



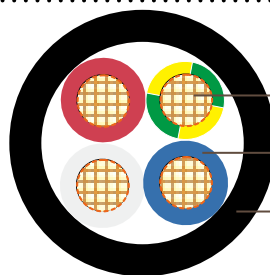
XLPE Insulated, PVC Sheathed 3 core+E Unarmored Cables 0.6/1kV

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:** 3C + E – Red, White, Blue, 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	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			
	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	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	0.16	0.0718	0.307
185	405	325	355	0.0991	0.129	0.072	0.259
240	480	385	420	0.0754	0.0998	0.0709	0.216

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	16.0	475
16	7/1.70	0.7	6	0.7	1.4	18.3	690
25	7/2.14	0.9	6	0.7	1.4	21.8	1020
35	7/2.65	0.9	10	0.7	1.4	26.9	1400
50	19/1.89	1.0	16	0.7	1.4	30.7	1900
70	19/2.24	1.1	25	0.9	1.4	35.9	2600
95	19/2.65	1.1	25	0.9	1.5	38.0	3050
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