

PVC Armoured Cable



0.6/1kV PVC Insulated, PVC Sheathed Cable

Description: 0.6/1kV CU/PVC/PVC ASNZS5000.1



Application: This cable can be used for mains power supply in switchboards and power stations. It can be installed in trenches, cable duct and cable trunking.

Voltage Rating: 0.6/1kV

Construction: Plain Annealed Non compacted Copper, Circular stranded, Class 2, AS/NZS1125

Insulation: PVC (V-90)

Outer Sheath: Extruded Polyvinyl Chloride Compound (PVC/SV-90), Colour - Black

Sheath Option: HFS (Halogen Free) – LSZH

Part Number	No of cores and nominal cross section area mm ²	Diameter of Conductor	Dia of over steel wire or Aluminum armour	Norminal Thickness of PVC insulation	Thickness of PVC Outer sheath	Overall diameter of complete cable	Net weight	D. C. resistance of conductor 20°C
	No*Section	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]	(Ω/km)
21.5SWA	2*1.5	1.50	10.80	0.62	1.80	14.40	0.35	13.600
22.5SWA	2*2.5	2.01	11.82	0.62	1.80	15.40	0.50	7.410
24SWA	2*4	2.55	13.70	0.80	1.80	17.30	0.67	4.610
26SWA	2*6	3.12	14.84	0.80	1.80	18.50	0.80	3.080
32.5SWA	3*2.5	2.05	12.41	0.80	1.80	16.0	0.40	7.410
34SWA	3*4	2.55	15.34	1.00	1.80	18.9	0.73	4.610
36SWA	3*6	3.12	16.58	1.00	1.80	20.2	0.97	3.080
42.5SWA	4*2.5	2.01	13.38	0.62	1.80	17.0	0.50	7.410
44SWA	4*4	2.55	16.55	0.80	1.80	20.2	0.86	4.610
46SWA	4*6	3.12	17.93	0.80	1.80	21.5	0.97	3.080
410SWA	4*10	4.05	20.18	0.80	1.80	23.8	1.27	1.850

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of ICSLTD is indicative only and shall not be binding on ICSLTD or be treated as constituting a representation on the part of ICSLTD.

2 Core Circular TPS



Current Carrying Capacity

Two core Sheathed

Reference Ambient Temperature: 30°C in air and 15°C in ground

Conductor Size	Unenclosed Spaced	Unenclosed Touching	Enclosed Touching	Buried Direct	Underground wiring enclosure
[mm]					
10	86	80	69	80	80
16	114	107	90	141	105
25	154	144	121	182	137
35	190	178	145	219	165
50	232	217	178	261	198
70	295	275	220	321	244
95	364	340	275	385	299
120	424	395	314	439	340
150	485	452	365	492	391
185	560	520	415	556	442
240	664	618	493	645	519
300	763	710	575	728	597
400	884	820	656	825	677
500	1007	933	765	922	779
630	-	-	-	-	-

Note: Please be advised that the information contained in this table, along with the typical installation conditions applicable in New Zealand, is sourced from AS/NZS 3008.1.2:2017. This content has been utilised with the express permission of Standards New Zealand under Copyright Licence SZ00025278 and has either been reproduced or adapted. For comprehensive details, we recommend consulting the entire Standard, which can be obtained for purchase directly from Standards New Zealand via www.standards.co.nz.

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of ICSLTD is indicative only and shall not be binding on ICSLTD or be treated as constituting a representation on the part of ICSLTD.