

FLAME-X 950

BFXI 0,6/1kV

based on HD 604-5D; IEC 60502-1



Halogen- free low smoke fire resistant security power cables



CONSTRUCTION

Conductors:	Plain annealed copper circular stranded conductor class 2 (RM) acc. to EN 60228	
Primary insulation:	A suitable wrapping of mica tape with a glass cloth	
Insulation:	Special XLPE compound type XLPE acc. to IEC 60502-1	
Inner covering:	Special low smoke zero halogen filling compound	
Sheath:	Thermoplastic halogen- free compound type ST ₈ acc. to IEC 60502-1	
Colour of sheath:	Orange	
Core identification acc. to HD 308 S2:		
	with protective conductor (G)	without protective conductor (X)
2-core:		blue, brown
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

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-20°C
Cold impact test HD 604-5D:	-25±2°C
Maximum short-circuit conductor temperature:	+250°C
Test voltage of complete cable:	4 kV AC 50Hz , 5 min.
Minimum bending radius:	12D, (D - overall cable diameter)

FIRE PERFORMANCE

Fire resistant:	IEC 60331-21
Flame propagation:	IEC 60332-3-24 (cat. C)
Smoke density:	IEC 61034-2
Corrosive and acid gases emission:	EN 60754-1 HCl content < 0,5% EN 60754-2 pH ≥ 4,3 & conductivity ≤ 10 μSmm ⁻¹

APPLICATIONS

Fire resistant cables for use in fixed installations in industrial areas, public buildings (as for example power plants, hospitals, shopping centres, theatres) and similar applications where maintenance of power supply during a fire is required for a defined period of time

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
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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 ²	mm	kg/km	Ω/km
2x1,5RM	12,4	208	12,1
3x1,5RM	13,0	228	12,1
4x1,5RM	14,1	262	12,1
5x1,5RM	15,2	303	12,1
2x2,5RM	13,3	248	7,41
3x2,5RM	14,0	277	7,41
4x2,5RM	15,1	321	7,41
5x2,5RM	16,3	374	7,41
2x4RM	14,3	303	4,61
3x4RM	15,1	344	4,61
4x4RM	16,4	405	4,61
5x4RM	17,7	476	4,61
2x6RM	15,1	359	3,08
3x6RM	15,9	416	3,08
4x6RM	17,2	494	3,08
5x6RM	18,7	588	3,08
2x10RM	17,5	511	1,83
3x10RM	18,4	602	1,83
4x10RM	20,0	724	1,83
5x10RM	21,8	866	1,83
2x16RM	19,5	685	1,15
3x16RM	20,6	826	1,15
4x16RM	22,5	1004	1,15
5x16RM	24,5	1210	1,15

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