










TABLE 2

CURRENT CARRYING CAPACITIES OF THREE SINGLE CORE 0.6/1 KV UNSCREENED CABLES WITH R-90 OR X-90 INSULATION

1	2	3	4	5	6	7	8	9	10
Conductor size	Current-carrying capacity, A								
	Unenclosed non-metallic wiring enclosure			Enclosed		Buried direct	Underground non-metallic wiring enclosure		
	Spaced	Spaced from surface	Touching	Non-metallic wiring enclosure in air	In non-metallic wiring enclosure or unenclosed partially surrounded by thermal insulation	Completely surrounded by thermal insulation			
									
mm ²	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	21	18	18	15	11	9	26	19	24
1.5	28	23	22	20	13	11	33	25	30
2.5	39	33	31	28	19	15	45	34	42
4	51	44	41	36	31	21	59	44	54
6	65	55	52	46	40	26	73	56	66
10	89	76	72	64	55	35	97	74	87
16	121	101	95	86	73	47	123	95	112
25	160	138	127	121	101	64	161	123	144
35	198	171	160	138	116	79	193	150	171
50	242	209	193	171	143	-	230	182	209
70	308	264	248	209	176	-	278	225	251
95	385	330	308	253	215	-	337	268	300
120	451	385	358	297	248	-	380	310	348
150	517	446	413	341	281	-	428	353	391
185	605	517	479	391	325	-	482	401	449
240	726	616	572	462	385	-	556	471	519
300	847	715	660	534	440	-	631	546	599
400	990	836	770	616	512	-	717	621	685
500	1155	957	891	715	594	-	803	717	770
630	1353	1111	1034	836	693	-	899	813	888

These ratings are based on 30°C ambient air temperature and 15°C ambient soil temperature.
Maximum conductor temperature 90°C - For other conditions refer to AS/NZS 3008.1.2:1998

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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