

Power cable NYCY



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

Construction and technical data:

CPR-classification according to EN 50575:	Eca
Standard:	VDE 0276-603, VDE 0276-627 (≥ 5 cores)
Conductor material:	copper, bare
Conductor construction:	class 1, from 25 sqmm class 2
Insulation:	PVC DIV 4
Concentric conductor:	Cu
Sheathing material:	PVC DMV5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Meter mark:	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_o: 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 _{bl} [A]	l _{be} [A]	l _k [kA]	L _b [mH/km]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [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