

Three Core AL 11kV cable

AL MV11 3C 300[^] 13.1 PVCMDPE

Contact

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Nexans Ref.: XJNA27VT003CXAA

Country Ref.: 4426

3 x 300 mm² Compacted Al conductors, XLPE insulation (with semiconductive screens), 13.1 kA (29.39 mm²) Cu wire screens, Laid up, PVC/MDPE sheath (OG 1.2/ BK 2.5 (Min Pt's)), 6.35/11 kV, Made to Vector ENS-0127 & 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	300 mm ²
Conductor diameter	20.33 mm
Diameter over insulation	28.2 mm
Diameter over screen	29.8 mm
Number of screen wires (nb x mm Ø)	36 x 1.03 mm Ø
Screen section	88.17 mm ²
Nominal overall diameter	79.0 mm
Approximate weight	620.8 kg/100m
Number of cores	-

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.1 Ohm/km
Resistance of the screen	0.202 Ohm/km
Permissible short circuit current conductor 1s	28.3 kA
Permissible short circuit current screen 1s	13.1 kA

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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Electrical characteristics

Capacitance (All Main Cores - Screen)	0.53 μ F / km
Reactance at 50 Hz	0.09 Ohm/km

Mechanical characteristics

Maximum Pull Tension of Conductor	20 kN
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Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	950 mm
Minimum Bend Radius - Installed	1420 mm