

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:

CPR-performance:	Eca
Standard:	VDE 0250-204
Conductor material:	copper, bare
Conductor construction:	class 1, up from 16 sqmm class 2
Insulation:	PVC TI1
Sheathing material:	PVC YM1
Colour of outer sheath:	grey RAL 7035
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Maximum temperature at conductor, °C:	70 °C
Permitted outer cable temperature, fixed, °C:	-40 - +70 °C
Permitted outer cable temperature, moved, °C:	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**Nominal voltage U_o:** 300 V**Nominal voltage U:** 500 V**Test voltage:** 2 kV**Protective conductor:** yes**Core identification:** colours acc. to VDE 0293 (HD 308);
more than 5 cores: gn-ye + numbers

part no.	part name		RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg/km]
020003	NYM-J 01X2,5 GR	RE	7.41	0.7		1.4	23.2	5.8	24	70
020004	NYM-J 01X4 GR	RE	4.61	0.8		1.4	25.6	6.4	38	80
020005	NYM-J 01X6 GR	RE	3.08	0.8		1.4	27.2	6.8	58	105
020001	NYM-J 01X10 GR	RE	1.83	1		1.4	32	8	96	155
020002	NYM-J 01X16 GR	RM	1.15	1		1.4	36.4	9.1	154	230
020150	NYM-J 01X25 GR	RM	0.727	1.2		1.4	49.2	12.3	240	330
020336	NYM-J 03X1.5 GR coil 25m	RE	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020006	NYM-J 03X1,5 GR	RE	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020007	NYM-J 03X1,5/T R GR	RE	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020302	NYM-J 03X1,5 GR auf Kunststoff trommel	RE	12.1	0.6	19.5	1.4	32.8	8.2	43	135
020338	NYM-J 03X2,5 GR coil 25m	RE	7.41	0.7	27	1.4	37.6	9.4	72	190
020009	NYM-J 03X2,5 GR	RE	7.41	0.7	27	1.4	37.6	9.4	72	190
020166	NYM-J 03X2,5/T R GR	RE	7.41	0.7	27	1.4	37.6	9.4	72	190
020305	NYM-J 03X2,5 GR auf Kunststoff trommel	RE	7.41	0.7	27	1.4	37.6	9.4	72	190
020010	NYM-J 03X4 GR	RE	4.61	0.8	36	1.4	43.2	10.8	115	265
020044	NYM-J 03X6 GR	RE	3.08	0.8	46	1.6	48.8	12.2	173	315
020050	NYM-J 03X10 GR	RE	1.83	1	63	1.6	58.8	14.7	288	465
020011	NYM-J 04X1,5 GR	RE	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020012	NYM-J 04X1,5/T R GR	RE	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020303	NYM-J 04X1,5 GR auf Kunststoff trommel	RE	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020015	NYM-J 04X2,5 GR	RE	7.41	0.7	24	1.4	40.8	10.2	96	230
020169	NYM-J 04X2,5/T R GR	RE	7.41	0.7	24	1.4	40.8	10.2	96	230
020018	NYM-J 04X4 GR	RE	4.61	0.8	32	1.6	48.4	12.1	154	330
020019	NYM-J 04X6 GR	RE	3.08	0.8	41	1.6	53.2	13.3	230	460
020013	NYM-J 04X10 GR	RE	1.83	1	57	1.6	64.4	16.1	384	690
020014	NYM-J 04X16 GR	RM	1.15	1	76	1.6	76	19	614	1090
020016	NYM-J 04X25 GR	RM	0.727	1.2	96	1.8	93.6	23.4	960	1640
020017	NYM-J 04X35 GR	RM	0.524	1.2	119	1.8	102.8	25.7	1344	2090
020337	NYM-J 05X1.5 GR coil 25m	RE	12.1	0.6	17.5	1.4	38	9.5	72	190
020020	NYM-J 05X1,5 GR	RE	12.1	0.6	17.5	1.4	38	9.5	72	190
020021	NYM-J 05X1,5/T R GR	RE	12.1	0.6	17.5	1.4	38	9.5	72	190

part no.	part name		RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg/km]
020304	NYM-J 05X1,5 GR auf Kunststoff trommel	RE	12.1	0.6	17.5	1.4	38	9.5	72	190
020339	NYM-J 05X2.5 GR coil 25m	RE	7.41	0.7	24	1.4	44	11	120	270
020024	NYM-J 05X2,5 GR	RE	7.41	0.7	24	1.4	44	11	120	270
020170	NYM-J 05X2,5/T R GR	RE	7.41	0.7	24	1.4	44	11	120	270
020026	NYM-J 05X4 GR	RE	4.61	0.8	32	1.6	52.8	13.2	192	410
020027	NYM-J 05X6 GR	RE	3.08	0.8	41	1.6	58	14.5	288	540
020022	NYM-J 05X10 GR	RE	1.83	1	57	1.6	70.8	17.7	480	850
020023	NYM-J 05X16 GR	RM	1.15	1	76	1.8	84.8	21.2	768	1350
020025	NYM-J 05X25 GR	RM	0.727	1.2	96	1.8	102.8	25.7	1200	1990
020295	NYM-J 05X35 GR	RM	0.524	1.2	119	1.8	134	33.5	1680	2160
020028	NYM-J 07X1,5 GR	RE	12.1	0.6	17.5	1.4	42	10.5	101	235
020029	NYM-J 07X2,5 GR	RE	7.41	0.7	24	1.6	50.4	12.6	168	350
020300	NYM-J 08X1,5 GR	RE	12.1	0.6	17.5	1.6	50	12.5	115	237
020030	NYM-J 10X1,5 GR	RE	12.1	0.6	17.5	1.6	57.2	14.3	144	330
020045	NYM-J 12X1,5 GR	RE	12.1	0.6	17.5	1.6	57.6	14.4	173	400
020307	NYM-J 16X1,5 GR	RE	12.1	0.6	17.5	1.6	63.2	15.8	230	457
020294	NYM-J 12X2,5 GR	RE	7.41	0.7	24	1.6	61.6	15.4	288	660

NYM-O

Nominal voltage U₀: 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		RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg/km]
020031	NYM-O 01X1,5 GR	RE	12.1	0.6	19.5	1.4	20.8	5.2	14,4	45
020043	NYM-O 01X2,5 GR	RE	7.41	0.7	27	1.4	23.2	5.8	24	70
020178	NYM-O 01X4 GR	RE	4.61	0.8	36	1.4	25.6	6.4	38	80
020177	NYM-O 01X6 GR	RE	3.08	0.8	46	1.4	27.2	6.8	58	105
020032	NYM-O 01X10 GR	RE	1.83	1	63	1.4	32	8	96	155
020033	NYM-O 01X16 GR	RM	1.15	1	85	1.4	36.4	9.1	154	230
020034	NYM-O 02X1,5 GR	RE	12.1	0.6	19.5	1.4	31.2	7.8	29	115
020167	NYM-O 02X1,5/T R GR	RE	12.1	0.6	19.5	1.4	31.2	7.8	29	115
020035	NYM-O 02X2,5 GR	RE	7.41	0.7	27	1.4	35.6	8.9	48	157
020168	NYM-O 02X2,5/T R GR	RE	7.41	0.7	27	1.4	35.6	8.9	48	157
020036	NYM-O 03X1,5 GR	RE	12.1	0.6	17.5	1.4	32.8	8.2	43	135

part no.	part name		RI [Ohm/km]	Wi [mm]	Ibl [A]	Wm [mm]	Rbv [mm]	Ø [mm]	Cu [kg/km]	G [kg/km]
020174	NYM-O 03X1,5/T R GR	RE	12.1	0.6	17.5	1.4	32.8	8.2	43	135
020037	NYM-O 04X1,5 GR	RE	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020175	NYM-O 04X1,5/T R GR	RE	12.1	0.6	17.5	1.4	35.2	8.8	58	160
020046	NYM-O 04X6 GR	RE	3.08	0.8	41	1.6	53.2	13.3	230	460
020038	NYM-O 04X10 GR	RE	1.83	1	57	1.6	64.4	16.1	384	690
020039	NYM-O 04X16 GR	RM	1.15	1	76	1.6	76	19	614	1090
020040	NYM-O 04X25 GR	RM	0.727	1.2	96	1.8	93.6	23.4	960	1640
020041	NYM-O 04X35 GR	RM	0.524	1.2	119	1.8	102.8	25.7	1344	2090
020042	NYM-O 07X1,5 GR	RE	12.1	0.6	17.5	1.4	42	10.5	101	235
020326	NYM-O 12X1,5 GR	RE	12.1	0.6	17.5	1.6	57.6	14.4	173	400

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