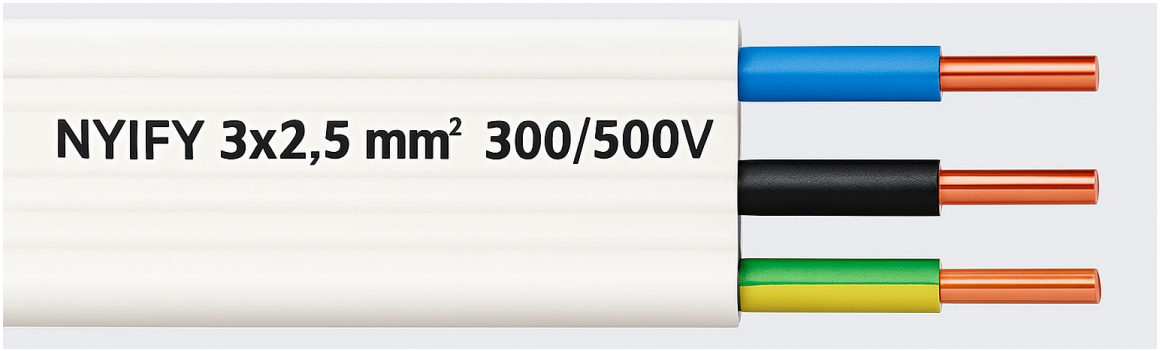
CABLE DATA for NYIFY–J (U)

General Information



Cable Standard(s)

- DIN VDE 0250–201

Construction Product Regulation (CPR) Classification

- Regulation: Compliant with the EU Regulation (EU) No. 305/2011 on construction products.
- Intended Use: Suitable for general applications in construction works with fire safety requirements.
- Harmonized Standard: EN 50575:2014
- Reaction to Fire Classification: Fca (according to EN 13501–6)
- Release of Dangerous Substances: N.P.D. (No Performance Determined)

Flame Retardant Properties

- The cable complies with the self–extinguishing requirements specified in EN 60332–1–2 (single vertical wire flame test).

Temperature Ratings

- Minimum installation and handling temperature: 0°C
- Maximum continuous conductor operating temperature: +70°C
- Maximum conductor temperature during short-circuit (≤ 5 seconds): +160°C
- Permissible ambient temperature range during operation: –25°C to +50°C

Minimum Bending Radius *(D = cable thickness)*

- 10 × D

Application of the cable

- NYIFY–J: Designed for fixed indoor installations in residential and commercial environments requiring a protective earth (PE) conductor – typically used in lighting circuits with metal housings, grounded wall outlets, and power supply connections in moisture–prone areas such as kitchens and bathrooms.
- NYIFY–U: Designed for fixed indoor installations in residential and commercial spaces where no protective earth (PE) conductor is necessary – typically used for lighting systems, switch circuits, and other low–voltage applications in dry areas.

Cable Construction and Electrical Properties

Conductor(s)

- Copper conductors in accordance with IEC 60228, Class 1 (solid).

Insulation

- PVC compound type TI1according to HD21.1 (YI1 according to DIN VDE 207 Part 4).
- Cores lie parallel, with or without a green–yellow protective conductor.
- Insulation colors according to DIN VDE 0293:
  - Protective Earth (PE) – Green/Yellow striped
  - Neutral (N) – Blue
  - Line / Phase Conductors (L) – Brown, Black, Grey (for multiple phases)

Sheath

- PVC compound type TM1according to HD21.1 (YM1 according to DIN VDE 207 Part 5).
- Sheath color: black, gray or white.

Rated Voltage

- Uo/U = 300/500 V

Test Voltage

- 2 kV AC

Dimensional Specifications

№	Construction [n×mm²]	Metal index [kg/km]	Weight (approx.) [kg/km]	Dimensions (range a × b) [mm]	Resistance at 20°C [Ω/km] Class1&2	Class3&4	Ampacity in air at 30°C (range) [A]
1	2×1,0	19,2	44	3,3–3,6 × 9,6–11,3	18,1	19,5	13–15
2	2×1,5	28,8	59	3,8–4,5 × 12,0–13,8	12,1	13,3	18–20
3	2×2,5	48,0	90	4,6–5,2 × 13,5–15,0	7,41	7,98	24–27
4	2×4,0	77,0	127	5,2–6,3 × 13,8–15,5	4,61	4,95	32–35
5	3×1,0	28,8	65	3,3–3,6 × 19,0–19,3	18,1	19,5	13–15
6	3×1,5	43,2	89	3,8–4,5 × 20,0–23,8	12,1	13,3	18–20
7	3×2,5	72,0	135	4,6–5,2 × 21,5–24,6	7,41	7,98	24–27
8	3×4,0	115,0	191	6,1–6,6 × 25,0–26,1	4,61	4,95	32–35

- Ampacity in air is based on IEC 60228 and EN 50525-2-11, varying by ambient temperature and installation method.