



APPLICATION 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. Suitable for glanding.	STANDARD VOLTAGE CONDUCTOR	AS/NZS 5000:2 450/750V Copper 1.5 – 6.0mm ²
	STANDARD VOLTAGE CONDUCTOR	AS/NZS 5000.1 600/1000V Copper 10 - 150mm ²
	INSULATION	PVC, V-90 Red, Black, & Green/Yellow
	SHEATH	PVC, 5V-90 Orange
	MAX. OPERATING TEMP.	90 °C

Item Number	Conductor		Overall Diameter		Approx. Mass kg/km	Minimum Installed Bending Radius mm
	mm ²	(No./mm)	Minimum mm	Maximum mm		
DC320	1.5	7/0.50	8.28	8.43	160	65
DC340	2.5	7/0.67	9.81	9.96	220	70
DC350	4	7/0.85	11.08	11.23	290	80
DC360	6	7/1.04	12.45	12.6	330	90
DC370	10	7/1.35	14.88	15.28	440	100
DC380	16	7/1.70	16.88	17.38	590	110
DC390	25	19/1.35	20.04	20.54	850	135
DC3100	35	19/1.53	22.15	22.65	1130	225
DC3110	50	19/1.78	25.50	26.0	1650	252
DC3120	70	19/2.14	29.85	30.35	2400	
DC3130	95	37/1.78	33.18	33.68	2600	
DC3140	120	37/2.03	36.57	37.22	2750	
DC3150	150	37/2.25	40.83	41.48	3000	

Nominal Area	Unenclosed In Air	Non-metallic wiring enclosure in air	Buried In Ducts	Maximum DC Resistance @20°C	Maximum AC Resistance @90°C	Equivalent Star Reactance	Single Phase Voltage Drop @90°C
mm ²	A	A	A	Ω/km	Ω/km	Ω/km	mV/Am
1.5	19	16	21	13.60	17.3	0.111	34.7
2.5	27	23	30	7.41	9.45	0.102	18.9
4	37	30	39	4.61	5.88	0.102	11.8
6	46	39	50	3.08	3.93	0.0967	7.9
10	64	52	66	1.83	2.33	0.0906	4.7
16	85	68	86	1.15	1.47	0.0861	2.9
25	113	90	112	0.27	0.927	0.0853	1.9
35	139	112	136	0.524	0.669	0.0826	1.35
50	170	133	162	0.387	0.494	0.0797	1.0
70	215	170	202	0.268	0.343	0.0770	0.703
95	265	204	243	0.193	0.248	0.0766	0.52
120	307	241	282	0.153	0.197	0.0743	0.423
150	351	271	317	0.124	0.160	0.0745	0.355

(a) Based on 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil resistivity of 1.2°C.m/W.

The above information is from the following sources: AS/NZS 3008.1.1:2009 (tables 10, 30, 35, 42)
AS 1125:2001 (table 2.3)

For installation with thermal insulation refer to AS/NZS 3008 for de-rating factors.
Do not put in direct contact with polystyrene, polyurethane or similar thermal insulation materials.

ACTIVE / CONDUCTOR			EARTH CONDUCTOR		
Nominal Area	Nominal Diameter	Minimum Insulation Thickness	Nominal Area	Number & Diameter of Wires	Minimum Insulation Thickness
mm ²	mm	mm	mm ²	No/mm	mm
1.5	1.5	0.6	1.5	7/0.50	0.6
2.5	2.0	0.7	2.5	7/0.67	0.7
4	2.55	0.8	2.5	7/0.67	0.7
6	3.12	0.8	2.5	7/0.67	0.7
10	4.05	1.0	4	7/0.85	1.0
16	5.1	1.0	6	7/1.04	1.0
25	6.75	1.2	6	7/1.04	1.0
35	7.65	1.2	10	7/1.35	1.0
50	8.9	1.4	16	7/1.70	1.0
70	10.70	1.4	25	19/1.35	1.2
95	12.46	1.6	25	19/1.35	1.2
120	14.21	1.6	35	19/1.53	1.2
150	15.75	1.8	50	19/1.78	1.4

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