




APPLICATION For mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or underground ducts for buildings and industrial plants where mechanical damage may occur and where out of balance currents may require a neutral equal in size to the active. Suitable for glanding.	STANDARD VOLTAGE	AS/NZS 5000.1 600/1000V
	CONDUCTOR INSULATION	Copper 1.5 – 6.0mm ² PVC, V-90 Red, White, Blue, 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		
DC520A	1.5	7/0.50	14.6	15.5	470	95
DC540A	2.5	7/0.67	15.9	16.8	530	100
DC550A	4	7/0.85	18.5	19.4	920	120
DC560A	6	7/1.04	19.7	20.7	920	125

CONDUCTOR	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS			
	Nominal Area mm ²	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
1.5	15	18	18	13.6	17.3	0.111	30.0
2.5	22	25	25	7.41	9.45	0.102	16.4
4	29	33	33	4.61	5.88	0.102	10.2
6	37	42	42	3.08	3.93	0.097	6.80

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.

(b) For single phase voltage drop, multiply by 1.155.

The above information is from the following sources:

AS/NZS 3008.1.1:2009 (tables 13, 30, 35, 42)

AS 1125:2001 (table 2.3)

For installation with thermal insulation refer to AS/NZS 3008.1.1:2009 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	10.7	0.9
2.5	7/0.67	2.0	0.7	2.5	7/0.67	0.8	12.0	0.9
4	7/0.85	2.55	0.8	2.5	7/0.67	0.8	14.0	1.25
6	7/1.04	3.12	0.8	2.5	7/0.67	0.8	15.3	1.25

DOMINION WIRE & CABLES LTD.

QUALITY CABLE MANUFACTURES, DISTRIBUTORS AND EXPORTERS

LOT 3, KINGS ROAD, YALALEVU, BA. P.O. BOX 1562, BA, FIJI.

PHONE: (679)6675244 FAX: (679)6670023,

E-Mail: sales@dominioncables.com

web: www.dominioncables.com

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