

# VO-YMvKasmb 0.6/1kV

Non-armoured, XLPE-insulated installation cable 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. Suitable for direct burial and also suited for above ground installations, where extra mechanical protection of the cable is required. The cable can be applied in unfavorable conditions, like an increased ambient temperature, and in cable bundles. The multicore versions are mainly used as auxiliary current cables and also for measurement and control purposes.

## Construction

<b>Conductor</b>	: Plain annealed copper, round < 10 mm <sup>2</sup> : solid (class 1)
<b>Insulation</b>	: Cross-linked polyethylene (XLPE)
<b>Assembly</b>	: 2 Up to 8 cores: cores cabled together, filled to make a round shape > 10 cores: cores cabled together, wrapped with polyester foil
<b>Inner sheath</b>	: Polyvinyl chloride (PVC)
<b>Braiding</b>	: Galvanized steel wires with a flexible earthwire of tinned copper wires underneath
<b>Outer sheath</b>	: Polyvinyl chloride (PVC) flame retardant (mb)
<b>Marking text</b>	: E.g. "VO-YMvKasmb 0.6/1 kV 2x1.5mm <sup>2</sup> 2016 KEMA-KEUR CE"
<b>Rated voltage</b>	: 0.6/1kV
<b>Test voltage</b>	: 3.5kV

## Core identification

<b>2 cores</b>	: Brown, blue
<b>3 cores</b>	: Brown, black, grey
<b>4 cores</b>	: Brown, black, grey, blue

## Standards Applied

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

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## 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 / 90°C

## Range and Dimensions

Article Code	Number of cores Size Cross-section in mm <sup>2</sup>	Earth screen (mm <sup>2</sup> )	Nominal diameter over insulation (mm)	Nominal diameter over Inner sheath (mm)	Nominal overall diameter (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)
O0202C1.5AWWGR4	2 x 1.5	1.5	2.7	7.0	12.7	480	235
O0202C2.5AWWGR4	2 x 2.5	2.5	3.1	7.8	13.5	545	275
O0202C004AWWGR4	2 x 4	4	3.5	9.2	15.1	680	360
O0202C006AWWGR4	2 x 6	6	4	10.1	16.0	765	440
O0203C1.5ABAGR4	3 x 1.5	1.5	2.7	7.4	12.8	490	250
O0203C1.5AXXGR4	3 x 1.5 var	1.5	2.7	7.4	12.8	490	250
O0203C2.5ABAGR4	3 x 2.5	2.5	3.1	8.3	14.0	585	305
O0203C2.5AXXGR4	3 x 2.5 var	2.5	3.1	8.3	14.0	585	305
O0203C2.5AXXGR4	3 x 2.5 var	2.5	3.1	8.3	14.0	585	305
O0203C004ABAGR4	3 x 4	4	3.5	9.7	15.6	730	405
O0203C006ABAGR4	3 x 6	6	4	10.8	16.7	835	505
O0203C006AXXGR4	3 x 6 var	6	4	10.8	16.7	835	505
O0203C010ABAGR4	3 x 10	10	5.3	13.5	20.3	1235	750
O0204C1.5ABCGR4	4 x 1.5	1.5	2.7	8.2	13.6	550	280
O0204C2.5ABCGR4	4 x 2.5	2.5	3.1	9.1	14.5	630	340
O0204C004ABCGR4	4 x 4	4	3.5	10.6	16.3	795	460
O0204C006ABCGR4	4 x 6	6	4	11.8	17.7	935	585
O0204C010ABCGR4	4 x 10	10	5.3	14.9	21.7	1410	875
O0205C1.5ABGGR4	5 x 1.5	1.5	2.7	9.0	14.4	620	315
O0205C2.5ABGGR4	5 x 2.5	2.5	3.1	10.0	15.4	710	385
O0205C004ABGGR4	5 x 4	4	3.5	11.7	17.4	905	530
O0205C006ABGGR4	5 x 6	6	4	13.0	18.7	1045	675
O0206C1.5ATTGR4	6 x 1.5	1.5	2.7	10.2	15.6	730	370
O0206C2.5ATTGR4	6 x 2.5	2.5	3.1	11.3	16.7	835	455
O0207C1.5ATTGR4	7 x 1.5	1.5	2.7	10.3	15.7	735	380
O0207C2.5ATTGR4	7 x 2.5	2.5	3.1	11.4	16.8	845	475
O0208C1.5ATTGR4	8 x 1.5	1.5	2.7	10.8	16.2	785	380
O0208C2.5ATTGR4	8 x 2.5	2.5	3.1	12.0	17.4	905	480
O0210C1.5ATTGR4	10 x 1.5	1.5	2.7	12.5	17.9	960	445
O0210C2.5ATTGR4	10 x 2.5	2.5	3.1	14.0	19.4	1125	565
O0212C1.5ATTGR4	12 x 1.5	1.5	2.7	13.0	18.4	1015	490
O0212C2.5ATTGR4	12 x 2.5	2.5	3.7	14.5	19.9	1185	625
O0214C1.5ATTGR4	14 x 1.5	1.5	2.7	13.7	19.1	1090	540
O0214C2.5ATTGR4	14 x 2.5	2.5	3.1	15.3	20.7	1285	690
O0216C1.5ATTGR4	16 x 1.5	1.5	2.7	14.5	19.9	1185	590
O0216C2.5ATTGR4	16 x 2.5	2.5	3.1	16.2	21.6	1395	765
O0219C1.5ATTGR4	19 x 1.5	1.5	2.7	15.3	20.7	1285	650
O0219C2.5ATTGR4	19 x 2.5	2.5	3.1	17.2	22.6	1530	855
O0224C1.5ATTGR4	24 x 1.5	1.5	2.7	17.9	23.3	1625	780
O0224C2.5ATTGR4	24 x 2.5	2.5	3.1	20.2	25.5	1950	1035
O0224C2.5ATTGR4	24 x 2.5	2.5	3.1	20.2	25.5	1950	1035
O0230C1.5ATTGR4	30 x 1.5	1.5	2.7	19.1	24.4	1785	900
O0230C2.5ATTGR4	30 x 2.5	2.5	3.7	21.5	26.8	2150	1220
O0237C1.5ATTGR4	37 x 1.5	1.5	2.7	20.7	26.0	2025	1050
O0237C2.5ATTGR4	37 x 2.5	2.5	3.1	23.3	28.6	2450	1430

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## Electrical characteristics

Number of cores Size cross-section in mm <sup>2</sup>	Conductor resistance at 20°C, DC (ohm/km)	Conductor resistance at 90 °C, 50 Hz (oh m/km)	Maximum current rating <sup>1</sup> (A)	Working selfinductance (mH/km)	Approx. working capacitance (nF/km)
2 x 1.5	12.1	15.4	26	0.37	121
2 x 2.5	7.41	9.45	34	0.34	139
2 x 4	4.61	5.88	44	0.32	152
2 x 6	3.08	3.93	56	0.3	164
3 x 1.5	12.1	15.4	22	0.37	134
3 x 1.5 var	12.1	15.4	22	0.37	134
3 x 2.5	7.41	9.45	29	0.34	156
3 x 2.5 var	7.41	9.45	29	0.34	156
3 x 2.5 var	7.41	9.45	34	0.34	78
3 x 4	4.61	5.88	37	0.32	171
3 x 6	3.08	3.93	46	0.3	186
3 x 6 var	3.08	3.93	46	0.3	186
3 x 10	1.83	2.33	61	0.28	230
4 x 1.5	12.1	15.4	22	0.41	145
4 x 2.5	7.41	9.45	29	0.38	162
4 x 4	4.61	5.88	37	0.36	172
4 x 6	3.08	3.93	46	0.34	186
4 x 10	1.83	2.33	61	0.2	229
5 x 1.5	12.1	15.4	22	0.41	150
5 x 2.5	7.41	9.45	29	0.38	167
5 x 4	4.61	5.88	37	0.36	177
5 x 6	3.08	3.93	46	0.34	191
6 x 1.5	12.1	15.4	17	-	= < 160
6 x 2.5	7.41	9.45	22	-	= < 170
7 x 1.5	12.1	15.4	16	-	= < 160
7 x 2.5	7.41	9.45	21	-	= < 170
8 x 1.5	12.1	15.4	15	-	= < 160
8 x 2.5	7.41	9.45	20	-	= < 170
10 x 1.5	12.1	15.4	14	-	= < 160
10 x 2.5	7.41	9.45	18	-	= < 170
12 x 1.5	12.1	15.4	13	-	= < 160
12 x 2.5	7.41	9.45	17	-	= < 170
14 x 1.5	12.1	15.4	12	-	= < 160
14 x 2.5	7.41	9.45	16	-	= < 170
16 x 1.5	12.1	15.4	11.5	-	= < 160
16 x 2.5	7.41	9.45	15	-	= < 170
19 x 1.5	12.1	15.4	10.5	-	= < 160
19 x 2.5	7.41	9.45	14	-	= < 170
24 x 1.5	12.1	15.4	9.5	-	= < 160
24 x 2.5	7.41	9.45	13	-	= < 170
24 x 2.5	7.41	9.45	13	-	= < 170
30 x 1.5	12.1	15.4	8.5	-	= < 160
30 x 2.5	7.41	9.45	12	-	= < 170
37 x 1.5	12.1	15.4	8	-	= < 160
37 x 2.5	7.41	9.45	11	-	= < 170

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.52-4 column 7 is applicable and for 3 cores loaded cables table A.52-6 column 7 is applicable. For 4 and 5 cores cables the maximum current is given for 3 cores loaded. Correction factors for other circumstances are given in table A.52-16 and A.52-19. The correction factor for a soil thermal resistivity of 1 Km/W amounts 1.5.

### NOTICE

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