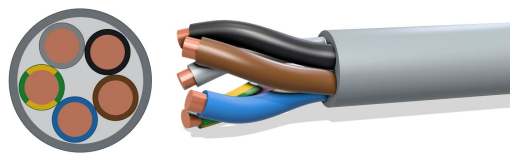


Application

YMz1K is the Dutch halogen-free (LSZH) installation and power/ground cable for a rated voltage of 0.6/1 kV, with plain copper conductors (solid class 1 up to 6 mm², stranded class 2 from 10 mm²), cross-linked polyethylene (XLPE) core insulation and a grey, halogen-free, low-smoke (LSZH) outer sheath. It is the halogen-free counterpart of the PVC-sheathed YMvK and carries the reaction-to-fire performance CPR class Cca-s1,d1,a1: in a fire it is flame-retardant, emits no corrosive halogen gases and produces only a low, non-opaque smoke. YMz1K is therefore specified for public and high-rise buildings, schools, hospitals, data centres and car parks. Where the Bbl requires B2ca, such as on an extra protected escape route or in a tunnel, a B2ca version is available on request. It is the same construction as the Belgian XGB and the German N2XH (CU/XLPE/LSZH), sold under its Dutch name. YMz1K is laid on trays and ladders, in conduit and trunking, clipped or drawn in; the flexible fine-stranded variant is YMz1K-ss and the steel-wire-armoured variant is YMz1Kas.



CONSTRUCTION

Conductor	Plain (bare) copper, solid class 1 (RE, up to 6 mm ²) or stranded class 2 (RM, from 10 mm ²) acc. to IEC 60228.
Insulation	Cross-linked polyethylene (XLPE), 90 °C rated.
Core identification	Coloured cores acc. to HD 308 S2, with or without a green/yellow protective conductor (3G, 4G, 5G).
Sheath	Halogen-free, low-smoke (LSZH) polymer, grey; UV-resistant (EN 50289-4-17).

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	0.6/1 kV (600/1000 V).
Test voltage	3.5 kV AC.
Standard	NEN 3618; HD 604 S1 part 5 sect. C; KEMA K 42C; conductor acc. to IEC 60228.
Reaction to fire (CPR)	Class Cca-s1,d1,a1 acc. to EN 13501-6 / EN 50575 (B2ca on request).
Halogen-free / low smoke	Halogen-free acc. to IEC/EN 60754-1/-2; low smoke density acc. to IEC/EN 61034-1/-2; flame-retardant acc. to IEC 60332-1-2.
Max. conductor temperature	+90 °C (short circuit +250 °C, max. 5 s).
Permitted ambient temperature, fixed	-40 °C to +80 °C; min. laying temperature 0 °C.
Min. bending radius, fixed	12 × overall diameter (single-core 15 ×).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 1.5	12.1	9.5	133
3 × 1.5	12.1	9.9	150
4 × 1.5	12.1	10.6	174
5 × 1.5	12.1	11.9	219
2 × 2.5	7.41	10.2	165
3 × 2.5	7.41	10.7	190
4 × 2.5	7.41	11.5	224
5 × 2.5	7.41	12.4	263
2 × 4	4.61	11.1	210
3 × 4	4.61	11.7	248
4 × 4	4.61	12.6	298
5 × 4	4.61	13.6	353
1 × 6	3.08	7	95
2 × 6	3.08	12.1	266
3 × 6	3.08	12.7	321
4 × 6	3.08	13.8	390
5 × 6	3.08	15	466
1 × 10	1.83	11.7	234
2 × 10	1.83	14.7	410
3 × 10	1.83	15.5	499
4 × 10	1.83	17.4	637
5 × 10	1.83	19	771
1 × 16	1.15	12.8	306
2 × 16	1.15	16.8	578
3 × 16	1.15	17.8	717
4 × 16	1.15	20	918
5 × 16	1.15	21.8	1114
1 × 25	0.727	14.5	423
2 × 25	0.727	20.7	894
3 × 25	0.727	21.5	1081
4 × 25	0.727	24	1390
5 × 25	0.727	26.4	1698

Outer diameters and weights are the nominal manufacturer values of the leading reference source. Cores shown as $n \times \text{mm}^2$ in the 3-, 4- and 5-core sizes may carry a green/yellow earth core (3G/4G/5G). Conductor resistance is the IEC 60228 class 1/2 maximum. All values are indicative and non-binding.