

**POWER CABLES – PVC Cables 450/750 V**

**PVC FLAT 450/750 V**

**Cable description:**

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



Catalogue reference	Nominal conductor area mm <sup>2</sup>	Approx. overall diameter mm	Approx. mass kg/100 m	Min. installed bending radius mm
3C		3C	3C	3C
*1.0S3CF	1.0	9.0 x 4.3	7.3	20
1.53CF	1.5	10.1 x 4.6	9.0	20
2.53CF	2.5	12.4 x 5.5	15	20

\*Single Wire Conductors.

3C = 3 Core.

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

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**CURRENT RATINGS**

**3 CORE (CU) 75°C**

**Cable description:**

3 Core LV, Non Flexible, Copper Conductor, Insulated and Sheathed (including neutral screened) Cables with or without Earth Conductor, Armoured or 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 <sup>2</sup>	Unenclosed			Enclosed Wiring enclosure in air	Unenclosed thermal insulation		Buried direct	Underground wiring enclosure	Three phase voltage drop (@ 50Hz & 75°C) mV/A.m
	Spaced	Touching	Exposed to sun		Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
1.0	13	12	9	11	9	6	14	14	44.7
1.5	16	15	12	14	12	8	18	18	28.6
2.5	23	22	17	20	17	11	25	25	15.6
4	31	29	23	25	23	15	33	33	9.71
6	40	37	29	33	30	19	42	42	6.49
10	54	51	39	44	41	25	55	55	3.86
16	72	68	51	58	54	34	96	73	2.43
25	97	91	67	76	73	46	125	94	1.54
35	120	112	82	94	90	56	150	114	1.11
50	146	137	99	112	109	-	178	136	0.829
70	185	172	123	142	138	-	219	170	0.583
95	228	213	150	177	170	-	263	208	0.431
120	265	247	172	202	198	-	300	237	0.351
150	303	282	194	228	226	-	336	266	0.296
185	348	324	220	263	259	-	379	304	0.251
240	412	383	256	316	307	-	438	359	0.210
300	472	438	288	-	-	-	493	404	0.186
400	544	504	326	-	-	-	557	468	0.168
500	616	571	363	-	-	-	620	522	0.156

**Note:**

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

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