

# Single Core AL 11kV cable

AL MV11 1C 35<sup>A</sup> 3.3 MDPE

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

**Nexans Ref.:** XJIA18AAM01CXAA

**Country Ref.:** 3434

35 mm<sup>2</sup> Compacted Al conductor, XLPE insulation (with semiconductive screens), 3.3 kA (22.21) mm<sup>2</sup> Cu wire screen, MDPE sheath (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
- **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	-
Outer sheath	MDPE

### Dimensional characteristics

Conductor cross-section	35 mm <sup>2</sup>
Conductor diameter	6.91 mm
Diameter over insulation	14.6 mm
Diameter over screen	16.2 mm
Number of screen wires (nb x mm Ø)	40 x 0.85 mm Ø
Screen section	22.21 mm <sup>2</sup>
Nominal overall diameter	36.2
Approximate weight	60.6 kg/100m
Number of cores	1

### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.524 Ohm/km
Resistance of the screen	0.769 Ohm/km
Permissible short circuit current conductor 1s	3.3 kA
Permissible short circuit current screen 1s	3.3 kA
Capacitance (All Main Cores - Screen)	0.234 µF / km
Reactance at 50 Hz	0.138 Ohm/km

### Mechanical characteristics

Maximum Pull Tension of Conductor	2 kN
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### Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	400 mm
Minimum Bend Radius - Installed	270 mm