

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. It is 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/NZS3808
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			
SR1025	2.5	7/0.67	0.8	15	3.6	32			
SR1040	4	7/0.85	1	20	4.6	51			
SR1060	6	7/1.04	1	25	5.1	71			
SR1100	10	7/1.35	1	25	6.1	111			
SR1160	16	7/1.70	1	30	7.1	17			
SR1250	25	19/1.35	1.2	40	8.9	260			
SR1350	35	19/1.53	1.2	45	10.1	350			
SR1500	50	19/1.78	1.4	50	11.7	480			
SR1700	70	19/2.14	1.4	60	13.6	670			
SR1950	95	37/1.78	1.6	70	15.8	960			
SR11200	120	37/2.03	1.6	70	17.6	1180			
SR11500*	150	37/2.25	1.8	80	19.5	1440			
SR11850*	185	37/2.52	2	85	21.7	1800			
SR12400*	240	61/2.25	2.2	90	24.9	2360			
SR13000*	300	61/2.52	2.4	100	27.7	2960			
SR14000*	400	61/2.85	2.6	110	30.9	3760			
SR15000*	500	61/3.20	2.8	120	34.4	4770			
SR16300*	630	127/2.52	2.8	130	38.4	6130			*Those items are subject to minimum order Quantity

Current Rating and Electrical Characteristics (Single core PVC)

Conductor	Current Rating (a)		Electrical Characteristics			
	Nominal Area ²	Unenclosed Touching	Conduit in air (a)	Maximum DC Resistance @ 20°C ©/Km	Maximum AC Resistance @ 20°C ©/Km	Resistance ©/Km
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	0.268	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	-	-	-
700	820	-	-	-	-	-

(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°C²W.

(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