

Three Core Triplex Cu 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 copper 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
									mm	mm	mm	mm
3MV035C11TH	35	3.4	14.9	24/1.35	22.7	49.0	3000	7.4	570	340	730	490
3MV050C11TH	50	3.4	16.1	34/1.35	24.0	51.7	3800	11	600	360	780	520
3MV070C11TH	70	3.4	17.9	30/1.70	26.8	57.6	5100	15	670	400	860	580
3MV095C11TH	95	3.4	19.5	38/1.52	28.1	60.5	5900	20	700	420	910	610
3MV120C11TH	120	3.4	21.0	48/1.53	29.7	64.0	6700	25	740	450	960	640
3MV150C11TH	150	3.4	22.5	48/1.53	31.3	67.5	7500	25	780	470	1010	670
3MV185C11TH	185	3.4	24.3	48/1.53	32.8	70.6	8600	25	820	490	1060	710
3MV240C11TH	240	3.4	26.5	48/1.53	35.1	75.7	10300	25	880	530	1140	760
3MV300C11TH	300	3.4	28.6	48/1.53	37.4	80.6	12100	25	930	560	1210	810
3MV400C11TH	400	3.4	31.5	48/1.53	40.5	87.2	14600	25	1010	610	1310	870
3MV500C11TH	500	3.4	35.3	48/1.53	44.6	96.0	18900	25	1110	670	1440	960

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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
3MV035C11TH	35	0.524	0.668	0.139	11000	0.455	11.5	1.04	0.0792
3MV050C11TH	50	0.387	0.494	0.132	9500	0.505	12.8	0.756	0.0732
3MV070C11TH	70	0.268	0.342	0.123	8300	0.580	14.7	0.530	0.0648
3MV095C11TH	95	0.193	0.247	0.117	7400	0.646	16.4	0.456	0.0595
3MV120C11TH	120	0.153	0.196	0.113	6800	0.708	18.0	0.417	0.0558
3MV150C11TH	150	0.124	0.159	0.1090	6300	0.770	19.6	0.388	0.0528
3MV185C11TH	185	0.0991	0.128	0.1050	5700	0.844	21.4	0.364	0.0492
3MV240C11TH	240	0.0754	0.098	0.1010	5200	0.934	23.7	0.341	0.0462
3MV300C11TH	300	0.0601	0.0791	0.0984	4700	1.02	25.9	0.326	0.0438
3MV400C11TH	400	0.0470	0.0632	0.0943	4200	1.14	28.9	0.313	0.0403
3MV500C11TH	500	0.0373	0.0516	0.0925	3700	1.30	32.9	0.304	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 		
35	145	135	5.0	5.0
50	172	165	7.1	7.1
70	209	202	10.0	10.0
95	252	248	13.6	10.0
120	285	282	17.1	10.0
150	318	315	21.4	10.0
185	357	354	26.4	10.0
240	408	408	34.3	10.0
300	467	478	42.9	10.0
400	524	539	57.2	10.0
500	581	602	71.5	10.0