



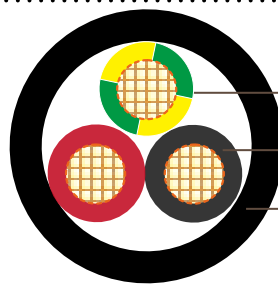
XLPE Insulated, PVC Sheathed 2 core+E Unarmored Cables, 0.6/1kV

Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Standard

AS/NZS 5000.1
AS/NZS 3008
AS/NZS 1125



Plain annealed copper conductor
XLPE X-90 insulation
PVC sheath

Cable Construction

Conductor: Plain annealed copper.

Insulation: XLPE X-90.

Insulation colour: 2C + E - Red, Black, Green/yellow

Sheath: Polyvinylchloride compound PVC 5V-90

Sheath colour: Black, other colors are available upon request

Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
	Nominal Area mm ²	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km
10	80	107	82	1.83	2.33	0.084	1.68
16	107	139	107	1.51	1.47	0.081	2.95
25	143	182	139	0.727	0.927	0.081	1.86
35	160	130	160	0.524	0.669	0.0786	1.35
50	195	160	190	0.387	0.494	0.0751	1.00



Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
	Nominal Area mm ²	Unenclosed In Air A	Buried Direct A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km
70	250	200	235	0.268	0.343	0.0741	0.703
95	310	240	285	0.193	0.248	0.0725	0.520
120	360	285	325	0.153	0.197	0.0713	0.423

Cable Parameter

Nom. conductor area mm ²	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm ²	Nom. earth conductor insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
10	7/1.35	0.7	4	0.7	1.4	14.9	380
16	7/1.70	0.7	6	0.7	1.4	16.6	520
25	7/2.14	0.9	6	0.7	1.4	20.2	750
35	7/2.65	0.9	10	0.7	1.4	23.0	985
50	19/1.89	1.0	16	0.7	1.4	24.1	1310
70	19/2.24	1.1	25	0.9	1.4	29.8	1860
95	19/2.65	1.1	25	0.9	1.5	31.6	2415
120	19/2.94	1.2	35	0.9	1.6	35.5	3055