

Three Core Power Cable For URD Application 6.35/11kV



STANDARD: AS/NZS 4026

RATED VOLTAGE: 6.35/11(12)kV

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

IMPULSE VOLTAGE: 95kV

TEMPERATURE RANGE:

In continuous operation Max. conductor temp 90°C.

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

BENDING RADIUS:

During installation: 25x 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 cross-linked compound

METALLIC SCREEN:

Circular copper wires

INNER SHEATH:

PVC, Orange

OUTER SHEATH:

HDPE, Black



Electrical Data

Conductor size	Maximum conductor DC resistance at 20°C	Cond.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 resistance at 50Hz
mm ²	Ω/km	Ω/km	Ω/km	MΩ.km	A/km	W/km	Ω/km	Ω/km
95	0.320	0.411	0.104	7400	0.646	16.4	1.20	0.0581
185	0.164	0.211	0.0940	5700	0.844	21.4	0.961	0.0486
240	0.125	0.162	0.0909	5200	0.934	23.7	0.922	0.0456
300	0.100	0.130	0.0984	4700	1.02	25.9	0.897	0.0432

Current Ratings

Conductor size	Continuous current-carrying capacity, A		Conductor fault current carrying capacity for 1 second	Short circuit current rating of the screen 1sec
	in ground	In air		
mm ²			kA	kA
95	232	231	9.0	4.8
185	336	348	17.5	6.8
240	389	410	22.7	9.1
300	439	469	28.4	10.1

6.35/11kV Three Core PVC/HDPE Sheathed URD

Aluminium Conductor

Product code	Conductor size	Nominal thickness of insulation	Diameter over insulation	Number & Nominal Diameter of Screen Wires	Overall diameter (approx.)	Mass (approx.)	Maximum pulling tension	Minimum bending radius	
								During installation	Installed
	mm ²	mm	mm	no./mm	mm	kg/km	kN	mm	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