

# Power Cables



Catalog Number	No. and Nominal sectional area of conductors	Minimum No. of wires in phase conductor	Nominal insulation thickness	Nominal sheath thickness	Approximate outer diameter	Approximate cable weight	Minimum bending radius	Maximum conductor resistance at 20 °C	Short circuit rating (1) (sec)	Current rating (2)	Voltage Drop (5)	Standard supply lengths
	No. x mm <sup>2</sup>	-	mm	mm	mm	kg/km	mm	Ω/km	kA	In Air (3)	Buried (4)	Single Phase AC
<b>N2XY FR1 COPPER SHAPED CONDUCTORS</b>												
18320596	5x1.5	1	0.7	1.8	13	240	156	12.1	0.21	24	30	-
18320596	5x2.5	1	0.7	1.8	14	310	168	7.41	0.36	32	40	-
18340596	5x4	1	0.7	1.8	15	410	180	4.61	0.57	42	52	-
18350596	5x6	1	0.7	1.8	16.5	520	198	3.08	0.86	53	64	-
18103396	5x10	6	0.7	1.8	19.5	770	234	1.43	73	86	4.6	1000
18323596	5x16	6	0.7	1.8	22.5	1150	270	1.15	2.9	96	111	-
18323596	5x25	6	0.9	1.8	26.5	1700	318	0.727	3.6	130	143	-
18109496	5x35	6	0.9	1.8	31	2250	372	0.524	5.0	160	173	-
<b>N2XY FR1 COPPER ROUND CONDUCTORS ENHANCED FLAME RETARDANT BEHAVIOUR</b>												
18106196	3x25+16	6	0.9/0.7	1.8	23	1200	276	0.727	3.6	130	143	-
18106296	3x35+16	6	0.9/0.7	1.8	25	1520	300	0.524	5.0	160	173	-
18106796	3x50+25	6	1.0/0.9	1.8	29	2050	348	0.387	7.2	195	205	-
18107396	3x70+35	12	1.1/0.9	1.9	33	2800	396	0.268	10.0	247	252	-
18107796	3x95+50	15	1.1/1.0	2.1	37	3300	444	0.193	13.6	303	-	0.45
18108096	3x120+70	18	1.2/1.1	2.2	40.5	4650	486	0.153	17.2	335	346	-
18108396	3x150+70	18	1.4/1.1	2.3	45	5530	540	0.124	21.5	407	390	-
18108496	3x185+95	30	1.6/1.1	2.5	51	7150	612	0.0991	26.5	469	441	-
18108596	3x240+120	34	1.7/1.2	2.7	56.5	9200	678	0.0754	34.3	551	511	-
18109196	4x25	6	0.9	1.8	23	1280	276	0.727	3.6	130	143	-
18109696	4x35	6	0.9	1.8	25	1690	300	0.524	5.0	160	173	-
18109796	4x50	6	1.0	1.9	29	2200	348	0.387	7.2	195	205	-
18110966	4x70	12	1.1	2.0	33	3100	396	0.268	10.0	247	252	-
18110996	4x70	12	1.1	2.1	37	4200	444	0.193	13.6	303	-	0.45
18402396	4x95	15	1.1	2.1	40.5	5300	486	0.153	17.2	335	346	-
18103996	4x120	18	1.2	2.3	45	6500	540	0.124	21.5	407	390	-
18408696	4x150	18	1.4	2.4	45	8700	612	0.0991	26.5	469	441	-
18408696	4x185	30	1.6	2.6	51	8070	678	0.0754	34.3	551	511	-
18119497	4x240	34	1.7	2.8	56.5	10470	678	0.0754	34.3	551	511	-
<b>NA2XY FR1 ALUMINIUM ROUND CONDUCTORS</b>												
18333596	3x1.5	1	0.7	1.8	11	175	132	12.1	0.21	24	30	31
18333696	3x2.5	1	0.7	1.8	12	210	144	7.41	0.36	32	40	19
18147696	3x4	1	0.7	1.8	13	280	155	4.61	0.57	42	52	12
18340896	3x6	1	0.7	1.8	14	360	168	3.08	0.86	53	64	7.9
18333796	4x1.5	1	0.7	1.8	12	200	144	12.1	0.21	24	30	-
18333796	4x2.5	1	0.7	1.8	13	260	174	7.41	0.36	32	40	-
18333796	4x4	1	0.7	1.8	14	340	168	4.61	0.57	42	52	-
18333796	4x6	1	0.7	1.8	15.5	430	186	3.08	0.86	53	64	-
18122196	5x1.5	1	0.7	1.8	13	240	155	12.1	0.21	24	30	-
18336696	5x2.5	1	0.7	1.8	14	310	174	7.41	0.36	32	40	-
18336796	5x4	1	0.7	1.8	15	310	168	4.61	0.57	42	52	-
18381896	5x6	1	0.7	1.8	16.5	520	198	3.08	0.86	53	64	-
<b>NA2XY FR1 ALUMINIUM SHAPED CONDUCTORS</b>												
33709696	3x25+16	6	0.9/0.7	1.8	730	282	1.200	2.35	100	111	-	2.7
33709796	3x35+16	6	0.9/0.7	1.8	25.5	900	306	0.868	3.29	122	132	-
33710296	3x50+25	6	1.0/0.9	1.8	29	1150	348	0.641	4.7	147	157	-
33711096	3x70+35	12	1.1/0.9	1.9	35	1650	420	0.443	6.6	189	195	-
33711296	3x95+50	15	1.1/1.0	2.1	37.5	2100	450	0.320	8.9	232	233	-
33713096	3x120+70	15	1.2/1.1	2.2	41.5	2700	498	0.253	11.3	270	266	-
33714096	3x150+70	15	1.4/1.1	2.3	45	3050	540	0.206	14.1	308	299	-
33715096	3x185+95	30	1.6/1.1	2.5	51	3950	612	0.164	17.4	357	340	-
33716096	3x240+120	30	1.7/1.2	2.7	57	5050	684	0.125	22.6	435	401	-
<b>NA2XY FR1 ALUMINIUM SHAPED CONDUCTORS</b>												
33709597	3x25+16	6	0.9/0.7	1.8	23	630	276	1.200	2.35	100	111	-
33709797	3x35+16	6	0.9/0.7	1.8	25	770	300	0.868	3.29	122	132	-
33710196	3x50+25	6	1.0/0.9	1.8	29	1050	348	0.641	4.7	147	157	-
33711196	3x70+35	12	1.1/0.9	1.9	33	1330	396	0.443	6.6	189	195	-
33712196	3x95+50	15	1.1/1.0	2.1	37	1550	444	0.320	8.9	232	233	-
33712296	3x120+70	15	1.2/1.1	2.2	40.5	2020	486	0.253	11.3	270	266	-
33714296	3x150+70	15	1.4/1.1	2.3	45	2500	540	0.206	14.1	308	299	-
33715296	3x185+95	30	1.6/1.1	2.5	51	3150	612	0.164	17.4	357	340	-
33709896	4x25	6	0.9	1.8	23	700	276	1.200	2.35	100	111	-
33725096	3x240+120	30	1.7/1.2	2.7	56.5	4000	678	0.125	22.6	435	401	-
33709996	4x35	6	0.9	1.8	25	800	300	0.868	3.29	122	132	-
33711296	4x70	12	1.1	2.0	33	1300	420	0.443	6.6	189	195	-
33712096	4x95	15	1.1	2.1	37	1750	444	0.320	8.9	232	233	-
33713196	4x120	15	1.2	2.3	40.5	2200	486	0.253	11.3	270	266	-
33714396	4x150	15	1.4	2.4	45	2750	540	0.206	14.1	308	299	-
33715396	4x185	30	1.6	2.6	51	3300	612	0.164	17.4	357	340	-
33716196	4x240	30	1.7	2.8	56.5	4200	678	0.125	22.6	435	401	-

The information given in this page is subject to change without notice.

(1) Short circuit rating is based on an initial conductor temperature of 90°C and a final temperature of 230°C.

(2) Current rating based upon operation at 90°C conductor, three-phase a.c. load. According to VDE 0298.

(3) Single cable laid in freely circulating air at 30°C, protected against direct thermal radiation due to sun, etc.

(4) Single cable directly buried at 0.7 m deep in soil at 20°C, with 1 K/m/W thermal resistivity. Load factor 0.7.

(5) Voltage drop according to BS 7671:1993.3 assuming that the conductor temperature is 90°C, the load is balanced and the phase angle of the cable equals that of the load. Single-phase or three-phase.

TEMPERATURE RATING FACTORS (Protection against short-circuit only). According to BS 7671:1993

Ambient Temperature °C 20 25 30 35 40 45 50 55 60 65

Correction factor air 1.08 1.04 1.00 0.96 0.91 0.87 0.82 0.76 0.71

Correction factor ground 1.00 0.96 0.93 0.89 0.85 0.80 0.76