

Three Core AL 11kV cable

AL MV11 3C 185^A 10.0 PVCMDPE

Contact

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Nexans Ref.: XJNA25PU003CXAA

Country Ref.: 9130

3 x 185 mm² Compacted Al conductor, XLPE insulation (with semiconductive screens), 10.0 kA, (22.44 mm²) Cu wire screen, Laid up, PVC/MDPE sheath (OG/BK).
6.35/11 kV Made to PowerCo 393S079A & 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
- **Inner Sheath:** PVC
- **Sheath:** MDPE

Cable Type: Medium Voltage



STANDARDS

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

CHARACTERISTICS

Construction characteristics

Conductor material	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)	40 x 0.85 mm Ø
Screen section	67.32 mm ²
Nominal overall diameter	68.7 mm
Approximate weight	453.6 kg/100m
Number of cores	-

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.164 Ohm/km
Resistance of the screen	0.267 Ohm/km
Permissible short circuit current conductor 1s	17.5 kA
Permissible short circuit current screen 1s	10.0 kA

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Electrical characteristics

Capacitance (All Main Cores - Screen)	0.431 μ F / km
Reactance at 50 Hz	0.095 Ohm/km

Mechanical characteristics

Maximum Pull Tension of Conductor	20 kN
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Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	820 mm
Minimum Bend Radius - Installed	1240 mm