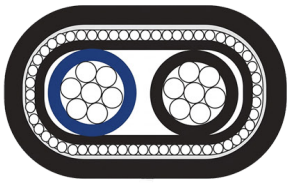
Aluminum Concentric Cable



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 Uo/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.

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DIMENSIONS

4-Core Aluminium Concentric Cable

Cable size	Conductor size (AAC)	Insulation thickness (XLPE)	Concentric conductor (AAAC 8000)	Outer sheath thickness (PVC)	Overall cable diameter	Cable mass
mm²	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)	
mm²	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
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

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