

# FLAMEBLOCKER

## N1X1G1-U, R 0,6/1kV

IEC 60502-1



Halogen- free low smoke power cables



### CONSTRUCTION

<b>Conductors:</b>	annealed copper: N1X1G1-U - solid class 1(RE), N1X1G1-R - circular or circular compacted stranded conductor class 2 (RM) or stranded sector – shaped conductor class 2 (SM) acc. to EN 60228
<b>Insulation:</b>	special XLPE compound acc. to HD 603.1
<b>Inner covering:</b>	filling compound
<b>Sheath:</b>	special LSOH compound type ST <sub>8</sub> acc. to IEC 60502-1

### CHARACTERISTIC

<b>Colour of sheath:</b>	black	
<b>Core identification:</b>		
	with protective conductor – G	without protective conductor – X
3-core:	green-yellow, blue, brown	brown, black, grey
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
<b>Maximum conductor operating temperature:</b>	+90°C	
<b>Lowest ambient temperature for fixed installation:</b>	-30°C	
<b>Lowest installation temperature:</b>	-5°C	
<b>Maximum short-circuit conductor temperature:</b>	+250°C	
<b>Minimum bending radius:</b>	12 x D, D – overall diameter	
<b>Max. permissible tensile stress with cable grip for Cu-conductor:</b>	50 N/mm <sup>2</sup>	

### FIRE PERFORMANCE

▪ <b>Flame retardant:</b>	IEC 60332-1-2, IEC 60332-3-24
▪ <b>Smoke density:</b>	IEC 61034-2: light transmittance values > 70%
▪ <b>Gases evolved during combustion:</b>	IEC 60754-1, IEC 60754-2: pH ≥ 4,3; conductivity ≤ 100 μS/cm
▪ <b>CPR – class reaction to fire (acc EN 50575):</b>	Dca-s1,d0,a1

N1X1G1-U,R,K IEC MK-06-02-2018  
Replace N1X1G1-U,R,K IEC JM-14-07-2017

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### APPLICATIONS

XLPE insulated and LSOH sheathed power cables for the supply of electrical energy.

Special for installations in the open air, indoors, in cable ducts.

Not suitable for use in water; can be installed in the ground

#### Standard length cable packing

500 or 1000m on drums. Other forms of packing and delivery are available on request

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm <sup>2</sup>	mm	kg/km	Ω/km
N1X1G1-U			
3x1,5RE	9,9	149	12,1
3x2,5RE	10,8	190	7,41
5x1,5RE	11,5	202	12,1
5x2,5RE	12,5	264	7,41
N1X1G1-R			
4x25RM	23,1	1302	0,727
5x6RM	15,5	480	3,08
5x10RM	18,0	715	1,83
5x16RM	20,7	1042	1,15
4x50SM	26,3	2083	0,387
4x95SM	34,2	3978	0,193
4x150SM	42,6	6166	0,124
4x240SM	52,9	9977	0,0754

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