

Three Core Al 6.35/11kV XLPE Insulated HD Cu Screened PVC HDPE for URD Application

STANDARD: AS/NZS 1429.1 AS/NZ 4026

RATED VOLTAGE: 6.35/11 (12) kV

FAULT LEVEL: Up to 10kA for 1 sec or to customer requirements

IMPULSE VOLTAGE: 95kV

TEMPERATURE RANGE:

In continuous operations Max. conductor temp 90°C

Lowest cable temperature during installation: -10°C and below 0°C special precautions must be taken.

BENDING RADIUS:

During installation: 25 x D. When installed: 15 x D (HDPE sheathed cables)

D = Overall diameter of cable

DESIGN

CONDUCTOR:

Stranded, round and compacted aluminium complying with AS/NZS 1125

SEMI-CONDUCTIVE CONDUCTOR SCREEN:

Extruded cross-linked compound

INSULATION:

XLPE complying with AS/NZS 3808

SEMI-CONDUCTIVE INSULATION SCREEN:

Extruded hand strippable semi-conductive cross-linked compound

METALLIC SCREEN:

Circular copper wires

INNER SHEATH:

PVC, Orange

OUTER SHEATH:

HDPE, Black. Termite protection in the form of chemical additive also available.





Product Code	Conductor size mm ²	Nominal insulation thickness mm	Diameter over insulation mm	Number & diameter of screen wires no./mm	Overall Diameter mm	Mass (approx.) kg/km	Maximum pulling tension kN	Minimum Bending Radius	
								During installation mm	Installed mm
3MV095A11HH	95	3.4	19.5	36/0.85	52.5	2850	14.4	1380	830
3MV185A11HH	185	3.4	24.3	40/0.85	63.1	4050	25	1660	990
3MV240A11HH	240	3.4	26.5	40/0.85	68.8	4750	25	1780	1070
3MV300A11HH	300	3.4	28.6	40/0.85	72.7	5500	25	1910	1140

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Electrical Data

Product Code	Conductor size	Max. conductor DC resistance at 20°C	Conductor AC resistance at 50Hz and 90°C	Inductive reactance at 50Hz and 90°C	Insulation resistance at 20°C	Charging current per phase	Dielectric loss per phase	Zero sequence resistance at 20°C	Zero sequence reactance at 50Hz
	mm ²	Ω/km	Ω/km	Ω/km	MΩ.km	A/km	W/km	Ω/km	Ω/km
3MV095A11HH	95	0.320	0.411	0.104	7400	0.646	16.4	1.20	0.0581
3MV185A11HH	185	0.164	0.211	0.0940	5700	0.844	21.4	0.961	0.0486
3MV240A11HH	240	0.125	0.162	0.0909	5200	0.934	23.7	0.922	0.0456
3MV300A11HH	300	0.100	0.130	0.0984	4700	1.02	25.9	0.897	0.0432

Current Ratings

Conductor Size mm ²	Continuous current carrying capacity A		Conductor fault current carrying capacity for 1 second kA	Short circuit current rating of the screen 1 sec. kA
	in ground 	in air 		
95	232	231	9.0	9.1
185	336	348	17.5	10.1
240	389	410	22.7	10.1
300	439	469	28.4	10.1