

# Power cable NYCWY



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

## Construction and technical data:

<b>CPR-performance:</b>	Eca
<b>Standard:</b>	VDE 0276-603
<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>Maximum 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.*

## Core identification

Number of cores	colours
1	black
2	blue, brown
3	brown, black, grey
4	blue, brown, black, grey
5	blue, brown, black, grey, black

**NYCWY****Nominal voltage U<sub>o</sub>:** 0.6 kV**Nominal voltage U:** 1 kV**Maximum permitted operating voltage in** 1.2 kV**three-phase systems:****Nominal voltage (DC):** 1,5 kV**Test voltage:** 4 kV**Core identification:** colours acc. to VDE 0293 (HD308)

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 [kg/km]	G [kg/km]
080234	NYCWY 01X95 RM/50 SW	RM	0.193	1.6	270	281	10.9		2.2	360	24	4750	1472	1761
080235	NYCWY 01X240 RM/120 SW	RM	0.0754	2.2	462	432	27.6		2.8	489	32.6	12000	3634	4067
080001	NYCWY 02X10/10 SW	RE	1.83	1	60	79	1.15		1.8	232.8	19.4	1000	312	610
080002	NYCWY 02X16/16 SW	RE	1.15	1	80	102	1.84		1.8	244.8	20.4	1600	489	840
080336	NYCWY 02X16 RM/16 SW	RM	1.15	1	80	102	1.84		1.8	244.8	21.3	1600	489	896
080263	NYCWY 02X25/16 SW	RM	0.727	1.2	106	133	2.87		1.8		24.4	2500	662	1299
080233	NYCWY 02X25/25 SW	RM	0.727	1.2	106	133	2.87		1.8	302	25.1	2500	763	1340
080236	NYCWY 02X50 RM/25 SW	RM	0.387	1.4	160	190	8.05		1.9	364	30.3	5000	1243	2045
080003	NYCWY 03X10/10 SW	RE	1.83	1	60	79	1.15	0.278	1.8	232.8	19.4	1500	408	750
080008	NYCWY 03X16/16 SW	RE	1.15	1	80	102	1.84	0.262	1.8	256.8	21.4	2400	643	1050
080010	NYCWY 03X25/16 SW	RM	0.727	1.2	106	133	2.87	0.257	1.8	306	25.5	3750	902	1600
080012	NYCWY 03X35/16 SW	SM	0.524	1.2	129	160	4.02	0.248	1.8	331.2	27.6	5250	1190	1700
080014	NYCWY 03X50/25 SW	SM <sub>v</sub>	0.387	1.4	157	190	5.75	0.247	1.9	344.4	28.7	7500	1723	2300
080016	NYCWY 03X70/35 SW	SM <sub>v</sub>	0.268	1.4	199	234	8.05	0.238	2	393.6	32.8	10500	2410	2900
080018	NYCWY 03X95/50 SW	SM <sub>v</sub>	0.193	1.6	249	280	10.9	0.238	2.2	453.6	37.8	14250	3296	4000
080005	NYCWY 03X120/70 SW	SM <sub>v</sub>	0.153	1.6	289	319	13.8	0.233	2.3	489.6	40.8	18000	4236	5000
080007	NYCWY 03X150/70 SW	SM <sub>v</sub>	0.124	1.8	329	357	17.2	0.233	2.4	540	45	22500	5100	6000
080009	NYCWY 03X185/95 SW	SM <sub>v</sub>	0.0991	2	377	402	21.3	0.233	2.6	600	50	27750	6383	7500
080061	NYCWY 03X240/120 SW	SM <sub>v</sub>	0.0754	2.2	443	463	27.6	0.231	2.8	684	57	36000	8242	10000
080011	NYCWY 03X25/25 SW	RM	0.727	1.2	106	133	2.87	0.257	1.8	306	25.5	3750	1003	1600
080013	NYCWY 03X35/35 SW	SM	0.524	1.2	129	160	4.02	0.248	1.8	308.4	25.7	7500	1402	1850
080015	NYCWY 03X50/50 SW	SM <sub>v</sub>	0.387	1.4	157	190	5.75	0.247	1.9	344.4	28.7	7500	2000	2400
080017	NYCWY 03X70/70 SW	SM <sub>v</sub>	0.268	1.4	199	234	8.05	0.238	1.9	405.6	33.8	10500	2796	3300
080019	NYCWY 03X95/95 SW	SM <sub>v</sub>	0.193	1.6	249	280	10.9	0.238	2	453.6	37.8	14250	3791	4500
080004	NYCWY 03X120/120 SW	SM <sub>v</sub>	0.153	1.6	289	319	13.8	0.233	2.3	501.6	41.8	18000	4786	5500
080006	NYCWY 03X150/150 SW	SM <sub>v</sub>	0.124	1.8	329	357	17.2	0.233	2.4	552	46	22500	5970	6750

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 [kg/km]	G [kg/km]
080259	NYCWY 03X300/150 SW	SMv	0.0601	2.4	511	535	34.5				60.5	60000	10290	11615
080020	NYCWY 04X10/10 SW	RE	1.83	1	60	79	1.15	0.301	1.8	244.8	20.4	2000	504	870
080023	NYCWY 04X16/16 SW	RE	1.15	1	80	102	1.84	0.285	1.8	280.8	23.4	3200	796	1250
080099	NYCWY 04X16 RM/16 SW	RM	1.15	1	80	102	1.84	0.285	1.8	280.8	23.4	3200	796	1250
080025	NYCWY 04X25/16 SW	RM	0.727	1.2	106	133	2.87	0.28	1.8	331.2	27.6	5000	1142	1800
080026	NYCWY 04X35/16 SW	SM	0.524	1.2	129	160	4.02	0.271	1.8	343.2	28.6	7000	1526	2050
080027	NYCWY 04X50/25 SW	SMv	0.387	1.4	157	190	5.75	0.27	1.9	393.6	32.8	10000	2203	2700
080028	NYCWY 04X70/35 SW	SMv	0.268	1.4	199	234	8.05	0.262	1.9	441.6	36.8	14000	3082	3750
080029	NYCWY 04X95/50 SW	SMv	0.193	1.6	249	280	10.9	0.261	2.2	526.8	43.9	19000	4208	5000
080021	NYCWY 04X120/70 SW	SMv	0.153	1.6	289	319	13.8	0.256	2.3	564	47	24000	5388	6300
080022	NYCWY 04X150/70 SW	SMv	0.124	1.8	329	357	17.2	0.256	2.6	612	51	30000	6540	7600
080024	NYCWY 04X185/95 SW	SMv	0.0991	2	377	402	21.3	0.256	2.6	672	56	37000	8159	9300
080062	NYCWY 04X240/120 SW	SMv	0.0754	2.2	443	463	27.6	0.254	2.8	756	63	48000	10546	11600
080254	NYCWY 04X300/150 SW	SMv	0.0601	2.4	511	535	34.5		2.9	840	69.6	60000	13170	15331

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