

NEN: YMz1Kmb 0,6/1kV ss

Application:

· Halogen free power cable with high flexibility in low voltage installations up to 1 kV, suitable for all applications indicated in NEN 1010, especially when stringent demands on fire safety apply

The extra flexibility makes this cable especially suitable when the installation room is very limited and/or difficult to reach

- Suitable for humid conditions
- Installations with many curves
- Can be applied under unfavourable conditions, like an increased ambient temperature, and in cable bundles

Properties regarding fire performance:

- Halogen free, in accordance with NEN-EN 50267 (IEC 60754)
- Low smoke, in accordance with NEN-EN-IEC 61034
- Flame retardant, in accordance with NEN-EN-IEC 60332-3-24 cat. C
- Self-extinguishing, in accordance with NEN-EN-IEC 60332-1

Remarks:

- Use special cable lugs for flexible conductors

Construction:

Conductor: plain annealed copper, round (class 5)

Insulation: cross-linked polyethylene (XLPE)

Assembly: corespliced and filled to make a round shape

Outer sheath: halogen free flame retardant thermoplastic (LSOH)

Electrical data:

Voltage rating: 0,6/1 kV

Test voltage: 3,5kV

Core colours:

1 core: black

2 cores: brown, blue

3 cores: brown, black, grey (x-version)

4 cores: brown, black, grey, blue (x-version)

brown, black, grey, green-and-yellow (G-version)

5 cores: brown, black, grey, blue, green-and-yellow (G-version)

Standards/References:

NEN 3618

KEMA 42C-1-5

HD 604-5-C

NEN-EN-IEC 60332-1

NEN-EN 50266

IEC 60332-3

NEN-EN-IEC 61034

NEN-EN 50267

IEC 60754

Additional information:

Minimum installation temperature: 0 °C

Maximum conductor temperature: +90 °C

(temporary overload permissible until +130 °C)

Operation temperature: min. -40 °C, max. +80 °C

Outer sheath: grey

Approval: KEMA-KEUR

Packaging: drums

Construction data

Conductor material	Cu, bare
Conductor category	Class 5 = flexible
Shape of conductor	Round
Core insulation	XLPE
Screen	No
Drain wire	No
Lead sheath	No
Concentric conductor	None
Armouring	No
Material outer sheath	Copolymer, thermoplastic
Colour outer sheath	Grey
Halogen free (acc. EN 50267-2-2)	Yes
Flame retardant	Acc. EN 50266-2-4
Low smoke (acc. EN61034-2)	Yes
Insulation integrity	No
Circuit integrity	No
Max. conductor temperature	90 °C
Operating temperature, flexible	-20/90 °C
Operating temperature, fix	-40/80 °C
Nominal voltage U0	0.6 kV
Nominal voltage U	1 kV
Fire-resistant layer (core)	No
Fire-resistant layer (lay-up)	No
Screening	None

Properties

Oil resistant	Good
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Electrical

Operand	approx.
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HULTFLEX XS mbzh - Continuation

Halogen free installation cable



Product Range

Product nr.	No. of cores and conductor cross-section ¹	Nominal diameter over insulation	Nominal overall diameter	Minimum bending radius	Maximum tensile strength	Approx. weight
	(n x mm ²)	(mm)	(mm)	(mm)	(N)	(kg/km)
129156	1x25	8,4	11,2	45	375	325
129157	1x35	9,5	12,3	50	450	410
129158	1x50	11,1	13,9	60	575	525
129159	1x70	13,1	15,9	65	755	730
129160	1x95	15,1	18,1	75	980	980
129161	1x120	16,7	19,7	80	1160	1220
129162	1x150	18,8	22,0	90	1450	1525
129163	1x185	21,1	24,3	100	1770	1880
129164	1x240	24,0	27,4	110	2250	2455
129165	1x300	27,2	30,8	125	2845	2955
129127	4G25	8,4	24,3	100	1770	1425
129166	4G35	9,5	27,0	110	2185	1815
129167	4G50	11,1	32,2	130	3110	2395
129110	4G70	13,1	37,2	150	4150	3455
129070	4G95	15,1	42,6	175	5440	4720
129112	4G120	16,7	46,8	190	6570	5870
129108	4G150	18,8	52,5	210	8265	7260
129128	5G25	8,4	26,8	110	2150	1740
129071	5G35	9,5	29,8	120	2660	2215
129109	5G50	11,1	35,6	145	3800	3030
129111	5G70	13,1	41,6	170	5190	4275
129168	5G95	15,1	47,4	190	6740	5710
129169	5G120	16,7	52,3	210	8205	7160

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core.

Electrical features

Product nr.	No. of cores and conductor cross-section ¹	Conductor resistance at 20 °C, DC	Conductor resistance at 90 °C, 50 Hz	Maximum current rating ²	Working self-inductance ³	Working capacitance ⁴
	(n x mm ²)	(ohm/km)	(ohm/km)	(A)	(mH/km)	(nF/km)
129156	1x25	0,727	0,9270	135	-	-
129157	1x35	0,524	0,6690	169	-	-
129158	1x50	0,387	0,4940	207	-	-
129159	1x70	0,268	0,3440	268	-	-
129160	1x95	0,193	0,2480	328	-	-
129161	1x120	0,153	0,1980	383	-	-
129162	1x150	0,124	0,1610	444	-	-
129163	1x185	0,0991	0,1310	510	-	-
129164	1x240	0,0754	0,1020	607	-	-
129165	1x300	0,0601	0,0831	703	-	-
129127	4G25	0,727	0,9270	127	0,28	approx. 227
129166	4G35	0,524	0,6690	158	0,26	approx. 240
129167	4G50	0,387	0,4940	192	0,25	approx. 242
129110	4G70	0,268	0,3417	246	0,25	approx. 245
129070	4G95	0,193	0,2461	298	0,25	approx. 255
129112	4G120	0,153	0,1951	346	0,25	approx. 266
129108	4G150	0,124	0,1581	399	0,24	approx. 270
129128	5G25	0,727	0,9270	127	0,30	approx. 232
129071	5G35	0,524	0,6681	158	0,30	approx. 243
129109	5G50	0,387	0,4934	192	0,27	approx. 245
129111	5G70	0,268	0,3417	246	0,23	approx. 247
129168	5G95	0,193	0,2480	298	0,27	approx. 268
129169	5G120	0,153	0,1980	346	0,27	approx. 280

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core.

2) The maximum current rating applies to one cable in free air, at an ambient temperature of 30 °C, in accordance with NEN 1010:2007 table A.52-13. Correction factors for other circumstances are given in table A.52-15 and A.52-18. The maximum current for a single core cable is given in column 7 (three single core cables loaded in horizontal formation, spacing 1x cable diameter. For 4- and 5-cores cables the maximum current is given for 3 cores loaded.

3) For 4- and 5-cores cables the working self-inductance for 2 not adjacent cores is given.

4) The working capacitance for asymmetric alternating current- or symmetric three phase current.