




APPLICATION For mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage. Suitable for glanding.	STANDARD VOLTAGE CONDUCTOR	AS/NZS 5000:2 450/750V Copper 1.5 – 6.0mm ²
	STANDARD VOLTAGE CONDUCTOR	AS/NZS 5000.1 600/1000V Copper 10 - 240mm ²
	INSULATION	PVC, V-90 Red, Black, Blue & 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		
DC420	1.5	7/0.50	9.03	9.23	190	70
DC440	2.5	7/0.67	10.95	11.15	250	80
DC450	4	7/0.85	12.30	12.50	350	90
DC460	6	7/1.04	13.33	13.53	420	100
DC470	10	7/1.35	17.33	17.78	585	110
DC480	16	7/1.70	19.58	20.80	810	120
DC490	25	19/1.35	23.30	23.80	1150	135
DC4100	35	19/1.53	25.50	26.0	1530	145
DC4110	50	19/1.78	29.32	29.82	2040	180
DC4120	70	19/2.14	34.14	34.64	2960	210
DC4130	95	37/1.78	38.38	38.84	3760	235
DC4140	120	37/2.03	42.32	42.77	4650	280
DC4150	150	37/2.25	47.15	47.80	5760	335
DC4160	185	37/2.52	52.77	53.72	7260	375
DC4170	240	61/2.25	60.01	60.71	9880	425

CONDUCTOR Nominal Area mm ²	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)
1.5	16	14	18	13.6	17.3	0.111	30.0
2.5	23	20	25	7.41	9.45	0.102	16.4
4	31	25	33	4.61	5.88	0.102	10.2
6	40	33	42	3.08	3.93	0.0967	6.80
10	54	44	55	1.83	2.33	0.0906	4.05
16	72	58	96	1.15	1.47	0.0861	2.55
25	97	76	125	0.727	0.927	0.0853	1.61
35	120	94	150	0.524	0.669	0.0826	1.17
50	146	112	178	0.387	0.494	0.0797	0.868
70	185	142	219	0.268	0.343	0.077	0.609
95	228	177	263	0.193	0.248	0.0766	0.45
120	265	202	300	0.153	0.197	0.0743	0.366
150	303	228	336	0.124	0.160	0.0745	0.307
185	348	263	379	0.0991	0.129	0.0744	0.259
240	412	316	438	0.0754	0.0998	0.0735	0.216

(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 for de-rating factors.

Do not put in direct contact with polystyrene, polyurethane or similar thermal insulation materials.

ACTIVE / CONDUCTOR			EARTH CONDUCTOR		
Nominal Area mm ²	Nominal Diameter mm	Minimum Insulation Thickness mm	Nominal Area mm ²	Number & Diameter of Wires No/mm	Minimum Insulation Thickness mm
1.5	1.5	0.6	1.5	7/0.50	0.6
2.5	2.0	0.7	2.5	7/0.67	0.7
4	2.55	0.8	2.5	7/0.67	0.7
6	3.12	0.8	2.5	7/0.67	0.7
10	4.05	1.0	4.0	7/0.85	1.0
16	5.10	1.0	6.0	7/1.04	1.0
25	6.75	1.2	6.0	7/1.04	1.0
35	7.65	1.2	6.0	7/1.04	1.0
50	8.90	1.4	16	7/1.70	1.0
70	10.70	1.4	25	19/1.35	1.2
95	12.46	1.6	25	19/1.35	1.2
120	14.21	1.6	35	19/1.53	1.2
150	15.75	1.8	50	19/1.78	1.4
185	17.64	2.0	70	19/2.14	1.4
240	20.25	2.2	95	37/1.78	1.6

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