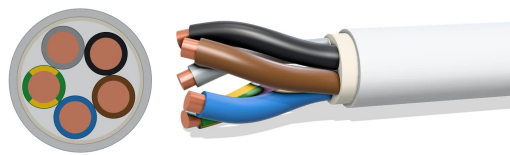


Application

NYM-J is a sheathed installation cable for a rated voltage of 300/500 V to DIN VDE 0250-204, with plain copper conductors (solid class 1 up to 10 mm², stranded class 2 from 16 mm²), PVC core insulation, a non-hygroscopic filler and a grey PVC outer sheath. It is used for fixed indoor wiring in and on plaster, in masonry and in dry, moist and wet rooms, but not for direct burial in the ground or outdoor exposure to permanent UV. The -J version carries a green/yellow protective conductor; the -O version has the same construction and dimensions without the protective conductor. It is available in sizes from 1.5 to 35 mm² in the common 1-, 3-, 4-, 5- and multi-core configurations.



CONSTRUCTION

Conductor	Plain (bare) copper, solid class 1 (1.5-10 mm ²) or stranded class 2 (16-35 mm ²) acc. to IEC 60228 / DIN VDE 0295.
Insulation	Polyvinyl chloride (PVC), compound type TI1 acc. to DIN EN 50363-3.
Filler	Non-hygroscopic filling compound / core wrapping over the laid-up cores.
Sheath	Polyvinyl chloride (PVC), compound type TM1 acc. to DIN EN 50363-4-1; grey.
Core identification	Acc. to HD 308 S2; -J with green/yellow protective conductor, -O without protective conductor.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Test voltage	2 kV.
Standard	DIN VDE 0250-204; conductors acc. to IEC 60228 / DIN VDE 0295.
Flame-retardant	Acc. to IEC 60332-1-2 / DIN EN 60332-1-2.
Max. conductor temperature	+70 °C (fixed installation).
Permitted temperature, fixed	-40 °C to +70 °C; min. laying temperature -5 °C.
Min. bending radius, fixed	4 × overall diameter.
Reaction to fire (CPR)	Eca (EN 50575).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
1 × 1.5	12.1	5.4	40
3 × 1.5	12.1	9.1	135
4 × 1.5	12.1	9.8	160
5 × 1.5	12.1	10.3	190
7 × 1.5	12.1	11.5	235
10 × 1.5	12.1	13.8	330
12 × 1.5	12.1	14.4	405
1 × 2.5	7.41	6	70
3 × 2.5	7.41	10.4	190
4 × 2.5	7.41	11.3	230
5 × 2.5	7.41	12	270
7 × 2.5	7.41	13.2	342
12 × 2.5	7.41	15.4	660
1 × 4	4.61	6.6	80
3 × 4	4.61	12	258
4 × 4	4.61	13	330
5 × 4	4.61	14.5	410
1 × 6	3.08	7.2	105
3 × 6	3.08	13	320
4 × 6	3.08	15.1	460
5 × 6	3.08	16.1	540
1 × 10	1.83	8.4	155
4 × 10	1.83	17.6	680
5 × 10	1.83	19.2	850
1 × 16	1.15	9.9	230
4 × 16	1.15	21.3	1048
5 × 16	1.15	23.4	1280
1 × 25	0.727	12	325
4 × 25	0.727	25.8	1649
5 × 25	0.727	28.7	1970
4 × 35	0.524	28.5	2000

Outer diameters and weights are the nominal manufacturer values of the leading reference source for the -J construction; the -O construction (without green/yellow protective conductor) shares the same dimensions. Conductor resistance is the IEC 60228 class 1/2 maximum. All values are indicative and non-binding.