

POWER CABLES – PVC Cables 450/750 V

PVC SDI 450/750 V

Cable description:

Single Core Cable, Copper Conductor, V-90 PVC Insulated and 3V-90 PVC Sheathed, to AS/NZS 5000.2.



Catalogue reference	Nominal conductor area mm ²	Approx. overall diameter mm	Approx. mass kg/100 m	Min. installed bending radius mm
*1.0SSDI	1.0	4.1	2.9	15
1.5SDI	1.5	4.5	3.5	20
2.5SDI	2.5	5.2	5.1	20
4SDI	4.0	6.2	7.4	25
6SDI	6.0	6.8	9.8	25
10SDI	10	8.2	15	35
16SDI	16	9.4	22	40

*Single Wire Conductor.

For conductors 25 mm² and above please refer to XLPE/PVC product pages.

Available in Green Star approved PVC or made to order Non PVC Low Smoke Zero Halogen.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



CURRENT RATINGS

2 SINGLE CORE (CU) 75°C

Cable description:

2 Single Core LV, Non Flexible, Copper Conductor, Sheathed and Unsheathed Non-Armoured Cables with V-75, V-90, V-90HT PVC , HFI-75-TP or HFI-90-TP LSOH Insulation. Based on AS/NZS 3008.1.1.

Nominal conductor area mm ²	Unenclosed				Enclosed	Thermal insulation		Buried direct	Underground wiring enclosure		Single phase voltage drop (@ 50Hz & 75°C) mV/A.m
	Spaced	Spaced from surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation				
1.0	16	16	13	8	13	11	6	18	18	21	51.6
1.5	21	21	16	10	18	14	8	23	23	26	33.0
2.5	30	29	23	13	24	20	12	32	32	36	18.0
4	40	39	31	18	32	25	16	41	41	47	11.2
6	51	49	40	22	41	33	20	52	52	58	7.49
10	69	67	54	30	54	44	27	69	69	77	4.46
16	92	89	72	39	70	56	36	122	89	99	2.81
25	124	119	97	50	94	75	48	158	116	129	1.78
35	153	145	119	61	112	90	59	190	139	155	1.29
50	187	177	146	72	138	110	-	225	168	186	0.963
70	238	223	184	89	170	136	-	277	206	228	0.680
95	295	276	230	107	212	169	-	332	252	278	0.507
120	344	321	267	122	242	193	-	378	287	316	0.415
150	395	367	308	137	282	225	-	424	329	354	0.352
185	459	424	358	154	320	256	-	480	373	408	0.301
240	549	505	428	177	381	305	-	556	438	472	0.255
300	636	582	495	198	-	-	-	628	496	546	0.229
400	744	676	577	221	-	-	-	713	575	621	0.209
500	867	780	668	245	-	-	-	805	649	721	0.194
630	1014	897	770	269	-	-	-	904	750	816	0.181

Note:

Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



CURRENT RATINGS

3 SINGLE CORE (CU) 75°C

Cable description:

3 Single Core LV, Non Flexible, Copper Conductor, Sheathed and Unsheathed Non-Armoured Cables with V-75, V-90, V-90HT PVC, HFI-75-TP or HFI-90-TP LSOH Insulation. Based on AS/NZS 3008.1.1.

Nominal conductor area mm ²	Unenclosed				Enclosed	Thermal insulation		Buried direct	Underground wiring enclosure		Three phase voltage drop (@ 50Hz & 75 °C) mV/A.m	
	Spaced	Spaced from surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation					
1.0	16	14	13	8	12	10	6	16	16	19	44.7	44.7
1.5	20	17	16	10	15	12	8	20	20	24	28.6	28.6
2.5	29	25	23	13	21	17	12	27	27	33	15.6	15.6
4	38	33	31	18	28	23	16	36	36	43	9.71	9.71
6	49	42	40	22	35	28	20	45	45	53	6.49	6.49
10	67	58	54	30	47	37	27	59	59	70	3.86	3.86
16	89	77	72	39	62	50	36	104	78	90	2.43	2.43
25	120	103	97	50	81	64	48	134	100	117	1.54	1.55
35	148	127	119	61	100	80	59	160	122	140	1.12	1.12
50	181	156	146	72	119	95	-	190	144	168	0.834	0.840
70	230	197	184	89	152	122	-	233	180	205	0.589	0.597
95	287	246	230	107	183	147	-	279	217	250	0.439	0.449
120	335	287	267	122	217	173	-	317	252	283	0.359	0.371
150	385	330	308	137	244	195	-	356	283	317	0.305	0.319
185	447	383	357	154	284	227	-	402	325	365	0.261	0.277

Note:

Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.

