

# Single Core AL 11kV cable

AL MV11 1C 300^# 13.0 PVCMDPE

## Contact

Sales and Customer Solutions  
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**Nexans Ref.:** XJNA27VT001CXAA

**Country Ref.:** 6930

300 mm<sup>2</sup> Compacted Al conductor, XLPE insulation (with semiconductive screens), 13.0 kA,(87.5 mm<sup>2</sup>) Cu wire screen (with water blocking tape), PVC/MDPE sheath (OG 1.2/BK 2.5 (Min Pt's)).6.35/11 kV Made to Vector ENS-0127

## 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	300 mm <sup>2</sup>
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)	40 x 1.69 mm Ø
Screen section	87.5 mm <sup>2</sup>
Nominal overall diameter	41.1
Approximate weight	268.8 kg/100m
Number of cores	1

### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.06 Ohm/km
Resistance of the screen	0.201 Ohm/km
Permissible short circuit current conductor 1s	28.4 kA
Permissible short circuit current screen 1s	13.0 kA
Capacitance (All Main Cores - Screen)	0.53 µF / km
Reactance at 50 Hz	0.108 Ohm/km

### Mechanical characteristics

Maximum Pull Tension of Conductor	15 kN
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### Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	790 mm
Minimum Bend Radius - Installed	530 mm