



PVC Insulated, PVC Sheathed 4 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



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

Cable Construction

Conductor: Plain annealed copper.

Insulation: Polyvinylchloride compound PVC V-90.

Insulation colour: 4C + E - Red, White, Blue, 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 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
1.5	15	24	19	13.6	16.5	0.111	28.6
2.5	22	34	26	7.41	9.01	0.102	15.6



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
4	29	44	34	4.61	5.61	0.102	9.71
6	37	55	43	3.08	3.75	0.0967	6.49
10	51	74	57	1.83	2.23	0.0906	3.86
16	68	96	74	1.15	1.40	0.0861	2.43
25	91	125	96	0.727	0.884	0.0853	1.54
35	110	150	115	0.524	0.638	0.0826	1.11
50	135	180	140	0.387	0.471	0.0797	0.829
70	170	220	175	0.268	0.327	0.0770	0.583
95	215	265	210	0.193	0.236	0.0766	0.431
120	245	300	240	0.153	0.188	0.0743	0.351
150	280	335	270	0.124	0.153	0.0745	0.296
185	325	380	310	0.0991	0.123	0.0744	0.251
240	385	440	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. diameter over bedding mm	Armour diameter mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.8	1.5	0.6	10.7	0.9	16.3	545
2.5	7/0.67	0.8	2.5	0.7	12.0	0.9	17.6	635
4	7/0.85	1.0	2.5	0.7	13.9	1.25	20.2	900
6	7/1.04	1.0	2.5	0.7	15.9	1.25	22.2	1050
10	7/1.35	1.0	4.0	1.0	17.5	1.6	24.5	1490
16	7/1.70	1.0	6.0	1.0	21.2	1.6	28.2	1810
25	7/2.14	1.2	6.0	1.0	24.4	1.6	32.2	2530
35	7/2.65	1.2	10	1.0	26.1	1.6	33.3	2990
50	19/1.89	1.4	16	1.0	30.4	2.0	38.8	4140
70	19/2.24	1.4	25	1.2	35.1	2.0	43.7	5470
95	19/2.65	1.6	25	1.2	39.6	2.5	49.6	7250
120	19/2.94	1.6	35	1.2	43.9	2.5	54.1	9090
150	19/3.28	1.8	50	1.4	48.5	2.5	59.1	9900
185	37/2.65	2.0	70	1.4	54.3	2.5	65.4	12110
240	37/2.94	2.2	95	1.6	61.6	3.15	74.7	16320