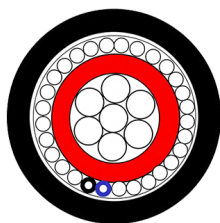


Concentric Cable (Aluminium and Copper Airdac Types)



➤ 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.

➤ CHARACTERISTICS

Rated voltage U_0/U

0.6/1kV

Operating temperature range

-15° C to +70° C

Minimum bending radius

8 × overall cable diameter

➤ 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

➤ STANDARDS

BS 7870, BS 6746, KS 04-1022

SANS 1507-6

➤ 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

Airdac Concentric Cable

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

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