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Building Wires - Single Core

Application: For separate earth conductors, switchboard and control panel wiring within other enclosures or apparatus where the cable is not accessible without the use of tools. (A&A&A™s also suitable for glanding)

Conductor: Plain annealed copper
Insulation: PVC 90
Voltage: 0.6/1 kV
Standard: AS/NZS 1125, AS/NZS 5000.1, AS/NZS3008
Standard Packing Length: 100m, 200m, 250m, 500m
Normal Operating Temperature: 90°C



Typical Features

Code	Conductor		Insulation Thick mm	Min. Bending Radius mm	Nom. O/D mm	Approx. Mass kg/km	Standard Packing		Order Now
	mm ²	No./mm					100m	500m	
SR1015	1.5	7/0.50	0.8	15	3.1	20			A
SR1025	2.5	7/0.67	0.8	15	3.6	32			A
SR1040	4	7/0.85	1	20	4.6	51			A
SR1060	6	7/1.04	1	25	5.1	71			A
SR1100	10	7/1.35	1	25	6.1	111			A
SR1160	16	7/1.70	1	30	7.1	17			A
SR1250	25	19/1.35	1.2	40	8.9	260			A
SR1350	35	19/1.53	1.2	45	10.1	350			A
SR1500	50	19/1.78	1.4	50	11.7	480	A	A	A
SR1700	70	19/2.14	1.4	60	13.6	670	A	A	A
SR1950	95	37/1.78	1.6	70	15.8	960	A	A	A
SR1200	120	37/2.03	1.6	70	17.6	1180	A	A	A
SR1500*	150	37/2.25	1.8	80	19.5	1440	A	A	A
SR1850*	185	37/2.52	2	85	21.7	1800	A	A	A
SR12400*	240	61/2.25	2.2	90	24.9	2360	A	A	A
SR13000*	300	61/2.52	2.4	100	27.7	2960	A	A	A
SR14000*	400	61/2.85	2.6	110	30.9	3760	A	A	A
SR15000*	500	61/3.20	2.8	120	34.4	4770	A	A	A
SR16300*	630	127/2.52	2.8	130	38.4	6130			

*These items are subject to minimum order quantity

Current Rating and Electrical Characteristics (Single core PVC)

Nominal Area*	Current Rating (a)		Electrical Characteristics			
	Unenclosed Touching	Conduit in air (a)	Maximum DC Resistance @ 20°C Ae/Km	Maximum AC Resistance @ 20°C Ae/Km	Resistance A#/Km	(b) 3 Phase Voltage Drop Touching @90°C mV/A.m
1	13	13	18.1	25.8	0.168	44.68
1.5	16	16	13.6	16.5	0.157	28.57
2.5	23	22	7.41	9.01	0.143	15.58
4	31	30	4.61	5.61	0.137	9.7
6	40	38	3.08	3.75	0.128	6.49
10	54	53	1.83	2.23	0.118	3.86
16	72	71	1.15	1.4	0.111	2.43
25	97	97	0.727	0.884	0.106	1.54
35	120	115	0.524	0.638	0.101	1.12
50	145	140	0.387	0.471	0.0962	0.8337
70	185	175	0.288	0.327	0.0917	0.5887
95	230	210	0.193	0.236	0.0904	0.4389
120	265	250	0.153	0.188	0.087	0.3593
150	310	280	0.124	0.153	0.0868	0.3047
185	360	325	0.0991	0.123	0.0862	0.275
240	430	385	0.0754	0.0948	0.0847	0.239
300	495	-	0.0601	-	-	-
400	580	-	0.047	-	-	-
500	670	-	0.0366	-	-	-
630	770	-	0.0283	-	-	-
A 700	A 820	A	A	A	A	A

(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 1.2A°C-W
 (b) For single phase voltage drop, multiply by 1.155
 The above information is from the following sources:
 AS/NZ 3008.1.1
 AS/NZS 1125
 For current rating using other installation conditions refer to AS/NZS3008.1.1 Do not install in direct contact with polystyrene or polyurethane insulation materials

Electra Cables - Sydney Office: Unit 1, 13 Cooper Street, Smithfield NSW 2164. Phone: (02) 8788 5200. Fax: (02) 8788 5288.

Electra Cables - Melbourne Office: #60-664 Hammond Road, Dandenong South VIC 3175. Phone: (03) 8708 6810. Fax: (03) 8768 3580.

Electra Cables - Brisbane Office: 118 Sandstone Place, Parkinson QLD 4115. Phone: (07) 3271 6630. Fax: (07) 3809 0411.

Electra Cables - Perth Office: 24 Harrison Road, Forrestfield WA 6058. Phone: (08) 9454 2628. Fax: (08) 9454 3026.