



Current Ratings and Volt Drop for Single and Multicore Cables To SABS 10142 2008 (PVC Wiring Cables 300/500 V, 450

Conductor	Single core in/on wall or Multicore in wall			
	Single Phase a.c.		3-Phase a.c.	
	Size mm ²	Rating (A)	Volt drop per A/m (mV)	Rating (A)
1.0	12.5	44	10.5	38
1.5	16	29	13.5	25
2.5	22	18	18.5	15
4	30	11	25	9.5
6	38	7.3	32	6.4
10	53	4.4	45	3.8
16	71	2.8	61	2.4
25	94	1.8	80	1.55
35	117	1.3	100	1.10
50	141	1.0	120	0.85
70	180	0.72	154	0.61
95	218	0.56	186	0.48
120	252	0.47	215	0.41
150	282	0.41	236	0.36
185	320	0.37	267	0.32

Conductor	Multicore in trunking core or conduit surface mounted on a wall or floor			
	Single Phase a.c.		3-Phase a.c.	
	Size mm ²	Rating (A)	Volt drop per A/m (mV)	Rating (A)
1.0	12	44	10	38
1.5	14.5	29	12.5	25
2.5	19	18	17	15
4	26	11	23	9.5
6	31	7.3	29	6.4
10	47	4.4	41	3.8
16	63	2.8	55	2.4
25	84	1.8	69	1.55
35	103	1.3	85	1.10
50	125	1.0	106	0.85
70	157	0.72	134	0.61
95	188	0.56	161	0.48
120	218	0.47	185	0.41
150	242	0.41	203	0.36
185	276	0.37	230	0.32

Conductor	Single and Multicore on a wall, floor, unperforated tray, under plaster			
	Single Phase a.c.		3-Phase a.c.	
	Size mm ²	Rating (A)	Volt drop per A/m (mV)	Rating (A)
1.0	14	44	12	38
1.5	18	29	15.5	25
2.5	24	18	21	15
4	32	11	28	9.5
6	43	7.3	37	6.4
10	59	4.4	51	3.8
16	79	2.8	68	2.4
25	105	1.75	86	1.55
35	129	1.25	107	1.10
50	157	0.95	129	0.82
70	200	0.66	166	0.57
95	242	0.50	201	0.43
120	281	0.41	233	0.36
150	323	0.34	265	0.30
185	368	0.25	307	0.25

Conductor	Single and Multicore in free air or on perforated racks and ladders			
	Single Phase a.c.		3-Phase a.c.	
	Size mm ²	Rating (A)	Volt drop per A/m (mV)	Rating (A)
1.0	15.5	N/A	13	N/A
1.5	20.5	N/A	16.5	N/A
2.5	28	N/A	22	N/A
4	37	N/A	30	N/A
6	47	N/A	38	N/A
10	65	N/A	54	N/A
16	88	N/A	72	N/A
25	111	1.75	91	1.55
35	139	1.25	113	1.10
50	170	0.95	138	0.82
70	218	0.66	176	0.57
95	265	0.50	214	0.43
120	308	0.47	249	0.36
150	356	0.34	287	0.30
185	407	0.29	328	0.26