





Table 7

Current carrying capacities of three core and four core 0.6/1kV insulated and sheathed (including copper braid screened) flexible cables with or without earth conductor, with R-90 or X-90 insulation

Conductor Size	Current carrying capacity, A			
	Unenclosed			Enclosed
	Spaced 	Touching 	Exposed to sun 	Wiring enclosed in air 
mm ²	Cu	Cu	Cu	Cu
1	18	17	14	15
1.5	22	21	19	19
2.5	30	29	24	25
4	40	37	32	32
6	51	47	41	41
10	73	67	57	57
16	96	89	76	74
25	128	119	101	98
35	158	149	124	122
50	200	187	156	150
70	253	235	195	190
95	303	282	232	222
120	360	333	273	266
150	413	383	311	301
185	471	436	352	345
240	562	519	417	417
300	642	593	473	-
400	761	702	554	-
500	873	803	630	-

These ratings are based on 30°C ambient air temperature and 15°C ambient soil temperature. Maximum conductor temperature 90°C. Copyright Standard New Zealand 2011. This data is based on content from Table 14, AS/NZS 3008.1.2:2010. For other conditions refer to the Standard for full details.

Approx. de-rating for different Ambient Temp.	°C	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Factor		1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.65	0.58	0.50	0.41

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