




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, White, Blue & Green/Yellow
	SHEATH	PVC, 5V-90 Orange/Black
	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		
DC420A	1.5	7/0.50	13.7	14.5	400	170
DC440A	2.5	7/0.67	16.0	17.0	610	185
DC450A	4	7/0.85	18.3	19.3	680	210
DC460A	6	7/1.04	19.5	20.5	760	225
DC470A	10	7/1.35	20.3	21.4	1040	250
DC480A	16	7/1.70	23.3	24.4	1460	290

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	3 Phase Voltage Drop @90°C mV/Am (b)
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
10	51	55	55	1.83	2.33	0.091	4.05
16	68	96	73	1.15	1.47	0.086	2.55

(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 current ratings with other installation conditions refer to AS/NZS 3008.1.1:2009.

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	10.9	0.9
4	7/0.85	2.55	0.8	2.5	7/0.67	0.8	12.7	1.25
6	7/1.04	3.12	0.8	2.5	7/0.67	0.8	13.8	1.25
10	7/1.35	4.05	1.0	4.0	7/0.85	1.0	15.8	1.25
16	7/1.70	5.1	1.0	6.0	7/1.04	1.0	18.1	1.6

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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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