

VG-YMvKasmb 0.6/1kV rss

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 NEN 1010 indicated applications. Suited for direct burial, e.g. as power cable for mains and distribution boards and as connection for motors. Also suited for above ground installations, where extra mechanical protection of the cable is required. The cables can be applied in unfavorable conditions, like an increased ambient temperature, and in cable bundles. The extra flexibility makes this cable especially suited when the installation room is limited and/or difficult to reach.

Construction

Conductor	: Stranded plain annealed copper, to IEC60228 class 2 (flexibility of class 5)
Insulation	: Cross-linked polyethylene (XLPE)
Assembly	: Cores cabled together, filled to make a round shape
Inner sheath	: Polyvinyl chloride (PVC)
Armouring/earth conductor	: Galvanized steel wires and plain copper wires surrounded by an open counter-wound spiral of steel tape
Outer sheath	: Polyvinyl chloride (PVC) flame retardant (mb)
Marking text	: E.g.: "VG-YMvKasmb rss 0.6/1kV 2x10mm ² 2016 KEMA-KEUR CE"
Rated voltage	: 0.6/1kV
Test voltage	: 3.5kV

Core identification

3 cores	: Brown, black, grey
4 cores	: Brown, black, grey, blue

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	

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Outer Sheath Colours

Available colours : Grey*

*other colours available on request

Installation recommendations

Minimum Bending Radius : 7xD
 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 mm ²	Earth screen (mm ²)	Nominal diameter over insulation (mm)	Nominal diameter over Inner sheath (mm)	Nominal overall diameter (mm)	Maximum tensile strength (N)	Approx. weight (kg/km)
O0303C035ENNGR4	3 x 35	16	9.4	22.1	27.8	6180	1975
O0303C050ENNGR4	3 x 50	25	10.8	25.3	31.1	7735	2525
O0303C070ENNGR4	3 x 70	35	12.7	29.8	36.0	10000	3395
O0303C095ENNGR4	3 x 95	50	14.7	34.0	40.4	10000	4405
O0303C120ENNGR4	3 x 120	60	16.5	37.8	45.8	10000	5945
O0303C150ENNGR4	3 x 150	75	18.4	42.3	50.7	10000	7220
O0303C185ENNGR4	3 x 185	95	20.7	47.3	56.0	10000	8770
O0303C240ENNGR4	3 x 240	120	23.4	53.4	62.0	10000	11060
O0303C300ENNGR4	3 x 300	150	27.2	-	68.4	10000	13445
O0304C035ENNGR4	4 x 35	16	9.4	24.7	30.5	7440	2410
O0304C050ENNGR4	4 x 50	25	10.8	28.3	34.3	9410	3085
O0304C070ENNGR4	4 x 70	35	12.7	33.1	39.7	10000	4200
O0304C095ENNGR4	4 x 95	50	14.7	37.8	45.8	10000	5975
O0304C120ENNGR4	4 x 120	60	16.5	42.3	50.7	10000	7355
O0304C150ENNGR4	4 x 150	75	18.4	47.2	55.9	10000	8880
O0304C185ENNGR4	4 x 185	95	20.7	52.8	61.9	10000	10895
O0304C240ENNGR4	4 x 240	120	23.4	59.6	69.1	10000	13735
O0304C300ENNGR4	4 x 300	150	27.2	66.0	75.9	10000	16755

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Electrical characteristics

Number of cores Size cross- section in mm ²	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)
3 x 35	0.524	0.669	122	-	-
3 x 50	0.387	0.494	144	-	-
3 x 70	0.268	0.343	178	-	-
3 x 95	0.193	0.248	211	-	-
3 x 120	0.153	0.198	240	-	-
3 x 150	0.124	0.162	271	-	-
3 x 185	0.0991	0.131	304	0.2	450
3 x 240	0.0754	0.102	351	-	-
3 x 300	0.0601	0.0831	703	-	-
4 x 35	0.524	0.669	122	-	-
4 x 50	0.387	0.494	144	-	-
4 x 70	0.268	0.343	178	-	-
4 x 95	0.193	0.248	211	-	-
4 x 120	0.153	0.198	240	-	-
4 x 150	0.124	0.162	271	-	-
4 x 185	0.0991	0.131	304	0.17	461
4 x 240	0.0754	0.102	351	-	-
4 x 300	0.0601	0.0831	-	-	-

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

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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