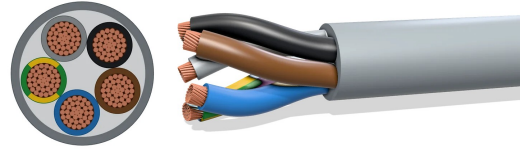


Application

YMz1K-ss is the flexible ("ss" = super-soepel / fijndradig) version of the Dutch halogen-free installation and power cable YMz1K, for a rated voltage of 0.6/1 kV. It has plain copper flexible stranded conductors, cross-linked polyethylene (XLPE) core insulation and a grey, halogen-free, low-smoke (LSZH) outer sheath - the same CU/XLPE/LSZH construction as rigid YMz1K, but with a flexible conductor that makes the larger sizes far easier to pull in and bend. Its reaction-to-fire performance is CPR class Cca-s1,d1,a1: flame-retardant, halogen-free and low-smoke, for public and high-rise buildings, data centres and industrial installations. 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 flexible sibling of rigid YMz1K (the Dutch counterpart of XGB and N2XH). The range concentrates on the larger cross-sections, from 35 to 500 mm².



CONSTRUCTION

Conductor	Plain (bare) copper, FLEXIBLE stranded conductor (fine-stranded, "soepel"); class 5 construction with class 2 resistance values 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 ×); the flexible conductor eases installation.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
1 × 35	0.524	15.7	526
2 × 35	0.524	23.2	1152
3 × 35	0.524	24.1	1406
4 × 35	0.524	26.5	1753
5 × 35	0.524	29.2	2139
1 × 50	0.387	17.1	659
2 × 50	0.387	25.8	1460
3 × 50	0.387	27.6	1875
4 × 50	0.387	31.2	2411
5 × 50	0.387	34.5	2950
1 × 70	0.268	15.5	714
2 × 70	0.268	29.9	2020
3 × 70	0.268	32.1	2618
4 × 70	0.268	36.2	3364
5 × 70	0.268	40.1	4127
1 × 95	0.193	17.6	967
3 × 95	0.193	36.7	3547
4 × 95	0.193	41.3	4557
5 × 95	0.193	45.9	5598
1 × 120	0.153	19.3	1213
3 × 120	0.153	40.9	4476
4 × 120	0.153	46	5741
5 × 120	0.153	50.9	7044
1 × 150	0.124	21.5	1501
3 × 150	0.124	46	5596
4 × 150	0.124	50.9	7075
5 × 150	0.124	56.6	8724
1 × 185	0.0991	23.8	1862
3 × 185	0.0991	51	6945
4 × 185	0.0991	56.7	8837
5 × 185	0.0991	63.1	10980
1 × 240	0.0754	29.8	2670
4 × 240	0.0754	63.7	11438
5 × 240	0.0754	70.9	14111
1 × 300	0.0601	32.4	3249
1 × 400	0.047	35.7	4079
1 × 500	0.0366	39.4	5124

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 2 maximum, as specified for this flexible conductor. All values are indicative and non-binding.