

## NYY & NYCY unarmoured power cables

These charts relate, to unarmoured power cables with PVC core insulation and PVC outer sheathing, such as **NYY & NYCY**. The figures shown are to be considered as guiding values only.

Current Carrying Capacity in Ampere (Amps)					
Based on laying in ground with an ambient ground temperature of 20°C					
Nominal Area (mm <sup>2</sup> )	NYY type (unscreened)			NYCY type (screened)	
	2-3 single core cables, trefoil	multicore, 3 or 4 loaded cores	one single core cable*	2-3 single core cables, trefoil	multicore, 3 or 4 loaded cores
1.5	30	27	41	31	27
2.5	39	36	55	40	36
4.0	50	47	71	51	47
6.0	62	59	90	63	59
10	83	79	124	84	79
16	107	102	160	108	102
25	138	133	208	139	133
35	164	159	250	166	160
50	195	188	296	196	190
70	238	232	365	238	234
95	286	280	438	281	280
120	325	318	501	315	319
150	365	359	563	347	357
185	413	406	639	385	402
240	479	473	746	432	463
300	541	535	848	473	518
400	614	613	975	521	579
500	693	687	1125	574	624
630	777	-	1304	636	-
800	859	-	1507	-	-
1000	936	-	1715	-	-

\* Rated current for direct current systems with a far-distanced return conductor

Conversion factors ≥ 5 core cables, 1.5mm <sup>2</sup> to 10.0mm <sup>2</sup> , against above table								
Loaded Cores:	5	7	10	14	19	24	40	61
Factor:	0.75	0.65	0.55	0.50	0.45	0.40	0.35	0.30

Conversion factors for deviating ambient air temperature								
Temperature:	10°C	15°C	20°C	25°C	35°C	40°C	45°C	50°C
Factor:	1.15	1.12	1.08	1.04	0.96	0.91	0.87	0.82

## NYY & NYCY unarmoured power cables

Continued from previous page:

<b>Current Carrying Capacity in Ampere (Amps)</b> Based on laying in free air with an ambient air temperature of 30°C					
Nominal Area (mm <sup>2</sup> )	NYY type (unscreened)			NYCY type (screened)	
	2-3 single core cables, trefoil	multicore, 3 or 4 loaded cores	one single core cable*	2-3 single core cables, trefoil	multicore, 3 or 4 loaded cores
1.5	21	19.5	27	22	19.5
2.5	28	25	35	29	26
4.0	37	34	47	39	34
6.0	47	43	59	49	44
10	64	59	81	67	60
16	84	79	107	89	80
25	114	106	144	119	108
35	139	129	176	146	132
50	169	157	214	177	160
70	213	199	270	221	202
95	264	246	334	270	249
120	307	285	389	310	289
150	352	326	446	350	329
185	406	374	516	399	377
240	483	445	618	462	443
300	557	511	717	519	504
400	646	597	843	583	577
500	747	669	994	657	626
630	858	-	1180	744	-
800	971	-	1396	-	-
1000	1078	-	1620	-	-

\* Rated current for direct current systems with a far-distanced return conductor

<b>Conversion factors <math>\geq 5</math> core cables, 1.5mm<sup>2</sup> to 10.0mm<sup>2</sup>, against above table</b>								
Loaded Cores:	5	7	10	14	19	24	40	61
Factor:	0.10	0.60	0.50	0.45	0.40	0.35	0.30	0.25

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