

CJDLJT

CJDL Cable

CJDL Cable, manufacturer of
control cables and low-voltage cables
Brand specialized in control cables

Contact Us



www.cjdlcable.com



info@cjdlcable.com



+86 371-85965831

CJDLJT

CJDL Cable

Quality Commitment

Dear Customer,

To ensure your full satisfaction with our product quality and after-sales service, we hereby commit to the following terms:

- 1.All factory-delivered products shall strictly comply with the specified technical requirements for each product model.
- 2.Should you discover any quality defects or quantity discrepancies during use, our company will respond to you within 24 hours upon receipt of your notification. If an on-site inspection is required to resolve the issue, our professional technicians will arrive at the location within 72 hours.
- 3.If it is confirmed that the malfunction is caused by manufacturing defects of our products, we will accept product returns or replacements at your request. In the event of economic losses incurred by you due to such defects, we will bear the corresponding financial liability after damage verification.

Company Profile

About CJDL Cables

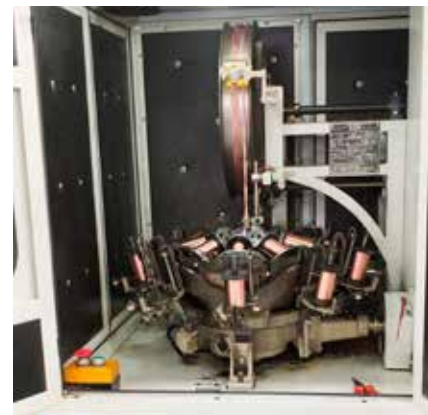
Company Profile

Henan Changjiang Cable boasts over 20 years of development history since its establishment. In 1999, the enterprise carried out a series of optimized restructurings, highlighted by the renewal of operational philosophies and the recruitment of skilled professionals. Since then, the company has embarked on a path of reform and innovation guided by its core tenet: “Advance through technology, build brand reputation via quality, and generate profits through management”. This strategy has driven rapid growth in the company’s comprehensive overall strength. Our product range includes RVV sheathed cables, RVVP shielded cables, KVV control cables, KVVP shielded control cables, KVV flexible control cables, KVVRP shielded flexible control cables, RVS twin parallel cables, RVSP shielded twin parallel cables, DJYPVP computer cables, and many other varieties. At present, the company has established a dual-site development model: Henan headquarters oversees research & development, sales and corporate administration, while Zhengzhou functions as our core production base.

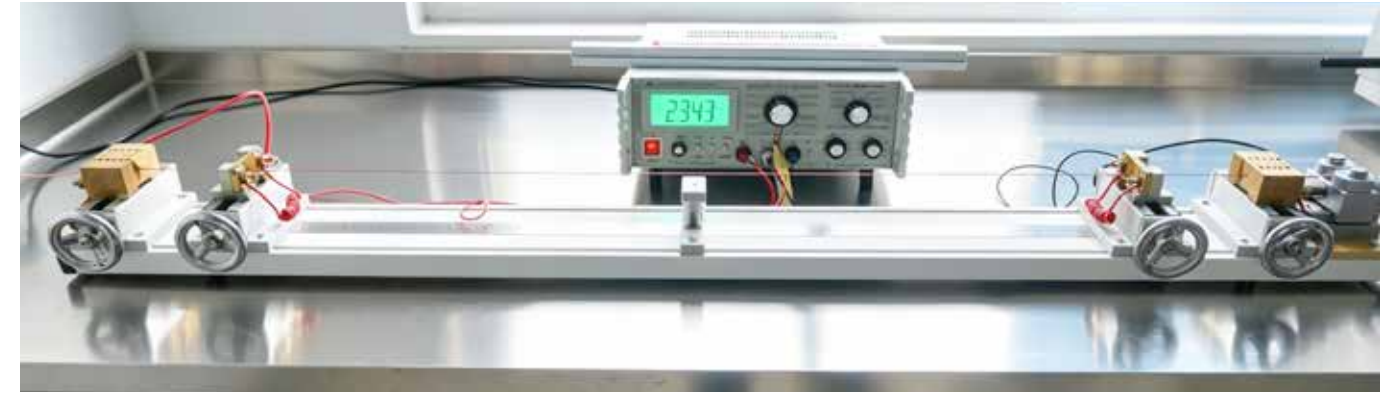
The company boasts R&D and manufacturing facilities covering an area of 20,000 square meters, together with a team of over 80 professional technical engineers. It is equipped with advanced, professional production lines as well as complete inspection and testing equipment. Stringent management procedures are implemented across every stage of operation, including raw material procurement, machine operation, manufacturing processes and quality control. All manufactured products fully comply with domestic and international standards, ensuring reliable and satisfactory performance for our customers.

Henan Changjiang Cable Co., Ltd. has obtained ISO 9001–2018 quality management system certification, ISO 14001–2015 environmental management system certification, and ISO 45001–2018 occupational health and safety management system certification. In addition, the company holds numerous credentials including China Compulsory 3C Certification and the national industrial product manufacturing license. The enterprise specializes in supplying high-quality products and one-stop comprehensive services for industries including national defense, electronics, construction and telecommunications. For over two decades, guided by our corporate mission “Meet social demands and build a platform for value realization” and our corporate goal “Pursue excellence and transcend past achievements”, we have strived relentlessly for growth. Through constant self-improvement and refinement, we have cultivated the unique corporate culture of Henan Changjiang Cable, and solidified our enterprise spirit: “Integrity, dedication, teamwork and innovative breakthroughs”.

PRODUCTION EQUIPMENT



INSPECTION AND TESTING EQUIPMENT



PRODUCT CATALOG

CJDL Cable We Specialize in Cable Manufacturing



01 Overhead cable

AAAC – ASTM – B All Aluminium Alloy Conductor	01-06
AAC – ASTM – B All Aluminium Conductor	07-13
ACSR – ASTM – B Aluminium Conductor Steel Reinforced	14-23
Aerial Bundle Cable (ABC)	24-25
LV AS/NZS 3560 P1 Aerial Bundle Cable (ABC) 1kV	26-27
LV BS7870 Aerial Bundle Cable (ABC) 1kV	28-29
LV HD 626 S1 Aerial Bundle Cable (ABC) 1kV	30-31
LV NF C33-209 Aerial Bundle Cable (ABC) 1kV	32-33
LV TNB IEC 60502-1 Aerial Bundle Cable (ABC) 1kV	34-35

02 Cable Flexible

318-B LSZH / H05Z1Z1-F EN 50525-3-11 Flexible Cable	36-38
318-Y / H05VV-F EN 50525-2-11 Flexible Cable	39-41
2491B / 6701B – H05Z-K / H07Z-K EN 50525-3-41 Cable	42-45
2491X / H05V-K / H07V-K EN 50525-2-31 Flexible Cable	46-49
H05W5-F Cable	50-51
H05Z-U-H07Z-U Cable	52-53
Tri-rated – H05V2-K / H07V2-K BS 6231 / UL1015 CSA 22.2 Flexible PVC Cable	54-56

03 Power cable

N2XY IEC 60502-1 XLPE PVC 0.6/1kV Cable	57-61
NA2XY Cable Aluminium XLPE PVC – 0.6/1kV	62-65

04 Concentric cable

Copper Concentric Cable	66-67
Aluminum Concentric Cable	68-69
Concentric Cable (Aluminium and Copper Airdac Types)	70-71

05 Armoured Cable

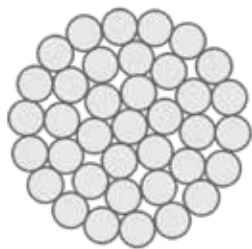
N2XBY Cable	72-74
N2XRH Cu/XLPE/LSZH/SWA/LSZH 0.6/1kV Cable	75-79
N2XRY Cu/XLPE/PVC/SWA/PVC 0.6/1kV Cable	80-84
NA2XBY Aluminium Conductor IEC 60502-1 XLPE DSTA PVC 0.6/1kV Cable	85-87
NA2XRH Aluminium Conductor IEC 60502-1 XLPE SWA LSZH 0.6/1kV Cable	88-90
NA2XRY Aluminium Conductor IEC 60502-1 XLPE SWA PVC 0.6/1kV Cable	91-93

AAAC – ASTM – B

All Aluminium Alloy Conductor

Overhead cable

CJDL Cable



APPLICATION

AAAC is used as a bare overhead conductor for power transmission and distribution lines, on aerial circuits that require higher mechanical strength than AAC and superior corrosion resistance than ACSR..
The sag characteristics and the strength-to-weight ratio of AAAC is better than both AAC / ACSR.

CONSTRUCTION

Conductor
Aluminium alloy conductor Type AL2 to AL7 as per EN 50183

STANDARDS

ASTM B399, ASTM B231, TS IEC 1089, DIN 48201, BS 215, UNE 21.018

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.
To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

ASTM Sizes

CODE	SIZE KCM	STRANDING	DIAMETER inches		NOMINAL CROSS SECTIONAL AREA sq ins	WEIGHT lbs/1000ft	RATED STRENGTH lbs	RESISTANCE ohms/1000ft		CURRENT RATING AMPS	SIZE	ACSR WITH EQUIV.DIAM. STRANDING Alt/Stl
			Individ ual	Total				DC 20°C	AC 75°C			
AKRON	30.58	7	0.0661	0.198	0.024	28.7	1110	0.659	0.785	107	6	6\1
ALTON	48.69	7	0.0834	0.25	0.0382	45.7	1760	0.414	0.493	143	4	6\1
AMES	77.47	7	0.1052	0.316	0.0608	72.7	2800	0.26	0.31	191	2	6\1
AZUSA	123.3	7	0.1327	0.398	0.0968	115.7	4460	0.163	0.195	256	1/0	6\1
ANAHEIM	155.4	7	0.149	0.447	0.1221	145.9	5390	0.13	0.154	296	2/0	6\1
AMHERST	195.7	7	0.1672	0.502	0.1537	183.7	6790	0.103	0.1230	342	3/0	6\1
ALLIANCE	246.9	7	0.1878	0.563	0.1939	231.8	8560	0.0816	0.0973	395	4/0	6\1
BUTTE	312.8	19	0.1283	0.642	0.2456	293.6	11000	0.0644	0.0769	460	266.8	26\7
CANTON	394.5	19	0.1441	0.721	0.3098	370.3	13300	0.0511	0.061	532	336.4	26\7
CAIRO	465.4	19	0.1565	0.783	0.3655	436.9	15600	0.0433	0.0518	590	397.5	26\7
DARIEN	559.5	19	0.1716	0.858	0.4394	525.2	18800	0.036	0.0431	663	477	26\7
ELGIN	652.4	19	0.1853	0.927	0.5124	612.4	21900	0.0309	0.0371	729	556.5	26\7
FLINT	740.8	37	0.1415	0.991	0.5818	695.5	24400	0.0272	0.0327	790	636	26\7
GREELY	927.2	37	0.1583	1.108	0.7282	870.4	30500	0.0217	0.0263	908	795	26\7

1. Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 52.5% IACS. AC resistance at 60 Hz.
2. Current ratings are based on 75°C conductor temperature, 250°C ambient, 2 ft/s wind, 96/watts/sq.foot sun, 0.5 coefficients of emissivity and absorption.

ASTM Sizes

CONDUCTOR SIZE cmil	AREA mm ²	NO. AND DIAMETER OF WIRES		OVERALL DIAMETER OF CONDUCTOR		LINEAR WEIGHT		LB STRENGTH lb	MAXIMUM DC RESISTANCE AT 20°C ohm/km
		inch	mm	inch	mm	kg/km	daN		
66360	33.62	7 x 0.0974	7 x 2.47	0.291	7.41	93	1068	24	0.9942
105600	53.5	7 x 0.1228	7 x 3.12	0.368	9.36	148	1697	3815	0.6256
133100	67.44	7 x 0.1379	7 x 3.5	0.413	10.5	187	2052	4612	0.4959
167800	85.02	7 x 0.1548	7 x 3.93	0.464	11.8	235	2586	581	0.3936
211600	107.21	7 x 0.1739	7 x 4.42	0.522	13.26	296	3263	7332	0.3119
400000	202.68	19 x 0.1451	19 x 3.68	0.724	18.4	560	5974	13426	0.165
450000	228	19 x 0.1539	19 x 3.91	0.769	19.55	630	6719	151	0.1487
500000	253.35	19 x 0.1622	19 x 4.12	0.811	20.6	700	4764	16774	0.1321
550000	278.68	37 x 0.1219	37 x 3.1	0.854	21.7	769	8380	18835	0.1202
600000	304	37 x 0.1273	37 x 3.23	0.89	22.6	839	9138	20535	0.1102
650000	329.35	37 x 0.1325	37 x 3.36	0.926	23.52	910	9494	21336	0.1016
700000	354.7	37 x 0.1375	37 x 3.49	0.962	24.43	978	10220	22967	0.0944
750000	380	37 x 0.1424	37 x 3.61	0.995	25.27	1050	10940	2463	0.088
800000	405.36	37 x 0.147	37 x 3.73	1.02	26.1	1118	11680	26248	0.0826
900000	456	37 x 0.156	37 x 3.96	1.09	27.72	1260	13150	29551	0.0733
1000000	506.7	37 x 0.1644	37 x 4.17	1.15	29.2	1400	14610	32832	0.066

ASTM Sizes Metric Units

CODE	SIZE KCM	NOMINAL SIZE mm²	STRANDING	DIAMETER inches		WEIGHT 1¹ lbs/1000ft	RATED STRENGTH² kg	RESISTANCE³ ohms/1000ft		CURRENT RATING ⁴ Amps	SIZE mm²	ACSR WITH EQUIV. DIAM. STRANDING alt/stl
				Indi-vidual Wires	Total			DC at 20°C	AC at 75°C			
AKRON	30.58	15.5	7	1.679	5.04	42.7	503	2.16	2.57	107	13.3	6/1
ALTON	48.69	24.67	7	2.118	6.36	68	798	1.36	1.62	143	21.15	6/1
AMES	77.47	39.25	7	2.672	8.02	108.2	1270	0.853	1.02	191	33.63	6/1
AZUSA	123.3	62.48	7	3.371	10.11	172.2	2023	0.536	0.639	256	53.31	6/1
ANAHEIM	155.4	78.74	7	3.785	11.35	217.1	2445	0.425	0.509	296	67.44	6/1
AMHERST	195.7	99.16	7	4.247	12.74	273.3	3080	0.338	0.403	342	85.03	6/1
ALLIANCE	246.9	125.1	7	4.77	14.31	344.9	3883	0.268	0.319	395	107.22	6/1
BUTTE	312.8	158.5	19	3.259	16.29	436.9	4989	0.211	0.252	460	135.19	26/7
CANTON	394.5	199.9	19	3.66	18.3	551.1	6033	0.168	0.2	532	170.46	26/7
CAIRO	465.4	235.8	19	3.975	19.88	650	7076	0.142	0.17	590	201.42	26/7
DARIEN	559.5	283.5	19	4.359	21.79	781.5	8527	0.118	0.142	663	241.7	26/7
ELGIN	652.4	330.6	19	4.707	23.53	911.3	9934	0.101	0.122	729	281.98	26/7
FLINT	740.8	375.4	37	3.594	25.16	1035	11068	0.089	0.107	790	322.27	26/7
GREELY	927.2	469.8	37	4.021	28.15	1295	13834	0.071	0.086	908	402.83	26/7

1. Weights are calculated using ASTM standard increments of stranding.
2. Rated strengths are calculated by ASTM methods and converted to metric units after rounding.
3. Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 52.5% IACS, AC resistance at 60 Hz.
4. Current ratings are based on maximum permissible short circuit temperature of 200° C for 1 second.

ASTM Sizes Metric Units

CONDUCTOR SIZE mm²	NO. OF WIRES	DIAMETER OR WIRE mm	OVERALL DIAMETER OF CONDUCTOR mm	LINEAR WEIGHT kg/km	RATED STRENGTH daN	MAXIMUM DC RESISTANCE AT 20°C ohms/km
40	7	2.7	8.1	110	1270	0.837
50	7	3.02	9.06	138	1590	0.67
63	7	3.39	10.17	173	1910	0.532
80	7	3.81	11.43	220	2410	0.418
100	7	4.26	12.78	275	3020	0.335
112	7	4.51	13.53	308	3380	0.3
125	19	2.89	14.45	343	3830	0.268
140	19	3.06	15.3	385	4290	0.24
160	19	3.27	16.35	440	4670	0.21
180	19	3.47	17.35	494	5260	0.186
200	19	3.66	18.3	550	5860	0.167
224	19	3.87	19.35	615	6550	0.15
250	19	4.09	20.45	686	7310	0.134
280	37	3.1	21.7	770	8390	0.12
315	37	3.29	23.03	865	9020	0.106
355	37	3.5	24.5	975	10200	0.0943
400	37	3.71	25.97	1098	11500	0.0837
450	37	3.94	27.58	1235	12900	0.0744
500	37	4.15	29.05	1372	14300	0.067
560	37	4.39	30.73	1537	16100	0.0598
630	37	4.66	32.62	1730	18100	0.0531

British Sizes

CODE	N	RATED STRENGTH¹ kgF	LBS FORCE	MAXIMUM DC RESISTANCE AT 20°C²		CURRENT RATING³	
				ohms/km	ohms/1000ft	Temperate Amps	Tropical Amps
-	3714	379	835	2.87	0.873	90	73
BOX	5960	608	1340	1.79	0.544	121	98
ACACIA	7606	776	1710	1.4	0.426	140	114
ALMOND	9563	975	2150	1.11	0.339	162	131
CEDA	11253	1148	2530	0.944	0.288	180	145
-	13433	1370	3020	0.794	0.242	200	162
FIR	15168	1547	3410	0.7	0.213	217	175
HAZEL	18993	1937	4270	0.559	0.17	250	201
PINE	21840	2227	4910	0.467	0.142	279	224
-	25576	2608	5750	0.398	0.121	309	247
WILLOW	27355	2790	6150	0.373	0.114	322	258
-	29401	2998	6610	0.347	0.106	337	270
-	33093	3375	7440	0.308	0.094	336	290
OAK	36207	3692	8140	0.282	0.086	384	307
-	36563	3729	8220	0.282	0.086	385	307
MULBERRY	46704	4763	10500	0.222	0.068	448	356
ASH	53376	5443	12000	0.185	0.057	501	398
ELM	62272	6350	14000	0.159	0.048	553	438
POPLAR	72058	7348	16200	0.14	0.043	598	473
-	81398	8301	18300	0.124	0.034	647	511
SYCAMORE	91184	9299	20500	0.111	0.038	694	547
UPAS	104528	10659	23500	0.093	0.028	776	610
-	121875	12428	27400	0.079	0.024	854	669
YEW	138333	14107	31100	0.070	0.021	925	723

1. Rated strengths are calculated by ASTM methods and converted to metric units after rounding.
2. Resistance is calculated using ASTM standard increments of stranding, and metal conductivity of 52.5% IACS.
3. Current ratings are based on 50 Hz AC, 75°C conductor temperature, and 0.61 m/s (2 ft/s) wind, 0.5 coefficients of emissivity and absorption, Temperate rating - 250°C ambient, 1000 watts/sq. meter sun, Tropical rating - 400°C ambient, 1200 watts/sq. meter sun.

British Sizes

CODE	NOMINAL AREA mm²	EQUIVALENT Cu AREA kg		STRANDING AND WIRE		NOMINAL OVERALL DIAMETER		TOTAL AREA		WEIGHT¹	
		mm²	inch²	mm	inch	mm²	inch²	mm²	inch²	mm²	lb/M ft
-	-	6.45	0.01	7/1.47	7/0.0574	4.41	0.174	11.7	0.018	32.2	21.7
BOX	-	9.68	0.015	7/1.85	7/0.0727	5.55	0.219	18.8	0.029	51.7	34.7
ACACIA	-	12.9	0.02	7/2.08	7/0.0822	6.24	0.246	23.9	0.037	66.1	44.4
ALMOND	25	16.1	0.025	7/2.34	7/0.0921	7.02	0.276	30.1	0.047	82.9	55.7
CEDA	30	19.4	0.03	7/2.54	7/1000	7.62	0.3	35.5	0.055	97.8	65.7
-	40	22.6	0.035	7/2.77	7/1091	8.31	0.327	42.2	0.065	116.4	78.2
FIR	50	25.8	0.04	7/2.95	70161	8.85	0.348	47.8	0.074	131.8	88.6
HAZEL	100	32.3	0.05	7/3.30	7/0.1299	9.9	0.39	59.9	0.093	165	110.9
PINE	-	38.7	0.06	7/3.61	70422	10.83	0.426	71.7	0.111	197.7	132.9
-	-	45.2	0.07	7/3.91	7/1539	11.73	0.462	84.1	0.130	231.6	155.6
WILLOW	150	48.4	0.075	7/4.04	7/1591	12.12	0.477	89.8	0.139	247.5	166.3
-	175	51.6	0.08	7/4.19	7/1650	12.57	0.495	96.5	0.149	266.2	178.9
-	300	58.1	0.09	7/4.45	7/0.1751	13.35	0.526	108.8	0.169	299.8	201.5
OAK	-	64.5	0.1	7/4.65	70831	13.95	0.549	118.9	0.184	327.8	220.3

CODE	NOMINAL AREA mm ²	EQUIVALENT Cu AREA kg		STRANDING AND WIRE		NOMINAL OVERALL DIAMETER		TOTAL AREA		WEIGHT ¹	
		mm ²	inch ²	mm	inch	mm ²	inch ²	mm ²	inch ²	mm ²	lb/M ftt
-	-	64.5	0.1	19/2.82	19/0111	14.1	0.555	118.8	0.1841	327.6	220.2
MULBERRY	-	80.6	0.125	19/3.18	19/1253	15.9	0.626	151.1	0.2342	416.7	280
ASH	-	96.8	0.15	19/3.48	19/1370	17.4	0.685	180.7	0.2801	498.1	334.8
ELM	-	113	0.175	19/3.76	19/1481	18.8	0.74	211	0.3271	582.1	391.2
POPLAR	-	129	0.2	37/2.87	37/1129	20.09	0.791	239	0.3705	658.8	442.7
-	-	145	0.225	37/3.05	37/1202	21.35	0.841	270.8	0.4197	746.7	501.8
SYCAMORE	-	161	0.25	37/3.23	37/0.1271	22.61	0.89	303	0.4697	834.9	561.1
UPAS	-	194	0.3	37/3.53	37/1390	24.71	0.973	362.1	0.5613	998.6	671.1
-	-	226	0.35	37/3.81	370500	26.47	1.05	421.8	0.6538	1163	781.5
YEW	-	258	0.4	37/4.06	370600	28.42	1.119	479.9	0.7439	1323	889.2

1. Weights are calculated using ASTM standard increments of stranding.

French Sizes

CODE	AREA mm ²	NO. OF WIRES	DIAMETER OF WIRES mm	OVERALL DIAMETER OF CONDUCTOR mm	TENSILE STRENGTH OF WIRE MPa	RATED STRENGTH OF CONDUCTOR daN	MAXIMUM DC RESISTANCE AT 20°C km	LINEAR WEIGHT kg/km	ELASTICITY MODULUS* hbar	COEFFICIENT OF LINEAR EXPANSION */oc
ASTER 22	21.99	7	2	6	32.4	710	1.5	60.2	6200	23.10-6
ASTER 34.4	34.36	7	2.5	7.5	32.4	1105	0.958	94.1	6200	23.10-6
ASTER 54.6	54.55	7	3.15	9.45	32.4	1755	0.603	149	6200	23.10-6
ASTER 75.5	75.54	19	2.25	11.25	32.4	2430	0.438	208	6000	23.10-6
ASTER 117	116.98	19	2.8	14	32.4	3765	0.283	322	6000	23.10-6
ASTER 148	148.01	19	3.15	15.75	32.4	4765	0.224	407	6000	23.10-6
ASTER 181.6	181.62	37	2.5	17.5	32.4	5845	0.183	500	5700	23.10-6
ASTER 228	227.83	37	2.8	19.6	32.4	7340	0.146	627	5700	23.10-6
ASTER 288	288.34	37	3.15	22.05	32.4	9280	0.115	794	5700	23.10-6
ASTER 366	366.22	37	3.55	24.85	32.4	11785	0.0905	1009	5700	23.10-6
ASTER 570	570.22	61	3.45	31.05	32.4	18360	0.0583	1574	5400	23.10-6
ASTER 851	850.66	91	3.45	37.95	32.4	27390	0.0391	2354	5250	23.10-6
ASTER 1144	1143.51	91	4	44	31.9	36260	0.0292	3164	5250	23.10-6
ASTER 1600	1595.93	127	4	52	31.9	50640	0.0206	4425	5050	23.10-6

* These values are given for information only

German Sizes

CONDUCTOR SIZE mm ²	ALLOY AREA mm ²	NO. OF WIRES	DIAMETER mm	OVERALL DIAMETER OF CONDUCTOR mm	LINEAR WEIGHT kg/km	RATED STRENGTH daN	MAXIMUM DC RESIS- TANCE AT 20°C ohms/km
16	15.89	7	1.7	5.1	43	444	2.091
25	24.26	7	2.1	6.3	66	677	1.370
35	34.36	7	2.5	7.5	94	690	0.967
50	49.48	7	3	9	135	1382	0.671
50	48.35	19	1.8	9	133	1350	0.691
70	65.81	19	2.1	10.5	181	1838	0.507
95	93.27	19	2.5	12.5	256	2605	0.358
120	116.99	19	2.8	14	322	3268	0.285
150	147.11	37	2.25	15.8	406	4109	0.227
185	181.62	37	2.5	17.5	500	5073	0.184
240	242.54	61	2.25	20.3	670	6774	0.138
300	299.43	61	2.5	22.5	827	8363	0.112
400	400.14	61	2.89	26	1104	11176	0.084
500	499.83	61	3.23	29.1	1379	13960	0.067
625	626.2	91	2.96	32.6	1732	17490	0.054
800	802.09	91	3.35	36.9	2218	22402	0.042
1000	999.71	91	3.74	41.1	2767	27922	0.034

1. Weights are calculated using ASTM standard increments of stranding.

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

AAC – ASTM – B
All Aluminium Conductor

Overhead cable

CJDL Cable



APPLICATION

AAC conductor is also known as aluminium stranded conductor. It is manufactured from electrolytically refined aluminium, with a minimum purity of 99.7%. AAC is used mainly in urban areas where the spacing is short and the supports are close. All aluminium conductors are made up of one or more strands of aluminium wire depending on the end usage. AAC is also used extensively in coastal regions because it has a high degree of corrosion resistance.

STANDARDS

ASTM B231, TS IEC 1089, DIN 48201, BS 215, UNE 21.018

CONSTRUCTION

Conductor
Hard drawn aluminium conductor as per EN 60889 Type AL1

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS
ASTM - B 231

CODE	SIZE AWG-MCM	STRANDING No. x mm	SECTION mm ²	OVERALL DIAMETER mm	CABLE WEIGHT kg/km	RATED STRENGTH kN	ELECTRICAL RESISTANCE DC ohms/km	CURRENT CARRYING CAPACITY (1) A
PEACHBELL	6	7 x 1.55	13.21	4.65	36.6	2.5	1.1702	110
ROSE	4	7 x 1.96	21.12	5.88	58.3	3.92	1.3638	145
IRIS	2	7 x 2.47	33.54	7.41	92.7	6.01	0.0857	195
PANSY	1	7 x 2.78	42.49	8.34	116.8	7.3	0.6801	225
POPPY	1/0	7 x 3.12	53.52	9.36	147.5	8.86	0.539	260
ASTER	2/0	7 x 3.5	67.34	10.5	185.9	11.17	0.4275	305
PHLOX	3/0	7 x 3.93	84.91	11.79	234.4	13.35	0.3392	350
OXLIP	4/0	7 x 4.42	107.4	13.26	295.6	17.05	0.2689	410
SNEEZEWORTH	250	7 x 4.8	127.6	14.4	349.3	20.12	0.2273	455
VALERIAN	250	17 x 2.91	126.4	14.55	349.3	20.74	0.2273	455
DAISY	266.8	7 x 4.96	135.3	14.88	327.8	21.5	0.2133	475
LAUREL	266.8	19 x 3.01	135.2	15.05	327.8	22.12	0.2133	475
PEONY	300	19 x 3.19	151.9	15.95	419.1	24.38	0.1897	515
TULIP	336.4	19 x 3.38	170.5	16.9	470	27.37	0.1691	555
DAFFODIL	350	19 x 3.45	177.6	17.25	489	28.45	0.1626	565
CANNA	397.5	19 x 3.68	202.1	18.4	55.4	31.64	0.1431	615
GOLDENTUFT	450	19 x 3.91	228.1	19.55	682.6	35.11	0.1264	665
COSMOS	477	19 x 4.02	241.2	20.1	666.4	37.2	0.1193	690
SYRINGA	477	37 x 2.88	241	20.16	666.4	38.67	0.1193	690
ZINNIA	500	19 x 4.12	253.3	20.6	698.6	38.98	0.1138	715
HYACINTH	500	37 x 2.95	252.9	20.65	698.6	40.54	0.1138	715
DAHLIA	556.5	19 x 4.35	282.4	21.75	777.4	43.39	0.1022	765
MISTLETOE	556.5	37 x 3.11	281.1	21.77	777.4	44.25	0.1022	765
MEADOWSWEET	600	37 x 3.23	303.2	22.61	838.1	47.62	0.09482	800
ORCHID	636	37 x 3.33	322.2	23.31	888.4	50.73	0.08947	835
HEUCHERA	650	37 x 3.37	330	23.59	908.1	51.84	0.08747	855
VERBANA	700	37 x 3.49	354	24.43	977.9	55.63	0.08123	880
FLAG	700	61 x 2.72	354.5	24.48	977.9	57.42	0.08123	900
VIOLET	715	37 x 3.53	362.1	24.71	999.6	56.96	0.07953	900
NASTURTIIUM	715.5	61 x 2.75	362.35	24.73	999.6	58.3	0.07953	900
PETUNNIA	750	37 x 3.62	380.8	25.34	1047.7	58.3	0.07587	922
CATTAIL	750	61 x 2.82	381	25.38	1047.7	60.08	0.07585	922
ARBUTIIUS	795	37 x 3.72	402.1	26.04	1110.6	61.86	0.07156	960
ULAC	795	61 x 2.9	402.9	26.1	1110.6	63.65	0.07156	960
FUCHSIA	800	37 x 3.75	408.7	26.25	1115.2	62.3	0.07116	960
HELIOTROPE	800	61 x 2.92	408.7	26.28	1115.2	64.08	0.07116	960
ANEMONE	874.5	37 x 3.91	444.3	27.37	1221.8	66.75	0.06506	1020
CROCUS	874.5	61 x 3.04	442.8	27.36	1221.8	70.31	0.06506	1020
COCKCOMB	900	37 x 3.96	455.7	27.72	1257.4	68.53	0.06332	1040
SNAPDRAGON	900	61 x 3.09	457.4	27.81	1257.4	70.76	0.06332	1040
MAGNOLIA	954	37 x 4.08	483.7	28.56	1332.8	75.215	0.05965	1080
GOLDENROD	954	61 x 3.18	484.5	28.62	1332.8	75.215	0.05965	1080
HAWKWEED	1000	37 x 4.17	505.3	29.19	1397	76.54	0.05689	1110
CAMELLIA	1000	61 x 3.25	506	29.25	1397	78.77	0.05689	1110
BLUEBELL	1033.5	37 x 4.24	522.4	29.68	1443.8	78.77	0.05505	1135
LARKSPUR	1035.5	61 x 3.31	524.9	29.79	1443.8	81.45	0.05505	1135

CODE	SIZE AWG-MCM	STRANDING N2 X Q mm	SECTION mm²	OVERALL DIAMETER mm	CABLE WEIGHT kg/km	RATED STRENGTH kN	ELECTRICAL RESISTANCE DC ohms/km	CURRENT CARRYING CAPACITY (1) A
MARIGOLD	1113	61 x 3.43	563.6	30.87	1555.2	87.67	0.05112	1190
HAWTHORN	1192.5	61 x 3.55	603.8	31.95	1665.3	93.9	0.0477	1240
NARCISSUS	1272	61 x 3.67	645.3	33.03	1776.9	97.9	0.04472	1290
COLIMBINE	1351.5	61 x 3.78	684.5	34.02	1888.5	104.13	0.04209	1340
CARNATION	1431	61 x 3.89	72	35.01	1998.6	108.14	0.03976	1390
GLADIOLUS	1510.5	61 x 4	766.5	36	2110.3	113.92	0.03766	1430
COREOPSIS	1590	61 x 4.1	805.4	36.9	2222	120.15	0.03579	1480
JESSANINE	1750	61 x 4.3	885.8	38.7	2445.1	132.17	0.03251	1565
COWSLIP	2000	91 x 3.76	1010.4	41.36	2793.3	152.19	0.02845	1695
SAGEBRUSH	2250	91 x 3.99	1137.8	43.89	3174.3	167.77	0.02829	1810
PIGWEED	2300	61 x 4.93	1164.4	44.37	3239.8	173.56	0.02473	1830
LUPINE	2500	91 x 4.21	1266.8	46.31	3527	186.46	0.02298	1920
BITTERROOT	2750	91 x 4.41	1390	48.51	3879.8	205.15	0.0207	2020
TRILLIUM	3000	127 x 3.9	1517	50.7	4232.4	223.84	0.01915	2120
BLUEBONNET	3500	127 x 4.22	1776.3	54.86	4985.4	261.22	0.01657	2295

ASTM-B 231

CODE	SIZE AWG or kcmil	STRANDING		DIAMETER ins		CROSS SECTIONAL AREA sq ins	WEIGHT PER 1000FT lbs	RATED STRENGTH lbs	RESISTANCE ohms/1000ft		ALLOWABLE AMPACITY Amps
		No. of cores	Class	Individual Wire	Complete Cable				DC at 20°C	AC at 75°C	
PEACHBELL	6	7	A	0.0612	0.184	0.0206	25	563	0.658	0.805	103
ROSE	4	7	A	0.0772	0.232	0.0328	39	881	0.414	0.506	138
IRIS	2	7	AA.A	0.0974	0.292	0.0521	62	1350	0.26	0.318	185
PANSY	1	7	AA.A	0.1093	0.328	0.0657	78	1640	0.207	0.252	214
POPPY	1/0	7	AA.A	0.1228	0.368	0.0829	99	1990	0.164	0.2	247
ASTER	2/0	7	AA.A	0.1379	0.414	0.1045	125	2510	0.13	0.159	286
PHOLOX	3/0	7	AA.A	0.1548	0.464	0.1318	157	3040	0.103	0.126	331
OXLIP	4/0	7	AA.A	0.1739	0.522	0.1662	198	6830	0.0817	0.0999	393
SNEEZEVVORT	250	7	A	0.189	0.567	0.1964	234	4520	0.0691	0.846	425
VALERIAN	250	19	A	0.1147	0.574	0.1964	234	4660	0.0691	0.0846	425
DAISY	266.8	7	AA	0.1953	0.586	0.2095	250	4830	0.0648	0.0793	443
LAUREL	266.8	19	A	0.1185	0.593	0.2095	250	4970	0.0648	0.0793	444
PEONY	300	19	A	0.1257	0.629	0.2356	281	5480	0.0576	0.0706	478
TULIP	336.4	19	A	0.1331	0.666	0.2642	316	6150	0.0514	0.063	513
DAFFRODIL	350	19	A	0.1357	0.679	0.2749	328	6390	0.0494	0.0605	526
CANNA	397.5	19	AA.A	0.1447	0.724	0.3122	373	7110	0.0435	0.0534	570
GOLDENTUFT	450	19	AA	0.1538	0.769	0.3534	422	7890	0.0384	0.0427	616
COSMOS	477	19	AA	0.1584	0.793	0.3746	447	8360	0.0362	0.0455	639
SYRINGA	477	37	A	0.1135	0.795	0.3746	447	8690	0.0362	0.0445	639
ZINNIA	500	19	AA	0.1622	0.811	0.3927	469	8760	0.0346	0.0425	658
HYACINTH	500	37	A	0.1162	0.813	0.3927	468	9110	0.0346	0.0425	958
DAHLIA	556.5	19	AA	0.1711	0.856	0.4371	521	9750	0.0311	0.0382	703
MISTLETOE	556.5	37	AA.A	0.1226	0.858	0.4372	521	9940	0.0311	0.0382	704
MEADOWSWEET	600	37	AA.A	0.1273	0.891	0.4712	562	10700	0.0288	0.0355	738
ORCHID	636	37	AA.A	0.1311	0.918	0.4995	596	11400	0.0272	0.0355	765
HEUCHERA	650	37	AA	0.1326	0.928	0.5105	610	11600	0.0266	0.0328	775
VERBENA	700	37	AA	0.1375	0.963	0.5498	656	12500	0.0247	0.0305	812

CODE	SIZE AWG or kcmil	STRANDING		DIAMETER ins		CROSS SECTIONAL AREA sq ins	WEIGHT PER 1000FT lbs	RATED STRENGTH lbs	RESISTANCE ohms/1000ft		ALLOWABLE AMPACITY Amps
		No. of cores	Class	Individual Wire	Complete Cable				DC at 20°C	AC at 75°C	
FLAG	700	61	A	0.1071	0.964	0.5499	656	12400	0.0247	0.0305	812
VIOLET	715.5	37	AA	0.1391	0.974	0.562	671	12800	0.0242	0.0299	823
NASTURTIIUM	715.5	61	A	0.1083	0.975	0.5621	671	13100	0.0242	0.0299	823
PETUNNIA	750	37	AA	0.1424	0.997	0.5891	703	13100	0.023	0.0286	847
CATTAIL	750	61	A	0.1109	0.998	0.5891	703	13500	0.023	0.0286	847
ARBUTUS	795	37	AA	0.1466	1.026	0.6244	745	13900	0.0217	0.027	878
ULAC	795	61	A	0.1142	1.028	0.6244	746	14300	0.0217	0.027	879
COCKCOMB	900	37	AA	0.156	1.093	0.7069	844	15400	0.0192	0.0239	948
SNAPDRAGON	900	61	A	0.1215	1.094	0.7069	844	15900	0.0192	0.0239	948
MAGNOLIA	954	37	AA	0.1606	1.124	0.7493	895	16400	0.0181	0.0226	982
GOLDENROD	954	61	A	0.1251	1.126	0.7493	895	16900	0.0181	0.0226	983
HAWKWEED	1000	37	AA	0.1644	1.15	0.7854	937	17200	0.0173	0.0216	1010
CAMELIA	1000	61	A	0.128	1.152	0.7854	937	17700	0.0173	0.0216	1011
BLUEBELL	1033.5	37	AA	0.1671	1.17	0.8117	968	17700	0.0167	0.021	1031
LARKSPUR	1033.5	61	A	0.1302	1.172	0.8117	969	18300	0.0167	0.021	1032
MARIGOLD	1113	61	AA.A	0.1351	1.216	0.8742	1044	19700	0.0155	0.0195	1079
HAWTHORN	1192.5	61	AA.A	0.1398	1.258	0.9366	1117	21100	0.0145	0.0183	1124
NARCISSUS	1272	61	AA.A	0.1444	1.3	0.999	1192	22000	0.0136	0.0173	1169
COLUMBINE	1351.5	61	AA.A	0.1489	1.34	1.061	1266	23400	0.0128	0.0163	1212
CARNATION	1431	61	AA.A	0.1532	1.379	1.124	1342	24300	0.0121	0.0155	1253
GLADIOLUS	1510.5	61	AA.A	0.1574	1.417	1.186	1416	25600	0.0144	0.0147	1294
COREOPSIS	1590	61	AA	0.1614	1.454	1.249	1489	27000	0.0109	0.0141	1333
JESSAMINE	1750	61	AA	0.1694	1.525	1.374	1641	29700	0.0988	0.0129	1408
COWSLIP	2000	91	A	0.1482	1.63	1.571	1873	34200	0.00864	0.0115	1518
SAGEBRUSH	2250	91	A	0.1572	1.729	1.767	2128	37500	0.00776	0.0105	1612
LUPINE	2500	91	A	0.1657	1.823	1.964	2365	41900	0.00698	0.00969	1706
BITTERROOT	2750	91	A	0.1739	1.913	2.16	2602	46100	0.00635	0.009	1793
TRILLIUM	3000	127	A	0.1537	1.996	2.356	2687	50300	0.00582	0.00834	1874
BLUEBONNET	3500	127	A	0.166	2.158	2.749	3344	58700	0.00499	0.00756	2024

ASTM-B 231

SIZE AWG or kcmil	STRANDING		DIAMETER ins		CROSS SECTIONAL AREA sq ins	WEIGHT PER 1000FT lbs	RATED STRENGTH lbs	RESISTANCE ohms/1000ft		ALLOWABLE AMPACITY Amps
	No. of cores	Class	Individual Wire	Complete Cable				DC at 20°C	AC at 75°C	
6	7	B	0.0612	0.184	0.0206	25	583	0.658	0.805	103
4	7	B	0.0772	0.232	0.328	39	881	0.414	0.506	138
3	7	B	0.0867	0.26	0.0413	49	1090	0.328	0.401	160
2	7	B	0.0974	0.292	0.0521	62	1350	0.26	0.318	185
1	19	B	0.0664	0.332	0.0657	79	1740	0.207	0.252	214
1/0	19	B	0.0745	0.373	0.0829	99	2160	0.164	0.2	248
2/0	19	B	0.0837	0.419	0.1045	125	2670	0.13	0.159	287
3/0	19	B	0.094	0.47	0.1318	157	3310	0.103	0.126	332
4/0	19	B	0.1055	0.528	0.1662	198	4020	0.0817	0.0999	384
250	37	B	0.0822	0.575	0.1964	234	4910	0.0691	0.0846	426
300	37	B	0.09	0.63	0.2356	281	5890	0.0576	0.0706	478
350	37	B	0.0973	0.681	0.2749	328	6760	0.0494	0.0605	527
400	37	B	0.104	0.728	0.3142	375	7440	0.0432	0.053	573
450	37	B	0.1103	0.772	0.3524	422	8200	0.0384	0.0472	616
500	37	B	0.1162	0.813	0.3927	468	9110	0.0346	0.0425	658
550	61	B	0.095	0.855	0.432	516	10500	0.0314	0.0387	699
600	61	B	0.0992	0.893	0.4721	563	11500	0.0288	0.0355	738
650	61	B	0.1032	0.929	0.5105	609	11900	0.0266	0.0328	776
700	61	B	0.1071	0.964	0.5498	656	12900	0.0247	0.0305	812
750	61	B	0.1109	0.998	0.5891	703	13500	0.023	0.0286	847
800	61	B	0.1145	1.031	0.6283	750	14400	0.0216	0.0268	882
900	61	B	0.1215	1.094	0.7069	844	15900	0.0192	0.0239	948
1000	61	B	0.128	1.154	0.7854	937	17700	0.0173	0.0216	1011
1100	61	B	0.1099	1.209	0.8669	1030	20000	0.0157	0.0198	1071
1200	91	B	0.1148	1.263	0.9425	1124	21400	0.0144	0.0182	1129
1250	91	B	0.1172	1.289	0.9818	1172	22300	0.0138	0.0175	1557
1300	91	B	0.1195	1.315	1.021	1218	23200	0.0133	0.0169	1184
1400	91	B	0.124	1.364	1.1	1311	24500	0.0123	0.0158	1237
1500	91	B	0.1284	1.412	1.178	1406	26200	0.0155	0.0148	1288
2	19	C	0.0591	0.296	0.0521	62	1410	0.26	0.318	185
2/0	37	C	0.06	0.42	0.1045	125	2760	0.13	0.159	287
3/0	37	C	0.0673	0.471	0.1318	157	3.41	0.1030	0.126	332
4/0	37	C	0.0756	0.529	0.1662	198	4.23	0.0817	0.0999	384
250	61	C	0.064	0.576	0.1964	234	5.03	0.0691	0.0846	427
300	61	C	0.0701	0.631	0.2356	281	5.93	0.0576	0.0706	478
350	61	C	0.0757	0.681	0.2749	328	6.92	0.0494	0.0605	527
400	61	C	0.081	0.729	0.3142	375	7.78	0.0432	0.053	573
450	61	C	0.0859	0.773	0.3534	422	8.75	0.0384	0.0472	617
500	61	C	0.0905	0.815	0.3927	468	9.54	0.0346	0.0425	659
550	91	C	0.0777	0.855	0.432	515	10.8	0.0314	0.0387	699
600	91	C	0.0812	0.893	0.4712	562	11.5	0.0288	0.0355	738
650	91	C	0.0845	0.93	0.5105	609	12.5	0.0266	0.0328	776
700	91	C	0.0877	0.964	0.5498	656	13.5	0.0247	0.0305	812
750	91	C	0.0908	0.999	0.5891	703	14.2	0.023	0.0286	848
800	91	C	0.0938	1.032	0.6283	750	15.1	0.0216	0.0247	882
900	91	C	0.0994	1.093	0.7069	843	17.1	0.0192	0.0239	948
1000	91	C	0.1048	1.153	0.7854	937	18.2	0.0173	0.0216	1011

TS IEC 1089

CODE AL mm ²	CANADA STANDARD		AREAS		NO. OF WIRES	DIAMETER OF WIRES mm	CONDUCTOR DIAMETER mm	RATED STRENGTH kg	DC RESISTANCE AT 20°C ohms/km	UNIT WEIGHT kg/km	PACKING OF REELS		
	Type	Section AWG	Total mm ²	Copper Equivalent mm ²							Reel type	In one reel	
												Lengths m	Net weight kg
21	ROSE	4	21.14	13.3	7	1.96	5.88	416	1.3558	57.8	R-100	10000	578
27	LILY	3	26.6	16.73	7	2.2	6.6	514	1.0776	72.8	R-100	8000	583
34	IRIS	2	33.53	21.09	7	2.47	7.41	637	0.8537	91.8	R-100	6400	588
42	PANSY	1	42.49	26.72	7	2.78	8.34	777	0.6743	116.8	R-100	5000	582
53	POPPY	1/0	53.48	33.63	7	3.12	9.36	941	0.5354	146.4	R-100	4000	586
67	ASTER	2/0	67.14	42.22	7	3.5	10.5	1185	0.4254	184.4	R-100	3000	554
85	PHLOX	3/0	84.91	53.4	7	3.93	11.79	1435	0.3372	232.5	R-100	2400	558
107	OXLIP	4/0	107.38	67.53	7	4.42	13.26	1814	0.2662	294	R-100	1900	559
126	VALERIAN	250000	126.38	79.46	19	2.91	14.55	2261	0.2277	347.5	R-100	1600	556
135	DAISY	266800	135.28	85.07	19	3.01	15.05	2421	0.2127	372.1	R-100	1500	556
152	PEONY	300000	151.28	95.47	19	3.19	15.95	2671	0.1896	417.7	R-120	1750	731

DIN 48201

CODE	SECTION mm ²	STRANDING		OVERALL DIAMETER mm	RATED STRENGTH N	ELECTRICAL RESISTANCE ohms/km	CABLE WEIGHT kg/km	CURRENT CARRYING CAPACITY (1) Amps
		No	Q mm					
16	15.89	7	1.7	5.1	2840	1.8018	44	110
25	24.25	7	2.1	6.3	4170	1.1808	67	145
35	34.46	7	2.5	7.5	5740	0.8332	94	180
50	49.48	7	3	9	7950	0.5786	135	225
50	48.36	19	1.8	9	8440	0.595	133	225
70	65.82	19	2.1	10.5	11250	0.4371	181	270
95	93.27	19	2.5	12.5	15650	0.3085	256	340
120	117	19	2.8	14	18750	0.2459	322	390
150	147.1	37	2.25	15.7	25250	0.1961	406	455
185	181.6	37	2.5	17.5	30450	0.1587	501	520
240	242.5	61	2.25	20.2	39350	0.1192	670	625
300	299.4	61	2.5	22.5	47550	0.0965	827	710
400	400.1	61	2.89	26	60700	0.0722	1105	855
500	499.8	61	3.23	29.1	74500	0.0578	1381	990
625	626.3	91	2.96	32.6	95000	0.0462	1733	1140
800	802.1	91	3.35	36.8	118200	0.0361	2219	1340
1000	999.7	91	3.74	41.1	145500	0.029	2766	1540

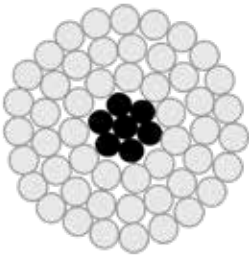
CODE	SECTION mm²		STRANDING		OVERALL DIAMETER mm	RATED STRENGTH N	ELECTRICAL RESISTANCE ohms/km	CONDUCTOR WEIGHT kg/km
	Nominal	Teorical	No	Q mm				
MIDGE	22	23.33	7	2.06	6.18	3990	1.227	64
ANT	50	52.83	7	3.1	9.3	8280	0.5419	145
FLY	60	63.55	7	3.4	10.2	9900	0.4505	174
WASP	100	106	7	4.39	13.17	16000	0.2702	290
HORNET	150	157.6	19	3.25	16.25	25700	0.1825	434
CHARFER	200	213.2	19	3.78	18.9	35400	0.1349	587
COCKROACH	250	265.7	19	4.22	21.1	40400	0.1083	731
BUTTERFLY	300	322.7	19	4.65	23.25	48750	0.08916	888
CENTIPEDE	400	415.2	37	3.78	26.46	63100	0.06944	1145

Basic Technical Data of Stranded Conductors

NO. OF WIRES AL	FINAL MODULES OF ELASTICITY		COEFICIENT OF LINEAR EXPANSION	
	Nominal	Teorical	1/°C	1/F°
7	6000	8.5 x 106	23 × 10 ⁻⁶	12.8 x 10 ⁻⁶
19	5700	8.1 x 106		
37	5700	8.1 x 106		
61	5500	7.8 x 106		
91	5500	7.8 x 106		

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

ACSR – ASTM – B
Aluminium Conductor Steel
Reinforced



➤ APPLICATION

ACSR conductor consists of a solid or stranded steel core surrounded by strands of aluminium. ACSR conductor is available in a range of steel strengths varying from 6% up to 40%. The higher strength ACSR conductors are used for river crossings, overhead earth wires, and installations involving extra long spans. Against any given resistance of conductor, ACSR conductor may be manufactured to have different tensile strengths as per requirement. The principal advantage of these conductors is their high tensile strength and light weight, covering longer spans with fewer supports. Due to the greater diameter of an ACSR conductor much higher corona limit can be obtained, giving a big advantage on high and extra high voltage overhead lines.

➤ STANDARDS

ASTM B231, ASTM B 232, DIN 48201, BS 215, UNE 21.018

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Conductor

Hard Drawn Aluminium: BS EN 60889

AL1 and Zinc coated steel wire as per BS EN 50189 with the class and grade in accordance with ST1A, ST5E and ST6C

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.

To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

ASTM Sizes ASTM Sizes - TS IEC 1089

CODE AL mm ²	CANADA STANDARD		SECTION				CONDUCTORS			
	Type	Section AWG	Al mm ²	Steel mm ²	Total mm ²	Copper equivalent mm ²	Aluminium		Steel	
							N.	Diameter mm	N.	Diameter mm
17/3	TUHRUS	5	16.83	2.8	19.63	10.6	6	1.89	1	1.89
21/4	SWAN	4	21.18	3.53	24.71	13.3	6	2.12	1	2.12
27/4	SWALLOW	3	26.69	4.45	31.14	16.8	6	2.38	1	2.38
34/6	SPARROW	2	33.59	5.6	39.19	21.1	6	2.67	1	2.67
42/7	ROBIN	1	42.41	7.07	49.48	26.7	6	3	1	3
54/9	RAVEN	1/0	53.52	8.92	62.44	33.7	6	3.37	1	3.37
67/11	QUAIL	2/0	67.33	11.22	78.55	43.3	6	3.78	1	3.78
85/14	PIGEON	3/0	85.12	14.18	99.3	53.5	6	4.25	1	4.25
135/7	WAXWING	266800	134.98	7.5	142.48	84.9	18	3.09	1	3.09
135/22	PARTRIDGE	266800	134.87	21.99	156.86	84.8	26	2.57	7	2

ASTM Sizes - TS IEC 1089

CODE AL mm ²	CANADA STANDARD		SECTION				CONDUCTORS			
	Type	Section AWG	Al mm ²	Steel mm ²	Total mm ²	Copper equivalent mm ²	Aluminium		Steel	
							N.º	Diameter mm	N.º	Diameter mm
152/8	PHEOBE	300000	152.09	8.45	160.54	95.6	18	3.28	1	3.28
152/25	OSTRICH	300000	152.19	24.71	176.9	95.7	26	2.73	7	2.12
242/39	HAWK	477000	241.65	39.19	280.84	152	26	3.44	7	2.67
403/65	DRAKE	795000	402.56	65.44	468	253.2	26	4.44	7	3.45
485/63	CARDINAL	954000	484.53	62.81	547.34	304.7	54	3.38	7	3.38
645/82	PHEASANT	127200	645.08	81.71	726.79	405.7	54	3.90	19	2.34

ASTM - TS IEC 1089

CODE AL mm ²	DIAMETER mm		RATED STRENGTH	DC RESISTANCE AT 20°C	UNIT WEIGHT kg/km			TOTAL WEIGHT %		PACKING OF REELS				
	Steel core	Complete cable			kg	ohm/km	Al	Steel	Total	Al	Steel	Reel type	In one reel	
													Lengths m	Net weight kg
17/3	1.89	5.67	665	1.075	46.2	21.8	68	67.9	32.1	R-100	9600	653		
21/4	2.12	6.36	831	1.355	58.1	27.5	85.6	67.9	32.1	R-100	8000	685		
27/4	2.38	7.14	1023	1.074	73.2	34.6	107.8	67.9	32.1	R-100	6400	690		
34/6	2.67	8.01	1264	0.854	92.1	43.6	135.7	67.9	32.1	R-100	4800	652		
42/7	3	9	1579	0.677	116.4	55	171.4	67.9	32.1	R-100	3200	550		
54/9	3.37	10.11	1945	0.536	146.8	69.4	216.2	67.9	32.1	R-100	3200	692		
67/11	3.78	11.34	2420	0.426	184.7	87.3	272	67.9	32.1	R-100	2400	653		
85/14	4.25	12.75	3035	0.337	233.5	110.4	343.9	67.9	32.1	R-100	1600	550		
135/7	3.09	15.45	3220	0.213	371.8	58.3	430.1	86.4	13.6	R-100	1600	688		
135/22	6	16.28	5099	0.214	372.2	171.6	543.8	68.5	31.5	R-120	1600	870		
152/8	3.28	16.4	3628	0.189	418.9	65.7	484.6	86.4	13.6	R-120	2500	1212		
152/25	6.36	17.28	5736	0.190	420	192.9	612.9	68.5	31.5	R-120	1600	981		
242/39	8.01	21.77	8798	0.119	666.8	306	972.8	68.5	31.5	R-150	1750	1703		
403/65	10.35	28.11	14165	0.072	1110.9	511	1621.9	68.5	31.5	R-180	1600	2595		
485/63	10.14	30.42	15589	0.060	1339.6	190.2	1829.8	73.2	26.8	R-200	2000	3660		
645/82	11.7	35.1	20383	0.045	1783.8	639.7	2423.5	73.6	26.4	R-200	1600	3878		

ASTM - B 232 Metric Units

CODE	SIZE KCM	STRANDING No. x mm		SECTION mm²		OVERALL DIAMETER mm		CONDUCTOR WEIGHT kg/km			RATED STRENGTH kN	ELECTRICAL RESISTANCE			CURRENT CARRYING CAPACITY Amps
		AL.	Steel	total	Al	Total	Core	Total	AL.	Steel		20 °C DC	25°C AC	75 °C AC	
TURKEY	6	6 x 1.68	1 x 1.68	15.52	13.3	5.04	1.68	53.8	36.5	17.3	5.295	2.1135	2.1496	2.6850	110
SWAN	4	6 x 2.12	1 x 2.12	24.71	21.18	6.36	2.12	85.4	58	27.4	8.28	1.3278	1.3537	1.7172	145
SWANATE	4	7 x 1.96	1 x 2.61	26.47	21.12	6.53	2.61	99.7	58	41.7	10.5	1.1313	1.3387	1.7383	145
SPARROW	2	6 x 2.67	1 x 2.67	39.2	33.6	8.01	2.67	135.9	92.3	43.6	12.68	0.8343	0.8527	1.1081	195
SPARATE	2	7 x 2.47	1 x 3.30	42.09	33.54	5.24	3.3	158.8	92.3	66.51	6.2	0.8251	0.8435	1.1181	195
ROBIN	1	6 x 3.00	1 x 3.00	49.48	42.41	9	3	171.4	116.4	55	15.8	0.6621	0.6768	0.8907	200
RAVEN	1/0	6 x 3.37	1 x 3.37	62.44	53.52	10.11	3.37	216.1	146.7	69.4	19.49	0.5243	0.5370	0.7165	255
QUAIL	2/0	6 x 3.78	1 x 3.78	78.55	67.33	11.34	3.78	272.5	185	87.5	23.63	0.4160	0.4265	0.5803	295
PIGEON	3/0	6 x 4.25	1 x 4.25	99.31	85.12	12.75	4.25	343.5	233.2	110.3	29.46	0.3304	0.3386	0.4705	340
PENGUIN	4/0	6 x 4.77	1 x 4.77	125.09	107.22	14.31	4.77	433.2	294.2	139	37.16	0.2618	0.2697	0.3829	390
WAXWING	266.8	18 x 3.09	1 x 3.09	142.5	135	15.45	3.09	431.6	372.9	58.7	30.62	0.2119	0.2169	0.2595	480
PARTRIDGE	266.8	26 x 2.57	7 x 2.00	156.9	134.9	16.28	6	546.1	374.3	171.8	50.28	0.2100	0.2146	0.2569	490
OSTRICH	300	26 x 2.73	7 x 2.12	176.9	152.2	17.28	6.36	614.6	421.3	193.3	56.52	0.1867	0.1909	0.2283	530
MERLIN	336.4	18 x 3.47	1 x 3.47	179.7	170.2	17.35	3.47	543.2	469.7	73.5	38.36	0.1680	0.1719	0.2057	560
LINNET	336.4	26 x 2.89	7 x 2.25	198.4	170.6	18.31	6.75	689	472.2	216.8	62.75	0.1663	0.1669	0.2037	570
ORIOLE	336.4	30 x 2.69	7 x 2.69	210.3	170.5	18.83	8.07	784.3	473.2	311.1	76.98	0.1654	0.1690	0.2024	575
CHICKADEE	397.5	18 x 3.77	1 x 3.77	212.1	200.9	18.85	3.77	642.9	555.5	87.4	44.23	0.1221	0.1457	0.1742	620
BRANT	397.5	24 x 3.27	7 x 2.18	227.7	201.6	19.62	6.54	762	558.1	203.9	64.97	0.1417	0.1450	0.1732	630
IBIS	397.5	26 x 3.14	7 x 2.44	234	201.3	19.88	7.32	814	558.2	255.8	72.53	0.1411	0.1444	0.1726	635
LARK	397.5	30 x 2.92	7 x 2.92	247.8	200.9	20.44	8.76	927.1	555.1	372	90.3	0.1401	0.1434	0.1716	645
PELICAN	477	18 x 4.14	1 x 4.14	255.8	242.3	20.7	4.14	770.9	666.4	104.5	52.51	0.1184	0.1217	0.1453	700
FLICKER	477	26 x 3.58	7 x 2.39	273	241.6	21.19	7.17	915.2	670.1	245.1	76.54	0.1178	0.1207	0.1444	710
HAWK	477	26 x 3.44	7 x 2.67	280.8	241.6	21.77	8.01	977.7	669.7	308	86.77	0.1171	0.1201	0.1437	715
HEN	477	30 x 3.20	7 x 3.20	297.6	241.3	22.40	9.6	1111.7	671	440.7	105.91	0.1165	0.1194	0.1427	725
OSPREY	556.5	18 x 4.47	1 x 4.47	298.2	282.5	22.35	4.47	898.9	777	121.9	60.96	0.1014	0.1043	0.1247	775
PARAKEET	556.5	24 x 3.87	7 x 2.58	318.9	282.3	23.22	7.74	1067	781.6	285.4	88.11	0.1010	0.1037	0.1240	785
DOVE	556.5	26 x 3.72	7 x 2.89	328.5	282.6	23.55	6.67	1140	781.3	358.7	105.57	0.1007	0.1033	0.1237	790
EAGLE	556.5	27 x 3.30	7 x 3.46	347.9	282.1	24.27	1.38	1297.7	983.2	514.5	123.71	0.1001	0.1027	0.1227	800
PEACOCK	605	24 x 4.03	7 x 2.65	345.9	306.1	24.19	8.07	1160.8	849.8	311	96.12	0.09285	0.09547	0.11417	830
SQUAB	605	26 x 3.87	7 x 3.01	355.6	305.8	24.51	9.03	1239.7	849.8	389.9	108.13	0.09252	0.09514	0.11352	835
WOODDUCK	605	30 x 3.61	7 x 3.61	378.8	307.1	25.27	10.83	1410.8	851.2	559.6	128.6	0.03186	0.09449	0.11286	845
TEAL	605	30 x 3.61	19 x 2.16	376.1	307.1	25.24	10.80	1398.9	851.5	547.4	135.5	0.09186	0.09449	0.11286	845
KINGBIRD	636	18 x 4.78	1 x 4.78	340.9	323	23.9	4.78	1026.9	887.4	139.5	69.86	0.08891	0.09219	0.11286	840
ROOK	636	24 x 4.14	7 x 2.76	365	323.1	24.84	8.28	1281.8	892.9	388.9	97.9	0.08825	0.09088	0.10925	855
GROSBEAK	636	26 x 3.97	7 x 3.09	321.8	251.5	9.27	1302.2	892.6	-	409.6	1302.2	0.11214	0.08793	0.10827	860
SCOTER	636	30 x 3.70	7 x 3.70	397.9	322.6	25.9	11.1	1477.8	891.4	586.4	135.27	0.0876	0.0899	0.10794	870
EGRET	636	30 x 3.70	19 x 2.22	396.1	322.6	25.9	11.1	1470.3	895	575.3	140.17	0.0876	0.8990	0.10761	870
SWIFT	636	36 x 3.38	1 x 3.38	332	323	23.66	3.58	958.4	888.4	7	61.41	0.0892	0.9186	0.1093	845
FLAMINGO	666.6	24 x 4.23	7 x 2.82	381	337.3	25.38	8.46	1276.9	935.2	341.7	105.46	0.0843	0.8563	0.1037	880
GANNET	666.6	26 x 4.07	7 x 3.16	393.2	338.3	25.76	9.48	1364.7	936.1	428.6	117.48	0.08399	0.08497	0.10302	885
STILT	715.5	24 x 4.39	7 x 2.92	410.2	363.3	26.32	8.76	1372.1	1004.5	367.6	113.47	0.07841	0.08104	0.09678	920
STARLING	715.5	26 x 4.21	7 x 3.28	421	361.9	26.68	9.84	1465.9	1004.5	461.4	126.37	0.07808	0.08038	0.09613	930
REDWING	715.5	30 x 3.92	19 x 2.35	444.5	362.1	27.43	11.75	1653.4	1007.1	646.3	153.96	0.07776	0.08005	0.09547	940
CUCKOO	795	24 x 4.62	7 x 3.08	454.5	402.3	27.72	9.24	1522.4	1115.2	407.2	124.15	0.07087	0.07316	0.08727	985
DRAKE	795	26 x 4.44	7 x 3.45	468	402.6	28.11	10.35	1628.1	1115.8	512.3	140.17	0.07054	0.07283	0.08694	995
COOT	795	36 x 3.77	1 x 3.77	413.1	401.9	26.39	3.77	1198	1110.2	87.8	74.76	0.07152	0.07415	0.08825	975
TERN	795	45 x 3.38	7 x 2.25	431.6	403.8	27.03	6.75	1333.4	1116.1	217.3	98.34	0.07119	0.07382	0.08793	970

CÓDIGO	TAMAÑO KCM	TRAZADO N.º x mm		SECCIÓN mm²		DIÁMETRO TOTAL mm		PESO DEL CONDUCTOR kg/km			RESIST. NOM. kN	RESISTENCIA ELÉCTRICA			CAPACIDAD DE TRANSPORTE DE CORRIENTE Amps
		Al.	Acero	total	Al	Total	Núcleo	Total	Al.	Acero		20 ° C CC	25°C CA	75 ° C CA	
CONDOR	795	54 x 3.08	7 x 3.08	454.5	402.3	27.72	9.24	1513.9	1116.1	407.8	125.48	0.07054	0.07283	0.08694	975
MALLARD	795	30 x 4.14	19 x 2.48	495.6	403.8	28.96	12.4	1837.9	1118.7	719.2	170.87	0.06988	0.07218	0.08596	1005
RUDDY	900	45 x 3.59	7 x 2.40	487.2	455.5	28.74	7.2	1510.5	1263.5	247	108.58	0.06234	0.06463	0.07743	1050
CANARY	900	54 x 3.28	7 x 3.28	515.4	456.3	29.52	9.84	1724.8	1263.5	461.3	141.95	0.06234	0.06463	0.07710	1055
CATBIRD	954	36 x 4.14	1 x 4.14	498.1	484.6	28.98	4.14	1437.6	1333.4	104.2	88.11	0.05971	0.06234	0.07415	1095
RAIL	954	45 x 3.70	7 x 2.47	517.3	483.8	29.61	7.41	1599.8	1339.4	260.4	115.25	0.05938	0.06201	0.07382	1090
CARDINAL	954	54 x 3.38	7 x 3.38	547.3	484.5	30.42	10.14	1829	1339.8	489.2	150.4	0.05906	0.06135	0.07316	1095
TANAGER	1033.5	36 x 4.30	1 x 4.30	537.3	522.8	30.1	4.3	1556.6	1433.5	113.1	95.23	0.05577	0.05873	0.06923	1130
ORTOLAN	1033.5	45 x 3.85	7 x 2.57	560.2	523.9	30.81	7.71	1733.7	1451	282.7	123.26	0.05479	0.05741	0.06824	1150
CURLEVV	1033.5	54 x 3.52	7 x 3.52	593.6	525.5	31.68	10.56	1980.8	1451	529	162.86	0.05446	0.05677	0.06759	1150
BLUEJAY	1113	45 x 4.00	7 x 2.66	604.4	565.5	31.98	7.98	1867.7	1562.6	305.1	132.6	0.05085	0.05348	0.06365	1205
FINCH	1113	54 x 3.65	19 x 2.19	636.6	565	32.85	10.95	2129.6	1570	559.6	174	0.05085	0.05315	0.06332	1205
BUNTING	1192.5	45 x 4.14	7 x 2.76	647.7	605.8	33.12	8.28	2000.1	1674.2	325.9	142.4	0.04757	0.0502	0.05938	1255
GRACKLE	1192.5	54 x 3.77	19 x 2.27	679.7	602.8	33.97	11.35	2281.4	1681.7	599.8	186.45	0.04724	0.04954	0.05906	1260
SKYLARK	1272	36 x 4.78	1 x 4.78	664	646	33.46	4.78	1916.8	1776.9	139.9	117.48	0.04462	0.04757	0.05643	1310
BITTERN	1272	45 x 4.27	7 x 2.85	489.1	644.4	34.17	8.55	2134.1	1785.8	384.3	151.74	0.04462	0.04724	0.0561	1310
PHEASANT	1272	54 x 3.90	19 x 2.34	726.8	645.1	35.1	11.7	2423.5	1783.8	639.7	199.96	0.04429	0.04659	0.05545	1310
DIPPERF	1351.5	45 x 4.40	7 x 2.93	731.4	684.2	35.19	8.79	2266.5	1898.5	368	161.08	0.04199	0.04495	0.05282	1360
MARTIN	1351.5	54 x 4.02	19 x 2.41	772.1	685.4	36.17	12.05	2585	1906.4	678.6	206.03	0.04167	0.04396	0.05217	1365
BOBOLINK	1431	45 x 4.53	7 x 3.02	775.4	725.3	36.24	9.06	2400.4	2009.1	391.3	170.43	0.0397	0.04265	0.0502	1410
PLOVER	1431	54 x 4.14	19 x 2.48	818.7	726.9	37.24	12.4	2738.3	2019	719.3	218.48	0.03937	0.04167	0.04954	1415
NUTHATCH	1510.5	45 x 4.65	7 x 3.10	817	764.2	37.2	9.3	2532.9	2120.7	412.2	178.44	0.0374	0.04035	0.04757	1455
PARROT	1510.5	54 x 4.25	19 x 2.55	863.1	766.1	38.25	12.75	2890.1	2131.1	759	230.05	0.0374	0.04003	0.04724	1460
LAPWING	1590	45 x 4.78	7 x 3.18	863.1	807.7	38.22	9.54	2666.8	2232.3	434.5	187.78	0.03576	0.03871	0.0456	1505
FALCON	1590	54 x 4.36	19 x 2.62	908.6	806.2	39.26	13.1	3041.9	2242.7	799.2	242.51	0.03543	0.03806	0.04495	1510
CHUKAR	1780	84 x 3.70	19 x 2.22	976.7	903.2	42.7	11.1	3086.5	2510.6	575.9	226.94	0.03182	0.03477	0.04101	1620
BLUEBIRD	2156	84 x 4.07	19 x 2.44	1181.6	1092.8	44.76	12.2	3737.8	3040.4	697.4	268.32	0.02628	0.02953	0.03445	1815
KIWI	2167	72 x 4.41	7 x 2.94	1147.3	1099.8	44.1	8.82	3427.3	3056.7	370.6	221.6	0.02628	0.02986	0.03478	1795
THRASHER	2312.8	76 x 4.43	19 x 2.07	1235.3	1711.4	45.79	10.35	3760.7	3262.1	498.6	252.3	0.02461	0.02838	0.03281	1875
GROUSE	80	8 x 2.54	1 x 4.24	54.66	40.54	9.32	4.24	221.7	111.8	109.9	23.14	0.6798	0.69590	0.96260	200
PETREL	101.8	12 x 2.34	7 x 2.34	81.71	51.61	11.7	7.02	378.1	142.9	235.2	42.28	0.5217	0.52890	0.78350	250
MINORCA	110.8	12 x 2.44	7 x 2.44	88.84	56.11	12.2	7.32	411.6	155.5	256.1	50.28	0.4793	0.49770	0.74180	265
LEGHORN	134.6	12 x 2.69	7 x 2.69	108	68.2	13.45	8.07	500	189	311	60.52	0.3947	0.40120	0.61810	300
GUINEA	159	12 x 2.92	7 x 2.92	127.23	80.36	14.6	8.76	590.5	223.2	367.3	68.08	0.3340	0.33990	0.53740	330
DOTTEREL	176.9	12 x 3.08	7 x 3.08	141.56	89.41	15.4	9.24	656.9	248.4	408.4	76.98	0.3002	0.30770	0.49150	350
DORKING	190.8	12 x 3.20	12 x 3.20	152.81	96.51	16	9.6	708.8	267.9	440.9	83.21	0.2782	0.28410	0.46160	370
BRAHMA	203.2	16 x 2.86	19 x 2.48	194.57	102.79	18.12	12.4	1007.2	285.3	721.9	126.37	0.2520	0.25590	0.42950	380
COCHIN	211.3	12 x 3.37	7 x 3.37	169.47	107.04	16.85	10.11	785	296.6	488.4	92.11	0.2513	0.25590	0.42490	390

ASTM B232

CÓDIGO	AWG- MCM	TRAZADO Al/Acero	DIÁMETRO pulg				PESO POR 1000 pies lbs			CONTENIDO %		RESIS- TENCIA NOMINAL lbs	RESISTENCIA ELÉCTRICA ohmios/1000 pies		CAPACIDAD DE CORRI- ENTE Amps
			Hilos individuales		Acero	Total	Al	Acero	Total	Al	Acero		20 ° C CC	75 ° C CA	
			Al	Acero											
TURKEY	6	6/1	0.06610	0.06610	0.06610	0.198	24.5	11.6	36	67.9	32.1	1.19	0.641	0.806	105
SWAN	4	6/1	0.08340	0.08340	0.08340	0.250	39	18.4	57	67.9	32.1	1.86	0.403	0.515	140
SWANATE	4	7/1	0.07720	0.10290	0.10290	0.257	39	28	67	58.13	41.87	2.36	0.399	0.519	140
SPARROW	2	6/1	0.1052	0.1052	0.1052	0.316	62	29.3	91	67.9	32.1	2.85	0.254	0.332	184
SPARATE	2	7/1	0.0974	0.1299	0.1299	0.325	62	44.7	107	58.13	41.87	3.46	0.251	0.332	184
ROBIN	1	6/1	0.1181	0.1182	0.1182	0.355	78.2	37	115	67.9	32.1	3.55	0.201	0.268	212
RAVEN	1/0	6/1	0.1327	0.1327	0.1327	0.398	98.6	46.6	145	67.9	32.1	4.38	0.159	0.217	242
QUAIL	2/0	6/1	0.1489	0.1489	0.1489	0.447	124.3	58.8	183	67.9	32.1	5.31	0.126	0.176	276
PIGEON	3/0	6/1	0.1672	0.1672	0.1672	0.502	156.8	74.1	230	67.9	32.1	6.62	0.100	0.144	315
PENGUIN	4/0	6/1	0.1878	0.1878	0.1878	0.563	197.7	93.4	291	67.9	32.1	8.35	0.0795	0.119	357
WAXWING	266.8	18/1	0.1217	0.1217	0.1217	0.609	250.4	39.3	289	86.45	13.55	6.88	0.0643	0.0787	449
PARTRIDGE	266.8	26/7	0.1013	0.0788	0.2364	0.642	251.7	115.6	366	68.53	31.47	11.3	0.0437	0.0779	475
OSTRICH	300	26/7	0.1074	0.0835	0.2505	0.680	283	129.9	412	68.53	31.47	12.7	0.0567	0.0693	492
MERLIN	336.4	18/1	0.1367	0.0961	0.1367	0.684	315.8	49.5	365	86.45	13.55	8.68	0.0510	0.0625	519
LINNET	336.4	26/7	0.1137	0.0884	0.2652	0.720	317.3	145.7	462	68.53	31.47	14.1	0.0505	0.0618	529
ORIOLE	336.4	30/7	0.1059	0.1059	0.3177	0.741	318.1	209	526	60.53	39.65	17.3	0.0502	0.0613	535
CHICKADEE	397.5	18/7	0.1486	0.1486	0.1486	0.743	372.5	58.5	431	86.45	13.55	9.94	0.0432	0.0529	576
BRANT	397.5	24/1	0.1287	0.0858	0.2574	0.772	374.9	137.1	511	73.23	26.77	14.6	0.043	0.0526	584
IBIS	397.5	26/7	0.1236	0.0961	0.2883	0.783	375	172.2	546	68.53	31.47	16.3	0.0428	0.0523	587
LARK	397.5	30/7	0.1151	0.1151	0.3453	0.806	375.9	246.9	622	60.35	39.65	20.3	0.0425	0.0519	594
PELICAN	477	18/7	0.1628	0.1628	0.1628	0.814	447.8	70.2	517	86.45	13.55	11.8	0.036	0.0442	646
FLICKER	477	24/7	0.141	0.0940	0.2820	0.846	450	164.5	614	73.23	26.77	17.2	0.0358	0.0439	655
HAWK	477	26/7	0.1354	0.1053	0.3159	0.858	450	206.8	655	68.53	31.47	19.5	0.0356	0.0436	659
HEN	477	30/7	0.1261	0.1261	0.3783	0.883	451	296.3	746	60.35	39.65	23.8	0.0354	0.0433	666
OSPREY	556.5	18/1	0.1758	0.1758	0.1758	0.879	522	82	603	86.45	13.55	13.7	0.0308	0.0379	711
PARAKEET	556.5	24/7	0.1523	0.1015	0.3045	0.914	525	192	716	73.23	26.77	19.8	0.0307	0.0376	721
DOVE	556.5	26/7	0.1463	0.1138	0.3414	0.927	525	241	765	68.53	31.47	22.6	0.0306	0.0375	726
EAGLE	556.5	30/7	0.1362	0.1362	0.4086	0.953	526	346	871	60.35	39.65	27.8	0.0303	0.0372	734
PEACOCK	605	24/7	0.1588	0.1059	0.3177	0.953	571	208	779	73.23	26.77	21.6	0.0282	0.0346	760
SQUAB	605	26/7	0.1525	0.1186	0.3558	0.966	571	262	831	68.53	31.47	24.3	0.0281	0.0345	765
WOOD DUCK	605.5	30/7	0.142	0.1420	0.4260	0.994	572	376	946	60.35	29.55	28.9	0.0279	0.0342	774
TEAL	605.5	30/19	0.142	0.0852	0.4260	0.994	572	367	939	60.89	39.11	30	0.0279	0.0342	773
KINGBOIRD	636	18/1	0.188	0.1880	0.1880	0.940	597	94	690	86.45	13.55	15.7	0.027	0.0332	773
SWIFT	636	36/1	0.1329	0.1329	0.1329	0.940	597	47	643	92.45	7.2	13.69	0.0271	0.0334	769
ROOK	636	24/7	0.1628	0.1085	0.3255	0.978	600	219	818	73.23	26.77	22	0.0268	0.033	784
GROSBEAK	605.5	26/7	0.1564	0.1216	0.4260	0.990	600	275	874	68.53	31.47	25.2	0.0267	0.0328	789
SCOTER	605.5	30/7	0.1456	0.1456	0.4368	1.019	601	395	995	60.35	39.55	30.4	0.0256	0.0325	798
EGRET	605.5	30/19	0.1456	0.0874	0.4370	1.019	601	387	987	60.89	39.11	31.5	0.0266	0.0326	798
FLAMINGO	666.6	24/7	0.1667	0.1111	0.3333	1.000	629	230	858	73.23	26.77	23.7	0.0256	0.0315	807
GANNET	666.6	26/7	0.1601	0.1245	0.3735	1.014	628	289	916	68.53	31.47	26.4	0.0255	0.0313	812
STILT	715.5	24/7	0.1727	0.1151	0.3453	1.036	675	247	921	73.23	26.77	25.5	0.0239	0.0294	844
STARLING	715.5	26/7	0.1659	0.1290	0.3870	1.051	675	310	984	68.53	31.47	28.4	0.0238	0.0292	849
REDWING	715.5	30/19	0.1544	0.0926	0.4630	1.081	676	435	1109	60.89	39.11	34.6	0.0236	0.029	859
COOT	795	36/1	0.1486	0.1486	0.1486	1.040	747	58	804	92.8	7.2	16.71	0.0217	0.0268	884
CUCKOO	795	24/7	0.182	0.1213	0.3639	1.092	749	247	1023	73.23	26.77	27.9	0.0215	0.0265	901

DIN 48.204

CODE	AWG-MCM	STRAND- ING AL/Steel	DIAMETER ins				WEIGHT PER 1000FT lbs			CONTENT %		RATED STRENGTH lbs	ELECTRICAL RESISTANCE ohms/1000ft		ALLOW- ABLE AMPACITY Amps
			Individual wires		Steel	Total	Al	Steel	Total	Al	Steel		20°C DC	75°C AC	
			Al	Steel											
DRAKE	795	26/7	0.1749	0.1360	0.4080	1.108	750	344	1093	68.53	31.47	31.5	0.0214	0.0263	907
TERN	795	45/7	0.1329	0.0886	0.2658	1.063	750	146	895	83.69	16.31	22.1	0.0216	0.0269	887
CONDOR	795	54/7	0.1213	0.1213	0.3639	1.092	750	274	1022	73.25	26.75	28.2	0.0215	0.0272	889
MALLARD	795	30/19	0.1628	0.0977	0.4885	1.140	752	483	1234	60.89	39.11	38.4	0.0213	0.0261	918
RUDDY	900	45/7	0.1414	0.0943	0.2829	1.131	749	166	1013	83.69	16.31	24.4	0.0191	0.0265	958
CANARY	900	54/7	0.1291	0.1291	0.3873	1.162	849	310	1158	73.25	26.75	31.9	0.019	0.0241	961
RALL	954	45/7	0.1456	0.0971	0.2913	1.165	900	175	1074	83.69	16.31	25.9	0.018	0.0225	993
CARDINAL	954	54/7	0.1329	0.1329	0.3987	1.196	900	329	1227	73.25	26.75	33.8	0.0179	0.0228	996
ORTOLAN	1033.5	45/7	0.1515	0.1010	0.3030	1.212	975	190	1163	83.69	16.31	27.7	0.0167	0.0209	1043
CURLEW	1033.5	54/7	0.1383	0.4149	0.4149	1.246	975	356	1329	73.25	26.75	36.6	0.0165	0.0211	1047
BLUEJAY	1113	45/7	0.1573	0.1049	0.3147	1.259	1050	205	1254	83.69	16.31	29.8	0.0155	0.0194	1092
FINCH	1113	54/19	0.1436	0.0862	0.4310	1.293	1055	376	1430	73.75	26.75	39.1	0.0144	0.0197	1093
BUNTING	1192.5	45/7	0.1628	0.1085	0.3255	1.302	1125	219	1342	83.69	16.31	32	0.0144	0.0181	1139
GRACKLE	1192.5	54/19	0.1486	0.0892	0.4460	1.333	1130	403	1531	73.75	26.25	41.9	0.0144	0.0184	1140
BITTERN	1272	45/7	0.1681	0.1121	0.3363	1.345	1200	234	1432	83.69	16.31	34.1	0.0135	0.0171	1184
PHEASANT	1272	54/19	0.1535	0.0921	0.4605	1.382	1206	429	1634	73.75	26.25	34.6	0.0135	0.0173	1187
DIPPER	1351.5	45/7	0.1733	0.1155	0.3465	1.386	1275	247	1521	83.69	16.31	36.2	0.0127	0.0162	1229
MARTIN	1351.5	54/19	0.1582	0.0949	0.4745	1.424	1281	456	1735	73.75	26.25	46.3	0.0127	0.0163	1232
BOBOLINK	1431	45/7	0.1783	0.1189	0.3567	1.427	1350	263	1611	83.69	16.31	38.3	0.0120	0.0153	1272
PLOVER	1431	54/19	0.1628	0.0977	0.4885	1.465	1357	483	1838	73.75	26.25	49.1	0.0120	0.0155	1275
NUTHATCH	1510.5	45/7	0.1832	0.1221	0.3663	1.466	1425	277	1700	83.69	16.31	40	0.0114	0.0146	1313
PARROT	1510.5	54/19	0.1672	0.1003	0.5015	1.505	1432	510	1938	73.75	26.25	51.7	0.0114	0.0147	1318
LAPWING	1590	45/7	0.188	0.1253	0.3759	1.504	1500	292	1790	83.69	16.31	42.2	0.0108	0.0139	1354
FALCON	1590	54/19	0.1716	0.1052	0.5150	1.545	1507	537	2042	73.75	26.25	54.5	0.0108	0.0140	1359
CHUKAR	1780	84/19	0.1456	0.0874	0.4370	1.602	1687	387	2072	81.30	18.70	51	0.0097	0.0125	1453
BLUEBIRD	2156	84/19	0.1602	0.0961	0.4805	1.762	2044	468	2508	81.30	18.70	60.3	0.00801	0.0105	1623
KIWI	2167	72/7	0.1735	0.1157	0.3471	1.735	2054	249	2300	89.20	10.80	49.8	0.00801	0.0106	1607

High Mechanical Strength

CODE	AWG-MCM	STRAND- ING AL/Steel	DIAMETER ins				WEIGHT PER 1000FT lbs			CONTENT %		RATED STRENG- HT lbs	ELECTRICAL RESISTANCE ohms/1000ft		ALLOWABLE AMPACITY Amps
			Individual wires		Steel	Total	Al	Steel	Total	Al	Steel		20°C DC	75°C AC	
			Al	Steel											
GROUSE	80	8/1	0.1000	0.1670	0.1670	0.367	75.1	73.9	149	50.56	49.44	52	0.207	0.294	204
PETREL	101.8	12/7	0.0921	0.0921	0.2763	0.461	158	158	254	37.79	62.21	10.4	0.158	0.250	237
MINORCA	110.8	12/7	0.0961	0.0961	0.2883	0.481	172.1	172.1	276	37.79	62.21	11.3	0.145	0.235	248
LEGHORN	134.6	12/7	0.1059	0.1059	0.3177	0.530	208.9	208.9	336	37.79	62.21	13.6	0.120	0.204	273
GUINEA	159	12/7	0.1151	0.1151	0.3453	0.576	246.8	246.8	396	37.79	62.21	16.0	0.101	0.181	297
DOTTEREL	176.9	12/7	0.1214	0.1254	0.3642	0.607	274.6	274.6	441	37.79	62.21	17.3	0.0911	0.169	312
DORKING	190.8	12/7	0.1261	0.1261	0.3783	0.631	296.3	296.3	476	37.79	62.21	18.7	0.0845	0.160	324
BRAHMA	203.2	16/19	0.1127	0.0977	0.4885	0.714	485	485	675	28.33	71.67	20.7	0.0764	0.155	341
COCHIN	211.3	12/7	0.1327	0.1327	0.3981	0.664	328.2	328.2	527	37.79	62.21	28.4	0.0763	0.150	340

CODE	SECTION mm²			STRANDING No. x mm		OVERALL DIAMETER mm		RATED STRENGTH kN	ELECTRICAL RESISTANCE AT 20°C ohms/km	CONDUCTOR WEIGHT kg/km			CURRENT CARRYING CAPACITY 1) Amps
	Al	Steel	Total	Al	Steel	Core	Total			Al	Steel	Total	
16/2.5	15.3	2.55	17.85	6 x 1.80	1 x 1.80	1.8	5.4	5.95	1.8792	42	20	62	90
25/4	23.8	4	27.8	6 x 2.25	1 x 2.25	2.25	6.8	9.2	1.2027	66	31	97	125
35/6	34.3	5.7	40	6 x 2.70	1 x 2.70	2.7	8.1	12.65	0.8353	95	45	140	145
44/32	44	31.7	75.7	14 x 2.00	7 x 2.40	7.2	11.2	45	0.6566	124	248	372	160
50/8	48.3	8	56.3	6 x 3.20	1 x 3.20	3.2	9.6	17.1	0.5946	133	63	196	170
50/30	51.2	29.8	81	12 x 2.33	7 x 2.33	6.99	11.7	43.8	0.5644	143	235	378	170
70/12	69.9	11.4	81.3	26 x 1.85	7 x 1.44	4.32	11.7	26.8	0.4130	194	90	284	290
95/15	94.4	15.3	109.7	26 x 2.15	7 x 1.67	5.01	13.6	35.75	0.3058	262	121	383	350
95/55	96.5	56.3	152.8	12 x 3.20	7 x 3.20	9.6	16	79.35	0.2992	269	443	712	350
105/75	105.7	75.5	181.5	14 x 3.10	19 x 2.25	11.25	17.5	108.45	0.2733	295	596	891	370
120/20	121.6	19.8	141.4	26 x 2.44	7 x 1.90	5.7	15.5	45.65	0.2374	338	156	494	410
120/70	122	71.3	193.3	12 x 3.60	7 x 3.60	10.80	18.00	100.000	0.2364	341	560	901	410
125/30	127.9	29.8	157.7	30 x 2.33	7 x 2.33	6.99	16.1	57.6	0.2259	356	235	591	425
150/25	148.9	24.2	173.1	26 x 2.70	7 x 2.10	6.31	17.1	55.25	0.1939	414	191	605	470
170/40	171.8	40.1	211.9	30 x 2.70	7 x 2.70	8.1	18.9	76.75	0.1682	479	315	794	520
185/30	183.8	29.8	213.6	26 x 3.00	7 x 2.33	6.99	19	66.2	0.1571	511	235	746	535
210/35	209.1	34.1	243.2	26 x 3.20	7 x 2.49	7.47	20.3	74.9	0.1380	583	267	850	590
210/50	212.1	49.5	261.6	30 x 3.00	7 x 3.00	9	21	93.9	0.1363	593	388	981	610
230/30	230.9	29.8	260.7	24 x 3.50	7 x 2.33	6.99	21	73.1	0.1249	642	235	877	630
240/40	243	39.5	282.5	26 x 3.45	7 x 2.68	8.04	21.9	86.4	0.1188	677	310	987	645
265/35	263.7	34.1	297.8	24 x 3.74	7 x 2.49	7.47	22.4	83.05	0.1117	735	267	1002	680
300/50	304.3	49.5	353.7	26 x 3.86	7 x 3.00	9	24.5	107	0.0949	848	388	1236	740
305/40	304.6	39.5	344.1	54 x 2.68	7 x 2.68	8.04	24.1	99.4	0.0949	850	310	1160	740
340/30	339.3	29.8	369.1	48 x 3.00	7 x 2.33	6.99	25	92.9	0.0853	945	235	1180	790
380/50	382	49.5	431.5	54 x 3.00	7 x 3.00	9	27	123.1	0.0757	1065	388	1453	840
385/35	386	34.1	420.1	48 x 3.20	7 x 2.49	7.47	26.7	104.8	0.0749	1077	267	1344	850
435/55	434.3	56.3	490.6	54 x 3.20	7 x 3.20	9.6	28.8	136.45	0.0666	1210	443	1653	900
450/40	448.7	39.5	488.2	48 x 3.45	7 x 2.68	8.04	28.7	120.75	0.0644	1251	310	1561	920
490/65	490.3	63.6	553.9	54 x 3.40	7 x 3.40	10.2	30.6	153.1	0.5900	1368	498	1866	960
495/35	494.1	34.1	528.2	45 x 3.74	7 x 2.49	7.47	29.9	121.8	0.0585	1381	235	1616	985
510/45	510.2	45.3	555.5	48 x 3.68	7 x 2.87	8.61	30.7	136.65	0.0565	1423	355	1778	995
550/70	550	71.3	621.3	54 x 3.60	7 x 3.60	10.8	32.4	170.6	0.0526	1532	560	2092	1020
560/50	561.7	49.5	611.2	48 x 3.86	7 x 3.00	9.00	32.2	148.95	0.0515	1566	388	1954	1040
570/40	571.2	39.5	610.7	45 x 4.02	7 x 2.68	8.04	32.2	136.2	0.0512	1578	310	1888	1050
650/45	635.5	45.3	698.8	45 x 4.30	7 x 2.87	8.61	34	55.5	0.0458	1816	355	2171	1120
680/85	678.8	86	764.6	54 x 4.00	19 x 2.40	12	36	206.25	0.0426	1890	676	2566	1150
1045/45	1045.6	45.3	1090.9	72 x 4.30	7 x 2.87	8.61	43	217.6	0.0277	2896	355	3251	1580

CODE	SECTION mm ²				STRANDING No. x mm		OVERALL DIAMETER mm		RATED STRENGTH kN	ELECTRICAL RESISTANCE 20°C. ohms/km	CONDUCTOR WEIGHT kg/km		
	Aluminium		Steel	Total	Al	Steel	Core	Total			Al	Steel	Total
	Nominal	Teorical											
GOPHER	25	26.24	4.38	30.62	6 x 2.36	1 x 2.36	2.36	7.08	9.61	1.0930	71	35	106
WEASEL	30	31.61	5.27	36.88	6 x 2.59	1 x 2.59	2.59	7.77	11.45	0.9077	87	41	128
FERRET	40	42.41	7.07	49.48	6 x 3.00	1 x 3.00	3	9	15.2	0.6766	117	55	172
RABBIT	50	52.88	8.82	61.70	6 x 3.35	1 x 3.35	3.35	10.05	18.35	0.5426	145	69	214
HORSE	70	73.37	42.63	116.20	12 x 2.79	7 x 2.79	8.37	13.95	61.2	0.3936	203	335	538
DOG	100	105	13.5	118.50	6 x 4.72	7 x 1.57	4.71	14.15	32.7	0.2733	288	106	394
TIGER	125	131.1	30.6	161.70	30 x 2.36	7 x 2.36	7.08	16.52	58	0.2202	365	237	602
WOLF	150	158.1	36.8	194.90	30 x 2.59	7 x 2.59	7.77	18.13	69.2	0.1828	441	285	726
DINGO	150	158.7	8.8	167.50	18 x 3.35	1 x 3.35	3.35	16.75	35.7	0.1815	437	69	506
LYNX	175	183.4	42.8	226.20	30 x 2.79	7 x 2.79	8.37	19.53	79.8	0.1576	507	335	842
CARACAL	175	184.3	10.2	194.50	18 x 3.61	1 x 3.61	3.61	18.05	41.1	0.1563	507	80	587
PANTHER	200	212.1	49.4	261.50	30 x 3.00	7 x 3.00	9	21	92.25	0.1363	586	388	974
JAGUAR	200	210.6	11.7	222.30	18 x 3.86	1 x 3.86	3.86	19.3	46.55	0.1367	580	91	671
ZEBRA	400	428.9	55.6	484.50	54 x 3.18	7 x 3.18	9.54	28.62	131.9	0.0674	1185	436	1621

UNE 21.018

CODE	SECTION mm ²			STRANDING No. x mm		OVERALL DIAMETER mm		RATED STRENGTH kN	ELECTRICAL RESISTANCE 20°C. ohms/km	CONDUCTOR WEIGHT kg/km		
	Al	Steel	Total	Al	Steel	Core	Total			Al	Steel	Total
LA-30	26.7	4.4	31.1	6 x 2.38	1 x 2.38	2.38	7.14	9.9	1.0749	73.2	37.4	107.9
LA-56	46.8	7.8	54.6	6 x 3.15	1 x 3.15	3.15	9.45	16.4	0.6136	128.3	60.8	189.1
LA-78	67.4	11.2	78.6	6 x 3.78	1 x 3.78	3.78	11.34	23.1	0.4261	185.0	87.0	272.0
LA-110	94.2	22	116.2	30 x 2.00	7 x 2.00	6	14	43.1	0.3066	260.4	172.3	433.0
LA-145	119.3	27.8	147.1	30 x 2.25	7 x 2.25	6.75	15.75	54.1	0.2422	330.0	218.0	548.0
LA-180	147.3	34.3	181.6	30 x 2.50	7 x 2.50	7.50	17.5	63.9	0.1962	407.0	269.0	676.0
LA-280	241.7	39.4	281.1	26 x 3.44	7 x 2.68	8.04	21.8	84.5	0.1194	667.0	310.0	977.0
LA-380	337.3	43.7	381	54 x 2.82	7 x 2.82	8.46	25.38	106.5	0.0857	932.0	343.0	1275.0
LA-455	402.3	52.2	454.5	54 x 3.08	7 x 3.08	9.24	27.72	124	0.0718	1112.0	409.0	1521.0
LA-545	484.5	62.8	547.3	54 x 3.38	7 x 3.38	10.14	30.42	148.5	0.0596	1340.0	492.0	1832.0
LA-635	565	71.6	636.6	54 x 3.65	19 x 2.19	10.95	32.85	175	0.0511	1562.0	563.0	2125.0
RAIL	483.8	33.5	517.3	45 x 3.70	7 x 2.47	7.41	29.61	115.25	0.0594	1339.0	260.0	1599.0

NF-C 34120

CODE	SECTION mm²			STRANDING No. x mm		OVERALL DIAMETER mm		TENSILE S. STEEL HBAR.	RATED STRENGTH kN	ELECTRICAL RESISTANCE 20°C. ohms/km	CONDUCTOR WEIGHT kg/km			GREASE WEIGHT g/m	
	Al	Steel	Total	Al	Steel	Core	Total				Al	Steel	Total	Outside layer greased	Outside layer ungreased
CANNA 37.7	28.27	9.42	37.69	9 x 2.00	3 x 2.00	-	8.30	117.60	1.625	1.020	80	155	75	6	2
CANNA 59.7	37.7	21.99	59.69	12 x 2.00	7 x 2.00	6	10	117.60	3.27	0.766	103	276	173	7	3
CANNA 75.5	47.71	27.83	75.54	12 x 2.25	7 x 2.25	6.75	11.25	117.60	4.115	0.605	128	349	220	10	4
CANNA 116.2	94.25	21.99	116.24	30 x 2.00	7 x 2.00	6	14	117.60	4.315	0.306	258	432	174	13	7
CROCUS 116.12	94.25	21.99	116.24	30 x 2.00	7 x 2.00	6	14	156.80	4.93	0.306	258	432	174	13	7
CANNA 147.1	119.28	27.83	147.11	30 x 2.25	7 x 2.25	6.75	15.75	117.60	5.4	0.243	327	547	220	18	10
CROCUS 147.1	119.28	27.83	147.11	30 x 2.25	7 x 2.25	6.75	15.75	156.80	6.18	0.243	327	547	220	18	10
CANNA 181.6	147.26	34.36	181.62	30 x 2.50	7 x 2.50	7.5	17.5	117.60	6.49	0.197	403	675	272	22	12
CROCUS 181.6	147.26	34.36	181.62	30 x 2.50	7 x 2.50	7.5	17.5	156.80	7.42	0.197	403	675	272	22	12
CANNA 228	184.72	43.1	227.82	30 x 2.80	7 x 2.80	8.4	19.6	117.60	8.05	0.157	506	848	342	26	15
CROCUS 228	184.72	43.1	227.82	30 x 2.80	7 x 2.80	8.4	19.6	156.80	9.21	0.157	506	848	342	26	15
CANNA 288	233.8	54.55	288.35	30 x 3.15	7 x 3.15	9.45	22.05	117.60	9.85	0.124	642	1074	432	33	18
CROCUS 288	233.8	54.55	288.35	30 x 3.15	7 x 3.15	9.45	22.05	156.80	11.38	0.124	642	1074	432	33	18
CROCUS 297	221.67	75.54	297.21	36 x 2.80	19 x 2.25	11.25	22.45	156.8	17.72	0.1305	594	624	1218	35	20
CROCUS 412	325.72	85.95	411.67	32 x 3.60	19 x 2.40	12	26.4	156.8	17.33	0.0898	676	917	1593	50	25
CROCUS 612	507.83	104.7	611.76	66 x 3.13	19 x 2.65	13.25	32.2	156.8	23.15	0.0566	824	1417	2241	70	40
CROCUS 865	717.33	148.06	865.39	66 x 3.72	19 x 3.15	15.75	38.1	156.8	31.9	0.0405	1164	2010	3174	100	55
CROCUS 1185	956.666	227.82	1184.48	54 x 2.8	37 x 2.80 66 x 3.47	19.7	44.7	156.8	48.05	0.0303	1796	2682	4478	140	100



Basic Technical Data of Stranded Conductors
Moduli of Elasticity and Coefficients of Linear Expansion for Constructions of Aluminium Conductors
Steel-Reinforced to IEC Publ. No. 209

NO. OF WIRES		FINAL MODULUS OF ELASTICITY		COEFFICIENT OF LINEAR EXPANSION	
AL.	St	kg/mm ²	lb/in ²	1/C°	1/F°
6	1	81	11.5 x 106	19.1 x 10-6	10.6 x 10-6
6	7	77	11.0 x 106	19.8 x 10-6	11.0 x 10-6
12	7	107	15.2 x 106	15.3 x 10-6	8.5 x 10-6
18	1	67	9.5 x 106	21.2 x 10-6	11.8 x 10-6
24	7	74	10.5 x 106	19.6 x 10-6	10.9 x 10-6
26	7	77	10.9 x 106	18.9 x 10-6	10.5 x 10-6
28	7	79	11.2 x 106	18.4 x 10-6	10.2 x 10-6
30	7	82	11.6 x 106	17.8 x 10-6	9.9 x 10-6
30	19	80	11.4 x 106	18.0 x 10-6	10.0 x 10-6
32	19	82	11.7 x 106	17.5 x 10-6	9.7 x 10-6
54	7	70	9.9 x 106	19.3 x 10-6	10.7 x 10-6
54	19	68	9.7 x 106	19.4 x 10-6	10.8 x 10-6

Density at 20°C
Aluminium: 2.703 kg/dm
Galvanised Steel: 7.80 kg/dm
Temperature Coefficient of 20° C
Aluminium: 0.00403 (° C)
Resistivity at 20° C
Aluminium: Should not exceed 0.028264
Linear Expansivity
Aluminium: 23 x 10 (° C)
Galvanised Steel: 11.5 x 10 (1/° C)

SPECIFICATIONS

NO. OF WIRES		FINAL MODULUS OF ELASTICITY	COEFFICIENT OF LINEAR EXPANSION
AL.	St	N/mm ²	1°C
6	1	81	19.1 x 10-6
6	7	77	19.8 x 10-6
12	7	107	15.3 x 10-6
18	1	67	21.2 x 10-6
24	7	74	19.6 x 10-6
26	7	77	18.9 x 10-6
28	7	79	18.4 x 10-6
30	7	82	17.8 x 10-6
30	19	80	18.0 x 10-6
32	19	82	17.5 x 10-6
54	7	70	19.3 x 10-6
54	19	68	19.4 x 10-6

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

Aerial Bundle Cable (ABC)

Overhead cable

CJDL Cable



APPLICATION

For low power distribution overhead networks in metropolitan, urban and rural areas. For supply of remote facilities and villages of temporary and permanent character. For above-ground house connections.

STANDARDS

BS 7870-5, HD 626 S1, EN 60228,

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1 kV
Test Voltage
4 kV
Temperature Rating
Minimum temperature for cable laying: -5° C
Maximum working temperature: 75° C
Maximum short-circuit temperature: 250° C
Minimum Bending Radius
12 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Phase Conductor
Class 2 stranded Aluminium
Neutral Conductor
Class 2 stranded Aluminium
Insulation
XLPE (Cross-linked polyethylene) compound TIX 2
Insulation Colour
Black
Core Identification
Phases by longitudinal ribs (I, II, III)
neutral core by longitudinal ribs (≤ 50 mm² min.12 ribs; ≥ 50 mm² min.16 ribs)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.



DIMENSIONS

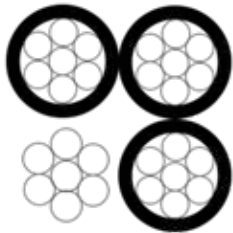
NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	MAX DIAMETER PHASE CONDUCTOR (EXC. RIBS) mm	MAX DIAMETER NEUTRAL CORE (INC. RIBS) mm	NOMINAL WEIGHT kg/km
2	25	1.3	9.7	10.2	200
2	35	1.3	10.7	11.2	266
2	50	1.5	12.1	12.6	374
2	70	1.5	13.8	14.3	506
2	95	1.7	16.1	16.6	681
2	120	1.7	17.6	18.1	816
3	25	1.3	9.7	10.2	318
3	35	1.3	10.7	11.2	414
3	50	1.5	12.1	12.6	545
3	70	1.5	13.8	14.3	756
3	95	1.7	16.1	16.6	999
3	120	1.7	17.6	18.1	1224
5	25	1.3	9.7	10.2	530
5	35	1.3	10.7	11.2	690
5	50	1.5	12.1	12.6	910
5	70	1.5	13.8	14.3	1260
5	95	1.7	16.1	16.6	1665
5	120	1.7	17.6	18.1	2040

NOMINAL CROSS SECTIONAL AREA mm ²	MAX DC RESISTANCE OF CONDUCTOR IN BUNDLE AT 20°C ohms/km	CURRENT CARRYING CAPACITY IN FREE AIR Amps	MINIMUM TENSILE STRENGTH OF CONDUCTOR kN
25	1.20	107	4.1
35	0.868	132	5.6
50	0.641	165	7.6
70	0.443	205	11.0
95	0.320	258	15.3
120	0.253	300	19.4

Overhead cable

CJDL Cable

LV AS/NZS 3560 P1
Aerial Bundle Cable (ABC) 1kV



➤ APPLICATION

Aerial Bundle Cable (ABC) is a low-voltage cable for overhead power distribution, offering a higher level of safety, greater reliability, and lower power losses than bare conductors.

➤ STANDARDS

AS/NZS 3560 Part 1

➤ CHARACTERISTICS

Voltage Rating
0.6/1 kV
Test Voltage
4 kV
Operating Temperature
de -40 ° C to +90 ° C
Minimum Bending Radius
18 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Phase Conductor
Class 2 Circular compacted stranded Aluminium
Neutral Conductor
Class 2 Circular compacted stranded Aluminium
Insulation
XLPE (Cross-linked polyethylene) UV Resistant
Core Identification
Phases by longitudinal ribs (I, II, III)
Neutral core by longitudinal ribs (≤ 50 mm² min.12 ribs; ≥ 50 mm² min.16 ribs)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

NUMBER CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BREAKING LOAD kN	MAXIMUM CONDUCTOR RESISTANCE Ω/km	CURRENT RATING A
2	16	15.0	140	4.4	1.910	78
2	25	17.6	210	7.0	1.200	105
2	35	19.6	270	9.8	0.868	125
2	50	22.8	370	11.4	0.641	150
2	95	30.6	680	15.3	0.320	230
3	25	19.0	310	8.8	1.200	97
3	35	21.1	410	9.8	0.868	120
3	50	24.6	550	11.4	0.641	140
4	16	18.1	290	8.8	1.910	74
4	25	21.2	410	14.0	1.200	97
4	35	23.7	550	19.6	0.868	120
4	50	27.5	740	28.0	0.641	140
4	70	31.9	1000	39.2	0.443	175
4	95	36.9	1370	53.2	0.320	215
4	120	40.6	1690	67.2	0.253	250
4	150	43.9	2020	84.0	0.206	280

LV BS7870

Aerial Bundle Cable (ABC) 1kV



APPLICATION

Aerial Bundle Cable (ABC) low voltage cable for overhead power distribution offering a higher level of safety and reliability and lower power losses than bare conductors.

STANDARDS

BS 7870

CHARACTERISTICS

- Voltage Rating**
0.6/1 kV
- Test Voltage**
4 kV
- Operating Temperature**
-40° C to +90° C
- Minimum Bending Radius**
18 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

- Phase Conductor**
Class 2 Circular compacted stranded Aluminium
- Neutral Conductor**
Class 2 Circular compacted stranded Aluminium
- Insulation**
XLPE (Cross-linked polyethylene) UV Resistant
- Core Identification**
Phases by longitudinal ribs (I, II, III)
Neutral core by longitudinal ribs (≤ 50 mm² min.12 ribs; ≥ 50mm² min.16 ribs)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

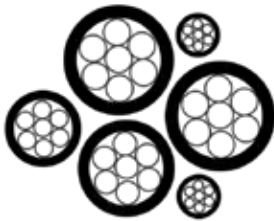
DIMENSIONS

NUMBER CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT KG/KM	MINIMUM BREAKING LOAD KN	MAXIMUM CONDUCTOR RESISTANCE Ω/Km	CURRENT RATING A
1	16	8.0	74	2.5	1.910	72
1	25	9.0	106	4.0	1.200	107
1	35	10.5	138	5.5	0.868	132
1	50	11.8	182	8.0	0.641	165
1	70	13.0	252	10.7	0.443	205
1	95	15.4	333	13.7	0.320	240
1	120	17.0	408	18.6	0.253	290
1	150	19.0	502	23.2	0.206	334
1	185	21.0	611	28.7	0.164	389
1	240	24.0	801	37.2	0.125	467
2	16	15.6	147	2.5	1.910	72
2	25	18.0	208	4.0	1.200	107
2	35	20.0	277	5.5	0.868	132
2	50	23.5	361	8.0	0.641	165
2	70	25.4	505	10.7	0.443	205
2	95	30.3	666	13.7	0.320	240
2	150	38.0	1004	23.2	0.206	334
4	16	18.8	286	2.5	1.910	72
4	25	21.2	430	4.0	1.200	107
4	35	24.1	553	5.5	0.868	132
4	50	27.8	746	8.0	0.641	165
4	70	31.8	1009	10.7	0.443	205
4	95	37.8	1332	13.7	0.320	240
4	120	54.4	1632	18.6	0.253	290
4+1	50+25	319	814	8.0/4.0	0.641/1.200	165/107
4+1	50+35	319	845	8.5/5.5	0.641/0.868	165/132
4+1	70+25	360	1105	10.7/4.0	0.443/1.200	205/107
4+2	70+25+25	400	1217	10.7/4.0	0.443/1.200	205/107
4+1	95+25	418	1438	13.7/4.0	0.320/1.200	240/107
4+2	95+25+25	420	1544	13.7/4.0	0.320/1.200	240/107
4+1	120+25	590	2050	18.6/4.0	0.253/1.200	290/107

LV HD 626 S1
Aerial Bundle Cable (ABC) 1kV

Overhead cable

CJDL Cable



➤ APPLICATION

Aerial Bundle Cable (ABC) low voltage cable for overhead power distribution offering higher level of safety and reliability and lower power losses than bare conductors.

➤ STANDARDS

HD 626 S1

➤ CHARACTERISTICS

Voltage Rating
0.6/1 kV
Test Voltage
4 kV
Operating Temperature
-40° C to +90° C
Minimum Bending Radius
18 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Phase Conductor
Class 2 Circular compacted stranded Aluminium
Neutral Conductor
Class 2 Circular compacted stranded Aluminium
Insulation
XLPE (Cross-linked polyethylene) UV Resistant
Core Identification
Phases by longitudinal ribs (I, II, III)
Neutral core by longitudinal ribs (≤ 50 mm² min.12 ribs; ≥ 50mm² min.16 ribs)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

NUMBER CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT KG/KM	MINIMUM BREAKING LOAD KN	MAXIMUM CONDUCTOR RESISTANCE Ω/Km	CURRENT RATING A
2	16	72	147	1.910	1.910	2.5
2	25	107	208	1.200	1.200	4.0
2	35	132	277	0.868	0.868	5.5
2	50	165	361	0.641	0.641	8.0
4	16	72	286	1.910	1.910	2.5
4	25	107	430	1.200	1.200	4.0
4	35	132	553	0.868	0.868	5.5
4	50	165	746	0.641	0.641	8.0
4	70	205	1009	0.443	0.443	10.7
4	95	240	1332	0.320	0.320	13.7
4	120	290	1632	0.253	0.253	18.6
4+1	35/35	132/132	694	0.868/0.868	0.868/0.868	5.5/5.5
4+1	50/25	165/107	814	0.641/1.200	0.641/1.200	8.0/4.0
4+1	50/35	165/132	845	0.641/0.868	0.641/0.868	8.5/5.5
4+1	70/25	205/107	1105	0.443/1.200	0.443/1.200	10.7/4.0
4+2	70/25/25	205/107	1217	0.443/1.200	0.443/1.200	10.7/4.0
4+2	70/35	205/132	1150	0.443/0.868	0.443/0.868	10.7/5.5
4+2	70/35/35	205/132	1289	0.443/0.868	0.443/0.868	10.7/5.5
4+1	95/25	240/107	1438	0.320/1.200	0.320/1.200	13.7/4.0
4+1	95/35	240/132	1467	0.320/0.868	0.320/0.868	13.7/5.5
4+2	95/25/25	240/107	1544	0.320/1.200	0.320/1.200	13.7/4.0

LV NF C33–209 Aerial Bundle Cable (ABC) 1kV



APPLICATION

Aerial Bundle Cable (ABC) low voltage cable for overhead power distribution offering higher level of safety and reliability and lower power losses than bare conductors.

STANDARDS

NF C33-209

CHARACTERISTICS

- Voltage Rating**
0.6/1 kV
- Test Voltage**
4 kV
- Operating Temperature**
-40° C to +90° C
- Minimum Bending Radius**
18 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

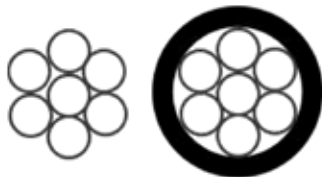
- Phase Conductor**
Class 2 Circular compacted stranded Aluminium
- Neutral Conductor**
Class 2 Circular compacted stranded Aluminium
- Insulation**
XLPE (Cross-linked polyethylene) UV Resistant
- Core Identification**
Phases by longitudinal ribs (I, II, III)
Neutral core by longitudinal ribs (≤ 50 mm² min.12 ribs; ≥ 50 mm² min.16 ribs)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

NUMBER CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT KG/KM	MINIMUM BREAKING LOAD KN	MAXIMUM CONDUCTOR RESISTANCE Ω/Km	CURRENT RATING A
2	10	12.8	93	1.5	3.080	38
2	16	14.8	129	2.3	1.910	72
2+2	16/1.5	14.8	176	2.3	1.910/12.100	72
2	25	18.0	202	3.8	1.200	107
2+2	25/1.5	18.0	249	3.8	1.200/12.100	107
2	35	20.8	269	5.2	0.868	132
2+2	35/1.5	20.8	316	5.2	0.868/12.100	132
2	50	23.4	352	7.6	0.641	165
2+2	50/1.5	23.4	399	7.6	0.641/12.100	165
4	10	15.4	183	1.5	3.080	38
4	16	17.8	257	2.3	1.910	72
4+2	16/1.5	17.8	304	2.3	1.910/12.100	72
4	25	21.7	404	3.8	1.200	107
4+2	25/1.5	21.7	451	3.8	1.200/12.100	107
4	35	25.1	539	5.2	0.868	132
4+2	35/1.5	25.1	586	5.2	0.868/12.100	132
1+3	54.6/25	21.7	507	3.8	0.630/1.200	107
1+3+1	54.6/25/16	24.3	573	3.8/2.3	0.630/1.200/1.910	107/72
1+3+2	54.6/25/16	29.7	639	3.8/2.3	0.630/1.200/1.910	107/72
1+3+3	54.6/25/16	31.1	705	3.8/2.3	0.630/1.200/1.910	107/72
1+3	54.6/35	25.1	615	5.2	0.630/0.868	132
1+3+1	54.6/35/16	28.1	680	5.2/2.3	0.630/0.868/1.910	132/72
1+3+2	54.6/35/16	34.3	748	5.2/2.3	0.630/0.868/1.910	132/72
1+3+3	54.6/35/16	35.9	814	5.2/2.3	0.630/0.868/1.910	132/72
1+3+1	54.6/35/25	28.1	714	5.2/3.8	0.630/0.868/1.200	132/107
1+3	54.6/50	28.2	741	7.6	0.630/0.641	165
1+3+1	54.6/35/25	31.6	806	7.6/2.3	0.630/0.641/1.910	165/72
1+3+2	54.6/35/25	38.6	875	7.6/2.3	0.630/0.641/1.910	165/72
1+3+3	54.6/35/25	40.4	940	7.6/2.3	0.630/0.641/1.910	165/72
1+3+1	54.6/50/25	31.6	841	7.6/3.8	0.630/0.641/1.200	165/107
1+3	54.6/70	33.0	950	10.2	0.630/0.443	205
1+3+1	54.6/70/16	37.0	1014	10.2/2.3	0.630/0.443/1.910	205/72
1+3+2	54.6/70/16	45.2	1083	10.2/2.3	0.630/0.443/1.910	205/72
1+3+3	54.6/70/16	47.3	1148	10.2/2.3	0.630/0.443/1.910	205/72
1+3+1	54.6/70/25	37.0	1048	10.2/3.8	0.630/0.443/1.200	205/107
1+3+2	54.6/70/25	45.2	1150	10.2/3.8	0.630/0.443/1.200	205/107
1+3+3	54.6/70/25	47.3	1250	10.2/3.8	0.630/0.443/1.200	205/107
1+3	54.6/95	37.4	1176	13.5	0.630/0.320	240
1+3+1	54.6/95/16	41.9	1243	13.5/2.3	0.630/0.320/1.910	240/72

LV TNB IEC 60502–1
Aerial Bundle Cable (ABC) 1kV



➤ APPLICATION

Aerial Bundle Cable (ABC) low voltage cable for overhead power distribution offering higher level of safety and reliability and lower power losses than bare conductors.

➤ STANDARDS

TNB Specification (IEC 60502-1)

➤ CHARACTERISTICS

- Voltage Rating**
0.6/1 kV
- Test Voltage**
4 kV
- Operating Temperature**
-40° C to +90° C
- Minimum Bending Radius**
18 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

- Phase Conductor**
Class 2 Circular compacted stranded Aluminium
- Neutral Conductor**
Class 2 Circular compacted stranded Aluminium
- Insulation**
XLPE (Cross-linked polyethylene) UV Resistant
- Core Identification**
Phases by longitudinal ribs (I, II, III)
Neutral core by longitudinal ribs (≤ 50 mm² min.12 ribs; ≥ 50 mm² min.16 ribs)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

NUMBER CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT KG/KM	MINIMUM BREAKING LOAD KN	MAXIMUM CONDUCTOR RESISTANCE Ω/Km	CURRENT RATING A
3+1	16/25	19.0	290	4.0	1.200	107
3+1	25/25	23.2	400	5.5	0.868	132
3+1	35/25	25.6	500	8.0	0.641	165
3+1	50/35	30.0	680	10.7	0.443	205
3+1	70/50	34.9	920	13.7	0.320	240
3+1	95/70	40.6	1270	18.6	0.253	290
3+1	120/95	44.1	1510	23.2	0.206	334
3+1	150/120	49.2	1870	28.7	0.164	389
3+1	185/120	54.9	2340	37.2	0.125	467
3+2	25/25/16	23.2	470	2.5	1.910	72
3+2	35/25/16	25.6	560	4.0	1.200	107
3+2	50/35/16	30.0	740	5.5	0.868	132
3+2	70/50/16	34.9	980	8.0	0.641	165
3+2	95/70/16	40.6	1330	10.7	0.443	205
3+2	120/70/16	44.1	1580	13.7	0.320	240
3+2	150/95/16	49.2	1940	23.2	0.206	334
3+2	185/120/16	54.9	2410	2.5	1.910	72

318-B LSZH / H05Z1Z1-F EN 50525-3-11 Flexible Cable



APPLICATION

Used as an indoor general wiring cable primarily for installations in public areas. Examples include use on pendant lighting drops or as a general supply lead within hospital or airport projects. For installation where fire, smoke emission and toxic fumes create a potential risk to life and equipment.

STANDARDS

EN 50525-3-11 (HD21.14), EN 60228
Flame Retardant according to IEC/EN 60332-1-2

CHARACTERISTICS

Voltage Rating (Uo/U)

300/500 V

Temperature Rating

+5° C to +70° C

Minimum Bending Radius

5 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Conductor

Class 5 flexible copper conductor

Insulation

LSZH (Low Smoke Zero Halogen) Type TI6

Sheath

LSZH (Low Smoke Zero Halogen) Type TM7

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.

To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.



DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
2	0.75	0.6	6.3	57
2	1	0.6	6.6	65
2	1.5	0.7	7.4	84
2	2.5	0.8	9	130
2	4	0.8	10.4	180
3	0.75	0.6	6.7	68
3	1	0.6	7	78
3	1.5	0.7	8	107
3	2.5	0.8	9.9	163
3	4	0.8	11.1	212
4	0.75	0.6	7.3	83
4	1	0.6	7.9	100
4	1.5	0.7	9	134
4	2.5	0.8	10.8	201
4	4	0.8	12.2	290
5	0.75	0.6	8.1	103
5	1	0.6	8.3	130
5	1.5	0.7	10.4	170
5	2.5	0.8	12.1	255
5	4	0.8	15	360

COLOUR CODES

COLOUR	White	Black
CODE	WH	BK

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
		Plain Wires
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95



ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY Amps		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (See regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
	Single-Phase AC	Three-Phase AC	
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

The above table is in accordance with EN 60228

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.75	62	54
1	46	40
1.5	32	27
2.5	19	16
4	12	10

Conductor operating temperature: 60°C*

* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

90°C thermoplastic or thermosetting insulation : 1.09

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

DE-RATING FACTORS

60°C Thermoplastic or Thermosetting Insulated Cords

AMBIENT TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

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

318-Y / H05VV-F EN 50525-2-11

Flexible Cable

Cable Flexible

CJDL Cable



APPLICATION

Ordinary duty PVC cable for use in domestic appliances, kitchens and offices. For use with light portable appliances such as table lamps and office equipment. Generally unsuitable for outdoor use or industrial applications.

STANDARDS

EN 50525-2-11, EN 60228
Flame Retardant according to IEC/EN 60332-1-2

CHARACTERISTICS

- Voltage Rating** (Uo/U)
300/500 V
- Temperature Rating**
Flexed: +5° C to +70° C
- Minimum Bending Radius**
Flexed: 8 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

- Conductor**
Class 5 flexible copper conductor
- Insulation**
PVC (Polyvinyl Chloride)
- Sheath**
PVC (Polyvinyl Chloride)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.
To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

CABLE THIRD-PARTY ACCREDITATION

- We supply BASEC approved products**
Cables are tested and certified by BASEC, The British Approvals Service for Cables

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
2	0.75	0.6	6.3	57
2	1	0.6	6.6	65
2	1.5	0.7	7.4	84
2	2.5	0.8	9.1	130
3	0.75	0.6	6.7	68
3	1	0.6	7	78
3	1.5	0.7	8.1	108
3	2.5	0.8	9.9	163
3	4	0.8	11.3	227
4	0.75	0.6	7.3	82
4	1	0.6	7.9	100
4	1.5	0.7	9	134
4	2.5	0.8	10.8	201
5	0.75	0.6	8.1	102
5	1	0.6	8.6	120
5	1.5	0.7	10	166

COLOUR CODES

COLOUR	White	Black
CODE	WH	BK

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
		Plain Wires
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY Amps		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (See regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
	Single-Phase AC	Three-Phase AC	
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.75	62	54
1	46	40
1.5	32	27
2.5	19	16
4	12	10

Conductor operating temperature: 60°C*

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

AIR TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

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

2491B / 6701B – H05Z-K / H07Z-K
EN 50525–3–41 Cable

Cable Flexible

CJDL Cable



➤ APPLICATION

LSZH panel wiring for appliances with maximum operating temperatures of 90° C, and generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gases when burnt which is particularly important where electronic equipment is installed.

➤ STANDARDS

EN 50525-3-41, EN 60228, Flame Retardant according to IEC/EN 60332-1 -2, IEC/EN 60332-3-24 Halogen Free according to IEC/EN 61034-1/2, IEC/EN 60754-1/2

➤ CHARACTERISTICS

- Voltage Rating** (Uo/U)
H05Z-K - 0.5mm² to 1mm²: 300/500V
H07Z-K - 1.5mm² to 240mm²: 450/750V
- Temperature Rating**
-25° C to +90° C
- Minimum Bending Radius**
Up to 35mm2: 4 x overall diameter
50mm2 and above: 6 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

- Conductor**
Class 5 flexible copper conductor
- Insulation**
LSZH (Low Smoke Zero Halogen)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

➤ CABLE THIRD-PARTY ACCREDITATION

- We supply BASEC approved products**
Cables are tested and certified by BASEC, The British Approvals Service for Cables



DIMENSIONS

NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm		MINIMUM RESISTANCE OF INSULATION AT 90° C Mohms/km	NOMINAL WEIGHT kg/km
		Lower Limit	Upper Limit		
0.5	0.6	2.1	2.6	0.015	8.7
0.75	0.6	2.2	2.8	0.011	11.3
1	0.6	2.4	2.9	0.01	13.9
1.5	0.7	2.8	3.5	0.010	19.3
2.5	0.8	3.4	4.3	0.009	30.9
4	0.8	3.9	4.9	0.007	44.9
6	0.8	4.4	5.5	0.006	64.2
10	1	5.7	7.1	0.0056	108.2
16	1	6.7	8.4	0.0046	163.4
25	1.2	8.4	10.6	0.0044	248.1
35	1.2	9.7	12.1	0.0038	340.6
50	1.4	11.5	14.4	0.0037	484.2
70	1.4	13.2	16.6	0.0032	671
95	1.6	15.1	18.8	0.0032	895.8
120	1.6	16.7	20.9	0.0029	1111.1
150	1.8	18.6	23.3	0.0029	1389.2
185	2	20.6	25.8	0.0029	1724.1
240	2.2	23.5	29.4	0.0028	2225.4

COLOUR CODES

COLOUR	Black	Blue	Grey	Green/Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	BL	GR	GY	OR	RD	PK	YW	VI	BR	WH

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
		Plain Wires
0.5	0.21	39
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
6	0.31	3.3
10	0.41	1.91
16	0.41	1.21
25	0.41	0.78
35	0.41	0.554
50	0.41	0.386
70	0.51	0.272
95	0.51	0.206
120	0.51	0.161



NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
		Plain Wires
150	0.51	0.129
185	0.51	0.106
240	0.51	0.0801

The above table is in accordance with EN 60228

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD A (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL ETC) Amps		REFERENCE METHOD B (ENCLOSED IN CONDUIT ON A WALL OR IN A TRUNKING ETC) Amps		REFERENCE METHOD C (CLIPPED DIRECT) Amps		REFERENCE METHOD F (IN FREE AIR OR ON A PERFORATED CABLE TRAY ETC HORIZONTAL OR VERTICAL ETC) TOUCHING Amps			REFERENCE METHOD G (IN FREE AIR) SPACED BY ONE CABLE DIAMETER Amps	
	2 Cables Single- Phase AC or DC	3 or 4 Cables Three- Phase AC	2 Cables Single- Phase AC or DC	3 or 4 Cables Three- Phase AC	2 Cables Single- Phase AC or DC flat or touching	3 or 4 Cables Three- Phase AC flat and touching or trefoil	2 Cables Single- Phase AC or DC flat	3 Cables Three- Phase AC flat	3 Cables Three- Phase AC trefoil	Horizontal	Vertical
1	14	13	17	15	19	17.5	-	-	-	-	-
1.5	19	17	23	20	25	23	-	-	-	-	-
2.5	26	23	31	28	34	31	-	-	-	-	-
4	35	31	42	37	46	41	-	-	-	-	-
6	45	40	54	48	59	54	-	-	-	-	-
10	61	54	75	66	81	74	-	-	-	-	-
16	81	73	100	88	109	99	-	-	-	-	-
25	106	95	133	117	143	130	161	141	135	182	161
35	131	117	164	144	176	161	200	176	169	226	201
50	158	141	198	175	228	209	242	216	207	275	246
70	200	179	253	222	293	268	310	279	268	353	318
95	241	216	306	269	355	326	377	342	328	430	389
120	278	249	354	312	413	379	437	400	383	500	454
150	318	285	393	342	476	436	504	464	444	577	527
185	362	324	449	384	545	500	575	533	510	661	605
240	424	380	528	450	644	590	679	634	607	781	719

Ambient temperature: 30°C
Conductor operating temperature: 90°C

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see also Regulation 512.1.2).
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D1A) must be used (see Regulation 523.1).

The above table is in accordance with Table 4E1A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm²	2 CABLES DC mV/A/ m	2 CABLES SINGLE-PHASE AC mV/A/m									3 OR 4 CABLES THREE-PHASE AC mV/A/m											
		Reference Methods A and B (enclosed in conduit or trunking)	Reference Methods C, F and G (clipped direct, on tray or in free air)						Reference Methods A and B (enclosed in conduit or trunking)	Reference Methods C, F and G (clipped direct, on tray or in free air)												
			Cable Touching			Cable Spaced				Cable Touching Trefoil			Cable Touching Flat			Cable Spaced* Flat						
1	46	46	46			46			46			40	40			40			40			
1.5	31	31	31			31			31			27	27			27			27			
2.5	19	19	19			19			19			16	16			16			16			
4	12	12	12			12			12			10	10			10			10			
6	7.9	7.9	7.9			7.9			7.9			6.8	6.8			6.8			6.8			
10	4.7	4.7	4.7			4.7			4.7			4	4			4			4			
16	2.9	2.9	2.9			2.9			2.9			2.5	2.5			2.5			2.5			
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
25	1.85	1.850	0.310	1.900	1.850	0.190	1.85	1.850	0.280	1.850	1.600	0.270	1.650	1.600	0.165	1.600	1.600	0.190	1.600	1.600	0.270	1.650
35	1.35	1.350	0.290	1.350	1.350	0.180	1.35	1.350	0.270	1.350	1.150	0.250	1.150	1.150	0.155	1.150	1.150	0.180	1.150	1.150	0.260	1.200
50	0.99	1.000	0.290	1.050	0.990	0.180	1.000	0.990	0.270	1.000	0.870	0.250	0.900	0.860	0.155	0.870	0.860	0.180	0.870	0.860	0.260	0.890
70	0.68	0.700	0.280	0.750	0.680	0.175	0.710	0.680	0.260	0.730	0.600	0.240	0.650	0.590	0.150	0.610	0.590	0.175	0.620	0.590	0.250	0.650
95	0.49	0.510	0.270	0.580	0.490	0.170	0.520	0.490	0.260	0.560	0.440	0.230	0.500	0.430	0.145	0.450	0.430	0.170	0.460	0.430	0.250	0.490
120	0.39	0.410	0.260	0.480	0.390	0.165	0.430	0.390	0.250	0.470	0.350	0.230	0.420	0.340	0.140	0.370	0.340	0.165	0.380	0.340	0.240	0.420

Conductor operating temperature: 90°C
r = Resistive Component
x = Reactive Component
z = Impedance Value

* Spacings larger than one cable diameter will result in a larger voltage drop.

The above table is in accordance with Table 4E1B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

For cables having conductors of 16mm2 or less cross-sectional area their inductances can be ignored and (mV/A/m)r values only are tabulated. For cables having conductors greater than 16mm2, cross-sectional area the impedance values are given as (mV/A/m)z, together with the resistive component (mV/A/m)r and the reactive component (mV/A/m)x.

The above paragraph is extracted from Appendix 4 of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

DE-RATING FACTORS

AMBIENT TEMPERATURE	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	85°C	90°C	95°C
DE-RATING FACTOR	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	-	-	-

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

2491X / H05V-K / H07V-K
EN 50525-2-31 Flexible Cable



APPLICATION

PVC panel wiring for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.

STANDARDS

EN 50525-2-31, EN 60228
Flame Retardant according to IEC/EN 60332-1-2
UV Resistant

CHARACTERISTICS

Voltage Rating (Uo/U)

H05V-K: 300/500 V
H07V-K: 450/750 V

Temperature Rating

Fixed: -30° C to +70° C
Flexed: -5° C to +70° C

Minimum Bending Radius

Fixed: 6 x overall diameter

CONSTRUCTION

Conductor

Class 5 flexible copper conductor

Insulation

PVC (Polyvinyl Chloride)

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

CABLE THIRD-PARTY ACCREDITATION

We supply BASEC approved products

Cables are tested and certified by BASEC, The British Approvals Service for Cables

DIMENSIONS

H05V-K

NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
0.5	2.20	9.1
0.75	2.40	11.7
1	2.55	14.4

H07V-K

NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1.5	3.00	20.1
2.5	3.65	31.5
4	4.20	46.2
6	4.80	65.1
10	6.25	109.4
16	7.40	165.2
25	9.40	253.4
35	10.40	345.5
50	12.55	492.4
70	14.10	669.3
95	17.20	910.4
120	17.70	1129.4
150	19.60	1401.0
185	23.00	1741.0
240	26.40	2267.5

COLOUR CODES

COLOUR	Black	Blue	Grey	Green/Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	BL	GR	GY	OR	RD	PK	YW	VI	BR	WH

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
0.5	0.21	39
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
6	0.31	3.3
10	0.41	1.91
16	0.41	1.21
25	0.41	0.78
35	0.41	0.554
50	0.41	0.386
70	0.51	0.272

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
95	0.51	0.206
120	0.51	0.161
150	0.51	0.129
185	0.51	0.106
240	0.51	0.0801

The above table is in accordance with EN 60228

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD A (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL ETC) Amps		REFERENCE METHOD B (ENCLOSED IN CONDUIT IN WALL OR IN TRUNKING ETC) Amps		REFERENCE METHOD C (CLIPPED DIRECT) Amps		REFERENCE METHOD F (IN FREE AIR OR ON A PERFORATED CABLE TRAY ETC HORIZONTAL OR VERTICAL ETC) Amps				
							Touching			Spaced by one diameter	
										2 Cables Single-Phase AC or DC or 3 Cables Three-Phase AC flat	
	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC	3 or 4 Cables Three-Phase AC	2 Cables Single-Phase AC or DC flat	3 Cables ThreePhase AC flat	3 Cables ThreePhase AC trefoil	Horizontal	Vertical
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	20	18	24	21	27	25	-	-	-	-	-
4	26	24	32	28	37	33	-	-	-	-	-
6	34	31	41	36	47	43	-	-	-	-	-
10	46	42	57	50	65	59	-	-	-	-	-
16	61	56	76	68	87	79	-	-	-	-	-
25	80	73	101	89	114	104	131	114	110	146	130
35	99	89	125	110	141	129	162	143	137	181	162
50	119	108	151	134	182	167	196	174	167	219	197
70	151	136	192	171	234	214	251	225	216	281	254
95	182	164	232	207	284	261	304	275	264	341	311
120	210	188	269	239	330	303	352	321	308	396	362
150	240	216	300	262	381	349	406	372	356	456	419
185	273	245	341	296	436	400	463	427	409	521	480
240	321	286	400	346	515	472	546	507	485	615	569

Ambient temperature: 30°C

Conductor operating temperature: 70°C

The above table is in accordance with Table 4D1A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

NOTE 2.4 - For Class 5 flexible conductors the tabulated values for current carrying capacity or voltage drop are multiplied by the following factors:

CABLE SIZE ≤ 16mm ²	CURRENT CARRYING CAPACITY: 0.95	VOLTAGE DROP: 1.10
CABLE SIZE ≥ 25mm ²	CURRENT CARRYING CAPACITY: 0.97	VOLTAGE DROP: 1.06

NOMINAL CROSS SECTIONAL AREA mm ²	2 CABLES DC mV/A/m	2 CABLES SINGLE-PHASE AC mV/A/m									3 OR 4 CABLES THREE-PHASE AC mV/A/m											
		Reference Methods A and B enclosed in conduit or trunking)			Reference Methods C, F and G (clipped direct, on tray or in free air)						Reference Methods A and B enclosed in conduit or trunking)			Reference Methods C, F and G (clipped direct, on tray or in free air)								
					Cables Touching			Cables Spaced*						Cables touching, Trefoil		Cables touching, Flat		Cables spaced*, Flat				
1.5	28	29			29			29			25			25			25			25		
2.5	18	18			18			18			15			15			15			15		
4	11	11			11			11			9.5			9.5			9.5			9.5		
6	7.3	7.3			7.3			7.3			6.4			6.4			6.4			6.4		
10	4.4	4.4			4.4			4.4			3.8			3.8			3.8			3.8		
16	2.8	2.8			2.8			2.8			2.4			2.4			2.4			2.4		
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
25	1.75	1.8	0.33	1.8	1.75	0.2	1.75	1.75	0.29	1.8	1.5	0.29	1.55	1.5	0.18	1.5	0.15	0.25	1.55	1.5	0.32	1.55
35	1.25	1.3	0.31	1.3	1.25	0.2	1.25	1.25	0.28	1.3	1.1	0.27	1.1	1.1	0.17	1.1	1.1	0.24	1.1	1.1	0.32	1.15
50	0.93	0.95	0.3	1	0.93	0.19	0.95	0.93	0.28	0.97	0.81	0.26	0.85	0.8	0.17	0.82	0.8	0.24	0.84	0.8	0.32	0.86
70	0.63	0.65	0.29	0.72	0.63	0.19	0.66	0.63	0.27	0.69	0.56	0.25	0.61	0.55	0.16	0.57	0.55	0.24	0.6	0.55	0.31	0.63
95	0.46	0.49	0.28	0.56	0.47	0.18	0.5	0.47	0.27	0.54	0.42	0.24	0.48	0.41	0.16	0.43	0.41	0.23	0.47	0.4	0.31	0.51
120	0.36	0.39	0.27	0.47	0.37	0.18	0.41	0.37	0.26	0.45	0.33	0.23	0.41	0.32	0.15	0.36	0.32	0.23	0.4	0.32	0.3	0.44
150	0.29	0.31	0.27	0.41	0.3	0.18	0.34	0.29	0.26	0.39	0.27	0.23	0.36	0.26	0.15	0.3	0.26	0.23	0.34	0.26	0.3	0.4
185	0.23	0.25	0.27	0.37	0.24	0.17	0.29	0.24	0.26	0.35	0.22	0.23	0.32	0.21	0.15	0.26	0.21	0.22	0.31	0.21	0.3	0.36
240	0.18	0.2	0.26	0.33	0.19	0.17	0.25	0.19	0.25	0.31	0.17	0.23	0.29	0.16	0.15	0.22	0.16	0.22	0.27	0.16	0.29	0.34
300	0.15	0.16	0.26	0.31	0.15	0.17	0.22	0.15	0.25	0.29	0.14	0.23	0.27	0.13	0.14	0.19	0.13	0.22	0.25	0.13	0.29	0.32
400	0.11	0.13	0.26	0.29	0.12	0.16	0.2	0.12	0.25	0.27	0.12	0.22	0.25	0.11	0.14	0.18	0.11	0.21	0.24	0.1	0.29	0.31
500	0.086	0.11	0.26	0.28	0.98	0.155	0.185	0.093	0.24	0.26	0.1	0.22	0.25	0.086	0.135	0.16	0.086	0.21	0.23	0.081	0.29	0.3
630	0.068	0.094	0.25	0.27	0.081	0.155	0.175	0.076	0.24	0.25	0.08	0.22	0.24	0.072	0.135	0.15	0.072	0.21	0.22	0.066	0.28	0.29

Conductor operating temperature: 70°C
r = Resistive Component
x = Reactive Component
z = Impedance Value
*Spacings larger than one cable diameter will result in a larger voltage drop.

The above table is in accordance with Table 4D1B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52. For cables having conductors of 16mm2 or less cross sectional area their inductances can be ignored and (mV/A/m)r values only are tabulated. For cables having conductors greater than 16mm2, cross sectional area the impedance values are given as (mV/A/m)z, together with the resistive component (mV/A/m)r and the reactive component (mV/A/m)x.

The above paragraph is extracted from Appendix 4 of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

DE-RATING FACTORS

For Ambient Air Temperatures other than 30°C

AMBIENT TEMPERATURE	25°C	30°C	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	1.03	1.00	0.94	0.87	0.79	0.71	0.61

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

H05VV5–F Cable

Cable Flexible



APPLICATION

Flexible power, process control and instrumentation cable for industrial and machinery environments. This cable is resistant against most usual chemicals, oil and grease.

STANDARDS

VDE 0281-12, VDE 0482-332-1-2, EN 60811-2-1
Fire Retardant according to: IEC 60332-1

CHARACTERISTICS

- Voltage Rating (Uo/U)
300/500 V
- Voltage Test
2 kV
- Temperature Rating
Fixed: -40°C to +70°C
Installation: -5°C to +70°C
- Conductor Maximum Temperature
+70 °C
- Minimum Bending Radius
Fixed Installation: 4 x overall diameter
Moved Application: 12.5 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

- Conductor
Class 5 Fine Stranded Bare Copper
- Insulation
PVC TI 2 (Polyvinyl Chloride)
- Outer Sheath
PVC TM2 (Polyvinyl Chloride)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

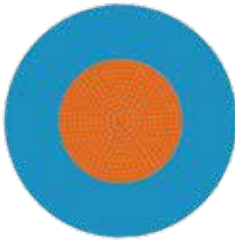
DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
3	0.75	7.2	61
3	1	7.4	71
3	1.5	8	92
3	2.5	9.7	146
4	0.75	7.8	75
4	1	8	89
4	1.5	9.2	125
4	2.5	11	196
5	0.75	9	100
5	1	9.2	116
5	1.5	10	155
5	2.5	12.1	235
7	0.75	10.5	141
7	1	10.8	166
7	1.5	12.2	227
7	2.5	14.2	343
12	0.75	13	214
12	1	13.4	251
12	1.5	14.6	330
12	2.5	17.7	535
18	0.75	15.1	306
18	1	16.2	385
18	1.5	17.7	506
18	2.5	21.3	800
25	0.75	18.6	427
25	1	19.8	534
25	1.5	21.6	700
25	2.5	25.9	1100
34	0.75	21.3	590
34	1	22	700
34	1.5	24.1	920

H05Z-U-H07Z-U Cable

Cable Flexible

CJDL Cable



➤ APPLICATION

Cables H05Z and H07Z, single-core, with rubber insulation and solid copper conductor, for indoor installations in dry and clean environments requiring a rated voltage of 300/500 V or 450/750 V.

➤ STANDARDS

EN 50525-1, 50525-3-41, IEC/EN 60228, IEC 60245-2, DIN VDE 0282-1/9/300, DIN VDE 0295, VDE 0298-4, EN 50395, EN 50396, HD 22.1/9, HD 308, HD 383, HD 516

Flame Retardant to IEC/EN 60332-1-2
Low Smoke Zero Halogen to IEC/EN 60754-1/2 and IEC/EN 61034-1/2

➤ CHARACTERISTICS

Voltage Rating

H05Z-U: 300/500 V

H07Z-U: 450/750 V

Temperature Rating

Maximum conductor operating temperature: 90° C

Maximum conductor short-circuit temperature: 250° C

Minimum installation temperature: 5° C

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Conductor

Class 1 solid Copper

Insulation

LSZH (Low Smoke Zero Halogen)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.

To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

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

DIMENSIONS
H05Z-U

NOMINAL CROSS SECTIONAL AREA mm2	MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	NOMINAL CABLE WEIGHT kg/km
0.5	1.9	2.4	7.1
0.75	2.1	2.6	9.7
1	2.2	2.8	12.1

H07Z-U

NOMINAL CROSS SECTIONAL AREA mm²	MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	NOMINAL CABLE WEIGHT kg/km
1.5	2.6	3.3	18
2.5	3.2	4	29
4	3.6	4.6	44
6	4.1	5.2	62
10	5.3	6.6	103

COLOUR CODES

COLOUR	Black	Blue	Grey	Green/Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	BL	GR	GY	OR	RD	PK	YW	VI	BR	WH

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

Tri-rated – H05V2-K / H07V2-K
BS 6231 / UL1015 CSA 22.2
Flexible PVC Cable



➤ APPLICATION

Heat resistant, flame retardant cable designed for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers. Tri-rated cable is sometimes referred to as BS 6231 cable, H07V2-K or panel wire.

➤ STANDARDS

EN 50525-2-31*, BS 6231 Type CK, UL Subj.758, CSA C22.2 No. 210 (HD 21.7 S2) #LL246095, IEC/EN 60228 Flame Retardant according to IEC/EN 60332-1-2

➤ CHARACTERISTICS

Voltage Rating (Uo/U)
UL, CSA, BS 6231: 0.6/1 kV
0.5mm² - 1mm²: BS EN 50525-2-31 - H05V2-K: 300/500V
1.5mm² and above*: BS EN 505-2-31 - H07V2-K: 450/750V
Temperature Rating
UL, CSA: -15° C to +105° C
BS 6231: -15° C to +90° C
*Suitable for temperature of -40°C for fixed installations only
Minimum Bending Radius
6 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

UL Style Number
1015
Conductor
Class 5 flexible copper conductor
Insulation
PVC (Polyvinyl Chloride)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

➤ CABLE THIRD-PARTY ACCREDITATION

We supply BASEC approved products
Cables are tested and certified by BASEC, The British Approvals Service for Cables

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	APPROXIMATE AWG	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	0.5	21	0.8	2.7	11
1	0.75	19	0.8	2.85	15
1	1	18	0.8	3	18
1	1.5	16	0.8	3.3	23
1	2.5	14	0.8	3.75	35
1	4	12	0.8	4.35	48
1	6	10	0.8	4.85	69
1	10	8	1	6.3	117
1	16	6	1	8.1	191
1	25	4	1.2	9.4	281
1	35	2	1.2	10.9	389
1	50	1	1.4	13.1	560
1	70	2/0	1.4	15.1	774
1	95	3/0	1.6	16.1	991
1	120	4/0	1.6	17.9	1231
1	150	250 MCM	1.8	20.2	1534
1	185	350 MCM	2	22.85	1878
1	240	450 MCM	2.2	24.4	2381

COLOUR CODES

COLOUR	Black	Green	Blue	Light Blue	Dark Blue	Grey	Green/Yellow	Orange	Red	Pink	Yellow	Violet	Brown	White
CODE	BK	GN	BL	LTBL	DKBL	GR	GY	OR	RD	PK	YW	VI	BR	WH

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
		ohms/km Plain Wires
0.5	0.21	39
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
6	0.31	3.3
10	0.41	1.91
16	0.41	1.21
25	0.41	0.78
35	0.41	0.554
50	0.41	0.386
70	0.51	0.272
95	0.51	0.206
120	0.51	0.161
150	0.51	0.129
185	0.51	0.106
240	0.51	0.0801

The above table is in accordance with EN 60228

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT RATING (PEAK) Amps	VOLTAGE DROP mV/A/m
0.5	11	46
0.75	14	31
1	17	22
1.5	21	15
2.5	30	9.1
4	41	5.7
6	53	3.8
10	75	2.2
16	100	1.4
25	136	0.89
35	167	0.64
50	204	0.45
70	259	0.32
95	321	0.24
120	374	0.19
150	429	0.16
185	496	0.13
240	595	0.1

Current ratings are based on a conductor operating temperature of 90° C and an ambient air temperature of 45° C and assumes single cable isolated in free air.

DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

AIR TEMPERATURE	45° C	50° C	55° C	60° C	65° C	70° C	75° C
DE-RATING FACTOR	1.00	0.97	0.90	0.82	0.73	0.63	0.52

Where cables are to be grouped, the following factors should be applied

NO. OF CABLES IN GROUP	2	3	4	5	6	7	8
DE-RATING FACTOR	0.80	0.70	0.65	0.60	0.56	0.53	0.50

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

N2XY IEC 60502–1 XLPE PVC 0.6/1kV Cable

Power cable

CJDL Cable



APPLICATION

These power and fixed wiring cables are used for electricity supply in low voltage installation systems. They are well adapted to underground use in industrial applications with an additional mechanical protection. These cables can be fixed on cable trays, within conduits or fixed to walls.

STANDARDS

IEC 60502-1, Gen to VDE 0276-603, IEC/EN 60228
Flame retardant according to IEC/EN 60332-1-2

CHARACTERISTICS

Voltage Rating (U₀/U)
0.6/1 kV
Temperature Rating
During installation -5°C to +50°C
Fixed Installation: -20°C to +90°C
Minimum Bending Radius
Fixed: 12 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Conductor
RE: Class 1 solid copper conductor
RM: Class 2 stranded circular or circular compacted
SM: Class 2 stranded sectoral shaped
Insulation
XLPE (Cross-Linked Polyethylene)
Bedding
PVC (Polyvinyl Chloride)
Sheath
PVC (Polyvinyl Chloride)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR TYPE	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	16	RM	0.7	1.8	9.8	216
1	25	RM	0.9	1.8	11.5	318
1	35	RM	0.9	1.8	12.6	415
1	50	RM	1	1.8	14.1	543
1	70	RM	1.1	1.8	15.6	746
1	95	RM	1.1	1.8	17.6	1000
1	120	RM	1.2	1.8	19.2	1239
1	150	RM	1.4	1.8	21.2	1515
1	185	RM	1.6	1.8	23.1	1872
1	240	RM	1.7	1.8	25.8	2403
1	300	RM	1.8	1.8	27.8	2974
1	400	RM	2	1.9	31.1	3834
1	500	RM	2.2	2	34.9	4892
1	630	RM	2.8	2.8	46.6	6544
2	1.5	RE	0.7	1.8	10.1	145
2	2.5	RE	0.7	1.8	10.9	179
2	4	RE	0.7	1.8	11.8	226
2	6	RE	0.7	1.8	12.8	284
2	6	RM	0.7	1.8	13.1	295
2	10	RM	0.7	1.8	15	416
2	16	RM	0.7	1.8	17	581
2	25	RM	0.9	1.8	20.4	859
2	35	RM	0.9	1.8	22.5	1109
3	1.5	RE	0.7	1.8	10.5	162
3	2.5	RE	0.7	1.8	11.4	205
3	4	RE	0.7	1.8	12.4	265
3	6	RE	0.7	1.8	13.4	338
3	10	RM	0.7	1.8	15.8	505
3	16	RM	0.7	1.8	18	719
3	25	RM	0.9	1.8	21.6	1072
3	35	RM	0.9	1.8	23.9	1403
3	50	SM	1	1.9	23.8	1581
3	16/10	SM	0.7	1.8	19.8	875.5
3	25/16	SM	0.9/0.7	1.8	22.4	1223
3	35/16	SM	0.9/0.7	1.8	24.3	1557
3	50/25	SM	1/0.9	1.9	26.9	1863
3	70/35	SM	1.1/0.9	2	30	2594
3	95/50	SM	1.1/1	2.2	33.8	3505
3	120/70	SM	1.2/1.1	2.3	37	4440
3	150/70	SM	1.4/1.1	2.4	41.6	5333
3	185/95	SM	1.6/1.1	2.6	45.8	6701
3	240/120	SM	1.7/1.2	2.8	51.6	8674
3	300/150	SM	1.8/1.4	3	67.2	10624
4	1.5	RE	0.7	1.8	11.3	188
4	2.5	RE	0.7	1.8	12.2	240
4	4	RE	0.7	1.8	13.3	314

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
4	6	RE	0.7	1.8	14.5	408
4	10	RE	0.7	1.8	17.1	615
4	16	RE	0.7	1.8	19.6	885
4	25	RE	0.9	1.8	23.7	1330
4	35	RE	0.9	1.8	26.2	1758
4	50	SM	1	2	27.1	2082
4	70	SM	1.1	2.1	31.4	2937
4	95	SM	1.1	2.2	35	3955
4	120	SM	1.2	2.4	39.3	4979
4	150	SM	1.4	2.6	43.6	6129
4	185	SM	1.6	2.7	48	7591
4	240	SM	1.7	2.9	53.9	9875
4	300	SM	1.8	2.6	68.9	15124
5	1.5	RE	0.7	1.8	12.1	218
5	2.5	RE	0.7	1.8	13.1	281
5	4	RE	0.7	1.8	14.3	372
5	6	RE	0.7	1.8	15.6	486
5	10	RM	0.7	1.8	18.6	740
5	16	RM	0.7	1.8	21.3	1071
5	25	RM	0.9	1.8	25.9	1619
5	35	RM	0.9	1.8	28.8	2138
5	50	RM	1	2.1	29.4	2578
5	70	RM	1.1	2.2	33.7	3616
5	95	RM	1.1	2.4	38.6	4933
5	120	RM	1.2	2.5	42.6	6153
5	150	RM	1.4	2.7	47.7	7587
5	185	RM	1.6	2.9	52.8	9454
5	240	RM	1.7	3.1	58.7	12242
7	1.5	RE	0.7	1.8	12.9	260
7	2.5	RE	0.7	1.8	14	342
7	4	RE	0.7	1.8	15.4	461
10	1.5	RE	0.7	1.8	15.6	357
10	2.5	RE	0.7	1.8	17.2	475
10	4	RE	0.7	1.8	19	646
12	1.5	RE	0.7	1.8	16.1	394
12	2.5	RE	0.7	1.8	17.6	528
14	1.5	RE	0.7	1.8	16.8	436
14	2.5	RE	0.7	1.8	18.5	592
16	4	RM	0.7	1.8	23	971
19	1.5	RE	0.7	1.8	18.4	543
19	2.5	RE	0.7	1.8	20.3	746
24	1.5	RE	0.7	1.8	21.2	675
24	2.5	RE	0.7	1.8	23.4	931
30	1.5	RE	0.7	1.8	22.3	788
30	2.5	RM	0.7	1.8	26.3	1164
40	1.5	RE	0.7	1.8	24.6	995
40	2.5	RE	0.7	1.9	27.5	1416

CONDUCTORS

Class 1 Solid Conductors for Single-Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km	
	Circular, Annealed Copper Conductors	
	Plain	
0.5	36	
0.75	24.5	
1	18.1	
1.5	12.1	
2.5	7.41	
4	4.61	
6	3.08	

Class 2 Stranded Conductors for Single-Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN THE CONDUCTOR		MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
	Circular	Circular Compacted	
	Cu	Cu	Annealed Copper Conductors Plain Wires
4	7	6	4.51
6	7	6	3.08
10	7	6	1.83
16	7	6	1.15
25	7	6	0.727
35	7	6	0.524
50	19	6	0.387
70	19	12	0.268
95	19	15	0.193
120	37	18	0.153
150	37	18	0.124
185	37	30	0.0991
240	37	34	0.0754
300	61	34	0.0601
400	61	53	0.0470
500	61	53	0.0366

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity at 30° C

NOMINAL CROSS SECTIONAL AREA mm²	SINGLE CORE				2 - 40 CORE Amps	
	In Ground		In Air		In Ground	In Air
	Flat	Trefoil	Flat	Trefoil		
1.5	-	-	-	-	31	24
2.5	-	-	-	-	40	32
4	82	54	57	44	52	42
6	102	67	72	56	64	53
10	136	89	99	77	86	74
16	176	115	131	102	112	98
25	229	148	177	138	145	133
35	275	177	217	170	174	162
50	326	209	265	207	206	197
70	400	256	336	263	254	250
95	480	307	415	325	305	308
120	548	349	485	380	348	359
150	616	393	557	437	392	412
185	698	445	646	507	444	475
240	815	517	774	604	517	564
300	927	663	901	697	585	649
400	1064	749	1060	811	-	-
500	1227	843	1252	940	-	-

DE-RATING FACTORS

For Ground Temperatures other than 20° C

AIR TEMPERATURE	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
DE-RATING FACTOR	1.07	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76

For Air Temperatures other than 30° C

AIR TEMPERATURE	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
DE-RATING FACTOR	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71

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

NA2XY Cable
Aluminium XLPE PVC – 0.6/1kV



➤ APPLICATION

For fixed installation in buildings, in free air, in ground and in water.

➤ STANDARDS

IEC 60502-1, Gen. to VDE 0276-603
Flame retardant according to IEC/EN 60332-1-2

➤ CHARACTERISTICS

Voltage Rating Uo/U (Um)
AC: 0.6/1 (1.2)kV
DC 0.9/1.8kV
Test Voltage
4 kV
Temperature Rating
Flexed: 5°C to +90°C
Fixed: -35°C to +90°C
Maximum Short Circuit Temperature
+250°C (max 5 seconds)
Minimum Bend Radius
Single core: 15 x overall diameter
Multi core: 12 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Conductor
Class 2 stranded Aluminium* conductor
Insulation
XLPE (Cross-Linked Polyethylene)
Sheath
PVC (Polyvinyl Chloride)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.



DIMENSIONS

NO. OF CONDUCTOR	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	25	RM	9.9	132
1	35	RM	11	166
1	50	RM	12.5	211
1	70	RM	14.1	283
1	95	RM	16.1	376
1	120	RM	17.5	456
1	150	RM	19.6	560
1	185	RM	21.8	697
1	240	RM	24	878
1	300	RM	26.7	1073
1	400	RM	29.7	1347
1	500	RM	33.1	1705
1	630	RM	42.8	2705
1	800	RM	47.9	3420
3	16	RM	16.3	364
3	25	RM	19.6	530
3	35	RM	22.1	684
3	35	SE	19	486
3	50	SM	22.4	655
3	50	SE	21.2	622
3	70	SM	26.1	903
3	70	SE	25.2	859
3	95	SM	29.1	1174
3	95	SE	27.8	1115
3	120	SM	32.2	1446
3	120	SE	30.8	1379
3	150	SM	36.2	1780
3	150	SE	33.9	1685
3	185	SM	40.1	2197
3	185	SE	37.6	2089
3	240	SM	44.9	2782
3	240	SE	41.8	2634
3	70 + 35	SM+SM	28.3	1044
3	120 + 70	SM+SM	35.1	1704
3	150 + 70	SM+SM	39.7	2065
3	185 + 95	SM+SM	43.7	2563
3	240 + 120	SM+SM	49.1	3237
4	25	RM	21.7	636
4	35	SM	22.4	649
4	35	SE	21.6	623
4	50	SM	25.4	845
4	50	SE	24.6	810
4	70	SM	29.7	1178
4	70	SE	28.8	1126
4	95	SM	33.3	1538



NO. OF CONDUCTOR	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
4	95	SE	32.1	1467
4	120	SM	37.2	1903
4	120	SE	35.5	1817
4	150	SM	41.3	2328
4	150	SE	39.4	2223
4	185	SM	45.7	2874
4	185	SE	43.4	2750
4	240	SM	51.2	3646
4	240	SE	48	3465
5	25	RM	23.9	763
5	35	RM	27	986
5	50	RM	31.3	1309
5	70	RM	35.8	1771
5	95	SM	36.5	1891
5	120	SM	39.2	2306
5	150	SM	45.4	2865
5	185	SM	50.1	3534
5	240	SM	55.2	4482

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity In Air

INSTALLATIONS	 1)		 #
NO. OF LOADED CORES	1	3	3
NOMINAL CROSS SECTIONAL AREA mm ²	LAYING IN AIR AT 30°C A		
25	136	102	106
35	166	126	130
50	205	149	161
70	260	191	204
95	321	234	252
120	376	273	295
150	431	311	339
185	501	360	395
240	600	427	472
300	696	507	547
400	821	600	643
500	971	695	754
630	1151	-	882
800	1355	-	1019

1) Rated Current for direct current systems with a far-distanced return conductor.
* The above is taken from DIN VDE 0276-603, DIN VDE 0276-627,HD 603 51,HD 627 51. The conversion factors for deviating ambient temperature defined in DIN VDE 0298 P4

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

INSTALLATIONS	 1)		 #
NO. OF LOADED CORES NOMINAL	1	3	3
CROSS SECTIONAL AREA mm²	LAYING IN GROUND AT 20°C A		
25	177	112	114
35	212	135	136
50	252	158	162
70	310	196	199
95	372	234	238
120	425	268	272
150	476	300	305
185	541	342	347
240	631	398	404
300	716	457	457
400	825	529	525
500	952	609	601
630	1102	-	687
800	1267	-	776
1000	1448	-	865

1) Rated Current for direct current systems with a far-distanced return conductor.

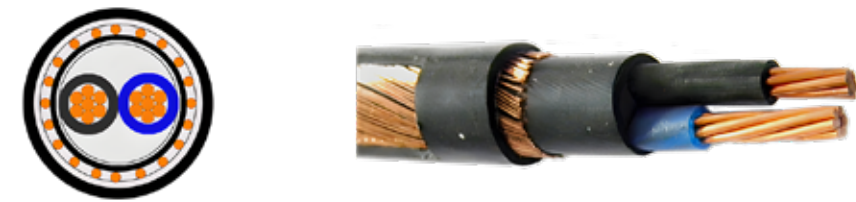
Installation conditions:
Air Temperature 30° C
Ground Temperature 20° C
Soil thermal resistivity, dried-out soil 2.5 Km/W
Soil thermal resistivity, moist soil 1.0 Km/W
Laying depth 0.7 m

DE-RATING FACTORS

AMBIENT TEMPERATURE	10	20	25	30	35	40	45	50
RATING FACTOR	1.15	1.08	1.04	1.00	0.96	0.91	0.87	0.82

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

Copper Concentric Cable



➤ APPLICATION

For overhead installations, direct burial, protective conduit, open cable tray and underground duct. Its maximum operating temperature is 70 ° C (PVC or PE insulation) or 90 ° C (XLPE insulation), with a rated working voltage of 600 V for all applications.

➤ STANDARDS

NTP IEC 60502-1 BS7870

➤ CHARACTERISTICS

- Rated voltage U_o/U 0.6/1kV
- Operating temperature range -15° C to +90° C
- Minimum bending radius 8 × overall cable diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

- Conductor Class 2 Copper
- Insulation XLPE
- Outer Sheath XLPE/PE/PVC
- Phase color code (SNE) Red, Black and White
- Phase color code (CNE) Black

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

Dimensions

Three Conductors

Cable	Number of cables	AWG size				Conductor diameter (inches)	Thickness (inches)		Approx. dimensions (inches)	Approx. total weight (lb/kft)
		Cross-sectional area	Concentric conductors	Number of strands	Conductor diameter (inches)		Binding layer	Sheath		
2×8+10	2	8	10	7	0.049	0.146	0.046	0.065	0.472×0.317	267
2×6+8	2	6	8	7	0.061	0.183	0.062	0.065	0.553×0.862	398
3×6	2	6	6	7	0.061	0.183	0.062	0.065	0.559×0.868	431
2×4+6	2	4	6	7	0.077	0.231	0.062	0.082	0.671×1.028	607
2×2+4	2	2	4	7	0.097	0.292	0.062	0.082	0.746×1.163	860

Four Conductors

Cable	Number of cables	AWG size				Conductor diameter (inches)	Thickness (inches)		Approx. dimensions (inches)	Approx. total weight (lb/kft)
		Cross-sectional area	Concentric conductors	Number of strands	Conductor diameter (inches)		Binding layer	Sheath		
3 × 8 + 10	3	8	10	7	0.049	0.146	0.046	0.063	0.762	404
3 × 6 + 8	3	6	8	7	0.061	0.183	0.062	0.082	0.976	658
4 × 6	3	6	6	7	0.061	0.183	0.062	0.082	0.982	691

Thermoplastic PE or thermoset XLPE insulation, with a PE jacket; the cable is available in flat or round configurations.
The above data are approximate and subject to normal manufacturing tolerances. Specifications are subject to change without prior notice.

Specifications

Copper Conductor					
Cable type	Conductor	Insulation thickness	Concentric conductor	Outer sheath thickness	Overall cable diameter
AWG	mm	mm	mm	mm	mm
3X8AWG	7/1.23	1.14	65/0.405	1.14	11.3x17.3
3X6AWG	7/1.55	1.14	65/0.511	1.14	13.2x20.0
3X4AWG	7/1.96	1.14	65/0.643	1.52	14.7x22.9
3X2AWG	7/2.47	1.14	65/0.823	1.52	16.6x26.3

Specifications

Cable type	Conductor	Insulation thickness	Concentric conductor	Outer sheath thickness	Overall cable diameter
AWG	mm	mm	mm	mm	mm
2x12	7/0.78	1.14	39/0.321	1.14	7.74
2x10	7/0.98	1.14	25/0.511	1.14	8.72
2x8	7/1.23	1.14	25/0.643	1.14	9.74
2x6	7/1.55	1.14	25/0.813	1.14	11.01
2x4	7/1.96	1.14	26/1.020	1.14	12.68



Aluminum Concentric Cable

Concentric cable

CJDL Cable



APPLICATION

Used by power distribution companies for final service connections to residential premises. It is also suitable for branch distribution networks (individual tap-offs), and is particularly recommended for high-rise buildings and public lighting installations.

STANDARDS

BS 7870, BS 6746, KS 04-1022
ASTM-B; ASTM-D; UL
NTP IEC 60502-1

CHARACTERISTICS

- Rated voltage** U₀/U 0.6/1kV
- Operating temperature range** -15° C to +70° C
- Minimum bending radius** 8 times the overall outer diameter of the cable

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

- Live conductor** Solid aluminium conductor, Class 1
- Insulation** XLPE (Cross-linked polyethylene)
- Concentric neutral and earth continuity conductor** Bare copper wires arranged in a concentric layer
- Binder separator** Non-hygroscopic separator
- Outer sheath** PVC (Polyvinyl chloride)
Option: LSZH (Low smoke zero halogen) for the flame-retardant version

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

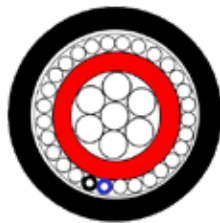
Cable size	Conductor size (AAC)	Insulation thickness (XLPE)	Concentric conductor (AAAC 8000)	Outer sheath thickness (PVC)	Overall cable diameter	Cable mass
mm ²	N/mm	mm	N/mm	mm	mm	kg/km
3*10/10	7/1.35	0.7	51/0.50	1.6	18.7	355.4
3*16/16	7/1.70	0.7	56/0.60	1.6	21.2	465.7

8000 Series Aluminium Alloy Conductor					
Cable type	Conductor	Insulation thickness	Concentric conductor	Outer sheath thickness	Overall cable diameter
AWG	mm	mm	mm	mm	mm
3X8AWG	7/1.23	1.14	65/0.405	1.14	11.3x17.3
3X6AWG	7/1.55	1.14	65/0.511	1.14	13.2x20.0
3X4AWG	7/1.96	1.14	65/0.643	1.52	14.7x22.9
3X2AWG	7/2.47	1.14	65/0.823	1.52	16.6x26.3

Nominal core and cross-sectional area	Conductor		Insulation thickness	Concentric conductor		Outer sheath thickness	Overall cable diameter	Cable weight	Max. DC resistance of conductor (20° C)	
	mm ²	Number	Diameter	mm	Number	Diameter mm	mm	kg/km	Ω/km	Ω/km (Concentric)
Copper conductor (IEC standard)										
2*10	7	1.35	1.55	20	0.85	1.4	11.8	290	1.83	1.9
2*16	7	1.7	1.55	32	0.85	1.4	12.84	420	1.15	1.2
2*25	7	2.14	1.6	29	1.13	1.5	15.02	630	0.727	0.76
2*35	19	1.53	1.65	27	1.35	1.6	17	832	0.524	0.55
Aluminium Alloy Conductor (IEC Standard)										
2*10	7	1.35	1.55	23	1.13	1.4	12.41	192	3.08	1.335
2*16	7	1.7	1.55	26	1.13	1.4	13.46	230	1.91	1.808
2*25	7	2.14	1.6	29	1.13	1.5	15.08	290	1.2	1.0586
2*35	19	1.53	1.65	27	1.35	1.6	17.05	0.868	0.868	0.7966

Concentric Cable

(Aluminium and Copper Airdac Types)



APPLICATION

PME Concentric Cable for single-phase overhead and underground residential service connections;concentric layer = combined neutral and earth (PEN) conductor. Available with integrated communication cable for smart meter remote reading.

STANDARDS

BS 7870, BS 6746, KS 04-1022
SANS 1507-6

CHARACTERISTICS

Rated voltage U₀/U

0.6/1kV

Operating temperature range

-15° C to +70° C

Minimum bending radius

8 × overall cable diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Aluminium Concentric Cable with 2 Copper

Communication Wires

Live conductor

Solid/stranded aluminium, Class 1

Insulation

PVC / XLPE

Concentric neutral-earth layer

Helically applied aluminium wire, full/partial coverage

Incorporates 2 copper communication cores

Separator tape

Non-absorbent material

Outer sheath

Weather-resistant PVC

Airdac Copper Concentric Cable

Live conductor

Electrolytic copper, Class 2 / Optional aluminium

Insulation

LV-XLPE (Low-voltage cross-linked polyethylene)

Concentric neutral-earth layer

Bare copper wires in SNE / CNE configuration

Optional with integrated communication wires

Separator tape

Non-hygroscopic material

Outer sheath

XLPE / PE / PVC

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

Cable size	Neutral conductor size	Earth conductor size	Pilot cores	Overall diameter	Cable mass	Current carrying capacity	Phase conductor impedance
mm ²	mm ²	mm ²	mm	mm	kg/km	A	Ω/km
10	10	7.5	2 x 0.5	12.8	320	90	2.34
16	16	10	2 x 0.5	14.5	485	125	1.47

Nominal core and cross-sectional area	Conductor		Insulation thickness	Concentric conductor		Outer sheath thickness	Overall cable diameter	Cable weight	Max. DC resistance of conductor (20° C)	
	Number	Diameter	mm	Number	Diameter mm	mm	mm	Kg/km	Ω/km	Ω/km (Concentric)
Copper conductor (IEC standard)										
2*10	7	1.35	1.55	20	0.85	1.4	11.8	290	1.83	1.9
2*16	7	1.7	1.55	32	0.85	1.4	12.84	420	1.15	1.2
2*25	7	2.14	1.6	29	1.13	1.5	15.02	630	0.727	0.76
2*35	19	1.53	1.65	27	1.35	1.6	17	832	0.524	0.55
Aluminum alloy conductor (IEC standard)										
2*10	7	1.35	1.55	23	1.13	1.4	12.41	192	3.08	1.335
2*16	7	1.7	1.55	26	1.13	1.4	13.46	230	1.91	1.808
2*25	7	2.14	1.6	29	1.13	1.5	15.08	290	1.2	1.0586
2*35	19	1.53	1.65	27	1.35	1.6	17.05	0.868	0.868	0.7966

N2XBY Cable

ARMOURED CABLE



➤ APPLICATION

For installation indoors, in cable ducts, or directly in the ground. Suitable for switchgear, power stations, and industrial applications in harsh environments where a high level of mechanical protection is required.

➤ STANDARDS

IEC 60502-1, VDE 0276-603, IS 1516.1, IEC/EN 60228
Flame retardant according to IEC/EN 60332-1

➤ CHARACTERISTICS

Voltage Rating U₀/U

0.6/1kV

Test Voltage

3.5kV

Temperature Rating

Maximum Operating: +90°C

Maximum Short-Circuit: +250° C

Minimum Bending Radius

12 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Conductor

Class 2 Stranded copper

Insulation

XLPE (Cross-Linked Polyethylene)

Filler

Polyvinyl chloride (PVC)

Armour

Double galvanized steel tape

Outer Sheath

Polyvinyl chloride (PVC)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.

To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
2	2.5	1.76	0.7	1.24	13	276
2	4	2.21	0.7	1.24	14	326
2	6	2.71	0.7	1.24	15	384
2	10	3.85	0.7	1.24	17	498
2	16	4.8	0.7	1.24	19	649
2	25	5.85	0.9	1.24	22	882
2	35	6.9	0.9	1.32	24	1113
2	50	8.1	1	1.4	27	1421
2	70	9.7	1.1	1.48	31	1899
2	95	11.4	1.1	1.64	35	2482
3	1.5	1.36	0.7	1.24	12	265
3	2.5	1.76	0.7	1.24	14	342
3	4	2.21	0.7	1.24	15	417
3	6	2.71	0.7	1.24	16	501
3	10	3.85	0.7	1.24	19	704
3	16	4.8	0.7	1.24	21	938
3	25	5.85	0.9	1.24	24	1315
3	35	6.9	0.9	1.32	26	1682
3	50	8.1	1	1.4	29	2176
3	70	9.7	1.1	1.48	34	2949
3	95	11.4	1.1	1.64	38	4004
3	120	12.65	1.2	1.72	42	5215
3	150	14.4	1.4	1.88	47	6413
3	185	15.75	1.6	2.04	51	7719
3	240	18.2	1.7	2.2	58	9961
3	16+10	4.8	0.7	1.24	21	1073
3	25+16	5.85	0.9	1.24	25	1511
3	35+16	6.9	0.9	1.32	27	1861
3	50+25	8.1	1	1.4	30	2377
3	70+35	9.7	1.1	1.56	35	3235
3	95+70	11.4	1.1	1.64	39	4634
3	120+70	12.65	1.2	1.8	44	5813
3	150+70	14.4	1.4	1.88	48	6888
3	185+95	15.75	1.6	2.04	52	8412
3	240+120	18.2	1.7	2.2	59	10679
4	1.5	1.36	0.7	1.24	13	309
4	2.5	1.76	0.7	1.24	14	369
4	4	2.21	0.7	1.24	16	469
4	6	2.71	0.7	1.24	17	577
4	10	3.85	0.7	1.24	20	821
4	16	4.8	0.7	1.24	22	1113
4	25	5.85	0.9	1.32	25	1593
4	35	6.9	0.9	1.4	28	2060
4	50	8.1	1	1.48	32	2637
4	70	9.7	1.1	1.56	36	3611
4	95	11.4	1.1	1.72	41	5355
4	120	12.65	1.2	1.88	46	6590
4	150	14.4	1.4	1.96	51	8096

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
4	185	15.75	1.6	2.12	56	9795
4	240	18.2	1.7	2.36	63	12585
5	1.5	1.36	0.7	1.24	14	368
5	2.5	1.76	0.7	1.24	15	432
5	4	2.21	0.7	1.24	17	543
5	6	2.71	0.7	1.24	18	679
5	10	3.85	0.7	1.24	21	981
5	16	4.8	0.7	1.24	24	1351
5	25	5.85	0.9	1.32	28	1960
5	35	6.9	0.9	1.4	31	2539
5	50	8.1	1	1.48	35	3333
5	70	9.7	1	1.48	39	4507
5	95	11.4	1.1	1.56	44	6038

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20° C Ω/km
	IN CONDUIT	IN AIR	
1.5	30	24	12.1
2.5	40	32	7.41
4	52	42	4.61
6	64	53	3.08
10	86	73	1.83
16	111	96	1.15
25	143	130	0.727
35	173	160	0.524
50	205	195	0.387
70	252	247	0.268
95	303	305	0.193
120	346	355	0.153
150	390	407	0.124
185	441	469	0.0991
240	511	551	0.0754

N2XRH
Cu/XLPE/LSZH/SWA/LSZH
0.6/1kV Cable



ARMoured CABLE

CJDL Cable

CJDL Cable

CJDLJT®

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km	BW / CW GLAND	WRAPAROUND CLEATS
			UNDER ARMOUR	OVERALL			
2	1.5	0.6	7.3	12.1	302	20S	CC5
2	2.5	0.7	8.5	13.6	346	20S	CC6
2	4	0.7	9.4	14.7	410	20S	CC6
2	6	0.7	10.5	15.9	499	20	CC7
2	10	0.7	12.3	18	648	20	CC8
2	16	0.7	14.3	20.4	978	20	CC9
2	25	0.9	14.7	20.4	1290	25	CC9
2	35	0.9	16.8	23.3	1500	32	CC10
2	50	1	19	25.8	1890	32	CC12
2	70	1.1	22	29	2450	32	CC12
2	95	1.1	25.1	33.1	3300	32	CC14
2	120	1.2	31.1	39.3	4020	40	CC16
2	150	1.4	30.9	39.3	4750	40	CC18
3	1.5	0.6	7.8	12.6	330	20S	CC5
3	2.5	0.7	9.2	14.1	390	20S	CC6
3	4	0.7	10	15.3	464	20	CC7
3	6	0.7	11.2	16.6	568	20	CC7
3	10	0.7	13.1	19.5	866	20	CC8
3	16	0.7	15.3	21.6	1152	25	CC9
3	25	0.9	18.9	23.6	1800	25	CC11
3	35	0.9	21.3	25.7	2230	32	CC12
3	50	1	21.7	28.5	2490	32	CC12
3	70	1.1	25.2	32.2	3290	32	CC14
3	95	1.1	28.8	37	4440	40	CC16
3	120	1.2	32	40.4	5470	40	CC16
3	150	1.4	35.9	45.5	6930	50S	CC18
4	1.5	0.6	8.5	13.5	365	20S	CC6
4	2.5	0.7	9.9	15	438	20	CC6
4	4	0.7	11	16.4	532	20	CC7
4	6	0.7	12.3	18.7	764	20	CC8
4	10	0.7	14.5	21.1	1013	25	CC9
4	16	0.7	17	23.4	1360	25	CC10
4	25	0.9	21	26.1	2160	32	CC11
4	35	0.9	23.6	28.6	2690	32	CC12
4	50	1	25	32	3130	32	CC14
4	70	1.1	29.5	37.7	4500	40	CC16
4	95	1.1	33.3	41.7	5600	50S	CC18
4	120	1.2	37.5	47.1	7400	50	CC20
4	150	1.4	41.6	51.4	8780	50	-
4	185	1.6	46.4	56.6	10630	63S	-
4	240	1.7	52.6	63	13390	63	-
4	300	1.8	56.3	63.6	14998	75S	-
5	1.5	0.6	9.7	14.3	410	20S	CC6
5	2.5	0.7	11.7	16.3	470	20	CC7
5	4	0.7	13	17.8	710	20	CC7
5	6	0.7	14.5	20	876	25	CC8

APPLICATION

These low voltage multi-core LSZH power cables with steel wire armour (SWA) feature the same construction as the British Standard BS6724 cable. Designed for use in power networks, underground, outdoor, indoor applications, and cable ducting, they are ideal for installations where fire, smoke emission, and toxic fumes create a potential threat to life and equipment.

STANDARDS

BS 6724, IEC/EN 60228, EN 50267-2-1, IEC/EN 60502-1, Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24 Cat C
Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

CHARACTERISTICS

Voltage Rating U₀/U

0.6/1kV

Temperature Rating

Fixed: -20° C to +90° C

Minimum Bending Radius

1.5mm² to 16mm² - Fixed: 6 x overall diameter
25mm² and above - Fixed: 8 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Conductor

Class 2 stranded copper conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Bedding

LSZH (Low Smoke Zero Halogen)

Armour

SWA (Steel Wire Armour)

Sheath

LSZH (Low Smoke Zero Halogen)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model.
To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km	BW / CW GLAND	WRAPAROUND CLEATS
			UNDER ARMOUR	OVERALL			
5	10	0.7	17.2	22.9	1165	25	CC10
5	16	0.7	20	26.6	1742	32	CC11
5	25	0.9	24.7	31.5	2323	32	CC14
5	35	0.9	27.8	34.8	2932	40	CC14
5	50	1	32.4	40.4	4192	50S	CC16
5	70	1.1	35.8	43.0	5500	50S	CC18
5	95	1.1	42.1	49.0	7145	50S	CC20
7	1.5	0.6	10.2	15.2	470	20S	CC6
7	2.5	0.7	12.3	17.1	600	20	CC7
12	1.5	0.6	13.7	19.4	780	20	CC8
12	2.5	0.7	16.3	22.4	1000	25	CC9
19	1.5	0.6	16.2	22.2	1000	25	CC9
19	2.5	0.7	19.9	26.6	1540	25	CC11
27	1.5	0.6	20	26.7	1500	32	CC11
27	2.5	0.7	24	30.7	1950	32	CC14
37	1.5	0.6	22.3	29	1800	32	CC12
37	2.5	0.7	26.9	33.8	2350	40	CC14

CONDUCTORS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR				MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C		
	CIRCULAR		CIRCULAR COMPACTED		SHAPED		ANNEALED COPPER CONDUCTOR
	Cu	Al	Cu	Al	Cu	Al	
							PLAIN WIRES OHMS/KM
1.5	7	-	6	-	-	-	12.1
2.5	7	-	6	-	-	-	7.41
4	7	-	6	-	-	-	4.61
6	7	-	6	-	-	-	3.08
10	7	7	6	6	-	-	1.83
16	7	7	6	6	-	-	1.15
25	7	7	6	6	6	6	0.727
35	7	7	6	6	6	6	0.524
50	19	19	6	6	6	6	0.387
70	19	19	12	12	12	12	0.268
95	19	19	15	15	15	15	0.193
120	37	37	18	15	18	15	0.153
150	37	37	18	15	18	15	0.124
185	37	37	30	30	30	30	0.099
240	37	37	34	30	34	30	0.075

The above table is in accordance with EN 60228

ELECTRICAL CHARACTERISTICS XLPE/PVC/SWA/PVC

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD C (CLIPPED DIRECT) Amps	REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL) Amps		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING INGROUND, IN OR AROUND BUILDINGS) Amps	
		1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC
1.5	27	23	29	25	21
2.5	36	31	39	33	28
4	49	42	52	43	36
6	62	53	66	53	44
10	85	73	90	71	58
16	110	94	115	91	75
25	146	124	152	116	96
35	180	154	188	139	115
50	219	187	228	164	135
70	279	238	291	203	167
95	338	289	354	239	197
120	392	335	410	271	223
150	451	386	472	306	251
185	515	441	539	343	281
240	607	520	636	395	324
300	698	599	732	446	365
400	787	673	847	-	-

Air ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 90°C

Notes

- Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 17th Edition of IEE Wiring Regulations).
- Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D4A) must be used (see also Regulation 523.1 of the 17th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E4A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52

Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	TWO CORE CABLE DC	TWO CORE CABLE SINGLE-PHASE AC mV/A/m			THREE OR FOUR CORE CABLE THREE-PHASE AC		
1.5	31	31			27		
2.5	19	19			16		
4	12	12			10		
6	7.9	7.9			6.8		
10	4.7	4.7			4		
16	2.9	2.9			2.5		
		r	x	z	r	x	z
25	1.85	1.85	0.160	1.900	1.600	0.140	1.650
35	1.35	1.35	0.155	1.350	1.150	0.135	1.150
50	0.98	0.99	0.155	1.000	0.860	0.135	0.870
70	0.67	0.67	0.150	0.690	0.590	0.130	0.600
95	0.49	0.50	0.150	0.520	0.430	0.130	0.450
120	0.39	0.40	0.145	0.420	0.340	0.130	0.370
150	0.31	0.32	0.145	0.350	0.280	0.125	0.300
185	0.25	0.26	0.145	0.290	0.220	0.125	0.260
240	0.195	0.20	0.140	0.240	0.175	0.125	0.210
300	0.155	0.16	0.140	0.210	0.140	0.120	0.185
400	0.12	0.13	0.140	0.190	0.115	0.120	0.165

Conductor operating temperature: 90°C
r = Resistive Component
x = Reactive Component
z = Impedance Value

The above table is in accordance with Table 4E4B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364–5–52

For cables having conductors with a cross-sectional area of 16mm² or less, their inductances can be ignored and (mV/A/m)r values only are tabulated. For cables having conductors greater than 16mm², cross sectional area the impedance values are given as (mV/A/m)z, together with the resistive component (mV/A/m)r and the reactive component (mV/A/m)x.

The above paragraph is extracted from Appendix 4 of the 18th Edition of IEE Wiring Regulations.

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

ARMOURED CABLE

N2XRY
Cu/XLPE/PVC/SWA/PVC
0.6/1kV Cable



➤ APPLICATION

European name of the BS5467 cable. Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

➤ STANDARDS

BS 5467, IEC/EN 60502-1, IEC/EN 60228
Flame Retardant according to IEC/EN 60332-1-2

➤ CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Fixed: -25° C to +90° C

Minimum Bending Radius
1.5mm² to 16mm² - Fixed: 6 x overall diameter
25mm² and above - Fixed: 8 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

- Conductor**
Class 2 stranded copper conductor
- Insulation**
XLPE (Cross-Linked Polyethylene)
- Bedding**
PVC (Polyvinyl Chloride)
- Armour**
SWA (Steel Wire Armour)
- Sheath**
PVC (Polyvinyl Chloride)

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km	BW / CW GLAND	WRAPAROUND CLEATS
			UNDER ARMOUR	OVERALL			
2	1.5	0.6	7.3	12.1	302	20	CC5
2	2.5	0.7	8.5	13.6	346	20	CC6
2	4	0.7	9.4	14.7	410	20S	CC7
2	6	0.7	10.5	15.9	499	20	CC7
2	10	0.7	12.3	18	648	20	CC8
2	16	0.7	14.3	20.4	978	20	CC9
2	25	0.9	14.7	20.4	1290	25	CC9
2	35	0.9	16.8	23.3	1500	25	CC10
2	50	1	19	25.8	1890	25	CC11
2	70	1.1	22	29	2450	32	CC12
2	95	1.1	25.1	33.1	3300	32	CC14
2	120	1.2	27.9	36.1	4020	40	CC16
2	150	1.4	30.9	39.3	4750	40	CC16
3	1.5	0.6	7.8	12.6	330	20	CC5
3	2.5	0.7	9.2	14.1	390	20S	CC6
3	4	0.7	10	15.3	464	20S	CC7
3	6	0.7	11.2	16.6	568	20	CC7
3	10	0.7	13.1	19.5	866	20	CC8
3	16	0.7	15.3	21.6	1152	25	CC9
3	25	0.9	18.9	23.6	1800	25	CC11
3	35	0.9	21.3	25.7	2230	32	CC12
3	50	1	21.7	28.5	2490	32	CC12
3	70	1.1	25.2	32.2	3290	32	CC14
3	95	1.1	28.8	37	4440	40	CC16
3	120	1.2	32	40.4	5470	40	CC16
3	150	1.4	35.9	45.5	6930	50S	CC18
3	185	1.6	40	49.8	8350	63S	CC20
3	240	1.7	44.9	55.1	10400	63S	-
3	300	1.8	49.8	60.2	12600	63S	-
3	400	2	55.8	66.6	14600	75S	-
4	1.5	0.6	8.5	13.3	365	20S	CC6
4	2.5	0.7	9.9	15	438	20	CC6
4	4	0.7	11	16.4	532	20	CC7
4	6	0.7	12.3	18.7	764	20	CC8
4	10	0.7	14.5	21.1	1013	25	CC9
4	16	0.7	17	23.4	1360	25	CC10
4	25	0.9	21	26.1	2160	32	CC11
4	35	0.9	23.6	28.6	2690	32	CC12
4	50	1	25	32	3130	32	CC14
4	70	1.1	29.5	37.7	4500	40	CC16
4	95	1.1	33.3	41.7	5600	50S	CC18
4	120	1.2	37.5	47.1	7400	50	CC20
4	150	1.4	41.6	51.4	8780	50	-
4	185	1.6	46.4	56.6	10630	63S	-
4	240	1.7	52.6	63	13390	63	-

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km	BW / CW GLAND	WRAPAROUND CLEATS
			UNDER ARMOUR	OVERALL			
4	300	1.8	58	68.8	16290	75S	-
4	400	2	65.4	78.1	19800	90	-
5	1.5	0.6	9.7	14.3	410	20S	CC6
5	2.5	0.7	11.7	16.1	470	20	CC7
5	4	0.7	13	17.8	710	20	CC7
5	6	0.7	14.5	20	876	25	CC8
5	10	0.7	17.2	22.9	1165	25	CC10
5	16	0.7	20	26.6	1742	32	CC11
5	25	0.9	24.7	31.5	2323	32	CC14
5	35	0.9	27.8	34.8	2932	40	CC14
5	50	1	32.4	40.4	4192	50S	CC16
5	70	1.1	35.8	43.0	5500	50S	CC18
5	95	1.1	42.1	49.0	7145	50S	CC20
7	1.5	0.6	10.2	15.2	470	20S	CC6
7	2.5	0.7	12.3	17.1	600	20	CC7
7	4	0.7	13.6	19.1	881	20	CC8
12	1.5	0.6	13.7	19.4	780	20	CC8
12	2.5	0.7	16.3	22.4	1000	25	CC9
19	1.5	0.6	16.2	22.2	1000	25	CC9
19	2.5	0.7	19.9	26.6	1540	25	CC11
27	1.5	0.6	20	26.7	1500	32	CC11
27	2.5	0.7	24	30.7	1950	32	CC14
37	1.5	0.6	22.3	29	1800	32	CC12
37	2.5	0.7	26.9	33.8	2350	40	CC14

CONDUCTORS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
	CIRCULAR		CIRCULAR COMPACTED		SHAPED		ANNEALED COPPER CONDUCTOR
	Cu	Al	Cu	Al	Cu	Al	PLAIN WIRES OHMS/KM
1.5	7	-	6	-	-	-	12.1
2.5	7	-	6	-	-	-	7.41
4	7	-	6	-	-	-	4.61
6	7	-	6	-	-	-	3.08
10	7	7	6	6	-	-	1.83
16	7	7	6	6	-	-	1.15
25	7	7	6	6	6	6	0.727
35	7	7	6	6	6	6	0.524
50	19	19	6	6	6	6	0.387
70	19	19	12	12	12	12	0.268
95	19	19	15	15	15	15	0.193
120	37	37	18	15	18	15	0.153
150	37	37	18	15	18	15	0.124
185	37	37	30	30	30	30	0.099
240	37	37	34	30	34	30	0.075
300	61	61	34	30	34	30	0.060
400	61	61	53	53	53	53	0.047

The above table is in accordance with EN 60228



ELECTRICAL CHARACTERISTICS XLPE/PVC/SWA/PVC

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD C (CLIPPED DIRECT) Amps		REFERENCE METHOD E (IN FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL) Amps		REFERENCE METHOD D (DIRECT IN GROUND OR IN DUCTING IN GROUND, IN OR AROUND BUILDINGS) Amps	
	1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Single Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-

Air ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 90°C

- Notes
1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 18th Edition of IEE Wiring Regulations).
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C , the current ratings given in the equivalent able for 70°C thermoplastic insulated cables (Table 4D4A) must be used (see also Regulation 523.1 of the 18th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E4A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364–5–52



VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	TWO CORE CABLE CC	WO CORE CABLE SINGLE-PHASE AC mV/A/m			THREE OR FOUR CORE CABLE THREE-PHASE AC		
		r	x	z	r	x	z
1.5	31	31			27		
2.5	19	19			16		
4	12	12			10		
6	7.9	7.9			6.8		
10	4.7	4.7			4		
16	2.9	2.9			2.5		
		r	x	z	r	x	z
25	1.85	1.85	0.160	1.900	1.600	0.140	1.650
35	1.35	1.35	0.155	1.350	1.150	0.135	1.150
50	0.98	0.99	0.155	1.000	0.860	0.135	0.870
70	0.67	0.67	0.150	0.690	0.590	0.130	0.600
95	0.49	0.50	0.150	0.520	0.430	0.130	0.450
120	0.39	0.40	0.145	0.420	0.340	0.130	0.370
150	0.31	0.32	0.145	0.350	0.280	0.125	0.300
185	0.25	0.26	0.145	0.290	0.220	0.125	0.260
240	0.195	0.20	0.140	0.240	0.175	0.125	0.210
300	0.155	0.16	0.140	0.210	0.140	0.120	0.185
400	0.12	0.13	0.140	0.190	0.115	0.120	0.165

Conductor operating temperature: 90°C
r = Resistive Component
x = Reactive Component
z = Impedance Value

The above table is in accordance with Table 4E4B of the 17th Edition of IEE Wiring Regulations.

For cables having conductors of 16mm2 or less cross sectional area their inductances can be ignored and (mV/A/m)r values only are tabulated. For cables having conductors greater than 16mm2, cross sectional area the impedance values are given as (mV/A/m)z,together with the resistive component (mV/A/m)r and the reactive component (mV/A/m)x.

The above paragraph is extracted from Appendix 4 of the 17th Edition of IEE Wiring Regulations.

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

NA2XBY Aluminium
Conductor IEC 60502-1
XLPE DSTA PVC 0.6/1kV Cable

ARMOURED CABLE

CJDL Cable



➤ APPLICATION

This cable is highly resistant to mechanical stresses due to the galvanised steel tape armoured construction. Suitable for local distribution systems.

➤ STANDARDS

IEC 60502-1, EN 60228
Flame Retardant according to IEC/EN 60332-1-2

➤ CHARACTERISTICS

Voltage Rating U_0/U
0.6/1kV
Maximum Operating Temperature
+90 °C
Minimum Bending Radius
15 x overall diameter

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ CONSTRUCTION

Conductor
Class 2 stranded aluminium conductor
Insulation
XLPE (Cross-Linked Polyethylene)
Filler
PVC (Polyvinyl Chloride)
Armour
Double galvanized steel tape
Sheath
PVC (Polyvinyl Chloride)
Sheath Colour
Black

➤ DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
2	16	19.6	624
2	25	22.6	807
2	35	24.8	967
3	16	20.5	741
3	25	23.8	985
3	35	26.2	1202
3	35/16	27.4	1317
3	50	29.6	1503
3	50/25	30.2	1573
3	70	33.5	1914
3	70/35	35.3	2132
3	95	37.6	2429
3	95/50	39.7	2711
3	120	42.5	2991
3	120/70	45	3363
3	150/70	48.8	4271
3	185/95	54.1	4191
3	240/120	61.2	6174
4	16	22.1	859
4	25	26	1172
4	35	28.6	1434
4	50	32.4	1804
4	70	36.7	2306
5	16	23.9	1057
5	25	28.4	1477
5	35	31.5	1842
5	50	35.9	2356
5	70	40	2960
5	95	45.3	3837

CONDUCTORS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C ohms/km
	CIRCULAR		CIRCULAR COMPACTED		SHAPED		ALUMINIUM OR ALUMINIUM ALLOY CONDUCTOR
	Cu	Al	Cu	Al	Cu	Al	
16	7	7	6	6	-	-	1.91
25	7	7	6	6	6	6	1.2
35	7	7	6	6	6	6	0.868
50	19	19	6	6	6	6	0.641
70	19	19	12	12	12	12	0.443
95	19	19	15	15	15	15	0.32
120	37	37	15	15	18	18	0.253
150	37	37	15	15	18	18	0.206
185	37	37	30	30	30	30	0.164
240	37	37	34	30	18	18	0.125

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY Amps	
		In Ground	In Air
2	16	84	91
2	25	101	108
2	35	126	135
3	16	76	77
3	25	90	97
3	35	112	120
3	35/16	112	120
3	50	136	146
3	50/25	136	146
3	70	174	187
3	70/35	174	187
3	95	211	227
3	95/50	211	227
3	120	245	263
3	120/70	245	263
3	150/70	283	304
3	185/95	323	347
3	240/120	382	409
4	16	76	77
4	25	90	97
4	35	112	120
4	50	136	146
4	70	174	187
5	16	76	77
5	25	90	97
5	35	112	120
5	50	136	146
5	70	174	187
5	95	211	227

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

NA2XRH Aluminium Conductor IEC 60502–1 XLPE SWA LSZH 0.6/1kV Cable

ARMOURED CABLE

CJDL Cable



APPLICATION

Multi-core LSZH cable with steel wire armour (SWA). Power and auxiliary fixed wiring cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

STANDARDS

Generally to BS 6724, IEC 60502-1, EN 50267-2-1, EN 60228
Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24
Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV
Maximum Operating Temperature
Fixed: -5° C to +90° C
Minimum Bending Radius
15 x overall diameter

CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

CONSTRUCTION

Conductor
Class 2 stranded aluminium conductor
Insulation
XLPE (Cross-Linked Polyethylene)
Filler
LSZH (Low Smoke Zero Halogen)
Armour
Single core: AWA (Aluminium wire armour)
All other sizes: SWA (Galvanized round steel wire)
Sheath
LSZH (Low Smoke Zero Halogen)

DEDICATION TO SUSTAINABILITY

At CJDL Cable, we are fully committed to ecological transition and environmental protection. We actively push forward decarbonization goals, steadily moving toward a zero-emission business model. To this end, we keep pursuing technological innovation to improve energy efficiency and cut pollutant emissions. Meanwhile, we optimize manufacturing processes to reduce environmental impact, securing sound, responsible and sustainable long-term growth for the company.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
1	70	1.1	1.3	19.6	525
1	95	1.1	1.3	21.1	620
1	120	1.2	1.3	22.7	730
1	150	1.4	1.4	26.2	935
1	185	1.6	1.5	27.7	1085
1	240	1.7	1.5	30.3	1310
1	300	1.8	1.6	33	1560
1	400	2	1.7	36.9	1995
1	500	2.2	1.7	40.3	2375
1	630	2.4	1.8	44.8	2963
2	25	0.9	1.3	23.2	850
2	35	0.9	1.4	26.4	1165
2	50	1	1.6	29.8	1390
2	70	1.1	1.7	34.3	1925
2	95	1.1	1.7	37.3	2270
2	150	1.4	1.8	45.9	2945
2	185	1.6	2	50	3990
2	240	1.7	2.1	55.4	4760
2	300	1.8	2.1	60.8	5600
3	25	0.9	1.4	25.4	1100
3	35	0.9	1.5	28	1300
3	50	1	1.5	28.1	1370
3	70	1.1	1.6	31.6	1700
3	95	1.1	1.7	35.6	2215
3	120	1.2	1.8	39	2610
3	150	1.4	1.9	43.1	3485
3	185	1.6	2	47.1	4065
3	240	1.7	2.1	52	4900
3	300	1.8	2.2	57.1	5750
3	400	2	2.4	64.3	7105
4	25	0.9	1.4	27.4	1265
4	35	0.9	1.5	30.3	1520
4	50	1	1.6	31.8	1655
4	70	1.1	1.7	36.6	2320
4	95	1.1	1.8	39.3	2755
4	120	1.2	1.9	44.4	3635
4	150	1.4	2	48.9	4280
4	185	1.6	2.1	53.7	5025
4	240	1.7	2.2	59.7	6105
4	300	1.8	2.4	65.3	7315
5	25	0.9	1.5	29.7	1530
5	35	0.9	1.6	32.9	1830
5	50	1	1.7	37.8	2535
5	70	1.1	1.8	43	3250

Laying conditions at trefoil formation are as below:
-Soil thermal resistivity 120° C.Cm/Watt
-Burial depth 0.5 m
-Ground temperature 15 °C
-Air temperature 25 °C
-Frequency 50 Hz

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 HZ	CONDUCTOR S.C.C FOR 1 SECOND KA	CURRENT RATING		
					LAID IN GROUND	LAID IN DUCT	LAID IN FREE AIR
1	70	0.443	0.565	6.61	220	171	236
1	95	0.32	0.408	8.98	262	205	288
1	120	0.253	0.323	11.34	298	235	333
1	150	0.206	0.263	14.17	333	265	378
1	185	0.164	0.209	17.48	376	301	436
1	240	0.125	0.159	22.68	433	352	516
1	300	0.1	0.128	28.35	487	401	592
1	400	0.0778	0.099	37.79	549	459	688
1	500	0.0605	0.077	47.24	619	526	795
1	630	0.0469	0.06	59.52	693	598	911
2	25	1.2	1.53	3.58	139	103	131
2	35	0.868	1.107	5.01	167	123	160
2	50	0.641	0.817	7.15	199	148	195
2	70	0.443	0.565	10.02	243	184	244
2	95	0.32	0.408	13.59	292	222	300
2	150	0.206	0.263	21.46	372	288	394
2	185	0.164	0.209	26.47	420	332	455
2	240	0.125	0.159	34.34	487	387	537
2	300	0.1	0.128	42.93	590	475	586
3	25	1.2	1.53	2.36	112	84	108
3	35	0.868	1.107	3.31	135	101	131
3	50	0.641	0.817	4.72	161	120	157
3	70	0.443	0.565	6.61	199	149	199
3	95	0.32	0.408	8.98	238	180	242
3	120	0.253	0.323	11.34	271	207	282
3	150	0.206	0.263	14.17	302	235	319
3	185	0.164	0.209	17.48	342	268	367
3	240	0.125	0.159	22.68	396	313	433
3	300	0.1	0.128	28.35	445	356	496
3	400	0.0778	0.099	37.79	509	412	578
4	25	1.2	1.53	3.58	114	86	110
4	35	0.868	1.107	5.01	137	104	135
4	50	0.641	0.817	7.15	166	124	164
4	70	0.443	0.565	10.02	203	155	208
4	95	0.32	0.408	13.59	243	185	253
4	120	0.253	0.323	17.17	276	215	294
4	150	0.206	0.263	21.46	310	243	336
4	185	0.164	0.209	26.47	351	278	386
4	240	0.125	0.159	34.34	405	326	454
4	300	0.1	0.128	42.93	456	369	520
5	25	1.2	1.53	3.58	114	86	110
5	35	0.868	1.107	5.01	137	104	135
5	50	0.641	0.817	7.15	166	124	164
5	70	0.443	0.565	10.02	203	155	208

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

NA2XRY Aluminium
Conductor IEC 60502-1
XLPE SWA PVC 0.6/1kV Cable

ARMOURED CABLE

CJDL Cable



➤ APPLICATION

Can be used in underground installations since the cable is very suitable for mechanical stress and harsh operating conditions. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

➤ CHARACTERISTICS

Voltage Rating U₀/U

0.6/1kV

Temperature Range

Fixed: -5° C to +90° C

Minimum Bending Radius

15 x overall diameter

➤ CONSTRUCTION

Conductor

Class 2 stranded aluminium conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Filler

PVC (Polyvinyl Chloride)

Armour

Single core: AWA (Aluminium wire armour)

All other sizes: SWA (Galvanized round steel wire)

Sheath

PVC (Polyvinyl Chloride)

➤ STANDARDS

Generally to BS 5467, IEC 60502-1
Flame Retardant according to IEC/EN 60332-1-2

➤ CABLE LABORATORY

We have state-of-the-art laboratory facilities and cutting-edge testing equipment, supported by a strict quality control protocol throughout the entire production process. Every production batch undergoes comprehensive technical tests prior to shipment. Only products that meet the most stringent quality standards are approved for distribution. This ensures our products deliver outstanding stability, reliability and durability, fully complying with customers' technical specifications and requirements.

➤ COMPROMISO CON LA SOSTENIBILIDAD

En CJDL Cable asumimos un firme compromiso con la transición ecológica y la protección del medio ambiente. Impulsamos de manera activa la consecución de los objetivos de descarbonización, avanzando firmemente hacia un modelo de negocio libre de emisiones. Para ello, apostamos por la innovación tecnológica continua en eficiencia energética y reducción de emisiones contaminantes. Al mismo tiempo, optimizamos nuestros procesos de fabricación para minimizar el impacto ambiental, garantizando así un crecimiento sólido, responsable y sostenible de la empresa a largo plazo.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
1	70	1.1	1.3	19.6	525
1	95	1.1	1.3	21.1	620
1	120	1.2	1.3	22.7	730
1	150	1.4	1.4	26.2	935
1	185	1.6	1.5	27.7	1085
1	240	1.7	1.5	30.3	1310
1	300	1.8	1.6	33	1560
1	400	2	1.7	36.9	1995
1	500	2.2	1.7	40.3	2375
1	630	2.4	1.8	44.8	2963
2	25	0.9	1.3	23.2	850
2	35	0.9	1.4	26.4	1165
2	50	1	1.6	29.8	1390
2	70	1.1	1.7	34.3	1925
2	95	1.1	1.7	37.3	2270
2	150	1.4	1.8	45.9	2945
2	185	1.6	2	50	3990
2	240	1.7	2.1	55.4	4760
2	300	1.8	2.1	60.8	5600
3	25	0.9	1.4	25.4	1100
3	35	0.9	1.5	28	1300
3	50	1	1.5	28.1	1370
3	70	1.1	1.6	31.6	1700
3	95	1.1	1.7	35.6	2215
3	120	1.2	1.8	39	2610
3	150	1.4	1.9	43.1	3485
3	185	1.6	2	47.1	4065
3	240	1.7	2.1	52	4900
3	300	1.8	2.2	57.1	5750
3	400	2	2.4	64.3	7105
4	25	0.9	1.4	27.4	1265
4	35	0.9	1.5	30.3	1520
4	50	1	1.6	31.8	1655
4	70	1.1	1.7	36.6	2320
4	95	1.1	1.8	39.3	2755
4	120	1.2	1.9	44.4	3635
4	150	1.4	2	48.9	4280
4	185	1.6	2.1	53.7	5025
4	240	1.7	2.2	59.7	6105
4	300	1.8	2.4	65.3	7315
5	25	0.9	1.5	29.7	1530
5	35	0.9	1.6	32.9	1830
5	50	1	1.7	37.8	2535
5	70	1.1	1.8	43	3250

Laying conditions at trefoil formation are as below:
-Soil thermal resistivity 120° C.Cm/Watt
-Burial depth 0.5 m
-Ground temperature 15 ° C
-Air temperature 25 ° C
-Frequency 50 Hz

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 HZ	CONDUCTOR S.C.C FOR 1 SECOND KA	CURRENT RATING		
					LAID IN GROUND	LAID IN DUCT	LAID IN FREE AIR
1	70	0.443	0.565	6.61	220	171	236
1	95	0.32	0.408	8.98	262	205	288
1	120	0.253	0.323	11.34	298	235	333
1	150	0.206	0.263	14.17	333	265	378
1	185	0.164	0.209	17.48	376	301	436
1	240	0.125	0.159	22.68	433	352	516
1	300	0.1	0.128	28.35	487	401	592
1	400	0.078	0.099	37.79	549	459	688
1	500	0.061	0.077	47.24	619	526	795
1	630	0.047	0.06	59.52	693	598	911
2	25	1.2	1.53	2.4	139	103	131
2	35	0.868	1.107	3.3	167	123	160
2	50	0.641	0.817	4.7	199	148	195
2	70	0.443	0.565	6.6	243	184	244
2	95	0.32	0.408	8.9	292	222	300
2	150	0.206	0.263	14.1	372	288	394
2	185	0.164	0.209	17.4	420	332	455
2	240	0.125	0.159	22.6	487	387	537
2	300	0.1	0.128	28.2	590	475	586
3	25	1.2	1.53	2.4	112	84	108
3	35	0.868	1.107	3.3	135	101	131
3	50	0.641	0.817	4.7	161	120	157
3	70	0.443	0.565	6.6	199	149	199
3	95	0.32	0.408	8.9	238	180	242
3	120	0.253	0.323	11.3	271	207	282
3	150	0.206	0.263	14.1	302	235	319
3	185	0.164	0.209	17.48	342	268	367
3	240	0.125	0.159	22.6	396	313	433
3	300	0.1	0.128	28.2	445	356	496
3	400	0.078	0.099	37.6	509	412	578
4	25	1.2	1.53	2.4	114	86	110
4	35	0.868	1.107	3.3	137	104	135
4	50	0.641	0.817	4.7	166	124	164
4	70	0.443	0.565	6.6	203	155	208
4	95	0.32	0.408	8.9	243	185	253
4	120	0.253	0.323	11.3	276	215	294
4	150	0.206	0.263	14.1	310	243	336
4	185	0.164	0.209	17.4	351	278	386
4	240	0.125	0.159	22.6	405	326	454
4	300	0.1	0.128	28.2	456	369	520
5	25	1.2	1.53	2.4	114	86	110
5	35	0.868	1.107	3.3	137	104	135
5	50	0.641	0.817	4.7	166	124	164
5	70	0.443	0.565	6.6	203	155	208

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

