8	0.2	1.5	1.8	14.6	16.7	326	400
12x1.5	0.7	0.8	0.2	1.5	1.8	16.5	17.8	428	479
12x2.5	0.8	0.8	0.2	1.7	1.8	19.8	19.8	636	654
12x4	0.8	1.0	0.2	1.7	1.8	21.9	23.6	846	928
12x6	0.8	1.0	0.3	1.7	1.8	24.5	26.2	1150	1241
14x0.75	0.6	0.8	0.2	1.5	1.8	14.4	16.7	313	390
14x1	0.6	0.8	0.2	1.5	1.8	15.2	17.5	364	444
14x1.5	0.7	0.8	0.2	1.5	1.8	17.3	18.6	479	535
14x2.5	0.8	0.8	0.2	1.7	1.8	20.7	20.8	717	726
14x4	0.8	1.0	0.2	1.7	1.8	23.0	24.8	959	1050
14x6	0.8	1.0	0.25	1.7	1.8	25..7	17.5	1306	1409
16x0.75	0.6	0.8	0.2	1.5	1.8	15.1	17.4	345	429
16x1	0.6	0.8	0.2	1.5	1.8	16.0	18.3	402	490
16x1.5	0.7	0.8	0.2	1.5	1.8	18.2	19.6	533	593
16x2.5	0.8	0.8	0.2	1.7	1.8	21.8	21.8	800	809
19x0.75	0.6	0.8	0.2	1.5	1.8	15.8	18.3	383	475
19x1	0.6	0.8	0.2	1.5	1.8	16.7	19.2	450	546
19x1.5	0.7	0.8	0.2	1.7	1.8	19.5	20.5	616	665
19x2.5	0.8	0.8	0.2	1.7	1.8	22.9	22.9	904	914
24x0.75	0.6	0.8	0.2	1.5	1.8	18.1	21.0	469	581
24x1	0.6	0.8	0.2	1.7	1.8	19.6	22.2	570	670
24x1.5	0.7	0.8	0.2	1.7	1.8	22.4	23.7	759	818
24x2.5	0.8	0.8	0.25	1.7	1.8	26.7	26.7	1150	1162
27x0.75	0.6	0.8	0.2	1.5	1.8	18.5	21.4	508	628
27x1	0.6	0.8	0.2	1.7	1.8	20.0	22.5	618	726
27x1.5	0.7	0.8	0.2	1.7	1.8	22.9	24.1	827	891
27x2.5	0.8	0.8	0.25	1.7	1.8	27.3	27.3	1258	1271

450/750 V & 0.6/1 KV PVC Insulated Copper Braiding Screen Unarmoured Control Cable

Section	Insulation Thichness		Screen Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
30x0.75	0.6	0.8	0.2	1.7	1.8	19.5	22.1	568	679
30x1	0.6	0.8	0.2	1.7	1.8	20.6	23.2	670	787
30x1.5	0.7	0.8	0.25	1.7	1.8	23.8	25.2	916	997
30x2.5	0.8	0.8	0.25	1.7	1.8	28.2	28.2	1373	1385
37x0.75	0.6	0.8	0.2	1.7	1.8	20.8	23.7	666	797
37x1	0.6	0.8	0.2	1.7	1.8	22.1	24.9	790	928
37x1.5	0.7	0.8	0.2	1.7	1.8	25.6	27.0	1096	1179
37x2.5	0.8	0.8	0.25	2.0	2.0	30.9	30.8	1679	1679
44x0.75	0.6	0.8	0.25	1.7	1.8	23.3	26.6	803	960
44x1	0.6	0.8	0.25	1.7	1.8	24.8	28.0	952	1117
44x1.5	0.7	0.8	0.25	1.7	1.9	28.5	30.4	1284	1395
44x2.5	0.8	0.8	0.3	2.0	2.1	34.8	34.8	2011	2027
48x0.75	0.6	0.8	0.25	1.7	1.8	23.7	27.0	854	1021
48x1	0.6	0.8	0.25	1.7	1.8	25.2	28.5	1015	1191
48x1.5	0.7	0.8	0.25	1.7	1.9	29.0	30.9	1374	1491
48x2.5	0.8	0.8	0.3	2.0	2.1	35.3	35.4	2155	2171
52x0.75	0.6	0.8	0.25	1.7	1.8	24.3	27.7	909	1087
52x1	0.6	0.8	0.25	1.7	1.9	25.8	29.4	1082	1282
52x1.5	0.7	0.8	0.25	2.0	2.0	30.4	31.9	1508	1606
52x2.5	0.8	0.8	0.3	2.2	2.2	36.7	36.5	2338	2338
61x0.75	0.6	0.8	0.25	1.7	1.9	25.6	29.5	1032	1248
61x1	0.6	0.8	0.25	1.7	2.0	27.3	31.3	1233	1474
61x1.5	0.7	0.8	0.25	2.0	2.0	32.1	33.7	1722	1834
61x2.5	0.8	0.8	0.3	2.2	2.2	38.8	38.7	2678	2678

450/750 V & 0.6/1 KV PVC Insulated Copper Tape Screened Unarmoured Control Cable



Control Cable for Interconnection in Systems

IEC 60227 **IEC 60502-1**

Application

PVC insulated and sheathed control cable is suitable for the interconnection in controlling, signalling, protecting and measuring systems with rated voltages up to and including 450/750 V or 0.6/1 kV.

IEC 60227/IEC 60502-1

① Conductor: Class 1/Class 2 Copper
② Insulation: PVC
③ Screen: Copper Tape
④ Sheath: PVC

Section	Insulation Thichness		Screen Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
2x1.5	0.7	0.8	1x0.05	1.2	1.8	8.6	9.6	104	130
2x2.5	0.8	0.8	1x0.05	1.2	1.8	9.8	10.8	153	166
2x4	0.8	1.0	1x0.05	1.2	1.8	10.7	11.8	194	216
2x6	0.8	1.0	1x0.05	1.2	1.8	11.7	12.8	246	270
2x10	1.0	1.0	1x0.05	1.5	1.8	15.7	16.2	399	405
3x1.5	0.7	0.8	1x0.05	1.2	1.8	9.0	10.0	126	155
3x2.5	0.8	0.8	1x0.05	1.2	1.8	10.3	11.3	187	201
3x4	0.8	1.0	1x0.05	1.2	1.8	11.3	12.3	244	270
3x6	0.8	1.0	1x0.05	1.2	1.8	12.4	13.4	316	345
3x10	1.0	1.0	1x0.05	1.5	1.8	16.6	17.1	517	524
4x0.75	0.6	0.8	1x0.05	1.2	1.8	8.2	10.3	102	145
4x1	0.6	0.8	1x0.05	1.2	1.8	8.6	10.6	117	161
4x1.5	0.7	0.8	1x0.05	1.2	1.8	9.7	11.2	152	190
4x2.5	0.8	0.8	1x0.05	1.5	1.8	11.8	12.2	228	243
4x4	0.8	1.0	1x0.05	1.5	1.8	12.9	14.3	301	344
4x6	0.8	1.0	1x0.05	1.5	1.8	14.1	15.5	394	441
4x10	1.0	1.0	1x0.05	1.7	1.8	18.6	18.7	650	657
5x0.75	0.6	0.8	1x0.05	1.2	1.8	8.9	11.0	119	167
5x1	0.6	0.8	1x0.05	1.2	1.8	9.3	11.4	137	187
5x1.5	0.7	0.8	1x0.05	1.5	1.8	11.1	12.1	194	221
5x2.5	0.8	0.8	1x0.05	1.5	1.8	12.7	13.2	270	287
5x4	0.8	1.0	1x0.05	1.5	1.8	14.0	15.5	360	410
5x6	0.8	1.0	1x0.05	1.5	1.8	15.4	16.9	475	530
5x10	1.0	1.0	1x0.05	1.7	1.8	20.3	20.4	787	795
6x0.75	0.6	0.8	1x0.05	1.2	1.8	9.5	11.8	133	185
6x1	0.6	0.8	1x0.05	1.2	1.8	10.0	12.2	154	208
6x1.5	0.7	0.8	1x0.05	1.5	1.8	11.9	13.0	219	249
6x2.5	0.8	0.8	1x0.05	1.5	1.8	13.7	14.2	307	325
6x4	0.8	1.0	1x0.05	1.5	1.8	15.2	16.8	412	467
6x6	0.8	1.0	1x0.05	1.5	1.8	16.7	18.3	558	621
6x10	1.0	1.0	1x0.05	1.7	1.8	22.2	22.2	928	937

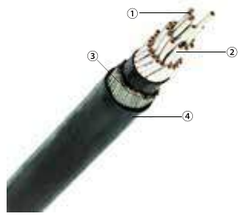
450/750 V & 0.6/1 KV PVC Insulated Copper Tape Screened Unarmoured Control Cable

Section	Insulation Thichness		Screen Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
7x0.75	0.6	0.8	1x0.05	1.2	1.8	9.5	11.8	142	195
7x1	0.6	0.8	1x0.05	1.2	1.8	10.0	12.2	165	221
7x1.5	0.7	0.8	1x0.05	1.5	1.8	11.9	13.0	235	266
7x2.5	0.8	0.8	1x0.05	1.5	1.8	13.7	14.2	333	351
7x4	0.8	1.0	1x0.05	1.5	1.8	15.2	16.8	451	509
7x6	0.8	1.0	1x0.05	1.5	1.8	16.7	18.3	616	681
7x10	1.0	1.0	1x0.05	1.7	1.8	22.2	22.2	1025	1034
8x0.75	0.6	0.8	1x0.05	1.5	1.8	10.8	12.5	174	219
8x1	0.6	0.8	1x0.05	1.5	1.8	11.3	13.1	201	249
8x1.5	0.7	0.8	1x0.05	1.5	1.8	12.8	13.9	266	301
8x2.5	0.8	0.8	1x0.05	1.5	1.8	14.8	15.2	379	398
8x4	0.8	1.0	1x0.05	1.7	1.8	16.7	18.1	530	581
8x6	0.8	1.0	1x0.05	1.7	1.8	18.4	19.8	708	763
8x10	1.0	1.0	1x0.05	1.7	1.8	24.0	24.0	1152	1162
10x0.75	0.6	0.8	1x0.05	1.5	1.8	12.3	14.3	211	266
10x1	0.6	0.8	1x0.05	1.5	1.8	12.9	15.0	245	302
10x1.5	0.7	0.8	1x0.05	1.5	1.8	14.7	16.0	326	367
10x2.5	0.8	0.8	1x0.05	1.7	1.8	17.5	17.6	482	489
10x4	0.8	1.0	1x0.05	1.7	1.8	19.4	21.1	654	717
10x6	0.8	1.0	1x0.05	1.7	1.8	21.4	23.1	876	945
10x10	1.0	1.0	1x0.05	1.7	1.8	28.2	28.3	1432	1443
12x0.75	0.6	0.8	1x0.05	1.5	1.8	12.6	14.7	235	295
12x1	0.6	0.8	1x0.05	1.5	1.8	13.3	15.4	275	338
12x1.5	0.7	0.8	1x0.05	1.5	1.8	15.1	16.4	369	413
12x2.5	0.8	0.8	1x0.05	1.7	1.8	18.0	18.1	549	556
12x4	0.8	1.0	1x0.05	1.7	1.8	20.0	21.7	752	622
12x6	0.8	1.0	1x0.05	1.7	1.8	22.1	23.8	1014	1091
14x0.75	0.6	0.8	1x0.05	1.5	1.8	13.2	15.4	262	328
14x1	0.6	0.8	1x0.05	1.5	1.8	13.9	16.1	308	377
14x1.5	0.7	0.8	1x0.05	1.5	1.8	15.9	17.2	416	464
14x2.5	0.8	0.8	1x0.05	1.7	1.8	18.9	19.0	622	630
14x4	0.8	1.0	1x0.05	1.7	1.8	21.0	22.8	856	936
14x6	0.8	1.0	1x0.05	1.7	1.8	23.2	25.1	1160	1247
16x0.75	0.6	0.8	1x0.05	1.5	1.8	13.8	16.1	290	363
16x1	0.6	0.8	1x0.05	1.5	1.8	14.6	16.9	342	419
16x1.5	0.7	0.8	1x0.05	1.5	1.8	16.7	18.1	464	517
16x2.5	0.8	0.8	1x0.05	1.7	1.8	19.9	19.9	697	705
19x0.75	0.6	0.8	1x0.05	1.5	1.8	14.5	16.9	325	404
19x1	0.6	0.8	1x0.05	1.5	1,8	15.3	17.7	385	469
19x1.5	0.7	0.8	1x0.05	1.7	1.8	17.9	19.0	541	583
19x2.5	0.8	0.8	1x0.05	1.7	1.8	20.9	21.0	792	801
24x0.75	0.6	0.8	1x0.05	1.5	1.8	16.6	19.5	398	496
24x1	0.6	0.8	1x0.05	1.7	1.8	18.0	20.4	490	577
24x1.5	0.7	0.8	1x0.05	1.7	1.8	20.7	21.9	669	720
24x2.5	0.8	0.8	1x0.05	1.7	1.8	24.3	24.3	984	994
27x0.75	0.6	0.8	1x0.05	1.7	1.8	17.4	19.9	450	539
27x1	0.6	0.8	1x0.05	1.7	1.8	18.3	20.9	535	629
27x1.5	0.7	0.8	1x0.05	1.7	1.8	21.1	22.4	733	789
27x2.5	0.8	0.8	1x0.05	1.7	1.8	24.8	24.9	1084	1094

450/750 V & 0.6/1 KV PVC Insulated Copper Tape Screened Unarmoured Control Cable

Section	Insulation Thichness		Screen Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
30x0.75	0.6	0.8	1x0.05	1.7	1.8	17.9	20.5	488	585
30x1	0.6	0.8	1x0.05	1.7	1.8	18.9	21.6	582	684
30x1.5	0.7	0.8	1x0.05	1.7	1.8	21.8	23.2	800	861
30x2.5	0.8	0.8	1x0.05	1.7	1.8	25.7	25.7	1188	1198
37x0.75	0.6	0.8	1x0.05	1.7	1.8	19.2	22.0	576	692
37x1	0.6	0.8	1x0.05	1.7	1.8	20.3	23.2	691	812
37x1.5	0.7	0.8	1x0.05	1.7	1.8	23.5	24.9	956	1028
37x2.5	0.8	0.8	1x0.05	2.0	2.0	28.3	28.1	1467	1465
44x0.75	0.6	0.8	1x0.05	1.7	1.8	21.4	24.6	674	809
44x1	0.6	0.8	1x0.05	1.7	1.8	22.6	25.9	810	952
44x1.5	0.7	0.8	1x0.05	1.7	1.9	26.2	27.9	1123	1207
44x2.5	0.8	0.8	1x0.05	2.0	2.1	31.6	31.5	1726	1725
48x0.75	0.6	0.8	1x0.05	1.7	1.8	21.7	25.0	721	865
48x1	0.6	0.8	1x0.05	1.7	1.8	13,0	26.3	868	1020
48x1.5	0.7	0.8	1x0.05	1.7	1.8	26.7	28.3	1208	1297
48x2.5	0.8	0.8	1x0.05	2.0	2.0	32.2	32.0	1859	1857
52x0.75	0.6	0.8	1x0.05	1.7	1.8	22.3	25.7	770	924
52x1	0.6	0.8	1x0.05	1.7	1.8	23.6	27.0	929	1091
52x1.5	0.7	0.8	1x0.05	2.0	2.0	28.0	29.5	1332	1417
52x2.5	0.8	0.8	1x0.05	2.2	2.2	33.4	33.3	2025	2024
61x0.75	0.6	0.8	1x0.05	1.7	1.8	23.5	27.2	880	1057
61x1	0.6	0.8	1x0.05	1.7	1.8	25.0	28.6	1066	1251
61x1.5	0.7	0.8	1x0.05	2.0	2.0	29.6	31.3	1530	1628
61x2.5	0.8	0.8	1x0.05	2.2	2.2	35.4	35.3	2334	2332

450/750 V & 0.6/1 KV PVC Insulated Steel Wire Armoured Control Cable



- **Control Cable for Interconnection in Systems**
- **IEC 60227** **IEC 60502-1**

Application

PVC insulated and sheathed control cable is suitable for the interconnection in controlling, signalling, protecting and measuring systems with rated voltages up to and including 450/750 V or 0.6/1 kV.

IEC 60227/IEC 60502-1

① Conductor: Class 1/Class 2 Copper
② Insulation: PVC
③ Armour: Galvanized Steel Wire
④ Sheath: PVC

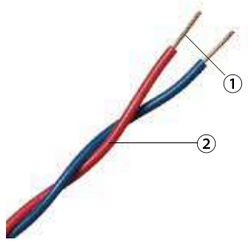
Section	Insulation Thichness		Armour Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
2x4	0.8	1.0	1.6	1.5	1.8	16.9	18.3	656	725
2x6	0.8	1.0	1.6	1.5	1.8	17.9	19.3	744	816
2x10	1.0	1.0	1.6	1.7	1.8	21.7	21.9	1019	1028
3x2.5	0.8	0.8	1.6	1.5	1.8	16.5	17.1	634	657
3x4	0.8	1.0	1.6	1.5	1.8	17.5	19.0	727	803
3x6	0.8	1.0	1.6	1.5	1.8	18.6	20.1	838	917
3x10	1.0	1.0	1.6	1.7	1.8	22.6	22.8	1168	1179
4x2.5	0.8	0.8	1.6	1.5	1.8	17.4	18.0	706	730
4x4	0.8	1.0	1.6	1.5	1.8	18.5	20.1	819	905
4x6	0.8	1.0	1.6	1.7	1.8	2.1	21.3	974	1046
4x10	1.0	1.0	2.0	1.7	1.8	25.0	25.2	1531	1542
5x2.5	0.8	0.8	1.6	1.5	1.8	18.3	18.9	782	807
5x4	0.8	1.0	1.6	1.5	1.8	19.6	21.3	917	1014
5x6	0.8	1.0	1.6	1.7	1.8	21.4	22.7	1100	1182
5x10	1.0	1.0	2.0	1.7	1.8	26.7	26.9	1741	1754
6x1.5	0.7	0.8	1.6	1.5	1.8	17.5	18.7	703	763
6x2.5	0.8	0.8	L6	1.5	1.8	19.3	19.9	855	881
6x4	0.8	1.0	1.6	1.7	1.8	21.2	22.6	1028	1116
6x6	0.8	1.0	1.6	1.7	1.8	22.7	24.1	1230	1324
6x10	1.0	1.0	2.0	1.7	1.9	28.6	29.0	1960	1986
7x1.5	0.7	0.8	1.6	1.5	1.8	17.5	18.7	719	780
7x2.5	0.8	0.8	1.6	1.5	1.8	19.3	19.9	881	907
7x4	0.8	1.0	1.6	1.7	1.8	21.2	22.6	1068	1157
7x6	0.8	1.0	1.6	1.7	1.8	22.7	24.1	1288	1384
7x10	1.0	1.0	2.0	1.7	1.9	28.6	29.0	2055	2081
8x1.5	0.7	0.8	1.6	1.5	1.8	18.4	19.6	780	847
8x2.5	0.8	0.8	1.6	1.7	1.8	20.8	21.0	982	991
8x4	0.8	1.0	2.0	1.7	1.8	23.1	24.6	1335	1447
8x6	0.8	1.0	2.0	1.7	1.8	24.8	26.3	1586	1702
8x10	1.0	1.0	2.0	1.7	1.9	30.4	30.8	2261	2289
10x1.5	0.7	0.8	1.6	1.7	1.8	20.7	21.7	927	987
10x2.5	0.8	0.8	2.0	1.7	1.8	23.9	24.1	1322	1333
10x4	0.8	1.0	2.0	1.7	1.8	25.8	27.6	1575	1711
10x6	0.8	1.0	2.0	1.7	1.9	27.8	29.8	1886	2041
10x10	1.0	1.0	2.0	2.0	2.1	35.2	35.4	2767	2783

450/750 V & 0.6/1 KV
PVC Insulated Steel Wire Armoured Control Cable

Section	Insulation Thichness		Armour Diameter	Sheath Thickness		Overall Diameter		Cable Weight	
No.xmm2	450/750 V	0.6/1 KV	mm	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV	450/750 V	0.6/1 KV
12x1.5	0.7	0.8	1.6	1.7	1.8	21.1	22.2	985	1049
12x2.5	0.8	0.8	2.0	1.7	1.8	24.4	24.6	1411	1422
12x4	0.8	1.0	2.0	1.7	1.8	26.4	28.3	1698	1844
12x6	0.8	1.0	2.0	1.7	1.9	28.5	30.6	2052	2218
14x1.5	0.7	0.8	1.6	1.7	1.8	21.9	23.0	1058	1127
14x2.5	0.8	0.8	2.0	1.7	1.8	25.3	25.5	1522	1533
14x4	0.8	1.0	2.0	1.7	1.9	27.4	29.6	1845	2018
14x6	0.8	1.0	2.0	1.7	2.0	29.6	32.0	2246	2442
16x1.5	0.7	0.8	2.0	1.7	1.8	23.5	24.6	1299	1381
16x2.5	0.8	0.8	2.0	1.7	1.8	26.3	26.5	1638	1650
19x0.75	0.6	0.8	1.6	1.5	1.8	20.1	22.7	897	1056
19x1	0.6	0.8	1.6	1.7	1.8	21.3	23.5	1005	1147
19x1.5	0.7	0.8	2.0	1.7	1.8	24.3	25.5	1396	1485
19x2.5	0.8	0.8	2.0	1.7	1.8	27.3	27.5	1777	1790
24x0.75	0.6	0.8	2.0	1.7	1.8	23.4	26.0	1231	1421
24x1	0.6	0.8	2.0	1.7	1.8	24.4	27.0	1349	1543
24x1.5	0.7	0.8	2.0	1.7	1.8	27.1	28.5	1644	1751
24x2.5	0.8	0.8	2.0	2.0	2.0	31.3	31.3	2157	2157
27x0.75	0.6	0.8	2.0	1.7	1.8	23.8	26.4	1261	1481
27x1	0.6	0.8	2.0	1.7	1.8	24.7	27.4	1400	1613
27x1.5	0.7	0.8	2.0	1.7	1.9	27.5	29.1	1727	1853
27x2.5	0.8	0.8	2.0	2.0	2.0	31.8	31.8	2280	2280
30x0.75	0.6	0.8	2.0	1.7	1.8	24.3	27.1	1344	1555
30x1	0.6	0.8	2.0	1.7	1.8	25.3	28.1	1483	1699
30x1.5	0.7	0.8	2.0	1.7	1.9	28.2	29.9	1825	1958
30x2.5	0.8	0.8	2.0	2.0	2.0	32.7	31.7	2422	2422
37x0.75	0.6	0.8	2.0	1.7	1.8	25.6	28.6	1497	1727
37x1	0,6	0.8	2.0	1.7	1.9	26.7	29.9	1651	1909
37x1.5	0.7	0.8	2.0	2.0	2.0	30.5	31.9	2092	2215
37x2.5	0.8	0.8	2.5	2.2	2.1	36.1	35.9	3104	3088
44x0.75	0.6	0.8	2.0	1.7	2.0	27.8	31.6	1679	1983
44x1	0.6	0.8	2.0	1.7	2.0	29.0	32.8	1870	2183
44x1.5	0.7	0.8	2.0	2.0	2.1	33.2	35.0	1381	2542
44x2.5	0.8	0.8	2.5	2.2	2.2	39.4	39.4	3546	3546
48x0.75	0.6	0.8	2.0	1.7	2.0	28.1	32.0	1740	2057
48x1	0.6	0.8	2.0	2.0	2.0	30.0	33.3	1984	2269
48x1.5	0.7	0.8	2.5	2.0	2.1	34.7	36.5	2796	2979
48x2.5	0.8	0.8	2.5	2.2	2.2	40.0	40.0	3706	3706
52x0.75	0.6	0.8	2.0	1.7	2.0	28.7	32.6	1813	2145
52x1	0.6	0.8	2.0	2.0	2.1	30.6	34.2	2071	2386
52x1.5	0.7	0.8	2.5	2.0	2.2	35.4	37.5	2923	3131
52x2.5	0.8	0.8	2.5	2.2	2.3	40.8	41.0	3890	3908
61x0.75	0.6	0.8	2.0	2.0	2.1	30.5	34.3	2019	2358
61x1	0.6	0.8	2.0	2.0	2.1	32.0	35.8	2268	2617
61x1.5	0.7	0.8	2.2	2.2	2.2	37.4	39.2	3240	3436
61x2.5	0.8	0.8	2.5	2.5	2.5	43.4	43.4	4361	4361

PART VI Electric Wire

450/750 V Twisted Flexible Electric Wire



■ **Electric Wire for Connection for Electrical Appliances**

Application

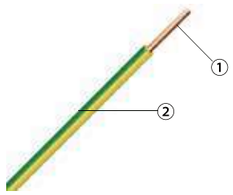
The products are suitable for power installation fixed wiring or flexible connection for electrical appliances with rated voltage up to and including 450/750 V respectively.

IEC 60227/BS 6004

① Conductor: Class 5 Copper
② Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Overall Diameter	Electrical Resistance	Insulation Resistance
mm2	2xNo./mm	mm	mm	DC.20℃	70℃
				Ω/km	mΩ/km
2×0.5	2x28/0.15	0.5	6	39	0.012
2×0.75	2×24/0.2	0.6	6.2	26	0.011
2×1.0	2×32/0.2	0.6	7	19.5	0.01
2×1.5	2×48/0.2	0.7	7.6	13.3	0.01
2×2.5	2×49/0.25	0.8	8.2	7.98	0.009
2×4.0	2×57/0.3	0.8	9.2	4.95	0.007
2×6.0	2×85/0.3	0.8	10.3	3.39	0.006

450/750 V H07V-U/NYA



■ **Electric Wire for Installation**

Application

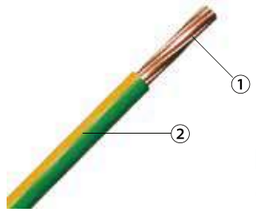
The products are preferably suitable for installation indoors, in cable ducts and in industrial plants or swithcing stations, under ground installation.

IEC 60227/BS 6004/VDE 2081-3

① Conductor: Class 1 Copper
② Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Overall Diameter		Electrical Resistance	Cable Weight
mm2	mm	mm	mm		DC.20℃	kg/km
			min	max	Ω/km	
1.5	1.35	0.7	2.6	3.2	12.1	19
2.5	1.73	0.8	3.2	3.9	7.41	29
4	2.19	0.8	3.6	4.4	4.61	42
6	2.68	0.8	4.1	5.0	3.08	62
10	3.50	1.0	5.3	6.4	1.83	110

450/750 V H07V-R/6491X/NYA



■ **Electric Wire for Installation**

Application

The products are preferably suitable for installation indoors, in cable ducts and in industrial plants or swithcing stations, under ground installation.

IEC 60227/BS 6004/VDE 0281

① Conductor: Class 2 Copper
② Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Overall Diameter		Electrical Resistance	Cable Weight
mm2	No.xmm	mm	mm		DC.20℃	kg/km
			min	max	Ω/km	
1.5	7x0.51	0.7	2.7	3.3	12.1	22
2.5	7x0.66	0.8	3.3	4	7.41	36
4	7x0.83	0.8	3.8	4.6	4.61	52
6	7x1.02	0.8	4.3	5.2	3.08	74
10	7x1.32	1.0	5.6	6.7	1.83	110
16	7x1.68	1.0	6.4	7.8	1.15	170
25	7x2.20	1.2	8.1	9.7	0.727	265
35	7x2.55	1.2	9	10.9	0.524	360
50	7x3.00	1.4	10.6	12.8	0.387	501

450/750 V H07V-K/NYAF

■ **Electric Wire for Installation**

Application

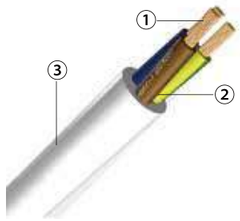
The products are preferably suitable for protected installation in equipment and lighting fitting. Also for in conduit, on and under plaster.

IEC 60227/BS 6004/VDE 0281

① Conductor: Class 5 Copper
② Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Overall Diameter		Electrical Resistance	Cable Weight
mm2	No.xmm	mm	mm		DC.20℃	kg/km
			min	max	Ω/km	
1.5	27×0.25	0.7	2.8	3.4	13.3	21
2.5	45×0.25	0.8	3.4	4.1	7.98	32
4	50×0.30	0.8	3.9	4.8	4.95	48
6	75×0.30	0.8	4.4	5.3	3.3	68
10	73×0.40	1	5.7	6.8	1.91	113
16	119×0.40	1	6.7	8.1	1.21	174
25	182×0.40	1.2	8.4	10.2	0.78	282
35	252×0.40	1.2	9.7	11.7	0.554	378
50	364×0.40	1.4	11.5	13.9	0.386	543

300/500 V H05VV-F/RVV



Electric Wire for Household Appliances

Application

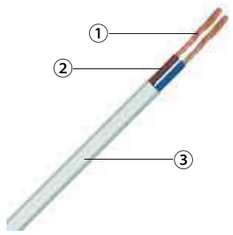
The products are suitable for household appliances under medium mechanical stress-also in damp and wet areas.

IEC 60227/BS 6500/VDE 0281

① Conductor: Class 5 Copper
② Insulation: PVC
③ Sheath: PVC

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Overall Diameter		Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	mm		DC.20℃	kg/km
				min	max	Ω/km	
2×0.75	22×0.20	0.6	0.8	5.7	7.2	26	57.1
2×1	30×0.20	0.6	0.8	5.9	7.5	19.5	64
2×1.5	27×0.25	0.7	0.8	6.8	8.6	13.3	91
2×2.5	45×0.25	0.8	1	8.4	10.6	7.98	135
2×4	50×0.30	0.8	1.1	9.7	12.1	4.95	189
2×6	75×0.30	0.8	1.1	11.8	13.1	3.3	274
2×10	73×0.40	0.9	1.2	14.6	15.8	1.91	422
3×0.75	22×0.20	0.6	0.8	6	7.6	26	68.1
3×1	30×0.20	0.6	0.8	6.3	8	19.5	77.1
3×1.5	27×0.25	0.7	0.9	7.4	9.4	13.3	109
3×2.5	45×0.25	0.8	1	9.2	11.4	7.98	169
3×4	50×0.30	0.8	1.1	10.5	13.1	4.95	238
3×6	75×0.30	0.8	1.1	12.5	14.2	3.3	343
3×10	73×0.40	0.9	1.2	15.8	17.2	1.91	538
4×0.75	22×0.20	0.6	0.8	6.6	8.3	26	85.2
4×1	30×0.20	0.6	0.8	7.1	9	19.5	98
4×1.5	27×0.25	0.7	0.8	8.4	10.5	13.3	145
4×2.5	45×0.25	0.8	1.1	11	12.5	7.98	213
4×4	50×0.30	0.8	1.2	11.5	14.3	4.95	306
4×6	75×0.30	0.8	1.3	13.6	15.2	3.3	427
4×10	73×0.40	0.9	1.4	17.2	18.3	1.91	674
4×16	119×0.40	0.9	1.5	19.4	20.8	1.21	972
5×0.75	22×0.20	0.6	0.8	7.4	9.3	26	101
5×1	30×0.20	0.6	0.9	7.8	9.8	19.5	125
5×1.5	27×0.25	0.7	1.1	9.3	11.6	13.3	176
5×2.5	45×0.25	0.8	1.2	11.2	13.9	7.98	261
5×4	50×0.30	0.8	1.3	13	16.1	4.95	375
5×6	75×0.30	0.8	1.4	15.6	16.8	3.3	524
5×10	73×0.40	0.9	1.5	18.2	20.3	1.91	831
5×16	119×0.40	0.9	1.6	22.3	23.2	1.21	1170

300/500 V H05VVH2-F



Electric Wire for House Hold Appliances

Application

In dry. damp and wet locations as flexible connecting cables for light mechanical stresses. It is used for hand tools and house hold appliances with flat shape.

IEC 60227/BS 6500/VDE 0281

① Conductor: Class 5 Copper
② Insulation: PVC
③ Sheath: PVC

Secion	Conductor Structure	Insulation Thickness		Overall Diameter	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm		mm	DC.20℃	kg/km
		min	max	min	Ω/km	
2 × 0.75	22 × 0.20	0.6	0.8	4.00 × 6.40	26	37
2 × 1	30 × 0.20	0.6	0.8	4.10 × 6.60	19.5	61.1
2 × 1.5	27 × 0.25	0.7	0.8	4.60 × 7.60	13.3	85
2 × 2.5	45 × 0.25	0.8	1	5.70 × 9.40	7.98	128
2 × 4	50 × 0.30	0.8	1.1	6.40 × 10.6	4.95	185
3 × 0.75	22 × 0.20	0.6	0.8	4.00 × 8.80	26	65
3 × 1	30 × 0.20	0.6	0.8	4.10 × 9.10	19.5	77
3 × 1.5	27 × 0.25	0.7	0.9	4.70 × 10.50	13.3	104
3 × 2.5	45 × 0.25	0.8	1.1	5.90 × 13.30	7.98	159
3 × 4	50 × 0.30	0.8	1.2	6.60 × 15.60	4.95	228

300/500 V H05V2-K

Electric Wire for Installation

Application

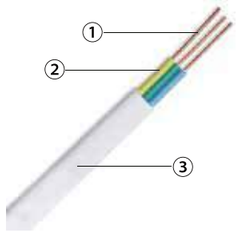
The products are preferably suitable for protected installation in equipment and lighting fitting. Also for in conduit, on and under plaster.

IEC 60227/BS 6004/VDE 0281

① Conductor: Class 5 Copper
② Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Overall Diameter		Electrical Resistance	Cable Weight
mm2	No.xmm	mm	mm		DC.20℃	kg/km
			min	max	Ω/km	
0.5	15 × 0.20	0.6	2.1	2.5	39	10
0.75	22 × 0.20	0.6	2.2	2.7	26	12
1	30 × 0.20	0.6	2.4	2.8	19.5	15

300/500 V Flat Cable with Two&Three Cores



Electric Wire for Installation

Application

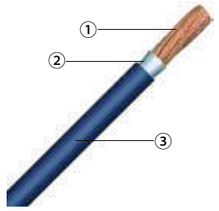
The products are suitable for installation indoors, in cable ducts and in industrial plants or switching stations, under ground installation, with addtional protection where mechanical damage is unexpected.

IEC 60227/BS 6004/VDE 2081

① Conductor: Class 1/2 Copper
② Insulation: PVC
③ Sheath: PVC

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	DC.20℃ Ω/km	kg/km
2 × 1	1x1.1	0.6	0.8	18.1	50
2 × 1.5	1x1.35	0.7	0.8	12.1	66
2 × 2.5	1x1.73	0.8	1	7.41	104
2 × 4	1x2.19	0.8	1.1	4.61	143
3 × 1	1x1.1	0.6	0.8	18.1	73
3 × 1.5	1x1.35	0.7	0.9	12.1	101
3 × 2.5	1x1.73	0.8	1.1	7.41	158
3 × 4	1x2.19	0.8	1.2	4.61	216
2 × 1.5	7x0.51	0.7	0.9	12.1	76..0
2 × 2.5	7×0.66	0.8	1	7.41	110
2 × 4	7×0.83	0.8	1	4.61	148
3 × 1.5	7×0.51	0.7	0.9	12.1	102
3 × 2.5	7×0.66	0.8	1	7.41	152
3 × 4	7×0.83	0.8	1.1	4.61	224

450/750 V 6381Y



Electric Wire for Installation

Application

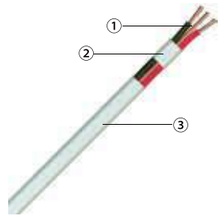
The products are preferably suitable for protected installation in equipment and lighting fitting.

BS 6004

① Conductor: Class 5 Copper
② Insulation: PVC
③ Sheath: PVC

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	DC.20℃ Ω/km	kg/km
1.5	27 × 0.25	0.9	0.8	13.3	42
2.5	45 × 0.25	0.9	0.8	7.98	54
4	50 × 0.30	1	0.9	4.95	77
6	75 × 0.30	1.1	0.9	3.3	102
10	73 × 0.40	1.2	1	1.91	160
16	119 × 0.40	1.2	1	1.21	210
25	187 × 0.40	1.4	1.1	0.78	320
35	255 × 0.40	1.4	1.1	0.554	420
50	374 × 0.40	1.4	1.4	0.386	590

300/500 V 6242Y/6234Y



Electric Wire for House Hold Appliance

Application

In dry. damp and wet locations as flexible connecting cables for light mechanical stresses.

BS 6004

① Conductor: Class 1/2 Copper
② Insulation: PVC
③ Sheath: PVC

Secion	Conductor Diameter		Insulation Thickness	Electrical Resistance		Cable Weight
No.xmm2	mm		mm	DC.20℃ Ω/km		kg/km
2×1.5+1×1	1.35	1.1	0.7	12.1	18.1	84
2×2.5+1×1	1.73	1.1	0.8	7.41	18.1	116
2×4+1×1.5	2.19	1.35	0.8	4.61	7.41	170
2×6+1×2.5	2.68	1.73	0.8	3.08	7.41	240
2×10+1×4	7 × 1.32	2.19	1	1.83	4.61	380
2×16+1×6	7 × 1.66	2.68	1	1.15	3.08	549
3×1.0+1×1	1.1		0.6	18.1	18.1	88
3×1.5+1×1	1.35	1.1	0.7	12.1	18.1	115
3×2.5+1×1	1.73	1.1	0.8	7.41	18.1	163
3×4.0+1×1.5	2.19	1.35	0.8	4.61	12.1	239
3×6+1×2.5	2.68	1.73	1	3.08	7.41	333
3×10+1×4	7 × 1.32	2.19	1	1.83	4.61	533
3×16+1×6	7×1.66	2.68	1	1.14	3.08	773

450/750 V H07Z-U (HALOGEN FREE)

Electric Wire for Installation

Application

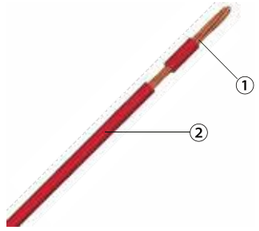
Places where there is risk of fire and crowded places like shopping malls, business centers, hotels, schools, tunnels etc.

CENELEC HD 22.9/BS 7211

- Conductor: Class 1 Copper
- Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	DC.20℃ Ω/km	kg/km
1.5	1.35	0.7	2.8	12.1	20.0
2.5	1.73	0.8	3.4	7.41	31.2
4	2.19	0.8	3.8	4.61	45.1
6	2.68	0.8	4.3	3.08	63.8

450/750 V H07Z-R/6491B (HALOGEN FREE)



Electric Wire for Installation

Application

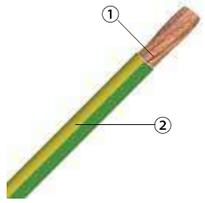
Places where there is risk of fire and crowded places like shopping malls, business centers, hotels, schools, tunnels etc.

CENELEC HD 22.9/BS 7211

- Conductor: Class 2 Copper
- Insulation: PVC

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	DC.20℃ Ω/km	kg/km
1.5	7x0.51	0.7	3	12.1	21.5
2.5	7x0.66	0.8	3.6	7.41	32.9
4	7x0.83	0.8	4.1	4.61	47.7
6	7x1.02	0.8	4.7	3.08	67.8
10	7x1.34	1	5.9	1.83	109.2
16	7x1.70	1	7	1.15	167.6
25	7x2.20	1.2	8.4	0.727	262.3
35	7x2.55	1.2	9.4	0.524	348.1
50	7x3.00	1.4	10.9	0.387	471.6

300/500 V H05Z-K (HALOGEN FREE)



Electric Wire for Installation

Application

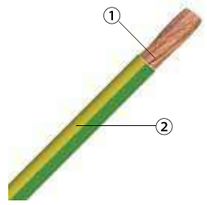
Places where there is risk of fire and populated places and where flexibility is needed.

CENELEC HD 22.9/BS 7211

- Conductor: Class 5 Copper
- Insulation: LSFOH

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	DC.20℃ Ω/km	kg/km
0.5	15×0.20	0.5	1.9	39.0	8.0
0.75	22×0.20	0.6	2.3	26.0	11.0
1	30×0.20	0.6	2.4	19.5	14.1

300/500 V H07Z-K (HALOGEN FREE)



Electric Wire for House Hold Appliance

Application

Places where there is risk of fire and populated places and where flexibility is needed.

CENELEC HD 22.9/BS 7211

- Conductor: Class 1/2 Copper
- Insulation: LSFOH

Secion	Conductor Structure	Insulation Thickness	Sheath Thickness	Electrical Resistance	Cable Weight
No.xmm2	No.xmm	mm	mm	DC.20℃ Ω/km	kg/km
1.5	27×0.25	0.7	2.9	13.3	20
1.5	45×0.25	0.8	3.5	7.98	31
4	50×0.30	0.8	4.1	4.95	46.1
6	75×0.30	0.8	4.8	3.3.0	65
10	73×0.40	1.0	6.0	1.91	108
16	119×0.40	1.0	7.2	1.21	167
25	187×0.40	1.2	8.8	0.78	258
35	255×0.40	1.2	9.7	0.554	341
50	374×0.40	1.4	11.5	0.386	496

PART VII Extra High Voltage Power Cable

XLPE Insulated Corrugated Aluminum Sheath PE/PVC Sheathed (Longitudinal Water-blocking) Power Cable

Extra High Voltage XLPE Insulated Corrugated Aluminum Sheath PE Sheathed Power Cable

- **Power Cable for Distribution**
- **IEC 60840**

Application

The cables are suitable for use in power transmission and distribution lines with rated power frequency voltage 48/66 kV and 64/110 kV.

IEC 60840

① Conductor: Class 2 Copper or Aluminum
② Conductor Screen: Semi-conductive Compound
③ Insulation: XLPE
④ Insulation Screen: Semi-conductive Compound
⑤ Semi-conductive Tape
⑥ Longitudinal Water-blocking Tape (Optional)
⑦ Metallic Sheath: Corrugated Aluminum Sheath
⑧ Outer Sheath: PE

Section	Conductor Diameter	Insulation Thickness	Metallic Sheath Thickness	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	mm	Kg/Km	
						CU	AL
48/66 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PE Sheath							
1x185	16.1	13.5	1.7	4.0	76	5517	3561
1x240	18.4	13.5	1.7	4.0	79	6264	4777
1x300	20.5	13.5	1.7	4.0	81	6978	5113
1x400	23.5	13.5	1.7	4.0	84	7974	5589
1x500	26.5	13.0	1.8	4.0	88	9274	6211
1x630	30.0	13.0	1.9	4.0	91	10957	6996
1x800	34.0	13.0	2.0	4.0	95	42886	7813
1x1000	38.5	13.0	2.0	4.5	102	25987	-
1x1200	41.7	13.0	2.0	4.5	105	17413	-
1x1400	45.1	13.0	2.0	4.5	109	19587	-
1x1600	48.3	13.0	2.0	4.5	112	21634	-
64/110 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PE Sheath							
1x240	18.4	19.0	2.0	4.0	91	7906	6419
1x300	20.5	18.5	2.0	4.0	93	8558	6693
1x400	23.5	17.5	2.0	4.0	93	9311	6925
1x500	26.5	17.0	2.0	4.0	95	10444	7381
1x630	30.0	16.5	2.0	4.5	99	12130	8168
1x800	34.0	16.0	2.0	4.5	103	14099	9026
1x1000	38.5	16.0	2.3	4.5	110	27711	-
1x1200	41.7	16.0	2.3	4.5	115	19065	-
1x1400	45.1	16.0	2.3	4.5	119	21293	-
1x1600	48.3	16.0	2.3	4.5	122	23384	-

Extra High Voltage XLPE Insulated Corrugated Aluminum Sheath PVC Sheathed Power Cable

- **Power Cable for Distribution**
- **IEC 60840**

Application

The cables are suitable for use in power transmission and distribution lines with rated power frequency voltage 48/66 kV and 64/110 kV.

IEC 60840

① Conductor: Class 2 Copper or Aluminum
② Conductor Screen: Semi-conductive Compound
③ Insulation: XLPE
④ Insulation Screen: Semi-conductive Compound
⑤ Semi-conductive Tape
⑥ Longitudinal Water-blocking Tape (Optional)
⑦ Metallic Sheath: Corrugated Aluminum Sheath
⑧ Outer Sheath: PVC

Section	Conductor Diameter	Insulation Thickness	Metallic Sheath Thickness	Sheath Thickness	Overall Diameter	Cable Weight	
No.xmm²	mm	mm	mm	mm	mm	Kg/Km	
						CU	AL
48/66 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PVC Sheath							
1x185	16.1	13.5	1.7	4.0	76	5985	4029
1x240	18.4	13.5	1.7	4.0	79	6751	5264
1x300	20.5	13.5	1.7	4.0	81	7478	5613
1x400	23.5	13.5	1.7	4.0	84	8494	6109
1x500	26.5	13.0	1.8	4.0	88	9819	6756
1x630	30.0	13.0	1.9	4.0	91	11527	7565
1x800	34.0	13.0	2.0	4.0	95	13475	8402
1x1000	38.5	13.0	2.0	4.5	102	26820	-
1x1200	41.7	13.0	2.0	4.5	105	18153	-
1x1400	45.1	13.0	2.0	4.5	109	20356	-
1x1600	48.3	13.0	2.0	4.5	112	22426	-
64/110 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PVC Sheath							
1x240	18.4	19.0	2.0	4.0	91	8476	6989
1x300	20.5	18.5	2.0	4.0	93	9141	7275
1x400	23.5	17.5	2.0	4.0	93	9893	7508
1x500	26.5	17.0	2.0	4.0	95	11040	7977
1x630	30.0	16.5	2.0	4.5	99	12825	8864
1x800	34.0	16.0	2.0	4.5	103	14823	9750
1x1000	38.5	16.0	2.3	4.5	110	28703	-
1x1200	41.7	16.0	2.3	4.5	115	19960	-
1x1400	45.1	16.0	2.3	4.5	119	22220	-
1x1600	48.3	16.0	2.3	4.5	122	24335	-

Main Technical Data of EHV Power Cable

Section	Short Circuit Current for Conductor		Capacitance	Charging Current	Section of Metallic Sheath	Short Circuit Current for Metallic Sheath
No.xmm²	Copper	Aluminum	μF/km	A/km	mm	kA
	1 second	1 second				
48/66 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PVC(PE) Sheath						
1x185	26.8	17.8	0.173	1.96	345	33.5
1x240	34.3	22.7	0.187	2.29	360	35.0
1x300	42.9	28.4	0.200	2.60	370	36.0
1x400	57.2	37.8	0.218	2.94	386	37.6
1x500	71.5	47.2	0.244	3.33	430	41.7
1x630	90.1	59.5	0.266	3.72	476	46.2
1x800	114.5	75.6	0.291	4.06	519	50.4
1x1000	143.1	-	0.337	4.36	561	54.5
1x1200	171.7	-	0.358	4.53	579	56.3
1x1400	200.3	-	0.381	4.67	603	58.6
1x1600	228.9	-	0.401	5.39	621	60.4
64/110 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PVC Sheath						
1x185	26.8	17.8	-	-	-	-
1x240	34.3	22.7	0.144	2.23	501	48.5
1x300	42.9	28.4	0.157	2.54	513	49.7
1x400	57.2	37.8	0.176	2.88	513	49.7
1x500	71.5	47.2	0.194	3.25	525	50.9
1x630	90.1	59.5	0.216	3.64	543	52.7
1x800	114.5	75.6	0.241	4.02	567	55.0
1x1000	143.1	-	0.278	4.27	700	67.6
1x1200	171.7	-	0.294	4.44	728	70.3
1x1400	200.3	-	0.312	4.59	755	73.0
1x1600	228.9	-	0.327	5.28	776	75.0

Section	Current Carrying Capacity							
	OOO Laying				O O O Laying			
No.xmm²	Copper		Aluminum		Copper		Aluminum	
	in Air	Buried	in Air	Buried	in Air	Buried	in Air	Buried
	Ω/km				Ω/km			
48/66 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PVC(PE) Sheath								
1x185	572	427	444	332	559	405	438	315
1x240	675	497	524	385	653	470	514	365
1x300	774	562	601	436	742	531	585	412
1x400	892	637	699	499	840	598	674	470
1x500	1037	726	818	572	952	677	776	537
1x630	1197	824	952	655	1062	760	884	610
1x800	1363	922	1097	741	1159	839	990	685
1x1000	1533	1016	-	-	1246	909	-	-
1x1200	1647	1077	-	-	1294	950	-	-
1x1400	1767	1136	-	-	1334	986	-	-
1x1600	2071	1312	-	-	1541	1146	-	-
64/110 kV CU(AL)/XLPE/Corrugated Aluminum Sheath/PVC(PE) Sheath								
1x240	661	496	513	385	637	468	502	364
1x300	760	561	589	436	724	528	572	411
1x400	877	635	687	498	822	595	660	468
1x500	1015	722	800	570	930	671	758	533
1x630	1169	819	930	651	1041	754	864	606
1x800	1340	918	1078	739	1148	834	977	682
1x1000	1507	1008	-	-	1221	897	-	-
1x1200	1621	1067	-	-	1269	935	-	-
1x1400	1739	1123	-	-	1310	968	-	-
1x1600	2036	1293	-	-	1509	1117	-	-