






Table 3

Current carrying capacities of three single core 0.6/1 kV or 1.9/3.3kV unscreened flexible cables with R-110 or X-110 insulation

Conductor Size mm ²	Current carrying capacity, A				
	Unenclosed				Enclosed
	Spaced 	Spaced from surface 	Touching 	Exposed to sun 	Wiring enclosed in air 
	Cu	Cu	Cu	Cu	Cu
1	27	24	22	19	19
1.5	33	29	28	24	25
2.5	45	39	36	31	33
4	59	51	48	41	43
6	75	65	61	51	54
10	106	91	86	72	75
16	139	120	112	94	97
25	185	159	149	124	129
35	229	197	184	153	158
50	289	249	232	192	203
70	364	312	292	240	250
95	439	378	352	288	296
120	521	447	417	339	354
150	601	516	482	391	404
185	689	592	552	446	469
240	829	712	663	534	576
300	958	820	764	612	655
400	1155	982	915	730	810
500	1348	1138	1059	841	924
630	1598	1327	1235	977	1063

These ratings are based on 30°C ambient air temperature and 15°C ambient soil temperature. Maximum conductor temperature 110°C. Copyright Standard New Zealand 2011. This data is based on content from Table 9, 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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