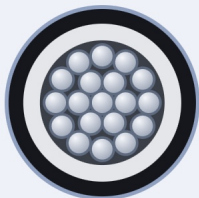


OVERHEAD COVERED CONDUCTOR · 11 KV TO 33 KV

MV Covered Conductor (MVCC)

AAAC conductor with triple-extruded XLPE covering



- AAAC, water-blocked
- Semi-conducting screen
- Inner XLPE (no carbon)
- Outer UV, anti-track XLPE

A stranded all-aluminium-alloy conductor, longitudinally water-blocked, with a semi-conducting screen and two XLPE covering layers extruded in one pass and bonded together. The outer layer resists UV, tracking and erosion. It keeps lines in service when branches, birds or wind-driven phase clashes would trip a bare line.

APPLICATIONS

11, 22 and 33 kV lines through forests and tree-lined roads, narrow corridors, coastal and polluted areas, and near buildings.

BENEFITS

Fewer tripping outages, smaller right-of-way, self-supporting on 60–70 m spans, lower cost than underground or aerial bunched cable.

⚠ Safety: the covering is not full insulation and is not earth-screened. Treat a covered conductor as a live bare conductor.

STANDARDS

EN 50397-1

IS 398 (Part 4) conductor

IEC 61089 / BS EN 50182

Utility specification

Conductor area (mm²)	Stranding (no./mm)	Conductor dia. (mm)	Conductor mass (kg/km)	Breaking load (kN)	DC res. 20 °C, max (Ω/km)	Overall dia. 11 kV (mm, ≈)	Overall dia. 33 kV (mm, ≈)
22	7 / 2.00	6.00	60.2	6.45	1.5410	11.2	14.1
34	7 / 2.50	7.50	94.0	10.11	0.9900	12.7	15.6
55	7 / 3.15	9.45	149.2	16.03	0.6210	14.7	17.5
80	7 / 3.81	11.43	218.3	23.41	0.4250	16.6	19.5
100	7 / 4.26	12.78	272.9	29.26	0.3390	18.0	20.8
148	19 / 3.15	15.75	406.9	43.50	0.2290	21.0	23.8
232	19 / 3.94	19.70	636.7	68.05	0.1471	24.9	27.8

Covering layer (nominal mm)	11 kV	22 kV	33 kV
Semi-conducting screen	0.3	0.3	0.4
Inner XLPE	1.2	1.32	2.43
Outer UV-resistant XLPE	1.1	1.1	1.2
Total radial covering	2.6	2.72	4.03

RATINGS & TESTS

System voltage: 11, 22, 33 kV (Um 12, 24, 36 kV)

Max. conductor temperature: 90 °C continuous

Tests: type, routine and acceptance to EN 50397-1, incl. tracking, UV, water tightness

Conductor data per IS 398 (Part 4) AAAC. Overall diameters are approximate (conductor plus nominal covering) and exclude the water-blocking layer. Other conductors (AL59, ACSR, AL59-ACS) and sizes on request. Current ratings are given in the GTP for the utility's site conditions; final values are confirmed in the GTP for each order.

Accessories

Insulators, clamps, piercing connectors and end caps to EN 50397-2

Enquiries

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