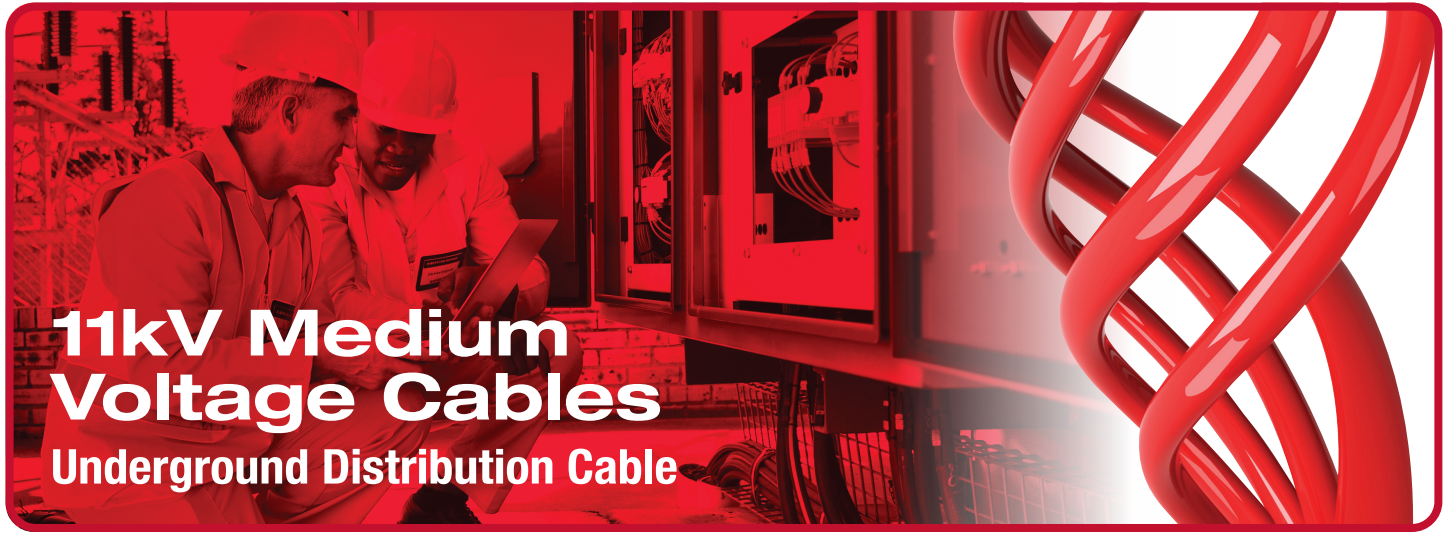




11kV Medium Voltage Cables

Underground Distribution Cable

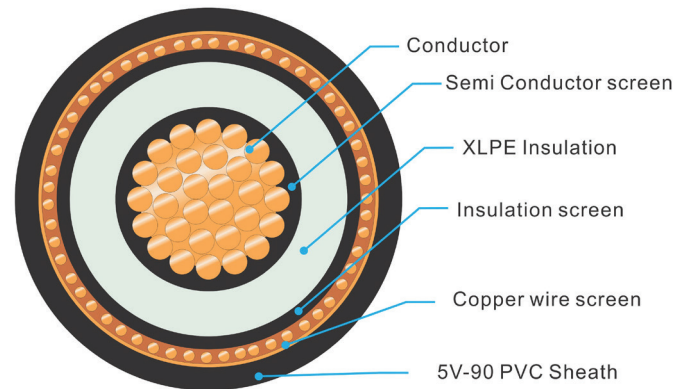
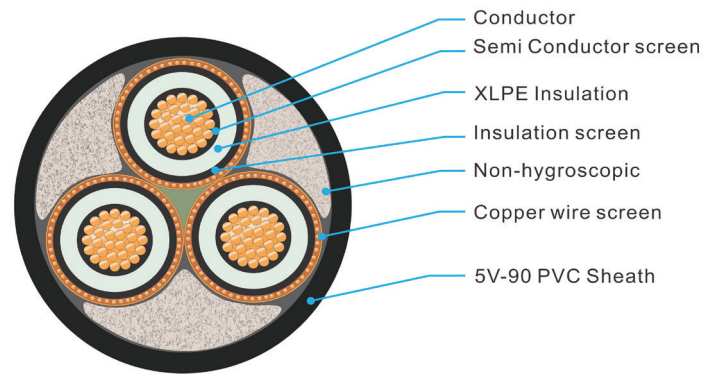
DESCRIPTION: Medium Voltage Copper, Single or 3 Core, Screened PVC

APPLICATION: Underground Distribution Cable

VOLTAGE RATING: 6.35/11kV

CONSTRUCTION

Conductors:	Compacted Stranded Annealed
Conductor Screen Material:	Extruded Semi-Conductive
Insulation:	X-90
Insulation Material:	Extruded, Semi-Conductive
Metallic Conductor Screen Material:	Copper Wire Screen
Sheath:	5V-90 PVC
Operating Temp:	90°C
Short Circuit Temp:	250°C for 5 Seconds
Sheath Colour:	Black
Other availabilities:	Nylon & HDPE Sheath, SWA & Aluminium Conductor



STANDARDS

- AS/NZS 1429.1
- AS/NZS 1125 – Class 2/IEC60288 (Plain annealed Copper)
- AS/NZS 3808 – Insulation and Sheath
- AS/NZS 1670 – Markings

SPECIFICATIONS

- See over for data.

TYPICAL CABLE MARKINGS:

- ELECTRA CABLES 2020 X-90 ELECTRIC CABLES 11kV/3950-10.1 XLPE 6.35/11kV 3 x 95mm² Cu UV RoHS

ELECTRA CABLES



11kV Medium Voltage Cables

Underground Distribution Cable

SPECIFICATIONS

Size mm ²	Part No.	Diameter of Conductor ±0.1mm	Max Conductor DC Resistance @ 20°C Ω / km	Conductor Screen Thickness (mm)	Insulation Thickness (mm)	Sheath Thickness (mm)	Overall Diameter of ±10% mm
11kV SINGLE CORE Cu							
25	11KV1C25XLPE	6.0	0.727	0.8	3.4	1.8	22.3
35	11KV1C35XLPE	7.0	0.524	0.8	3.4	1.8	24.3
50	11KV1C50XLPE	8.1	0.387	0.8	3.4	1.8	25.4
70	11KV1C70XLPE	9.7	0.268	0.8	3.4	1.8	27.7
95	11KV1C95XLPE	11.4	0.193	0.8	3.4	1.8	28.7
120	11KV1C120XLPE	12.9	0.153	0.8	3.4	1.9	30.4
150	11KV1C150XLPE	14.5	0.124	0.8	3.4	1.9	32.0
185	11KV1C185XLPE	16.1	0.0991	0.8	3.4	2.0	33.8
240	11KV1C240XLPE	18.4	0.0754	0.8	3.4	2.0	36.1
300	11KV1C300XLPE	20.4	0.0601	0.8	3.4	2.1	38.3
400	11KV1C400XLPE	23.2	0.0470	0.8	3.4	2.2	41.3
500	11KV1C500XLPE	26.3	0.0366	0.8	3.4	2.3	44.6
11kV THREE CORE Cu							
35	11KV3C35XLPE	7.0	0.524	0.8	3.4	2.4	46.2
50	11KV3C50XLPE	8.1	0.384	0.8	3.4	2.5	48.5
70	11KV3C70XLPE	9.7	0.268	0.8	3.4	2.6	52.0
95	11KV3C95XLPE	11.4	0.193	0.8	3.4	2.7	55.7
120	11KV3C120XLPE	12.9	0.153	0.8	3.4	2.8	58.9
150	11KV3C150XLPE	14.5	0.124	0.8	3.4	2.9	62.4
185	11KV3C185XLPE	16.1	0.0991	0.8	3.4	3.1	65.8
240	11KV3C240XLPE	18.4	0.0754	0.8	3.4	3.2	70.8

CURRENT RATINGS

Size mm ²	Conductor kA	Screen kA
6.35/11kV SINGLE CORE Screened & PVC Sheathed Fault current carrying capacity for 1 second		
25	3.57	3.62
35	5	5.09
50	7.15	7.22
70	10	10.1
95	13.6	10.1
120	17.1	10.2
150	21.4	10.2
185	26.4	10.2
240	34.3	10.2
300	42.9	10.2
400	57.2	10.2
500	71.5	10.2
6.35/11kV THREE CORE Ind. Screened & PVC Sheathed Fault current carrying capacity for 1 second		
25	3.57	3.79
35	5	5.05
50	7.15	7.32
70	10	10.1
95	13.6	10.1
120	17.1	10.1
150	21.4	10.1
185	26.4	10.1
240	34.3	10.1
300	42.9	10.1
400	57.2	10.1
500	71.5	10.1

INSTALLATION

Size mm²	Max. Pulling Tension kN	Min. Bending Radius	
		During Pulling mm	Set in Position mm
6.35/11kV SINGLE CORE Screened & PVC Sheathed Copper Conductors, up to 10kA Fault Level			
25	1.8	380	250
35	2.5	420	280
50	3.5	440	290
70	4.9	480	320
95	6.7	500	330
120	8.4	530	350
150	11	560	370
185	13	590	390
240	17	640	420
300	21	680	450
400	28	740	490
500	35	800	530

Size mm²	Max. Pulling Tension kN	Min. Bending Radius	
		During Pulling mm	Set in Position mm
6.35/11kV THREE CORE Screened & PVC Sheathed Copper Conductors, up to 10kA Fault Level			
25	5.3	760	510
35	7.4	800	540
50	11	850	570
70	15	920	610
95	20	1000	660
120	25	1060	710
150	32	1120	750
185	39	1190	790
240	50	1290	860
300	63	1380	920
400	84	1520	1010
500	105	1640	1090

ELECTRA CABLES



For the latest information and details visit:
www.electracables.com.au