

Power cable NYCWY



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
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.

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_o:** 0.6 kV**Nominal voltage U:** 1 kV**Maximum permitted operating voltage in** 1.2 kV**three-phase systems:****Nominal voltage DC (core-earth/core-core):** 1,8/1,8 kV**Test voltage:** 4 kV**Core identification:** colours acc. to VDE 0293 (HD308)

part no.	part name		RI [Ohm/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	L _b [mH/km]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
080234	01X95/50	RM	0.193	1.6	270	281	10.9		2.2	360	24	4750	1472	1761
080235	01X240/120	RM	0.0754	2.2	462	432	27.6		2.8	489	32.6	12000	3634	4067
080001	02X10/10	RE	1.83	1	60	79	1.15		1.8	232.8	19.4	1000	312	610
080002	02X16/16	RE	1.15	1	80	102	1.84		1.8	244.8	20.4	1600	489	840
080336	02X16RM/16	RM	1.15	1	80	102	1.84		1.8	244.8	21.3	1600	489	896
080263	02X25/16	RM	0.727	1.2	106	133	2.87		1.8		24.4	2500	662	1299
080233	02X25/25	RM	0.727	1.2	106	133	2.87		1.8	302	25.1	2500	763	1340
080236	02X50/25	RM	0.387	1.4	160	190	8.05		1.9	364	30.3	5000	1243	2045
080003	03X10/10	RE	1.83	1	60	79	1.15	0.278	1.8	232.8	19.4	1500	408	750
080008	03X16/16	RE	1.15	1	80	102	1.84	0.262	1.8	256.8	21.4	2400	643	1050
080010	03X25/16	RM	0.727	1.2	106	133	2.87	0.257	1.8	306	25.5	3750	902	1600
080012	03X35/16	SM	0.524	1.2	129	160	4.02	0.248	1.8	331.2	27.6	5250	1190	1700
080014	03X50/25	SMv	0.387	1.4	157	190	5.75	0.247	1.9	344.4	28.7	7500	1723	2300
080016	03X70/35	SMv	0.268	1.4	199	234	8.05	0.238	2	393.6	32.8	10500	2410	2900
080018	03X95/50	SMv	0.193	1.6	249	280	10.9	0.238	2.2	453.6	37.8	14250	3296	4000
080005	03X120/70	SMv	0.153	1.6	289	319	13.8	0.233	2.3	489.6	40.8	18000	4236	5000
080007	03X150/70	SMv	0.124	1.8	329	357	17.2	0.233	2.4	540	45	22500	5100	6000
080009	03X185/95	SMv	0.0991	2	377	402	21.3	0.233	2.6	600	50	27750	6383	7500
080061	03X240/120	SMv	0.0754	2.2	443	463	27.6	0.231	2.8	684	57	36000	8242	10000
080011	03X25/25	RM	0.727	1.2	106	133	2.87	0.257	1.8	306	25.5	3750	1003	1600
080013	03X35/35	SM	0.524	1.2	129	160	4.02	0.248	1.8	308.4	25.7	7500	1402	1850
080015	03X50/50	SMv	0.387	1.4	157	190	5.75	0.247	1.9	344.4	28.7	7500	2000	2400
080017	03X70/70	SMv	0.268	1.4	199	234	8.05	0.238	1.9	405.6	33.8	10500	2796	3300
080019	03X95/95	SMv	0.193	1.6	249	280	10.9	0.238	2	453.6	37.8	14250	3791	4500
080004	03X120/120	SMv	0.153	1.6	289	319	13.8	0.233	2.3	501.6	41.8	18000	4786	5500
080006	03X150/150	SMv	0.124	1.8	329	357	17.2	0.233	2.4	552	46	22500	5970	6750
080259	03X300/150	SMv	0.0601	2.4	511	535	34.5				60.5	60000	10290	11615
080020	04X10/10	RE	1.83	1	60	79	1.15	0.301	1.8	244.8	20.4	2000	504	870
080023	04X16/16	RE	1.15	1	80	102	1.84	0.285	1.8	280.8	23.4	3200	796	1250
080099	04X16RM/16	RM	1.15	1	80	102	1.84	0.285	1.8	280.8	23.4	3200	796	1250
080025	04X25/16	RM	0.727	1.2	106	133	2.87	0.28	1.8	331.2	27.6	5000	1142	1800
080026	04X35/16	SM	0.524	1.2	129	160	4.02	0.271	1.8	343.2	28.6	7000	1526	2050
080027	04X50/25	SMv	0.387	1.4	157	190	5.75	0.27	1.9	393.6	32.8	10000	2203	2700
080028	04X70/35	SMv	0.268	1.4	199	234	8.05	0.262	1.9	441.6	36.8	14000	3082	3750
080029	04X95/50	SMv	0.193	1.6	249	280	10.9	0.261	2.2	526.8	43.9	19000	4208	5000
080021	04X120/70	SMv	0.153	1.6	289	319	13.8	0.256	2.3	564	47	24000	5388	6300
080022	04X150/70	SMv	0.124	1.8	329	357	17.2	0.256	2.6	612	51	30000	6540	7600
080024	04X185/95	SMv	0.0991	2	377	402	21.3	0.256	2.6	672	56	37000	8159	9300
080062	04X240/120	SMv	0.0754	2.2	443	463	27.6	0.254	2.8	756	63	48000	10546	11600
080254	04X300/150	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 per 1000