

NYY-O 0,6/1 kV, NYY-J 0,6/1 kV, NYY-JZ 0,6/1 kV**PVC INSULATED AND SHEATHED POWER CABLES****APPLICATIONS**

NYY-O 0,6/1 kV and **NYY-J 0,6/1 kV** power cables are designed for electric power transmission. They are also applied in power circuits in industrial plants and power stations and in local distribution networks.

The cables are suitable for indoor and outdoor installations, for laying in cable ducts and for direct earth burial.

CONSTRUCTION

- bare annealed copper conductors meeting requirements of PN-EN 60228 standard:
 - RE - class 1 circular single-wire,
 - RM - class 2 circular multi-wire,
 - SM - class 2 sector shaped multi-wire.
- PVC insulation – colours:
 - in accordance with PN-HD 308 standard,
 - or black and white conductor number printed on it,
 - green-yellow protective conductor in **NYY-J 0,6/1 kV** and **NYY-JZ 0,6/1 kV** cable,
- insulated conductors laid-up in layers,
- inner covering,
- black PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

N2XY-O 0,6/1 kV and **N2XY-J 0,6/1 kV** - cross-linked polyethylene (XLPE) insulated and PVC sheathed power cables with better electric performances, smaller dimensions and weight in relation to the PVC insulated cables.

N2XH-O 0,6/1 kV and **N2XH-J 0,6/1 kV** - halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

Steel wire or **steel tape armoured cables** as above applied in locations where enhanced protection against mechanical damages is required.

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CHARACTERISTICS

Conductor cross-section	mm ²	1,5	2,5	4	6	10	16	25	35
DC conductor resistance at 20°C, maximum	Ω/km	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524
Conductor cross-section	mm ²	50	70	95	120	150	185	240	300
DC conductor resistance at 20°C, maximum	Ω/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601

Operating voltage U ₀ /U	0.6/1 kV	Temperature range	
Voltage test	4.0 kV rms	during operation	from - 30 to + 70°C
Insulation resistance, minimum	20 MΩ·km	during installation	from - 5 to + 50°C
Conductor temperature limit		Minimum bending radius	
in work conditions	+ 70°C	single wire cables	15 x cable diameter
in short-circuit	+ 160°C	multi wire cables	12 x cable diameter
		Cable combustibility	flame retardant
		Combustibility tests	PN-EN 60332-1-2, IEC 60332-1-2
		Reference standards	PN-HD 603 S1, DIN VDE 0276 part 603, IEC 60502-1

CE = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
NYY-O				
1013 008	1 x 1,5 RE	7.0	14.4	65.0
1013 007	1 x 2,5 RE	7.4	24.0	85.0
1013 009	1 x 4,0 RE	8.3	38.4	110.0
1013 010	1 x 6,0 RE	8.8	58.0	135.0
1013 011	1 x 10 RE	9.6	96.0	185.0
1013 012	1 x 16 RE	10.6	154.0	260.0
1013 013	1 x 25 RM	12.4	240.0	365.0
1013 014	1 x 35 RM	13.4	336.0	475.0
1013 015	1 x 50 RM	15.0	480.0	615.0
1013 016	1 x 70 RM	17.0	672.0	830.0
1013 005	1 x 95 RM	19.0	912.0	1120.0
1013 017	1 x 120 RM	20.5	1152.0	1360.0
1013 018	1 x 150 RM	22.0	1440.0	1650.0
1013 019	1 x 185 RM	24.5	1776.0	2040.0
1013 020	1 x 240 RM	27.0	2304.0	2620.0
1013 021	1 x 300 RM	30.0	2880.0	3270.0
NYY-O				
1013 022	2 x 1,5 RE	12.0	28.8	193
1013 023	2 x 2,5 RE	12.8	48	235
1013 024	2 x 4,0 RE	14.5	77	320
1013 025	2 x 6,0 RE	15.5	115	385
1013 026	2 x 10 RE	17.2	192	520
1013 027	2 x 16 RE	19.2	307	705
1013 028	2 x 25 RM	22.8	480	1010
NYY-J				
1013 003	3 x 1,5 RE	12.4	43.2	220
1013 004	3 x 2,5 RE	13.3	72.0	270

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1013 029	3 x 4,0 RE	15.2	115.0	375
1013 030	3 x 6,0 RE	16.3	173.0	460
1013 031	3 x 10 RE	18.1	288.0	635
1013 032	3 x 16 RE	20.2	461.0	890
1013 033	3 x 25 RM	24.1	720.0	1270
1013 034	3 x 25 RM/ 16 RE	26.3	874.0	1550.0
1013 035	3 x 35 SM/ 16 RE	27.5	1162.0	1700.0
1013 036	3 x 50 SM/ 25 RM	30.5	1680.0	2200.0
NYY-J				
1013 044	4 x 1,5 RE	13.2	58.0	255
1013 037	4 x 2,5 RE	14.2	96.0	320
1013 045	4 x 4,0 RE	16.3	154.0	445
1013 046	4 x 6,0 RE	17.5	230.0	560
1013 047	4 x 10 RE	19.5	384.0	780
1013 048	4 x 16 RE	21.9	614.0	1100
1013 042	4 x 25 RM	26.3	960.0	1590
1013 049	4 x 35 SM	27.5	1344.0	1770
1013 050	4 x 50 SM	30.5	1920.0	2350
NYY-J				
1013 052	5 x 1,5 RE	14.0	72.0	295
1013 038	5 x 2,5 RE	15.1	120.0	370
1013 039	5 x 4,0 RE	17.5	192.0	525
1013 040	5 x 6,0 RE	18.9	288.0	660
1013 041	5 x 10 RE	21.1	480.0	935
1013 001	5 x 16 RE	23.8	768.0	1330
1013 043	5 x 25 RM	28.9	1200.0	1930
1013 053	5 x 35 SM	32.4	1680.0	2600
1013 051	5 x 50 SM	36.9	2400.0	3600

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Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
NYY-JZ				
1013 056	7 x 1,5 RE	15.0	101.0	350
1013 054	10 x 1,5 RE	18.0	144.0	480
1013 055	12 x 1,5 RE	18.5	173.0	520
1013 057	14 x 1,5 RE	19.3	202.0	575
1013 058	19 x 1,5 RE	21.0	274.0	715
1013 059	24 x 1,5 RE	24.0	346.0	880
1013 060	30 x 1,5 RE	25.2	432.0	1030
1013 061	40 x 1,5 RE	27.9	576.0	1300
NYY-JZ				
1013 062	7 x 2,5 RE	16.2	168.0	450
1013 063	10 x 2,5 RE	19.6	240.0	625

Product No.	Number of conductors x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm ²	mm	kg/km	kg/km
1013 064	12 x 2,5 RE	20.1	288.0	680
1013 065	14 x 2,5 RE	21.0	336.0	760
1013 066	19 x 2,5 RE	23.0	456.0	955
1013 067	24 x 2,5 RE	26.4	576.0	1190
1013 068	30 x 2,5 RE	27.8	720.0	1400
1013 069	40 x 2,5 RE	31.0	960.0	1790
NYY-JZ				
1013 070	7 x 4 RE	18.9	269.0	645
1013 071	10 x 4 RE	23.1	384.0	905
1013 072	12 x 4 RE	23.8	461.0	1000
1013 073	14 x 4 RE	24.9	538.0	1120
1013 074	19 x 4 RE	27.4	730.0	1430

Other cross-sections and conductor counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.