



# NYY-J / NYY-O power cable, 0,6/1kV, VDE approved



## Technical data

- Power and control cable to DIN VDE 0276 part 603 S1, HD 603.1 and IEC 60502, 7 core and above to DIN VDE 0276 part 627, HD 627 S1 and IEC 60502
- **Temperature range**  
flexing -5 °C to +50 °C  
fixed installation -40 °C to +70 °C
- Permissible **operating temperature** at conductor +70 °C
- Permissible **short circuit temperature** +160 °C (short circuit duration 5 sec.)
- **Nominal voltage** U<sub>0</sub>/U 0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip for Cu-conductor = 50 N/mm<sup>2</sup>
- **Minimum bending radius**  
for single core approx. 15x cable ø  
for multi core approx. 12x cable ø
- **Power ratings table**  
see Technical Informations
- **Caloric load values**  
see Technical Informations

## Cable structure

- Plain copper conductor, to DIN VDE 0295 cl. 1 or cl. 2 solid or stranded type, BS 6360 cl. 1 or cl. 2, IEC 60228 and HD 383
- PVC core insulation, DIV4 to HD 603.1
- Cores stranded concentrically
- Colour coded to DIN VDE 0293-308, 0276 part 603 or HD 186
- Core colour for 3+½ conductor  
**J-type:** gnye (½), bn, bk, gy  
**O-type:** bu (½), bn, bk, gy
- PVC outer jacket, DMV5 to HD 603.1
- Sheath colour black

## Properties

- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Highest permissible voltage**
- Direct current systems 1,8 kV
- Alternating current systems, single-phase systems 1,4 kV  
Both conductors insulated, single-phase systems 0,7 kV  
One conductor earthed, three-phase systems 1,2 kV  
With concentric conductor and a cross-section of 240 mm<sup>2</sup> and above 3,6 kV

## Note

- re = round conductor, single-wire;  
rm = round conductor, multiple-wire;  
sm = stranded, sectional core.
- Also available in NYFGBY, NYBY versions etc.
- 2 cores = adapted to DIN VDE.
- **In respect to 3+½ conductors**  
Whereby only one conductor is allowed to contain a smaller cross-section (as per DIN VDE 0276 part 603 table 5) and permitted to place as insulated core (gree-yellow and blue as ½-conductor), stranded in layer.

## Application

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

☞ The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

No. cores x cross-sec. mm <sup>2</sup>		Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
1 x 4	re	9,0	38,0	115,0	32001	12	32089	12
1 x 6	re	9,5	58,0	135,0	32002	10	32090	10
1 x 10	re	10,0	96,0	179,0	32003	8	32091	8
1 x 16	re	11,0	154,0	245,0	32004	6	32092	6
1 x 25	rm	12,0	240,0	360,0	32005	4	32093	4
1 x 35	rm	13,0	336,0	470,0	32006	2	32094	2
1 x 50	rm	15,0	480,0	620,0	32007	1	32095	1
1 x 70	rm	16,5	672,0	810,0	32008	2/0	32096	2/0
1 x 95	rm	19,0	912,0	1110,0	32009	3/0	32097	3/0
1 x 120	rm	20,5	1152,0	1360,0	32010	4/0	32098	4/0
1 x 150	rm	22,5	1440,0	1670,0	32011	300 kcmil	32099	300 kcmil
1 x 185	rm	25,0	1776,0	2050,0	32012	350 kcmil	32100	350 kcmil
1 x 240	rm	28,0	2304,0	2630,0	32013	500 kcmil	32101	500 kcmil
1 x 300	rm	30,0	2880,0	3200,0	32014	600 kcmil	32102	600 kcmil
1 x 400	rm	34,0	3840,0	4150,0	32015	750 kcmil	32103	750 kcmil
1 x 500	rm	38,0	4800,0	5200,0	32556	1000 kcmil	32558	1000 kcmil
1 x 630	rm	43,0	6048,0	6650,0	32557	-	32559	-

Continuation ▶



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No. cores x cross-sec. mm²		Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
2 x 1,5	re	11,0	29,0	175,0	32016	16	32104	16
2 x 2,5	re	12,0	48,0	215,0	32017	14	32105	14
2 x 4	re	14,0	77,0	295,0	32018	12	32106	12
2 x 6	re	15,0	115,0	370,0	32019	10	32107	10
2 x 10	re	16,5	192,0	495,0	32020	8	32108	8
2 x 16	re	18,5	307,0	670,0	32021	6	32109	6
2 x 25	rm	23,5	480,0	960,0	32022	4	32110	4
3 x 1,5	re	11,5	43,0	195,0	32023	16	32111	16
3 x 2,5	re	12,5	72,0	250,0	32024	14	32112	14
3 x 4	re	14,0	115,0	340,0	32025	12	32113	12
3 x 6	re	15,0	173,0	430,0	32026	10	32114	10
3 x 10	re	17,0	288,0	590,0	32027	8	32115	8
3 x 16	re	19,0	461,0	820,0	32028	6	32116	6
3 x 25	rm	24,0	720,0	1520,0	32029	4	32117	4
3 x 35	sm	25,0	1008,0	1450,0	32030	2	32118	2
3 x 50	sm	26,5	1440,0	1850,0	32031	1	32119	1
3 x 70	sm	30,0	2016,0	2450,0	32032	2/0	32120	2/0
3 x 95	sm	34,5	2736,0	3500,0	32033	3/0	32121	3/0
3 x 120	sm	37,0	3456,0	4100,0	32034	4/0	32122	4/0
3 x 150	sm	40,0	4320,0	4900,0	32293	300 kcmil	32296	300 kcmil
3 x 185	sm	46,0	5328,0	6500,0	32294	350 kcmil	32297	350 kcmil
3 x 240	sm	51,0	6912,0	8500,0	32295	500 kcmil	32298	500 kcmil
4 x 1,5	re	12,0	58,0	230,0	32044	16	32132	16
4 x 2,5	re	13,5	96,0	300,0	32045	14	32133	14
4 x 4	re	15,0	154,0	410,0	32046	12	32134	12
4 x 6	re	16,5	230,0	520,0	32047	10	32135	10
4 x 10	re	18,5	384,0	730,0	32048	8	32136	8
4 x 16	re	21,5	614,0	1045,0	32049	6	32137	6
4 x 25	rm	26,0	960,0	1640,0	32050	4	32138	4
4 x 35	sm	27,5	1344,0	1760,0	32051	2	32139	2
4 x 50	sm	30,0	1920,0	2350,0	32052	1	32140	1
4 x 70	sm	34,0	2688,0	3100,0	32053	2/0	32141	2/0
4 x 95	sm	39,0	3648,0	4250,0	32054	3/0	32142	3/0
4 x 120	sm	42,5	4608,0	5300,0	32055	4/0	32143	4/0
4 x 150	sm	47,5	5760,0	6400,0	32056	300 kcmil	32144	300 kcmil
4 x 185	sm	52,0	7104,0	8500,0	32057	350 kcmil	32145	350 kcmil
4 x 240	sm	58,0	9216,0	11000,0	32058	500 kcmil	32146	500 kcmil
5 x 1,5	re	13,0	72,0	270,0	32059	16	32147	16
5 x 2,5	re	14,5	120,0	360,0	32060	14	32148	14
5 x 4	re	16,5	192,0	490,0	32061	12	32149	12
5 x 6	re	18,0	288,0	600,0	32062	10	32150	10
5 x 10	re	20,0	480,0	890,0	32063	8	32151	8
5 x 16	re	22,5	768,0	1255,0	32064	6	32152	6
5 x 25	rm	28,0	1200,0	1960,0	32065	4		
5 x 35	rm	34,0	1680,0	2400,0	32300	2		
5 x 50	rm	40,0	2400,0	3500,0	32257	1		
7 x 1,5	re	15,5	101,0	310,0	32066	16	32153	16
7 x 2,5	re	16,5	168,0	450,0	32076	14	32163	14
7 x 4	re	18,5	269,0	640,0	32086	12		
7 x 6	re	20,0	405,0	850,0	32087	10	32174	10
7 x 10	re	23,5	672,0	1200,0	32088	8	32175	8
10 x 1,5	re	18,0	144,0	380,0	32067	16	32154	16
10 x 2,5	re	19,5	240,0	520,0	32077	14	32164	14
12 x 1,5	re	19,0	173,0	420,0	32068	16	32155	16
12 x 2,5	re	20,5	288,0	600,0	32078	14		
14 x 1,5	re	20,0	202,0	470,0	32069	16	32156	16
14 x 2,5	re	21,0	336,0	680,0	32079	14		
16 x 1,5	re	21,0	230,0	520,0	32070	16	32157	16
16 x 2,5	re	22,0	384,0	750,0	32080	14		
19 x 1,5	re	22,0	274,0	570,0	32071	16	32158	16
19 x 2,5	re	23,0	456,0	850,0	32081	14	32168	14
21 x 1,5	re	23,0	302,0	650,0	32072	16	32159	16
21 x 2,5	re	24,5	504,0	980,0	32082	14		
24 x 1,5	re	25,0	346,0	750,0	32073	16	32160	16
24 x 2,5	re	27,0	576,0	1100,0	32083	14		
30 x 1,5	re	26,0	432,0	860,0	32074	16	32161	16
30 x 2,5	re	28,0	720,0	1280,0	32084	14		
40 x 1,5	re	29,0	576,0	1070,0	32075	16	32162	16
40 x 2,5	re	31,5	960,0	1700,0	32085	14		
52 x 2,5	re	35,0	1248,0	2150,0	32169	14		
61 x 1,5	re	34,0	878,0	1680,0	32176	16		

### 3+1/2-conductors

No. cores x cross-sec. mm²		Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	J type Part no.	AWG-No.	O type Part no.	AWG-No.
3 x 25 / 16	rm/re	24,5	874,0	1530,0	32035	4	32123	4
3 x 35 / 16	sm/re	26,0	1162,0	1750,0	32036	2	32124	2
3 x 50 / 25	sm	29,0	1680,0	2350,0	32037	1	32125	1
3 x 70 / 35	sm/rm	32,0	2352,0	2850,0	32038	2/0	32126	2/0
3 x 95 / 50	sm	38,0	3216,0	3850,0	32039	3/0	32127	3/0
3 x 120 / 70	sm	41,0	4128,0	4780,0	32040	4/0	32128	4/0
3 x 150 / 70	sm	46,0	4992,0	5800,0	32041	300 kcmil	32129	300 kcmil
3 x 185 / 95	sm	51,0	6240,0	7600,0	32042	350 kcmil	32130	350 kcmil
3 x 240 / 120	sm	58,0	8064,0	9800,0	32043	500 kcmil	32131	500 kcmil
3 x 300 / 150	sm	64,0	10080,0	11500,0	32256	600 kcmil		

Dimensions and specifications may be changed without prior notice. (RQ01)