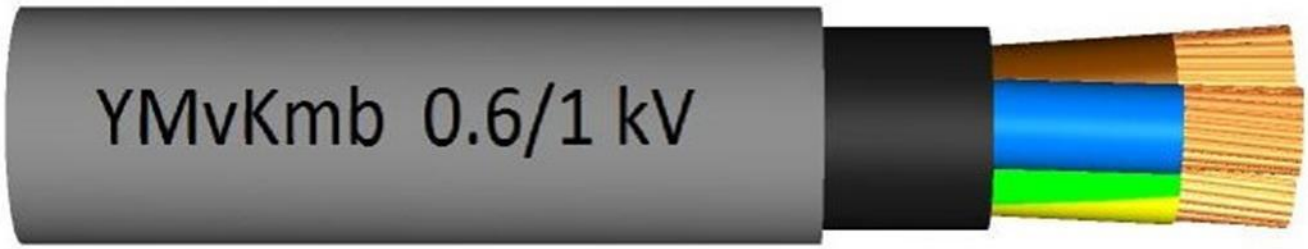
YMvKmb 0.6/1kV

Non-armoured, XLPE-insulated installation cables with flame retardant PVC sheath



Application

Power and control cable for general use in low voltage installations up to 1 kV, suitable for all applications indicated in NEN 1010. Also suitable for humid conditions. The cable can be applied in unfavourable circumstances, like an increased ambient temperature, and in cable bundles. The multicore versions are mainly used for auxiliary current cables and also for measurement and control purposes.

Construction

Conductor	: Plain annealed copper, round < 6 mm²: solid (class 1) > 10 mm²: stranded (class 2)
Insulation	: Cross-linked polyethylene (XLPE)
Assembly	: 2 Up to 8 cores: cores cabled together, filled to make a round shape >10 cores wrapped with polyester foil
Outer sheath	: Polyvinyl chloride (PVC) flame retardant (mb)
Marking text	: E.g. “YMvKmb 0.6/1kV 1x6mm² 2016 KEMA-KEUR CE”
Rated voltage	: 0.6/1kV
Test voltage	: 3.5kV

Core identification

1 core	: Black
2 cores	: Brown, blue
3 cores	: Brown, black, grey (x-version) Brown, black, blue (variant version) < 6 mm² Brown, blue, green-and-yellow (G-version)
4 cores	: Brown, black, grey, blue (x-version) Brown, black, grey, green-yellow (G-version) Brown, black, blue, green-and-yellow (variant version)
5 cores	: Brown, black, grey, black, blue (x-version) Brown, black, grey, blue, green-and-yellow (G-version)
Multicore	: One core green-yellow, other cores black andnumbered (G-version)

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Standards applied

NEN-EN-IEC 60332¬-3-24 (cat. C)	Flame retardant
NENEN IEC 603321	Self-extinguishing
NEN 3617, K 42C-1-4, HD 604-4-D	Oil resistant
NEN-EN-IEC-60332-3	

Outer Sheath Colours

Available colours : Grey*

*other colours available on request

Installation recommendations

Minimum Bending Radius : 6xD
Max. operating temperature : 90°C (temporary overload permissible until +130°C)
Max. operating temperature, fixed : -40 / 80°C
Temperature, moved/during installation : 0 / 80°C

Range and Dimensions

Article Code	Number of cores Size cross-section in mm²	Nominal diameter over insulation (mm)	Nominal overall diameter (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)
O0101C006BACGR4	1 x 6	4	6.8	135	95
O0101C010BACGR4	1 x 10	5.3	8.1	195	140
O0101C016BACGR4	1 x 16	6.4	9.2	250	205
O0101C025BACGR4	1 x 25	8.2	10.9	355	305
O0102C1.5AWWGR4	2 x 1.5	2.7	9.0	240	115
O0102C2.5AWWGR4	2 x 2.5	3.1	9.8	285	145
O0102C004AWWGR4	2 x 4	3.5	11.1	375	205
O0102C006BWWGR4	2 x 6	4	12.1	435	260
O0102C010BWWGR4	2 x 10	5.3	14.7	645	400
O0102C016BWWGR4	2 x 16	6.4	16.8	845	570
O0102C025BWWGR4	2 x 25	8.1	20.2	1220	850
O0103C1.5ABAGR4	3 x 1.5	2.7	9.4	265	135
O0103C2.5ABAGR4	3 x 2.5	3.1	10.3	315	170
O0103C2.5AXXGR4	3 x 2.5 var	3.1	10.3	315	170
O0103C004ABAGR4	3 x 4	3.5	11.7	410	245
O0103C006BBAGR4	3 x 6	4	12.8	490	315
O0103C010BBAGR4	3 x 10	5.3	15.5	720	490
O0103C016BBAGR4	3 x 16	6.4	17.8	950	705
O0103C025BBAGR4	3 x 25	8.1	21.5	1385	1070
O0104C1.5ABCGR4	4 x 1.5	2.7	10.2	310	155
O0104C1.5ASSGR4	4 x 1.5 var	2.7	10.2	310	155
O0104C2.5ABCGR4	4 x 2.5	3.1	11.1	365	205
O0104C2.5ASSGR4	4 x 2.5 var	3.1	11.1	365	205
O0104C004ABCGR4	4 x 4	3.5	12.6	475	295
O0104C006BBCGR4	4 x 6	4	13.8	570	385
O0104C010BBCGR4	4 x 10	5.3	16.9	855	605
O0104C010BBCGR4	4 x 10	5.3	16.9	855	605
O0104C016BBCGR4	4 x 16	6.4	19.5	1140	880
O0104C016BSSGR4	4 x 16 var	6.4	19.5	1140	880
O0104C025BBCGR4	4 x 25	8.1	23.5	1655	1340
O0105C1.5ABGGR4	5 x 1.5	2.7	11.0	360	185
O0105C2.5ABGGR4	5 x 2.5	3.1	12.0	430	240
O0105C004ABGGR4	5 x 4	3.5	13.7	560	350
O0105C006BBGGR4	5 x 6	4	15.0	675	465
O0105C010BBGGR4	5 x 10	5.3	18.5	1025	735
O0105C016BBGGR4	5 x 16	6.4	21.3	1360	1070
O0105C025BBGGR4	5 x 25	8.1	25.9	2010	1645
O0106C1.5ATTGR4	6 x 1.5	2.7	12.2	445	230

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YMvKmb 0.6/1kV

Article Code	Number of cores Size cross-section in mm²	Nominal diameter over insulation (mm)	Nominal overall diameter (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)
O0106C2.5ATTGR4	6 x 2.5	3.1	13.3	530	300
O0107C1.5ATTGR4	7 x 1.5	2.7	12.3	450	240
O0107C2.5ATTGR4	7 x 2.5	3.1	13.4	535	320
O0108C1.5ATTGR4	8 x 1.5	2.7	12.8	490	235
O0108C2.5ATTGR4	8 x 2.5	3.1	14.0	585	315
O0110C1.5ATTGR4	10 x 1.5	2.7	14.5	630	280
O0110C2.5ATTGR4	10 x 2.5	3.1	16.0	765	385
O0112C1.5ATTGR4	12 x 1.5	2.7	15.0	675	320
O0112C2.5ATTGR4	12 x 2.5	3.7	16.5	815	440
O0114C1.5ATTGR4	14 x 1.5	2.7	15.7	735	360
O0114C2.5ATTGR4	14 x 2.5	3.1	17.3	895	500
O0116C1.5ATTGR4	16 x 1.5	2.7	16.5	815	405
O0116C2.5ATTGR4	16 x 2.5	3.1	18.2	990	565
O0119C1.5ATTGR4	19 x 1.5	2.7	17.3	895	460
O0119C2.5ATTGR4	19 x 2.5	3.1	19.2	1105	645
O0124C1.5ATTGR4	24 x 1.5	2.7	19.9	1185	570
O0124C2.5ATTGR4	24 x 2.5	3.1	22.2	1475	805
O0130C1.5ATTGR4	30 x 1.5	2.7	21.1	1335	680
O0130C2.5ATTGR4	30 x 2.5	3.7	23.5	1655	970
O0137C1.5ATTGR4	37 x 1.5	2.7	22.7	1545	815
O0137C2.5ATTGR4	37 x 2.5	3.1	25.3	1920	1170

Electrical characteristics

Number of cores Size cross-section in mm²	Conductor resistance at 20°C, DC (ohm/km)	Conductor resistance at 90 °C, 50 Hz (oh m/km)	Maximum current rating[1] (A)	Working selfinductance (mH/km)	Approx. working capacitance (nF/km)
1 x 6	3.08	3.93	52	-	-
1 x 10	1.83	2.33	74	-	-
1 x 16	1.15	1.47	101	-	-
1 x 25	0.727	0.927	135	-	-
2 x 1.5	12.1	15.4	26	0.33	55
2 x 2.5	7.41	9.45	36	0.31	63
2 x 4	4.61	5.88	49	0.29	68
2 x 6	3.08	3.93	63	0.27	72
2 x 10	1.83	2.33	86	0.26	82
2 x 16	1.15	1.47	115	0.25	92
2 x 25	0.727	0.927	149	0.24	95
3 x 1.5	12.1	15.4	23	0.33	111
3 x 1.5	12.1	15.4	26	0.33	56
3 x 2.5	7.41	9.45	36	0.31	63
3 x 2.5	7.41	9.45	32	0.31	126
3 x 2.5 var	7.41	9.45	32	0.31	126
3 x 4	4.61	5.88	49	0.29	68
3 x 6	3.08	3.93	63	0.27	72
3 x 10	1.83	2.33	75	0.26	165
3 x 16	1.15	1.47	100	0.25	183
3 x 25	0.727	0.927	127	0.24	195
4 x 1.5	12.1	15.4	23	0.37	123
4 x 1.5	12.1	15.4	23	0.37	123
4 x 1.5 var	12.1	15.4	23	0.37	123
4 x 2.5	7.41	9.45	32	0.35	142
4 x 2.5	7.41	9.45	32	0.35	142
4 x 2.5 var	7.41	9.45	32	0.35	142
4 x 4	4.61	5.88	42	0.33	150
4 x 4	4.61	5.88	42	0.33	150
4 x 6	3.08	3.93	54	0.32	159
4 x 6	3.08	3.93	54	0.32	159
4 x 10	1.83	2.33	75	0.29	185
4 x 10	1.83	2.33	75	0.29	185

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YMvKmb 0.6/1kV

Number of cores Size cross-section in mm²	Conductor resistance at 20°C, DC (ohm/km)	Conductor resistance at 90 °C, 50 Hz (oh m/km)	Maximum current rating[1] (A)	Working selfinductance (mH/km)	Approx. working capacitance (nF/km)
4 x 16	1.15	1.47	100	0.28	212
4 x 16 var	1.15	1.47	100	0.28	202
4 x 25	0.727	0.927	127	0.28	227
4 x 25	0.727	0.927	127	0.28	227
5 x 1.5	12.1	15.4	23	0.41	128
5 x 2.5	7.41	9.45	32	0.38	147
5 x 4	4.61	5.88	42	0.36	155
5 x 6	3.08	3.93	54	0.34	164
5 x 10	1.83	2.33	75	0.32	190
5 x 16	1.15	1.47	100	0.31	217
5 x 25	0.727	0.927	127	0.3	232
6 x 1.5	12.1	15.4	18	-	=< 150
6 x 2.5	7.41	9.45	25	-	=< 160
7 x 1.5	12.1	15.4	17	-	=< 150
7 x 2.5	7.41	9.45	23	-	=< 160
8 x 1.5	12.1	15.4	16	-	=< 150
8 x 2.5	7.41	9.45	22	-	=< 150
10 x 1.5	12.1	15.4	14	-	=< 160
10 x 2.5	7.41	9.45	19	-	=< 150
12 x 1.5	12.1	15.4	13	-	=< 160
12 x 2.5	7.41	9.45	18	-	=< 150
14 x 1.5	12.1	15.4	12	-	=< 160
14 x 2.5	7.41	9.45	17	-	=< 150
16 x 1.5	12.1	15.4	11.5	-	=< 160
16 x 2.5	7.41	9.45	16	-	=< 150
19 x 1.5	12.1	15.4	11	-	=< 160
19 x 2.5	7.41	9.45	15	-	=< 150
24 x 1.5	12.1	15.4	9.5	-	=< 160
24 x 2.5	7.41	9.45	13.5	-	=< 150
30 x 1.5	12.1	15.4	8.5	-	=< 160
30 x 2.5	7.41	9.45	12.5	-	=< 150
37 x 1.5	12.1	15.4	8	-	=< 160
37 x 2.5	7.41	9.45	12	-	=< 150

1) The maximum current rating applies to one cable directly in the ground, at a soil temperature of 20 °C and a soil thermal resistivity for 2.5 Km/W, in accordance with NEN 1010:2007. For 2 cores loaded cables table A.524 column 7 is applicable and for 3 cores loaded cables table A.526 column 7 is applicable. For 4 cores cables the maximum current is given for 3 cores loaded. Correction factors for other circumstances are given in table A.5216 and A.5219. The correction factor for a soil thermal resistivity of 1 Km/W amounts 1.5.

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