

CIRCULAR PVC 2-50C + E 2.5mm²





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 AS/NZS 5000.3 **VOLTAGE** 600/1000V

CONDUCTOR Copper 2.5mm² INSULATION 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	Minimum Installed
	Number of Cores	mm²	(No./mm)	Min mm	Max mm	kg/km	Bending Radius mm
DC640	5 + E	2.5	7/0.67	14.4	15.2	340	95
DC740	6 + E	2.5	7/0.67	14.4	15.2	365	95
DC840	7 + E	2.5	7/0.67	15.4	16.3	410	100
DC940	8 + E	2.5	7/0.67	16.5	17.5	450	105
DC1140	10 + E	2.5	7/0.67	18.5	19.5	540	120
DC1340	12 + E	2.5	7/0.67	19.4	20.5	620	125
DC1640	15 + E	2.5	7/0.67	20.4	21.5	750	130
DC2140	20 + E	2.5	7/0.67	25.1	26.4	950	160
DC2640	25 + E	2.5	7/0.67	25.6	27.0	1160	165
DC3140	30 + E	2.5	7/0.67	27.6	29.0	1360	175
DC4140	40 + E	2.5	7/0.67	32.6	34.3	1770	200
DC5140	50 + E	2.5	7/0.67	34.1	35.8	2180	215

CONDUCTOR	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS				
Number of Cores	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	3 Phase Voltage Drop @90°C	
	Α	Α	Α	Ω/km	Ω/km	Ω/km	mV/Am (b)	
2	22	20	25	7.41	9.45	0.102	16.4	
3 - 50	22	20	25	7.41	9.45	0.102	16.4	

(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/NZ

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 / Co	ONDUCTOR	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	7/0.67	2.0	0.8	2.5	7/0.67	0.7

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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