






Table 2

Current carrying capacities of three single core 0.6/1 kV unshielded flexible cables with R-90 or X-90 insulation

Conductor Size	Current carrying capacity, A				
	Unenclosed				Enclosed
	Spaced 	Spaced from surface 	Touching 	Exposed to sun 	Wiring enclosed in air 
mm ²	Cu	Cu	Cu	Cu	Cu
1	22	19	18	14	17
1.5	28	24	22	18	21
2.5	36	32	30	23	26
4	50	42	40	30	34
6	63	54	51	37	45
10	88	76	70	53	61
16	117	100	94	69	80
25	156	133	125	91	103
35	195	166	155	113	130
50	245	210	196	141	158
70	311	265	248	177	201
95	375	319	298	211	235
120	447	381	354	249	282
150	517	440	409	286	320
185	594	505	470	326	367
240	716	608	565	387	430
300	827	701	650	442	504
400	1000	840	780	525	586
500	1168	972	903	601	693
630	1382	1133	1052	693	791

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 8, 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

Copyright Standards New Zealand 2011. Selected tables from AS/NZS 3008.1.2:2010 Electrical installations - Selection of cables - Cables for alternating voltages up to and including 0.6/1 kV - Typical New Zealand conditions have been reproduced with permission from Standards New Zealand under Licence. Please refer to Standards New Zealand for the complete Standard available for purchase at www.standards.co.nz.

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.