

Single Core AL 11kV cable

AL MV11 1C 95^# 8.5 PVCMDPE

Contact

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Nexans Ref.: XJNA22WPM01CXAA

Country Ref.: 1432

95 mm² Compacted Al conductor, XLPE insulation (with semiconductive screens), 8.5 kA (57.22) mm² Cu wire screen, (with waterblocking tape) PVC/MDPE sheath (OG/BK). 6.35/11 kV Made to AS/NZS 1429.1

DESCRIPTION

General Construction:

- **Conductor:** Aluminium multistrand compacted (Class 2)
- **Conductor Screen:** Semi-conductive XLPE conductor screen
- **Insulation:** TR-XLPE
- **Insulation Screen:** Semi-conductive XLPE insulation screen
- **Metallic Screen:** Copper Wire (with waterblocking tape)
- **Inner Sheath:** PVC
- **Sheath:** MDPE

Cable Type: Medium Voltage



STANDARDS

National AS/NZS 1125; AS/NZS 1429.1; AS/NZS 3808

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CHARACTERISTICS

Construction characteristics

Conductor material	Stranded aluminum
Type of conductor	Stranded compacted
Insulation	TR-XLPE
Screen	Copper wire
Inner sheath	PVC
Outer sheath	MDPE

Dimensional characteristics

Conductor cross-section	95 mm ²
Conductor diameter	11.43 mm
Diameter over insulation	19.1 mm
Diameter over screen	20.7 mm
Number of screen wires (nb x mm Ø)	26 x 1.69 mm Ø
Screen section	57.22 mm ²
Nominal overall diameter	37.9
Approximate weight	126.4 kg/100m
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.193 Ohm/km
Resistance of the screen	0.31 Ohm/km
Permissible short circuit current conductor 1s	9 kA
Permissible short circuit current screen 1s	8.5 kA
Capacitance (All Main Cores - Screen)	0.334 µF / km
Reactance at 50 Hz	0.12 Ohm/km

Mechanical characteristics

Maximum Pull Tension of Conductor	5 kN
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Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	530 mm
Minimum Bend Radius - Installed	350 mm