



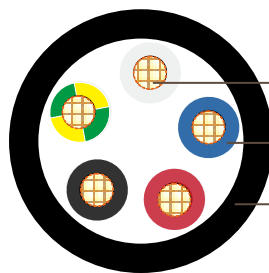
### XLPE Insulated, PVC Sheathed 4 core+E Unarmored Cables 0.6/1kV

#### 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:** 4C + E - Red, White, Blue, 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 <sup>2</sup>	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	68	91	68	1.83	2.33	0.084	4.05
16	91	118	89	1.15	1.47	0.081	2.55
25	121	155	118	0.727	0.927	0.081	1.61
35	149	182	144	0.524	0.669	0.079	1.17
50	187	219	171	0.387	0.494	0.075	0.868



## Australian Standard

Conductor	Current Ratings			Electrical Characteristics			
	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	Three Phase Voltage Drop @90°C mV/Am
70	237	268	214	0.268	0.343	0.074	0.609
95	292	321	257	0.193	0.248	0.073	0.450
120	305	250	275	0.153	0.197	0.0713	0.366
150	350	280	310	0.124	0.160	0.0718	0.307
185	405	325	355	0.0991	0.129	0.0720	0.259
240	480	385	420	0.0754	0.0998	0.0709	0.216

## Cable Parameter

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. earth conductor area mm <sup>2</sup>	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	18.4	620
16	7/1.70	0.7	6	0.7	1.4	21.1	900
25	7/2.14	0.9	6	0.7	1.4	24.7	1300
35	7/2.65	0.9	10	0.7	1.4	27.8	1750
50	19/1.89	1.0	16	0.7	1.4	29.6	2300
70	19/2.24	1.1	25	0.9	1.4	35.1	3400
95	19/2.65	1.1	25	0.9	1.5	39.1	4400
120	19/2.94	1.2	35	0.9	1.6	41.8	4200
150	19/3.28	1.4	50	1.0	1.7	43.0	5250
185	37/2.65	1.6	70	1.1	1.8	48.4	6620
240	37/2.94	1.7	95	1.1	2.0	54.5	8720