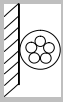




APPLICATION For control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage. Suitable for glanding.	STANDARD VOLTAGE	AS/NZS 5000.3 600/1000V
	CONDUCTOR INSULATION	Copper 1.5mm ² PVC, V-90 White (with markings) & Green/Yellow
	SHEATH	PVC, 5V-90 Black
	MAX. OPERATING TEMP.	90 °C

Item Number	Conductor			Overall Diameter		Approx. Mass kg/km	Minimum Installed Bending Radius mm
	Number of Cores	mm ²	(No./mm)	Min mm	Max mm		
DC620	5 + E	1.5	7/0.50	13.0	13.9	240	85
DC720	6 + E	1.5	7/0.50	13.0	13.9	280	85
DC820	7 + E	1.5	7/0.50	15.0	16.0	290	95
DC1120	10 + E	1.5	7/0.50	16.6	17.6	380	105
DC1320	12 + E	1.5	7/0.50	17.4	18.5	440	110
DC1620	15 + E	1.5	7/0.50	17.5	18.6	520	110
DC2120	20 + E	1.5	7/0.50	22.3	23.6	600	145
DC2620	25 + E	1.5	7/0.50	22.8	24.2	730	145
DC3120	30 + E	1.5	7/0.50	24.5	25.9	850	155
DC4120	40 + E	1.5	7/0.50	28.5	30.2	1090	180
DC5120	50 + E	1.5	7/0.50	30.0	31.7	1330	190

CONDUCTOR Number of Cores	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS			
	Unenclosed In Air 	Non-metallic wiring enclosure in air 	Buried In Ducts 	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)
2	A 15	A 14	A 18	13.6	17.3	0.111	30.0
3 - 50	15	14	18	13.6	17.3	0.111	30.0

(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. Based on 2 to 4 cores fully loaded with the remainder of the cores <35% loaded.

(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 1125:2008 (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		
Number of Cores	Number & Diameter of Wires No/mm	Nominal Diameter mm	Minimum Insulation Thickness mm	Nominal Area. mm ²	Number & Diameter of Wires No/mm	Minimum Insulation Thickness mm
2 - 50	7/0.50	1.5	0.8	1.5	7/0.50	0.8

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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