

KJAAM-HF n x (2+1) x 0,5 mm²

Application

Instrumentation cable for indoor digital and analog installations.

Standards and Directives

Testing EN 50289-x-x, EN 50290-x-x

Fire testing EN 50399, EN 60332-1-2, EN 60332-3-22, EN 61034-2, EN 60754-2

ROHS directive EU 2011/65/EC

LVD Directive 2014/35/EU

EN 50575 Cables for general applications in construction works subject to reaction to fire requirements



Class of reaction to fire performance

2 - 4 pairs cables
8 – 48 pairs cables

Dca -s2,d2,a2
Eca

Construction

Conductor	Stranded tinned copper
Insulation	Solid PE
Pair	Two conductors twisted together with an earth conductor. Each pair individually shielded with plastic-aluminium tape. Each pair is identified by a number tape. In the pairs all a-conductors are blue and b-conductors are red coloured
Unit	One, two or four pairs are stranded together to form a unit.
Common screen	Plastic-aluminium tape with an earth- conductor
Sheath	Grey (RAL 7035) halogen-free flame retardant material

All values in this specification are nominal unless otherwise stated.

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Dimensions

Nestor-code	SSTL-code	Cable type	Diameter mm	Weight Kg/km	Min. sheath thickness mm	Length / Drum
L10808	0217426	KJAAM-HF 2x(2+1)x0,5	8,5	78	0,9	1000/K6
L10809	0217427	KJAAM-HF 2x(2+1)x0,5 500 m	8,5	78	0,9	500/P5
L10810	0217428	KJAAM-HF 2x(2+1)x0,5 200 m	8,5	78	0,9	200/P4
L10811	0217429	KJAAM-HF 4x(2+1)x0,5	10,2	120	0,9	1000/K7
L10812	0217430	KJAAM-HF 4x(2+1)x0,5 500 m	10,2	120	0,9	500/K6
L10813	0217431	KJAAM-HF 4x(2+1)x0,5 200 m	10,2	120	0,9	200/P5
L10814	0217432	KJAAM-HF 8x(2+1)x0,5	13,4	210	0,9	1000/K9
L10815	0217433	KJAAM-HF 8x(2+1)x0,5 200 m	13,4	210	0,9	200/P5
L10816	0217434	KJAAM-HF 12x(2+1)x0,5	16,3	291	0,9	1000/K11
L10817	0217435	KJAAM-HF 24x(2+1)x0,5	21,5	554	0,9	1000/K14
L10818	0217436	KJAAM-HF 48x(2+1)x0,5	29,7	1028	1,0	1000/K18

Fire properties

The cables are tested according to following tests:

EN 50399

Test method for bunch of cables under fire conditions – Heat release and smoke production are measured on cables during flame spread test.

EN 60332-1-2

Test for vertical flame propagation for a single insulated wire or cable

EN 60332-3-22

Test for vertical flame spread of vertically-mounted bunched wires or cables-Category A

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LF - electrical characteristics

Loop resistance, at 20°C	Individual max., ohm/km	
	81	
Mutual capacitance	nominal value, nF/km	
	85	
Insulation resistance, 500 V DC, minimum	2 Gohm x km	
Dielectric strength, 1 min.	Conductor/conductor, V DC	Conductor/Screen, V DC
	1500	1000
Velocity factor	0,66	
Characteristic impedance, ohm	70 ± 10 %	
Nominal attenuation, dB/100 m	9,6 kHz	0,3
	19,2 kHz	0,5
	64 kHz	0,7
	100 kHz	0,9
	200 kHz	1,6
	1000 kHz	4,5

Mechanical characteristics

Bending in accordance with EN 50289-3-6 and Tensile performance in accordance with EN 50289-3-16		
Temperature range	- Transport, storage, operation	-45 to +70 °C
	- Installation	-5 to +60 °C
Bending radius	- During installation (min.)	15 x Diameter
	- Final installation (min.)	10 x Diameter

Testing and inspection

Testing and inspection will be carried in accordance with following characteristics and standards	
Electrical LF-characteristics IEC 60189-1	Loop resistance, mutual capacitance, Dielectric strength, Insulation resistance, short circuits, wire breaks Thickness of sheath Diameter of cable Cable design Sheath marking
Mechanical characteristics IEC 60811-1-1	
Visual inspection of cable	
The LF-electrical characteristics shall be measured as a routine test in accordance with our test program.	