



<b>APPLICATION</b>  For separate earth conductors, For switchboard and control panel wiring. For fixed wiring within other enclosures or apparatus where the cable is not accessible without the use of tools.	<b>STANDARD VOLTAGE</b>	AS/NZS 5000.1 600/1000V
	<b>CONDUCTOR INSULATION</b>	Aluminium 1 - 630mm <sup>2</sup> PVC, V-90 See below for colour options
	<b>MAX. OPERATING TEMP.</b>	90°C

Item Number	Conductor		Overall Diameter		Nominal Diameter mm	Minimum Insulation Thickness mm	Approx. Mass Kg/Km	Minimum Installed Bending Radius mm
	mm <sup>2</sup>	(No./mm)	Minimum (mm)	Maximum (mm)				
DC18y/AL	16	7/1.70	7.2	7.4	5.1	1	180	45
DC19y/AL	25	19/1.35	9.25	9.45	6.75	1.2	285	60
DC110y/AL	35	19/1.53	10.15	10.35	7.65	1.2	370	65
DC111y/AL	50	19/1.78	11.8	12	8.9	1.4	515	70
DC112y/AL	70	19/2.14	13.6	13.8	10.7	1.4	730	80
DC113y/AL	95	37/1.78	15.76	16	12.5	1.6	980	90
DC1149y/AL	120	37/2.03	17.51	17.75	14.21	1.6	1250	100
DC115y/AL	150	37/2.25	19.45	19.7	15.75	1.8	1500	110
DC116y/AL	185	37/2.52	21.74	22	17.64	2	1750	120
DC117y/AL	240	61/2.25	24.75	25.05	20.25	2.2	2200	130
DC118y/AL	300	61/2.52	27.58	27.9	22.68	2.4	2890	140
DC119y/AL	400	61/2.85	30.95	31.35	25.65	2.6	3530	150
DC1110y/AL	500	61/3.20	34.5	34.9	28.8	2.8	4450	160
DC1111y/AL	630	90/3.00	38.46	38.85	32.76	2.8	6300	170

y=1 for Black y=2 for Red y=3 for White y=4 for Blue y=5 for Green/Yellow  
 NB: We may not stock all sizes in all colour variations  
 Bigger Size available on request

CONDUCTOR	CURRENT RATING (a) Fixed Wiring		ELECTRICAL CHARACTERISTICS			
	Nominal Area Unenclosed In Air  A	Conduit In Air  A	Maximum DC Resistance @20°C Ω/km	Maximum AC Resistance @90°C Ω/km	Equivalent Star Reactance (trefoil) Ω/km	Single Phase Voltage Drop (trefoil) @90°C mV/Am
mm <sup>2</sup>						
1	13	13	21.2	27.0	0.168	54.1
1.5	16	18	13.6	17.3	0.157	34.7
2.5	23	24	7.41	9.45	0.143	18.9
4	31	32	4.61	5.88	0.137	11.8
6	40	41	3.08	3.93	0.128	7.87
10	54	54	1.83	2.33	0.118	4.68
16	72	70	1.15	1.47	0.111	2.95
25	97	94	0.727	0.927	0.106	1.87
35	119	112	0.524	0.668	0.101	1.35
50	146	138	0.387	0.494	0.0962	1.01
70	184	170	0.268	0.342	0.0917	0.710
95	230	212	0.193	0.247	0.0904	0.528
120	267	242	0.153	0.197	0.0870	0.431
150	308	282	0.124	0.160	0.0868	0.365
185	358	320	0.0991	0.129	0.0862	0.311
240	428	381	0.0754	0.0991	0.0847	0.262
300	495		0.0601	0.0803	0.0839	0.233
400	577		0.0470	0.0646	0.0829	0.211
500	668		0.0366	0.0525	0.0820	0.196
630	770		0.0283	0.0432	0.0800	0.184

(a) Based on 40°C ambient air temperature.

The above information is from the following sources:

AS/NZS 3008.1.1:2009 (tables 4, 30, 34, 40)  
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.

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