




APPLICATION For mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where mechanical damage may occur. Suitable for glanding.	STANDARD VOLTAGE	AS/NZS 5000.1 600/1000V
	CONDUCTOR INSULATION	Copper 1.5 – 16.0mm ² 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		
DC320A	1.5	7/0.50	12.9	13.7	365	80
DC340A	2.5	7/0.67	15.1	16.0	425	85
DC350A	4	7/0.85	16.4	17.4	560	95
DC360A	6	7/1.04	17.5	18.5	620	100
DC370A	10	7/1.35	19.9	21.1	785	110
DC380A	16	7/1.70	22.0	23.1	1260	130

CONDUCTOR Nominal Area mm ²	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS			
	Unenclosed In Air  A	Buried Direct  A	Buried In Ducts  A	Maximum DC Resistance @20°C Ω/km	Maximum AC Resistance @90°C Ω/km	Equivalent Star Reactance Ω/km	Single Phase Voltage Drop @90°C mV/Am
1.5	18	21	21	13.60	17.3	0.111	34.7
2.5	26	30	30	7.41	9.45	0.102	18.9
4	34	39	39	4.61	5.88	0.102	11.8
6	44	50	50	3.08	3.93	0.0967	7.9
10	60	66	66	1.83	2.33	0.0906	4.7
16	80	114	86	1.15	1.47	0.0861	2.95

(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			DIAMETER UNDER ARMOUR	ARMOUR WIRE
Nominal Area. mm ²	Number & Diameter of Wires No/mm	Nominal Diameter mm	Minimum Insulation Thickness mm	Nom Area. mm ²	Number & Diameter of Wires No/mm	Minimum. Insulation Thickness mm	mm	Nominal Diameter mm
1.5	7/0.50	1.5	0.6	1.5	7/0.50	0.7	9.8	0.9
2.5	7/0.67	2.0	0.7	2.5	7/0.67	0.8	9.0	0.9
4	7/0.85	2.55	0.8	2.5	7/0.67	0.8	11.4	0.9
6	7/1.04	3.12	0.8	2.5	7/0.67	0.8	12.5	0.9
10	7/1.35	4.05	1.0	4.0	7/0.85	1.0	14.2	1.25
16	7/1.70	5.10	1.0	6.0	7/1.04	1.0	16.3	1.25

DOMINION WIRE & CABLES LTD.

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