

Single Core AL 11kV cable

AL MV11 1C 185^ #10.0 PVCMDPE

Contact

Sales and Customer Solutions
sales.nz@nexans.com

Nexans Ref.: XJNA25WPM01CXAA

Country Ref.: 1696

185 mm² Compacted Al conductor, XLPE insulation (with semiconductive screens), 10.0 kA,(67.31 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	185 mm ²
Conductor diameter	15.93 mm
Diameter over insulation	23.6 mm
Diameter over screen	25.2 mm
Number of screen wires (nb x mm Ø)	48 x 1.35 mm Ø
Screen section	68.71 mm ²
Nominal overall diameter	39.5
Approximate weight	169.8 kg/100m
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.099 Ohm/km
Resistance of the screen	0.263 Ohm/km
Permissible short circuit current conductor 1s	17.5 kA
Permissible short circuit current screen 1s	10.0 kA
Capacitance (All Main Cores - Screen)	0.431 µF / km
Reactance at 50 Hz	0.106 Ohm/km

Mechanical characteristics

Maximum Pull Tension of Conductor	9 kN
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Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	600 mm
Minimum Bend Radius - Installed	400 mm