POWER CABLES – PVC Cables 450/750 V

PVC MULTICORE CIRCULAR 450/750 V

Cable description:

2, 3 & 4 Core plus Earth Circular Cable, Copper Conductor, V-90 PVC Insulated and 5V-90 PVC Sheathed, to AS/NZS 5000.2.



Catalogue reference			Nominal conductor area mm²	Approx. overall diameter mm			Approx. mass kg/100 m			Min. installed bending radius mm		
2C+E	3C+E	4C+E		2C+E	3C+E	4C+E	2C+E	3C+E	4C+E	2C+E	3C+E	4C+E
1.52CEOC	1.53CEOC	1.54CEOC	1.5	8.3	9.0	10.0	11	13	16	35	40	40
2.52CEOC	2.53CEOC	2.54CEOC	2.5	10.0	10.9	11.9	17	20	24	40	45	50
42CEOC	43CEOC	44CEOC	4.0	11.2	12.3	13.7	22	27	34	45	50	55
62CEOC	63CEOC	64CEOC	6.0	12.2	13.6	15.1	27	35	44	50	55	60
102CEOC	103CEOC	104CEOC	10	15.7	17.5	19.4	40	53	65	65	70	80
162CEOC	163CEOC	164CEOC	16	18.0	19.8	22.2	57	75	94	75	80	90

2C+E = 2 Core + Earth. 3C+E = 3 Core + Earth. 4C+E = 4 Core + Earth.

For conductors less than 10 mm² please refer to Cables to AS/NZS 5000.2.

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

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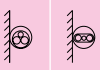
CURRENT RATINGS

2 CORE (CU) 75°C

Cable description:

2 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 mm²	Unenclosed			Enclosed	Unenclosed thermal insulation		Buried direct	Underground wiring enclosure	Single phase voltage drop (@ 50Hz & 75°C) mV/A.m
	Spaced	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
									
1.0	15	14	11	13	11	7	17	17	51.6
1.5	19	18	14	16	14	9	21	21	33.0
2.5	27	26	20	23	20	13	30	30	18.0
4	37	34	27	30	27	17	39	39	11.2
6	46	44	34	39	35	22	50	50	7.49
10	64	60	46	52	48	30	66	66	4.46
16	85	80	60	68	64	40	114	86	2.81
25	113	107	79	90	85	53	147	112	1.78
35	139	131	97	112	105	65	178	136	1.28
50	170	159	116	133	127	-	211	162	0.957
70	215	201	145	170	161	-	259	202	0.673
95	265	248	175	204	198	-	311	243	0.498
120	307	288	202	241	230	-	355	282	0.405
150	351	328	227	271	263	-	398	317	0.342
185	403	377	258	313	302	-	449	363	0.290
240	477	446	300	364	357	-	520	421	0.242
300	547	511	339	424	409	-	586	483	0.215
400	631	589	384	482	471	-	663	548	0.194
500	716	668	429	561	534	-	741	628	0.180

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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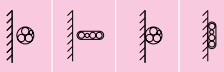
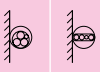
CURRENT RATINGS

3 & 4 CORE (CU) 75°C

Cable description:

3 & 4 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 mm²	Unenclosed			Enclosed	Unenclosed thermal insulation		Buried direct	Underground wiring enclosure	Three phase voltage drop (@ 50Hz & 75°C) mV/A.m
	Spaced	Touching	Exposed to sun	Wiring enclosure in air	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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