

Three Core Triplex Al 6.35/11kV XLPE Insulated HD Cu Screened HDPE Sheathed

STANDARD: AS/NZS 1429.1 & AS/NZS 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 CD. When installed: 15 x CD (HDPE sheathed cables)
CD = Diameter of phase 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

BINDER: Water blocking taped.

OUTER SHEATH: Black HDPE as standard.





Product Code	Conductor size mm ²	Nominal insulation thickness mm	Diameter over insulation mm	Number & diameter of screen wires no./mm	Diameter of phase cable mm	Overall diameter (approx.) mm	Mass (approx.) kg/km	Max. pulling tension kN	Minimum bending radius			
									Phase Cable		Cable bundle	
									During installation	Installed	During installation	Installed
3MV050A11TH	50	3.4	16.1	23/1.35	23.4	50.4	2400	7.5	590	350	760	500
3MV070A11TH	70	3.4	17.9	32/1.35	25.9	55.9	3100	11	650	390	840	560
3MV095A11TH	95	3.4	19.5	43/1.35	28.1	60.5	3900	14	700	420	910	610
3MV120A11TH	120	3.4	21.0	48/1.53	29.7	64.0	4500	18	740	450	960	640
3MV150A11TH	150	3.4	22.5	48/1.53	31.3	67.5	4800	23	780	470	1010	670
3MV185A11TH	185	3.4	24.3	48/1.53	32.8	70.6	5200	25	820	490	1060	710
3MV240A11TH	240	3.4	26.5	48/1.53	35.1	75.7	5900	25	880	530	1140	760
3MV300A11TH	300	3.4	28.6	48/1.53	37.4	80.6	6500	25	930	560	1210	810
3MV400A11TH	400	3.4	31.5	48/1.53	40.5	87.2	7500	25	1010	610	1310	870
3MV500A11TH	500	3.4	35.3	48/1.53	44.6	103.0	9700	25	1120	670	1540	1030

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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
3MV050A11TH	50	0.641	0.822	0.130	9500	0.505	12.8	1.19	0.0722
3MV070A11TH	70	0.443	0.568	0.121	8300	0.580	14.7	0.837	0.0636
3MV095A11TH	95	0.320	0.411	0.117	7400	0.646	16.4	0.614	0.0595
3MV120A11TH	120	0.253	0.325	0.113	6800	0.708	18.0	0.516	0.0558
3MV150A11TH	150	0.206	0.265	0.109	6300	0.770	19.6	0.469	0.0528
3MV185A11TH	185	0.164	0.211	0.105	5700	0.844	21.4	0.429	0.0492
3MV240A11TH	240	0.125	0.161	0.101	5200	0.934	23.7	0.340	0.0462
3MV300A11TH	300	0.100	0.130	0.0984	4700	1.02	25.9	0.365	0.0438
3MV400A11TH	400	0.0778	0.102	0.0943	4200	1.14	28.9	0.343	0.0403
3MV500A11TH	500	0.0617	0.0817	0.0926	3700	1.30	32.9	0.327	0.0391

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 		
50	132	125	4.7	4.6
70	163	157	6.6	6.5
95	197	194	9.0	8.8
120	223	221	11.3	10.0
150	249	247	14.2	10.0
185	281	279	17.5	10.0
240	323	323	22.7	10.0
300	372	380	28.4	10.0
400	422	434	37.8	10.0
500	474	490	47.3	10.0