

DIMENSIONS

No. Of Cores	Nominal cross Sectional Area mm ²	Nominal Thickness Of Insulation mm	Nominal Thickness Of Sheath mm	Nominal Overall Diameter mm	Nominal Weight Kg/Km
N2XY Power Cable - 1 core					
1	16RM	0.7	1.8	9.8	216
1	25RM	0.9	1.8	11.5	318
1	35RM	0.9	1.8	12.6	415
1	50RM	1	1.8	14.1	543
1	70RM	1.1	1.8	15.6	746
1	95RM	1.1	1.8	17.6	1000
1	120RM	1.2	1.8	19.2	1239
1	150RM	1.4	1.8	21.2	1515
1	185RM	1.6	1.8	23.1	1872
1	240RM	1.7	1.8	25.8	2403
1	300RM	1.8	1.8	27.8	2974
1	400RM	2	1.9	31.1	3834
1	500RM	2.2	2	34.9	4892
1	630RM	2.8	2.8	46.6	6544
N2XY Power Cable - 2 core					
2	1.5RE	0.7	1.8	10.1	145
2	2.5RE	0.7	1.8	10.9	179
2	4RE	0.7	1.8	11.8	226
2	6RE	0.7	1.8	12.8	284
2	6RM	0.7	1.8	13.1	295
2	10RM	0.7	1.8	15	416
2	16RM	0.7	1.8	17	581
2	25RM	0.9	1.8	20.4	859
2	35RM	0.9	1.8	22.5	1109
N2XY Power Cable - 3 core					
3	1.5RE	0.7	1.8	10.5	162
3	2.5RE	0.7	1.8	11.4	205
3	4RE	0.7	1.8	12.4	265
3	6RE	0.7	1.8	13.4	338
3	10RM	0.7	1.8	15.8	505
3	16RM	0.7	1.8	18	719
3	25RM	0.9	1.8	21.6	1072
3	35RM	0.9	1.8	23.9	1403
3	50SM	1	1.9	23.8	1581
N2XY Power Cable - 3 core with smaller earth conductor					
3	16RM/10RM	0.7	1.8	19.8	875.5
3	25RM/16RM	0.9/0.7	1.8	22.4	1223
3	35RM/16RM	0.9/0.7	1.8	24.3	1557
3	50RM/25RM	1/0.9	1.9	26.9	1863
3	70RM/35RM	1.1/0.9	2	30	2594
3	95RM/50RM	1.1/1	2.2	33.8	3505
3	120RM/70RM	1.2/1.1	2.3	37	4440
3	150RM/70RM	1.4/1.1	2.4	41.6	5333
3	185RM/95RM	1.6/1.1	2.6	45.8	6701
3	240RM/120RM	1.7/1.2	2.8	51.6	8674
3	300RM/150RM	1.8/1.4	3	67.2	10624

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N2XY Power Cable - 4 core					
4	1.5RE	0.7	1.8	11.3	188
4	2.5RE	0.7	1.8	12.2	240
4	4RE	0.7	1.8	13.3	314
4	4RM	0.7	1.8	14	335
4	6RE	0.7	1.8	14.5	408
4	6RM	0.7	1.8	14.9	421
4	10RM	0.7	1.8	17.1	615
4	16RM	0.7	1.8	19.6	885
4	25RM	0.9	1.8	23.7	1330
4	35RM	0.9	1.8	26.2	1758
4	50RM	1	2	27.1	2082
4	70RM	1.1	2.1	31.4	2937
4	95RM	1.1	2.2	35	3955
4	120RM	1.2	2.4	39.3	4979
4	150RM	1.4	2.6	43.6	6129
4	185RM	1.6	2.7	48	7591
4	240RM	1.7	2.9	53.9	9875
4	300RM	1.8	2.6	68.9	15124
N2XY Power Cable - 5 core					
5	1.5RE	0.7	1.8	12.1	218
5	2.5RE	0.7	1.8	13.1	281
5	4RE	0.7	1.8	14.3	372
5	4RM	0.7	1.8	15.2	397
5	6RE	0.7	1.8	15.6	486
5	6RM	0.7	1.8	16.1	502
5	10RM	0.7	1.8	18.6	740
5	16RM	0.7	1.8	21.3	1071
5	25RM	0.9	1.8	25.9	1619
5	35RM	0.9	1.8	28.8	2138
5	50RM	1	2.1	29.4	2578
5	70RM	1.1	2.2	33.7	3616
5	95RM	1.1	2.4	38.6	4933
5	120RM	1.2	2.5	42.6	6153
5	150RM	1.4	2.7	47.7	7587
5	185RM	1.6	2.9	52.8	9454
5	240RM	1.7	3.1	58.7	12242
N2XY Power Cable - 7 core					
7	1.5RE	0.7	1.8	12.9	260
7	2.5RE	0.7	1.8	14	342
7	4RE	0.7	1.8	15.4	461
7	4RM	0.7	1.8		490
N2XY Power Cable – 10 core					
10	1.5RE	0.7	1.8	15.6	357
10	2.5RE	0.7	1.8	17.2	475
10	4RE	0.7	1.8	19	646
10	4RM	0.7	1.8	20.2	688

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N2XY Power Cable – 12 core					
12	1.5RE	0.7	1.8	16.1	394
12	2.5RE	0.7	1.8	17.6	528
N2XY Power Cable – 14 core					
14	1.5RE	0.7	1.8	16.8	436
14	2.5RE	0.7	1.8	18.5	592
N2XY Power Cable – 16 core					
16	4RM	0.7	1.8	23	971
N2XY Power Cable – 19 core					
19	1.5RE	0.7	1.8	18.4	543
19	2.5RE	0.7	1.8	20.3	746
N2XY Power Cable – 24 core					
24	1.5RE	0.7	1.8	21.2	675
24	2.5RE	0.7	1.8	23.4	931
N2XY Power Cable – 30 core					
30	1.5RE	0.7	1.8	22.3	788
30	2.5RM	0.7	1.8	26.3	1164
N2XY Power Cable – 40 core					
40	1.5RE	0.7	1.8	24.6	995
40	2.5RE	0.7	1.9	27.5	1416

CONDUCTORS

Class 1 Solid Conductors for Single-Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Maximum Dc Resistance Of Conductor At 20°C	
	Circular, Annealed Copper Conductors	
	Plain ohms/km	
0.75	24.5	
1	18.1	
1.5	12.1	
2.5	7.41	
4	4.61	
6	3.08	

Class 2 Stranded Conductors for Single-Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Minimum No. Of Wires In The Conductor		Maximum Resistance Of Conductor At 20°C
	Circular	Circular Compacted	Annealed Copper Conductor
	Cu	Cu	Plain Wires ohms/km
4	7	6	4.51
6	7	6	3.08
10	7	6	1.83
16	7	6	1.15
25	7	6	0.727
35	7	6	0.524
50	19	6	0.387
70	19	12	0.268
95	19	15	0.193
120	37	18	0.153
150	37	18	0.124
185	37	30	0.0991
240	37	34	0.0754
300	61	34	0.0601
400	61	53	0.0470
500	61	53	0.0366

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	Single Core				2 - 40 Core	
	In Ground		In Air		In Ground Amps	In Air Amps
	Flat Amps Amps	Trefoil Amps	Flat Amps Amps	Trefoil Amps		
1.5	-	-	-	-	31	24
2.5	-	-	-	-	40	32
4	82	54	57	44	52	42
6	102	67	72	56	64	53
10	136	89	99	77	86	74
16	176	115	131	102	112	98
25	229	148	177	138	145	133
35	275	177	217	170	174	162
50	326	209	265	207	206	197
70	400	256	336	263	254	250
95	480	307	415	325	305	308
120	548	349	485	380	348	359
150	616	393	557	437	392	412
185	698	445	646	507	444	475
240	815	517	774	604	517	564
300	927	663	901	697	585	649
400	1064	749	1060	811	-	-
500	1227	843	1252	940	-	-

DE-RATING FACTORS

For Ground Temperatures other than 20°C

Ground Temperature	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
De-Rating Factor	1.07	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76

For Air Temperatures other than 30°C

Air Temperature	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71