

NYM-J is a sheathed building cable for fixed 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

Conductor material	Copper, bare
Conductor construction	Class 1, up from 16 mm ² class 2
Insulation	PVC TI1
Sheathing material	PVC YM1
Colour of outer sheath	Grey (RAL 7035)
CPR classification	Eca (EN 50575)
Standard	VDE 0250-204
Flame retardant	VDE 0482-332-1-2 / IEC 60332-1-2
Max. temperature at conductor	70 °C
Permitted ambient temperature (fixed)	-40 °C to +70 °C
Permitted ambient temperature (moved)	5 °C to 70 °C
Min. bending radius (fixed)	4 x Ø

STANDARDS



VDE 0250-204
EN 50575 (CPR)
IEC 60332-1-2
VDE 0482-332-1-2

APPLICATIONS



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.



Residential buildings



Commercial buildings



Industrial buildings



Electrical panels



Conduits & cable ducts

TECHNICAL DATA – NYM-J

Nominal voltage U ₀	300 V
Nominal voltage U	500 V
Test voltage	2 kV
Protective conductor	Yes (J = with protective conductor)
Core identification	Colours acc. to VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

CABLE DESIGN



SHEATH COLOUR



Grey
RAL 7035

AVAILABLE COLOURS (on request)



Black



Brown



Blue



Grey



Green/Yellow



Red



White



Orange



Violet

PACKAGING



Standard drums
(other upon request)



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TECHNICAL DATA – NYM-J (Part 1)

Cores x mm ²	R _i [Ohm/km]	Ø [mm]	Copper [kg/km]	Weight [kg/km]
1 x 1.5	12.1	5.8	24	70
1 x 2.5	7.41	6.4	38	80
1 x 4	4.61	6.8	58	105
1 x 6	3.08	8.0	96	155
1 x 10	1.83	9.1	154	230
1 x 16	1.15	12.3	240	330
3 x 1.5	12.1	8.2	43	135
3 x 2.5	7.41	9.4	72	190
3 x 4	4.61	10.8	115	265
3 x 6	3.08	12.2	173	315
3 x 10	1.83	14.7	288	465
4 x 1.5	12.1	8.8	58	160
4 x 2.5	7.41	10.2	96	330
4 x 4	4.61	12.1	154	330
4 x 6	3.08	13.3	230	460
4 x 10	1.83	16.1	384	690
4 x 16	1.15	19.0	614	1090
4 x 25	0.727	23.4	960	1640
4 x 35	0.524	25.7	1344	2090

TECHNICAL DATA – NYM-J (Part 2)

Cores x mm ²	R _i [Ohm/km]	Ø [mm]	Copper [kg/km]	Weight [kg/km]
5 x 1.5	12.1	9.5	72	190
5 x 2.5	7.41	11.0	120	270
5 x 4	4.61	13.2	192	410
5 x 6	3.08	14.5	288	540
5 x 10	1.83	17.7	480	850
5 x 16	1.15	21.2	768	1350
5 x 25	0.727	25.7	1200	1990
5 x 35	0.524	33.5	1680	2160
7 x 1.5	12.1	10.5	101	235
7 x 2.5	7.41	12.6	168	350
8 x 1.5	12.1	12.5	115	237
10 x 1.5	12.1	14.3	144	330
12 x 1.5	12.1	14.4	173	400
12 x 2.5	7.41	15.4	288	660
16 x 1.5	12.1	15.8	230	457

ADDITIONAL TECHNICAL DATA

Symbol	Description	Unit
D ₁	Conductor diameter	mm
R _i	Conductor resistance at 20 °C	Ohm/km
W _i	Insulation wall thickness	mm
I _{bl}	Ampacity in air (30 °C)	A
W _{em}	Wall thickness of sheath	mm
R _{BV}	Bending radius, fixed installation	mm
Ø	Outer diameter (approx.)	mm
Cu	Copper weight (GER)	kg/km
G	Net weight (approx.)	kg/km

The values shown are approximate and for information only. They are subject to technical changes and do not represent a commitment.