



NEN: BMvK 0,6/1kV ss

Application:

- The extra high flexibility makes this cable especially suitable when installation space or access is very limited
- Especially suitable for installations where strong vibrations occur

General properties:

- Very flexible because of the flexible conductor and the rubber (EPR) insulation

Remarks:

- Use special cable lugs for flexible, class 5, conductors

Construction:

Conductor: flexible plain annealed copper, round (class 5) wrapped with polyester foil

Insulation: cross-linked ethylene propylene rubber (EPR)

Outer sheath: polyvinyl chloride (PVC)

Electrical data:

Voltage rating: 0,6/1 kV

Test voltage: 3,5 kV

Core colours:

1 core: black

Normen/Referenties:

IEC 60502

Additional information:

Minimum installation temperature: 0 °C

Maximum conductor temperature: +90 °C

(temporarily overload permissible until +130 °C)

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

Outer sheath: grey

Packaging: drums

Construction data

Conductor material	Cu, tinned
Conductor category	Class 5 = flexible
Shape of conductor	Round
Number of cores	1
Core insulation	Rubber (EPR)
Core identification	None
Yellow/green conductor	No
Screen	No
Drain wire	No
Lead sheath	No
Concentric conductor	None
Armouring	No
Material outer sheath	PVC
Colour outer sheath	Grey
Halogen free (acc. EN 50267-2-2)	No
Flame retardant	Acc. EN 60332-1-2
Low smoke (acc. EN61034-2)	No
Insulation integrity	No
Circuit integrity	No
Max. conductor temperature	90 °C
Operating temperature, flexible	0/80 °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

Product packing

Length of 1 m

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)
114661	1x95	16,5	19,7	80	1160	1065
114935	1x120	18,6	21,6	90	1425	1305
114662	1x150	20,6	23,8	100	1725	1620
114663	1x185	22,8	26,2	105	2120	1965
114775	1x240	25,7	29,3	120	2645	2555
114762	1x300	29,1	32,9	135	3285	3160

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 ¹	Working self-inductance ²
	(n x mm ²)	(ohm/km)	(ohm/km)	(A)	(mH/km)
114661	1x95	0,2100	0,2678	430	0,45
114935	1x120	0,1640	0,2091	500	0,44
114662	1x150	0,1320	0,1683	577	0,44
114663	1x185	0,1080	0,1377	661	0,44
114775	1x240	0,0817	0,1042	781	0,44
114762	1x300	0,0654	0,0834	902	0,44

1) 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, column 7 (three single core cables loaded in horizontal formation, spacing 1x cable diameter). Correction factors for other circumstances are given in table A.52-15 and A.52-1

2) Three single core cables loaded in horizontal formation, spacing 1x cable diameter