

# Sheathed building wire

## NYM-J/-O



**Application:** For installation in, on or under plaster, in dry, damp or wet rooms as well as in walls and concrete (except for shaken, jolted, tamped concrete). Also suitable for installation outdoors if protected from sunlight.

### Construction and technical data:

<b>CPR-classification according to EN 50575:</b>	Eca
<b>Standard:</b>	VDE 0250-204
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	class 1, up from 16 sqmm class 2
<b>Insulation:</b>	PVC TI1
<b>Sheathing material:</b>	PVC YM1
<b>Colour of outer sheath:</b>	grey RAL 7035
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>Max. temperature at conductor, °C:</b>	70 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-40 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	5 - 70 °C



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.

### NYM-J

<b>Nominal voltage U<sub>o</sub>:</b>	300 V
<b>Nominal voltage U:</b>	500 V
<b>Test voltage:</b>	2 kV
<b>Protective conductor:</b>	yes
<b>Core identification:</b>	colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	I <sub>bl</sub> [A]	W <sub>m</sub> [mm]	R <sub>bv</sub> [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020003	01X2.5	RE	1.9	7.41	0.7		1.4	23.2	5.8	24	70
020004	01X4	RE	2.4	4.61	0.8		1.4	25.6	6.4	38	80
020005	01X6	RE	2.9	3.08	0.8		1.4	27.2	6.8	58	105

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020001	01X10	RE	3.7	1.83	1		1.4	32	8	96	155
020002	01X16	RM	4.6	1.15	1		1.4	36.4	9.1	154	230
020150	01X25	RM	6.6	0.727	1.2		1.4	49.2	12.3	240	330
020336	03X1.5 coil 25m	RE		12.1	0.6	19.5	1.4	32.8	8.2	43	135
020006	03X1.5 (coil)	RE	1.5	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020007	03X1.5 (drum)	RE	1.5	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020338	03X2.5 coil 25m	RE		7.41	0.7	27	1.4	37.6	9.4	72	190
020009	03X2.5 (coil)	RE	1.9	7.41	0.7	27	1.4	37.6	9.4	72	190
020166	03X2.5 (drum)	RE	1.9	7.41	0.7	27	1.4	37.6	9.4	72	190
020010	03X4	RE	2.4	4.61	0.8	36	1.4	43.2	10.8	115	265
020044	03X6	RE	2.9	3.08	0.8	46	1.6	48.8	12.2	173	315
020050	03X10	RE	3.7	1.83	1	63	1.6	58.8	14.7	288	465
020011	04X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020012	04X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020015	04X2.5 (coil)	RE	1.9	7.41	0.7	24	1.4	40.8	10.2	96	230
020169	04X2.5 (drum)	RE	1.9	7.41	0.7	24	1.4	40.8	10.2	96	230
020018	04X4	RE	2.4	4.61	0.8	32	1.6	48.4	12.1	154	330
020019	04X6	RE	2.9	3.08	0.8	41	1.6	53.2	13.3	230	460
020013	04X10	RE	3.7	1.83	1	57	1.6	64.4	16.1	384	690
020014	04X16	RM	4.6	1.15	1	76	1.6	76	19	614	1090
020016	04X25	RM	6.6	0.727	1.2	96	1.8	93.6	23.4	960	1640
020017	04X35	RM	7.9	0.524	1.2	119	1.8	102.8	25.7	1344	2090
020337	05X1.5 coil 25m	RE		12.1	0.6	17.5	1.4	38	9.5	72	190
020020	05X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	38	9.5	72	190
020021	05X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	38	9.5	72	190
020339	05X2.5 coil 25m	RE		7.41	0.7	24	1.4	44	11	120	270
020024	05X2.5 (coil)	RE	1.9	7.41	0.7	24	1.4	44	11	120	270
020170	05X2.5 (drum)	RE	1.9	7.41	0.7	24	1.4	44	11	120	270
020026	05X4	RE	2.4	4.61	0.8	32	1.6	52.8	13.2	192	410
020027	05X6	RE	2.9	3.08	0.8	41	1.6	58	14.5	288	540
020022	05X10	RE	3.7	1.83	1	57	1.6	70.8	17.7	480	850
020023	05X16	RM	4.6	1.15	1	76	1.8	84.8	21.2	768	1350
020025	05X25	RM	6.6	0.727	1.2	96	1.8	102.8	25.7	1200	1990
020295	05X35	RM	7.9	0.524	1.2	119	1.8	134	33.5	1680	2160
020028	07X1.5	RE	1.5	12.1	0.6	17.5	1.4	42	10.5	101	235
020029	07X2.5	RE	1.9	7.41	0.7	24	1.6	50.4	12.6	168	350
020300	08X1.5	RE	1.5	12.1	0.6	17.5	1.6	50	12.5	115	237
020030	10X1.5	RE	1.5	12.1	0.6	17.5	1.6	57.2	14.3	144	330
020045	12X1.5	RE	1.5	12.1	0.6	17.5	1.6	57.6	14.4	173	400
020307	16X1.5	RE	1.5	12.1	0.6	17.5	1.6	63.2	15.8	230	457
020294	12X2.5	RE	1.9	7.41	0.7	24	1.6	61.6	15.4	288	660

## NYM-O

**Nominal voltage U<sub>o</sub>:** 300 V

**Nominal voltage U:** 500 V

**Test voltage:** 2 kV

**Protective conductor:** no

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

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020031	01X1.5	RE	1.5	12.1	0.6	19.5	1.4	20.8	5.2	14,4	45
020043	01X2.5	RE	1.9	7.41	0.7	27	1.4	23.2	5.8	24	70
020178	01X4	RE	2.4	4.61	0.8	36	1.4	25.6	6.4	38	80

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg]
020177	01X6	RE	2.9	3.08	0.8	46	1.4	27.2	6.8	58	105
020032	01X10	RE	3.7	1.83	1	63	1.4	32	8	96	155
020033	01X16	RM	4.6	1.15	1	85	1.4	36.4	9.1	154	230
020034	02X1.5 (coil)	RE	1.5	12.1	0.6	19.5	1.4	31.2	7.8	29	115
020167	02X1.5 (drum)	RE	1.5	12.1	0.6	19.5	1.4	31.2	7.8	29	115
020035	02X2.5 (coil)	RE	1.9	7.41	0.7	27	1.4	35.6	8.9	48	157
020168	02X2.5 (drum)	RE	1.9	7.41	0.7	27	1.4	35.6	8.9	48	157
020036	03X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	32.8	8.2	43	135
020174	03X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	32.8	8.2	43	135
020037	04X1.5 (coil)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020175	04X1.5 (drum)	RE	1.5	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020046	04X6	RE	2.9	3.08	0.8	41	1.6	53.2	13.3	230	460
020038	04X10	RE	3.7	1.83	1	57	1.6	64.4	16.1	384	690
020039	04X16	RM	4.6	1.15	1	76	1.6	76	19	614	1090
020040	04X25	RM	6.6	0.727	1.2	96	1.8	93.6	23.4	960	1640
020041	04X35	RM	7.9	0.524	1.2	119	1.8	102.8	25.7	1344	2090
020042	07X1.5	RE	1.5	12.1	0.6	17.5	1.4	42	10.5	101	235
020326	12X1.5	RE	1.5	12.1	0.6	17.5	1.6	57.6	14.4	173	400

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000