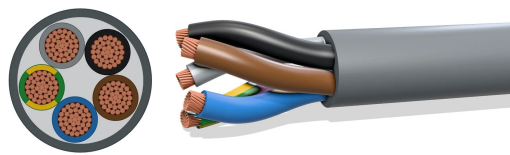


Application

YMvK ss is a fixed-installation power cable with XLPE insulation and a flame-retardant PVC outer sheath, for use in dry, damp and wet environments: indoors, outdoors, in the ground and in cable ducts. It is suitable for fixed installation in residential, commercial and industrial buildings, and is classified reaction-to-fire class

Cca-s2,d2,a3 under the Construction Products Regulation (CPR); the same cable can also be supplied in CPR class Dca on request. This is the flexible YMvK ss with a fine-wire class 5 conductor construction (resistance to class 2) for easy handling and tight bends, particularly in the larger cross-sections. Construction is otherwise as the standard YMvK.



CONSTRUCTION

Conductor	Plain copper, flexible ('super-soepel'): construction to IEC 60228 class 5, conductor resistance to class 2.
Insulation	Cross-linked polyethylene (XLPE).
Core identification	Colours to HD 308 (blue, brown, black, grey, and green/yellow on multi-core types).
Outer sheath	Flame-retardant PVC (PVC-FR), grey.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	0.6/1 kV.
Test voltage	3.5 kV AC.
Reaction to fire (CPR)	Cca-s2,d2,a3 (EN 50575); also available in Dca on request.
Flame-retardant	EN 60332-3-24, category C.
Standard	HD 604-S1-4D.
Certification	KEMA-KEUR.
Max. conductor temperature	+90 °C in normal operation.
Max. short-circuit temperature	+250 °C.
Min. bending radius, fixed	10 × overall diameter.
Lead-free	Yes.

DIMENSIONS, WEIGHTS & CURRENT-CARRYING CAPACITY
Single-core

Cores × mm ²	Nominal O.D. (mm)	Weight (kg/km)	Cond. R @20°C (Ω/km)	In air (A) method E / F	In ground (A) method D2
1×10	8.2	135	1.83	n/a	65
1×16	8.8	185	1.15	n/a	84
1×25	10.1	270	0.727	135	107
1×35	11.2	360	0.524	169	129
1×50	13	500	0.387	207	153
1×70	14.8	690	0.268	268	188
1×95	16.8	895	0.193	328	226
1×120	18.7	1130	0.153	383	257
1×150	20.9	1405	0.124	444	287
1×185	23	1650	0.0991	510	324
1×240	25.7	2210	0.0754	607	375
1×300	28.5	2745	0.0601	703	419
1×400	32.6	3670	0.047	823	n/a
1×500	36.9	4625	0.0366	946	n/a

Two-core

Cores × mm ²	Nominal O.D. (mm)	Weight (kg/km)	Cond. R @20°C (Ω/km)	In air (A) method E / F	In ground (A) method D2
2×1.5	8.1	90	12.1	26	27
2×2.5	9.1	120	7.41	36	35
2×4	10.2	165	4.61	49	46
2×6	11.2	215	3.08	53*	58
2×10	13.1	320	1.83	86	77
2×16	14.9	450	1.15	115	100
2×25	19.5	750	0.727	149	129
2×35	21.6	985	0.524	185	155
2×50	25.3	1370	0.387	225	183
2×70	29.4	1890	0.268	286*	225
2×95	33.1	2440	0.193	352	270

Three-core

Cores × mm ²	Nominal O.D. (mm)	Weight (kg/km)	Cond. R @20°C (Ω/km)	In air (A) method E / F	In ground (A) method D2
3×1.5	8.9	110	12.1	23	23
3×2.5	9.8	145	7.41	32	30
3×4	11	200	4.61	42	39
3×6	12.1	265	3.08	54	49
3×10	14.3	405	1.83	75	65
3×16	16.4	595	1.15	100	84
3×25	20.3	945	0.727	127	107
3×35	23	1270	0.524	158	129
3×50	26.7	1760	0.387	192	153
3×70	30	2415	0.268	246	188
3×95	34.7	3155	0.193	298	226
3×120	38.7	3995	0.153	346	257
3×150	44.7	5130	0.124	399	287
3×185	48.9	6115	0.0991	456	324
3×240	54.1	7875	0.0754	538	375
3×300	60.7	9840	0.0601	621	419

Four-core

Cores × mm ²	Nominal O.D. (mm)	Weight (kg/km)	Cond. R @20°C (Ω/km)	In air (A) method E / F	In ground (A) method D2
4×1.5	9.7	130	12.1	23	23
4×2.5	10.7	175	7.41	32	30
4×4	12	245	4.61	42	39
4×6	13.4	330	3.08	54	49
4×10	15.7	505	1.83	75	65
4×16	18.2	750	1.15	100	84
4×25	21.9	1170	0.727	127	107
4×35	24.6	1575	0.524	158	129
4×50	29.4	2210	0.387	192	153
4×70	33.9	3080	0.268	246	188
4×95	38.6	4000	0.193	298	226
4×120	43.9	5115	0.153	346	257
4×150	49.8	6575	0.124	399	287
4×185	54.3	7785	0.0991	456	324
4×240	64.5	10695	0.0754	538	375
4×300	67.6	12550	0.0601	621	419

Five-core

Cores × mm ²	Nominal O.D. (mm)	Weight (kg/km)	Cond. R @20°C (Ω/km)	In air (A) method E / F	In ground (A) method D2
5×1.5	10.4	155	12.1	23	23
5×2.5	11.6	215	7.41	32	30
5×4	13.2	300	4.61	42	39
5×6	14.7	405	3.08	54	49
5×10	17.1	625	1.83	75	65
5×16	20.2	935	1.15	100	84
5×25	24.5	1445	0.727	127	107
5×35	27.7	1955	0.524	158	129
5×50	33	2730	0.387	192	153
5×70	38.2	3805	0.268	246	188
5×95	43.1	4950	0.193	298	226
5×120	48.7	6285	0.153	346	257
5×150	55.6	8145	0.124	399	287
5×240	71.8	13210	0.0754	538	375

Green code CU/XLPE/PVC/PVC-FR: copper conductor, XLPE insulation, PVC bedding and flame-retardant PVC outer sheath. The conductor has a class-5 (fine-wire) construction with conductor resistance to class 2; resistances are the IEC 60228 class-2 maxima. Outer diameters and weights are real class-5 values from the RV-K range (the international equivalent of YMvK ss), cross-checked across four makers; current-carrying capacities are the same as for the standard YMvK; the flexible class-5 version is published with identical current tables. All values are indicative and non-binding. The cable is Cca-s2,d2,a3 as standard and available in Dca on request. Current-carrying capacities: copper, conductor temperature 90 °C, reference installation methods of NEN 1010: in air = method E, multi-core cable in free air (single-core: method F, three cables in trefoil, touching, in free air); in ground = method D2, cable buried directly in the ground. Two-core values are the single-phase values, three-, four- and five-core values the three-phase values. Ambient and ground temperature, soil thermal resistivity and grouping are not stated with these values; for derating ask Q Cables. n/a = not given. * = value as published by the source; a second publication from the same source gives 63 A (2 × 6) and 289 A (2 × 70).