

Three Core AL 11kV cable

AL MV11 3C 95^A 8.5 PVCMDPE

Contact

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Country Ref.: 2155

3 x 95 mm² Compacted Al conductors, XLPE insulation (with semiconductive screens), 8.5 kA, (19.1 mm²) Cu wire screens, Laid up, 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
- **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
Conductor flexibility	Class 2
Conductor shape	Circular

Dimensional characteristics

Conductor cross-section	95 mm ²
Conductor diameter	11.43 mm
Diameter over insulation	19.1 mm
Diameter over screen	20.7 mm
Number of screen wires (nb x mm Ø)	34 x 0.85 mm Ø



Conductor flexibility
Class 2



Rated Voltage U₀/U (Um)

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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Dimensional characteristics

Screen section	57.3 mm ²
Nominal overall diameter	54.3 mm
Approximate weight	282.9 kg/100m
Number of cores	3

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.32 Ohm/km
Resistance of the screen	0.32 Ohm/km
Permissible short circuit current conductor 1s	9 kA
Permissible short circuit current screen 1s	8.5 kA
Capacitance (All Main Cores - Screen)	0.334 μF / km
Reactance at 50 Hz	0.105 Ohm/km
Rated Voltage U ₀ /U (Um)	-

Mechanical characteristics

Maximum Pull Tension of Conductor	14 kN
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Usage characteristics

Minimum Bend Radius - During Installation (under Tension)	980 mm
Minimum Bend Radius - Installed	650 mm



Conductor flexibility
Class 2



Rated Voltage U₀/U (Um)

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