

NYCY 0,6/1 kV**PVC INSULATED AND SHEATHED POWER CABLES WITH CONCENTRIC CONDUCTOR**Operating voltage
0,6/1 kVTest voltage
4 kVTemp. range
fixed installation
from - 30°C to + 70°CTemp. range
during installation
from - 5°C to + 50°CSingle-core
15xDMulticore
12xDFlame retardant
PN-EN 60332-1-2Indoor
applicationOutdoor
application

Direct burial



UV resistance

APPLICATIONS

NYCY 0,6/1 kV power cables are designed for electric power transmission. They are also applied in control, protection and monitoring systems in power engineering.

The cables are suitable for industrial applications, such as production plants or air-conditioning systems operating in dry and wet locations, also for outdoor installations, in cable ducts or 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:
 - to 5 wires in accordance with PN-HD 308 S2 standard,
 - above 5 wires in accordance with EN 50334 standard,
- insulated conductors laid-up in layers,
- inner covering,
- concentric conductor formed by bare copper wires with counter helix of copper tape,
- polyester tape,
- black PVC cable sheath, other colours also available.

AVAILABLE UPON REQUEST

N2XCH 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.

NHXCH FE180 PH90/E30-E90 0,6/1 kV – fire-resistant power cables with halogen free insulation and sheath, intended for fire devices, operating in case of a fire (e.g. for supplying water pumps, smoke removal fans).

NYCY 0,6/1 kV

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

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
1293 003	2 x 1,5 RE/1,5	13.3	52	240
1293 006	2 x 2,5 RE/2,5	14.5	80	295
1293 017	2 x 4 RE/4	16.2	123	390
1293 007	2 x 6 RE/6	17.8	182	505
1293 018	2 x 10 RE/10	19.7	312	670
1293 008	2 x 16 RE/16	22.2	489	940
1293 005	3 x 1,5 RE/1,5	13.6	66	265
1293 009	3 x 2,5 RE/2,5	14.6	104	320
1293 004	3 x 4 RE/4	16.9	161	450
1293 010	3 x 6 RE/6	18.0	240	540
1293 011	3 x 10 RE/10	20.4	408	780
1293 012	3 x 16 RE/16	23.2	643	1140
1293 001	4 x 1,5 RE/1,5	14.4	81	300
1293 013	4 x 2,5 RE/2,5	15.5	128	370
1293 014	4 x 4 RE/4	18.0	200	525
1293 019	4 x 6 RE/6	19.2	297	645
1293 002	4 x 10 RE/10	21.8	504	940
1293 020	4 x 16 RE/16	24.4	796	1310
1293 015	4 x 25 RM/16	28.8	1152	1820
1293 021	4 x 35 RM/16	31.2	1536	2340
1293 022	5 x 1,5 RE/1,5	15.3	95	340
1293 023	5 x 2,5 RE/2,5	16.5	152	430
1293 024	5 x 4 RE/4	19.2	238	615
1293 025	5 x 6 RE/6	20.6	355	760
1293 026	5 x 10 RE/10	23.4	600	1110
1293 027	7 x 1,5 RE/2,5	16.3	133	405
1293 028	7 x 2,5 RE/2,5	17.5	200	505
1293 029	7 x 4 RE/4	20.1	315	715

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
1293 030	7 x 6 RE/6	22.0	470	925
1293 031	10 x 1,5 RE/2,5	19.1	176	535
1293 032	10 x 2,5 RE/4	20.9	286	695
1293 033	10 x 4 RE/6	24.7	451	1030
1293 034	12 x 1,5 RE/2,5	19.6	205	585
1293 035	12 x 2,5 RE/4	21.4	334	760
1293 036	12 x 4 RE/6	25.4	528	1120
1293 037	14 x 1,5 RE/2,5	20.4	234	645
1293 016	14 x 2,5 RE/6	22.6	403	870
1293 038	16 x 1,5 RE/4	21.4	276	715
1293 039	16 x 2,5 RE/6	23.6	451	960
1293 040	19 x 1,5 RE/4	22.3	320	795
1293 041	19 x 2,5 RE/6	24.6	523	1080
1293 042	21 x 1,5 RE/6	23.5	369	885
1293 043	21 x 2,5 RE/10	25.6	571	1170
1293 044	24 x 1,5 RE/6	25.6	413	1010
1293 045	24 x 2,5 RE/10	28.0	696	1320
1293 046	30 x 1,5 RE/6	26.8	499	1160
1293 047	30 x 2,5 RE/10	29.6	840	1560
1293 048	40 x 1,5 RE/6	29.3	696	1420
1293 049	40 x 2,5 RE/10	33.0	1080	1990

Other cross-sections and conductor counts available on request.

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