ELECTRA CABLES (Aust.) Pty. Limited
A.C.N. 056 024 385
A.B.N. 38 056 024 385

Building Wires - Single Core

0.6/1 kV PVC insulated cable

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's also suitable for glanding.

Conductor: Plain annealed copper (AS/NZS 1125) **Insulation:** PVC V90

Normal Operating Temperature: 90°C **Standard:** AS/NZS 5000.1

Cable Specifications:

Electra Code	Conductor		Insulation Thickness mm	Min. Bending Radius mm	Nom. O/D mm	Approx. Mass kg/km	Standard Packing	
	mm^2	No./mm					100m	500m
SR1010	0.88	7/0.40	0.8	15	2.8	16	√	√
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	1.0	20	4.6	51	√	√
SR1060	6	7/1.04	1.0	25	5.1	71	√	√
SR1100	10	7/1.35	1.0	25	6.1	111	√	√
SR1160	16	7/1.70	1.0	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	2.0	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		

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Current Rating and Electrical Characteristics (Single core PVC)

Conductor	Current Rating (a)		Electrical Characteristics			
Nominal Area mm²	Unenclosed Touching	Conduit in air	Maximum DC Resistance @20°C Ω/Km	Maximum AC Resistance @20°C Ω/Km	Resistance Ω/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	9.70
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	1.40	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	0.0870	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) 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/NZ 3008.1.1
AS/NZS 1125
For current rating using other installation conditions refer to AS/NZS3008.1.1
Do not install in direst with polystyrene or polyurethane insulation materials

* Those items are subject to minimum order Quantity.

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Single Core V90HT

Insulation: PVC V90HT
Normal Operating Temperature: 105°C
Standard: AS/NZS 5000.1

Electra Code	Conductor		Insulation Thickness mm	Nom. O/D mm	Mass Kg/km	Standard Packing	
	mm^2	No./mm				100m	500m
R1005	0.5	1/0.80	0.8	2.4	15	√	√
R1010	1.0	1/1.13	0.8	2.8	20	√	√
SR1015V	1.5	7/0.50	0.8	3.1	25	√	√
SR1025V	2.5	7/0.67	0.8	3.6	35	√	√
SR1040V	4.0	7/0.85	1.0	4.6	55	√	√
SR1060V	6.0	7/1.04	1.0	5.1	70	√	√

Colour Code:

Electra Code	Colours
R1005	Black, Red, Brown, Blue, Pink, Grey, Orange, Violet, White, Yellow
R1010	Black, Red, Brown, Blue, Pink, Grey, Orange, Violet, White
SR1010 – SR1025	Black, Red, Brown, Blue, Pink, Grey, Orange, Violet, White, Green/Yellow
SR1015V, SR1025V	Black, Red, Brown, Blue, Grey, Orange, White, Green/Yellow
SR1040V, SR1060V	Black, Red, Blue, White
SR1040- SR1160	Black, Red, Blue, White, Green/Yellow
SR1250- SR16300	Black, Red, Green/Yellow

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