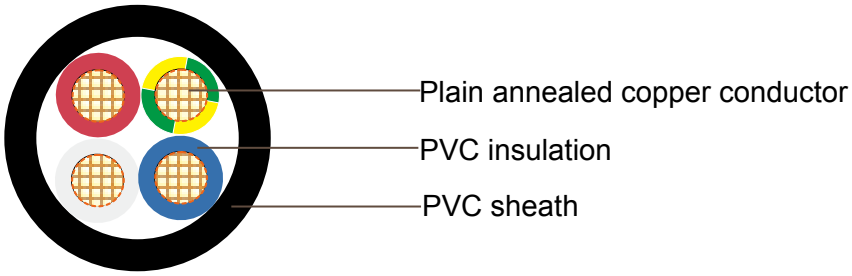
PVC Insulated, PVC Sheathed 3 core+E Unarmored Cables, 0.6/1kV

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



Cable Construction

Conductor: Plain annealed copper
Insulation: Polyvinylchloride compound PVC V-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 @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
1.5	15	13	19	13.6	16.5	0.111	28.6
2.5	22	18	26	7.41	9.01	0.102	15.6
4	29	24	34	4.61	5.61	0.102	9.71
6	37	31	43	3.08	3.75	0.0967	6.49
10	51	42	57	1.83	2.23	0.0906	3.86

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 @75°C Ohm/km	Reactance Ohm/km	Three Phase Voltage Drop @75°C mV/Am
16	68	56	74	1.15	1.40	0.0861	2.43
25	91	79	96	0.727	0.884	0.0853	1.54
35	110	92	115	0.524	0.638	0.0826	1.11
50	135	110	140	0.387	0.471	0.0797	0.829
70	170	140	175	0.268	0.327	0.0770	0.583
95	215	165	210	0.193	0.236	0.0766	0.431
120	245	195	240	0.153	0.188	0.0743	0.351
150	280	225	270	0.124	0.153	0.0745	0.296
185	325	260	310	0.0991	0.123	0.0744	0.251
240	385	305	370	0.0754	0.0955	0.0735	0.210

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. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	11.5	190
2.5	7/0.67	0.8	2.5	0.7	12.6	250
4	7/0.85	1.0	2.5	0.7	14.2	350
6	7/1.04	1.0	2.5	0.7	15.4	400
10	7/1.35	1.0	4.0	1.0	17.5	605
16	7/1.70	1.0	6.0	1.0	19.8	825
25	7/2.14	1.2	6.0	1.0	23.5	1190
35	7/2.65	1.2	6.0	1.0	25.0	1535
50	19/1.89	1.4	16	1.0	30.4	2175
70	19/2.24	1.4	25	1.2	33.0	2870
95	19/2.65	1.6	25	1.2	38.4	3880
120	19/2.94	1.6	35	1.2	40.6	4640
150	19/3.28	1.8	50	1.4	45.2	5500
185	37/2.65	2.0	70	1.4	50.3	6930
240	37/2.94	2.2	95	1.6	57.2	9170