

# Power cable NYCY



**Application:** For fixed installation indoors, outdoors, in the ground, in water and in concrete.

## Construction and technical data:

<b>CPR-classification according to EN 50575:</b>	Eca
<b>Standard:</b>	VDE 0276-603, VDE 0276-627 ( $\geq 5$ cores)
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	class 1, from 25 sqmm class 2
<b>Insulation:</b>	PVC DIV 4
<b>Concentric conductor:</b>	Cu
<b>Sheathing material:</b>	PVC DMV5
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	70 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-5 - +70 °C
<b>Meter mark:</b>	yes



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

**NYCY**

**Nominal voltage U<sub>o</sub>:** 0.6 kV

**Nominal voltage U:** 1 kV

**Maximum permitted operating voltage in three-phase systems:** 1.2 kV

**Nominal voltage DC (core-earth/core-core):** 1,8/1,8 kV

**Test voltage:** 4 kV

**Core identification:** colours acc. to HD 308;  
more than 5 cores: numbers

part no.	part name		RI [Ohm/km]	Wi [mm]	l <sub>bl</sub> [A]	l <sub>be</sub> [A]	l <sub>k</sub> [kA]	L <sub>b</sub> [mH/km]	W <sub>m</sub> [mm]	R <sub>bv</sub> [mm]	Ø [mm]	F <sub>zv</sub> [N]	Cu	G [kg]
080349	01X6/6	RE	3.08	1	39	63	0.69		1.8	153	10.2	300	125	201
080030	02X1.5/1.5	RE	12.1	0.8	19	27	0.17		1.8	156	13	150	52	200
080031	02X2.5/2.5	RE	7.41	0.8	26	36	0.29		1.8	163	13.6	250	80	260
080032	02X4/4	RE	4.61	1	34	47	0.46		1.8	185	15.4	400	123	350
080033	02X6/6	RE	3.08	1	44	59	0.69		1.8	203	16.9	600	182	430
080077	02X10/10	RE	1.83	1	60	79	1.15		1.8	222	18.5	1000	312	520
080078	02X16/16 (with reference to)	RE	1.15	1	80	102	1.84		1.8	246	20.5	1600	489	720
080035	03X1.5/1.5	RE	12.1	0.8	19	27	0.17	0.343	1.8	158	13.2	225	66	220
080037	03X2.5/2.5	RE	7.41	0.8	26	36	0.29	0.317	1.8	170	14.2	375	104	280
080147	03X2.5/10	RE	7.41	0.8	26	36	0.29	0.317	1.8	173	14.4	375	192	359
080038	03X4/4	RE	4.61	1	34	47	0.46	0.316	1.8	196	16.3	600	161	390
080039	03X6/6	RE	3.08	1	44	59	0.69	0.298	1.8	207.6	17.3	900	240	500
080079	03X10/10	RE	1.83	1	60	79	1.15	0.278	1.8	240	20	1500	408	680
080080	03X16/16	RE	1.15	1	80	102	1.84	0.262	1.8	276	23	2400	643	1010
080040	04X1.5/1.5	RE	12.1	0.8	19	27	0.17	0.366	1.8	171	14.2	300	81	250
080041	04X2.5/2.5	RE	7.41	0.8	26	36	0.29	0.34	1.8	184	15.3	500	128	340
080042	04X4/4	RE	4.61	1	34	47	0.46	0.339	1.8	208	17.3	800	200	460
080043	04X6/6	RE	3.08	1	44	59	0.69	0.321	1.8	221	18.4	1200	297	580
080081	04X10/10	RE	1.83	1	60	79	1.15	0.301	1.8	252	21	2000	504	765
080082	04X16/16	RE	1.15	1	80	102	1.84	0.285	1.8	276	23	3200	796	1060
080044	05X1.5/1.5	RE	12.1	0.8	19	27	0.17	0.375	1.8	180	15	375	95	330
080076	05X2.5/2.5	RE	7.41	0.8	26	36	0.29	0.349	1.8	192	16	625	152	400
080083	05X4/4	RE	4.61	1	34	47	0.46	0.348	1.8	228	19	1000	238	550
080084	05X6/6	RE	3.08	1	44	59	0.69	0.33	1.8	252	21	1500	355	700
080045	07X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	184	15.3	525	133	350
080046	07X2.5/2.5	RE	7.41	0.8	25	36	0.29		1.8	209	17.4	875	200	450
080047	07X4/4	RE	4.61	1	34	47	0.46		1.8	240	20	1400	315	600
080105	07X10/10 (with reference to)	RE	1.83	1	60	79	1.15		1.8	300	25	3500	792	1320
080085	07X6/6	RE	3.08	1	43	59	0.69		1.8	270	22.5	2100	470	790
080048	10X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	221	18.4	750	176	410
080049	10X2.5/4	RE	7.41	1	25	36	0.29		1.8	245	20.4	1250	286	600
080086	10X4/6	RE	4.61	0.8	34	47	0.46		1.8	282	23.5	2000	451	900
080050	12X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	233	19.4	900	205	470
080051	12X2.5/4	RE	7.41	0.8	25	36	0.29		1.8	246	20.5	1500	334	660
080069	12X4/6	RE	4.61	1	34	47	0.46		1.8	294	24.5	2400	528	1060
080052	14X1.5/2.5	RE	12.1	0.8	19	27	0.17		1.8	245	20.4	1050	234	520
080053	14X2.5/6	RE	7.41	0.8	25	36	0.29		1.8	258	21.5	1750	403	750
080073	16X1.5/4	RE	12.1	0.8	19	27	0.17		1.8	240	20	1200	276	620
080054	16X2.5/6	RE	7.41	0.8	25	36	0.29		1.8	270	22.5	2000	451	800
080055	19X1.5/4	RE	12.1	0.8	19	27	0.17		1.8	270	22.5	1425	320	660
080056	19X2.5/6	RE	7.41	0.8	25	36	0.29		1.8	282	23.5	2375	523	940
080308	19X4/10	RE	4.61	1	34	47	0.46		1.8		27.1	3800	850	1376
080057	21X1.5/6	RE	12.1	0.8	19	27	0.17		1.8	276	23	1575	369	790

part no.	part name		RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Lb [mH/km]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
080058	24X1.5/6	RE	12.1	0.8	19	27	0.17		1.8	306	25.5	1800	413	850
080059	24X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	331	27.6	3000	696	1150
080223	24X4/10	RE	4.61	1	34	47	0.46		1.8	388	32.3	1152	1042	1813
080068	30X1.5/6	RE	12.1	0.8	19	27	0.17			318	26.5	2250	499	1020
080087	30X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	354	29.5	3750	840	1600
080074	40X1.5/10	RE	12.1	0.8	19	27	0.17		1.8	360	30	3000	696	1280
080075	40X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	396	33	5000	1080	1660
080072	52X1.5/10	RE	12.1	0.8	19	27	0.17		1.8	384	32	3900	869	1600
080088	52X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	420	35	6500	1368	2000
080089	61X1.5/10	RE	12.1	0.8	19	27	0.17		1.8	396	33	4575	998	2000
080090	61X2.5/10	RE	7.41	0.8	25	36	0.29		1.8	432	36	7625	1584	2280
080091	08X4/4 (with reference to)	RE	4.61	1	34	47	0.46		1.8	240	20	1600	360	770

RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000