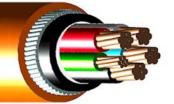


CIRCULAR PVC 4C + E SWA COPPER





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 AS/NZS 5000.1 **VOLTAGE** 600/1000V

CONDUCTOR Copper 1.5 – 6.0mm²

INSULATION PVC, V-90

Red, White, Blue, Black &

Green/Yellow

SHEATH PVC, 5V-90

Orange

MAX. OPERATING TEMP. 90 °C

Item	Conductor		Overall I	Diameter	Approx.	Minimum	
Number	mm²	(No./mm)	Minimum mm	Maximum mm	Mass kg/km	Installed Bending Radius 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	Unenclosed In Air	Buried Direct	Buried In Ducts	Maximum DC Resistance @20°C	Maximum AC Resistance @90°C	Equivalent Star Reactance	3 Phase Voltage Drop @90°C
mm²	A	Α	Α	Ω/km	Ω/km	Ω/km	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

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