



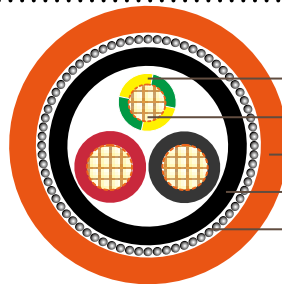
### XLPE Insulated, PVC Sheathed 2 core+E Armored Cables, 0.6/1kV

#### 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



XLPE X-90 insulation  
Plain annealed copper conductor  
PVC sheath  
PVC bedding  
Galvanised steel wire armour

#### Cable Construction

**Conductor:** Plain annealed copper

**Insulation:** XLPE X-90.

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

**Bedding:** Polyvinylchloride compound PVC 5V-90

**Bedding colour:** Black

**Armour:** Galvanised Steel Wire

**Sheath:** Polyvinylchloride compound PVC 5V-90

**Sheath colour:** Orange, 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
16	97	130	100	1.15	1.47	0.0805	2.95
25	130	170	130	0.727	0.927	0.0808	1.86



## Australian Standard

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
35	160	205	160	0.524	0.669	0.0786	1.35
50	195	245	190	0.387	0.494	0.0751	1.00
70	250	300	235	0.268	0.343	0.0741	0.703
95	310	360	285	0.193	0.248	0.0725	0.520
120	360	410	325	0.153	0.197	0.0713	0.423

## 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. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
16	7/1.70	0.7	6	0.7	15.3	1.25	21.6	1100
25	7/2.14	0.9	6	0.7	19.2	1.25	25.8	1310
35	7/2.65	0.9	10	0.7	21.3	1.6	26.8	1765
50	19/1.89	1.0	16	0.7	24.1	1.6	29.7	2185
70	19/2.24	1.1	25	0.9	28.2	1.6	33.6	2745
95	19/2.65	1.1	25	0.9	31.7	2.0	37.7	3650
120	19/2.94	1.2	35	0.9	35.4	2.0	41.8	4600