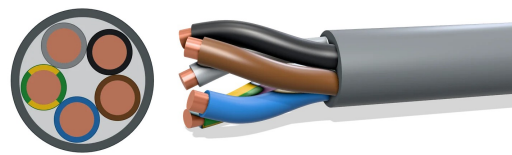


Application

YMvK 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 standard YMvK with a class 1/2 conductor; for a fully flexible conductor (class 5, often used in the larger cross-sections for easier pulling) see the YMvK ss variant.



CONSTRUCTION

Conductor	Copper, class 1 or 2 (solid or stranded), IEC 60228.
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	8.1	140	1.83	n/a	65
1×16	8.9	200	1.15	n/a	84
1×25	10.5	295	0.727	135	107
1×35	11.5	390	0.524	169	129
1×50	12.9	515	0.387	207	153
1×70	14.7	715	0.268	268	188
1×95	16.6	965	0.193	328	226
1×120	18.1	1195	0.153	383	257
1×150	20.5	1485	0.124	444	287
1×185	22.3	1820	0.0991	510	324
1×240	25.4	2370	0.0754	607	375
1×300	27.9	2960	0.0601	703	419
1×400	31.3	3765	0.047	823	n/a
1×500	34.9	4795	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	9	115	12.1	26	27
2×2.5	10.2	160	7.41	36	35
2×4	11.4	215	4.61	49	46
2×6	12.9	290	3.08	53*	58
2×10	15.3	440	1.83	86	77
2×16	17.5	635	1.15	115	100
2×25	20.9	965	0.727	149	129
2×35	23.4	1265	0.524	185	155
2×50	26.7	1690	0.387	225	183
2×70	30.6	2320	0.268	286*	225
2×95	34.5	3120	0.193	352	270
2×120	38	3830	0.153	410	306
2×150	42.9	4780	0.124	473	343
2×185	46.9	5795	0.0991	542	387
2×240	53.2	7530	0.0754	641	448
2×300	58.5	9360	0.0601	741	502

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	9.4	140	12.1	23	23
3×2.5	10.7	195	7.41	32	30
3×4	12	265	4.61	42	39
3×6	13.6	355	3.08	54	49
3×10	16.2	545	1.83	75	65
3×16	18.6	790	1.15	100	84
3×25	22.2	1205	0.727	127	107
3×35	24.9	1580	0.524	158	129
3×50	28.4	2115	0.387	192	153
3×70	32.6	2905	0.268	246	188
3×95	36.8	3915	0.193	298	226
3×120	40.6	4810	0.153	346	257
3×150	45.8	6015	0.124	399	287
3×185	50.1	7290	0.0991	456	324
3×240	56.9	9480	0.0754	538	375
3×300	62.5	11780	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	10.1	170	12.1	23	23
4×2.5	11.5	235	7.41	32	30
4×4	13	320	4.61	42	39
4×6	14.7	430	3.08	54	49
4×10	17.6	660	1.83	75	65
4×16	20.2	955	1.15	100	84
4×25	24.1	1460	0.727	127	107
4×35	27.1	1915	0.524	158	129
4×50	30.9	2560	0.387	192	153
4×70	35.5	3520	0.268	246	188
4×95	40.1	4745	0.193	298	226
4×120	44.2	5830	0.153	346	257
4×150	49.9	7290	0.124	399	287
4×185	54.6	8840	0.0991	456	324
4×240	62	11490	0.0754	538	375
4×300	68.2	14270	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	10.8	195	12.1	23	23
5×2.5	12.3	270	7.41	32	30
5×4	13.9	365	4.61	42	39
5×6	15.7	495	3.08	54	49
5×10	18.9	755	1.83	75	65
5×16	21.7	1090	1.15	100	84
5×25	26	1665	0.727	127	107
5×35	29.2	2190	0.524	158	129
5×50	34	2980	0.387	192	153
5×70	39.5	4200	0.268	246	188
5×95	44.4	5420	0.193	298	226
5×120	48.9	6650	0.153	346	257
5×150	55.2	8310	0.124	399	287
5×240	68.6	13090	0.0754	538	375

Green code CU/XLPE/PVC/PVC-FR: copper conductor, XLPE insulation, PVC bedding and flame-retardant PVC outer sheath. Conductor resistances are IEC 60228 class 1/2 maxima; nominal outer diameters, weights and current-carrying capacities are nominal manufacturer values and 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).