

## KJAAM-HF C

### Instrumentation cable-HF

### 300 V



### Application

Instrumentation cable for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. Can also be used in medical facilities where higher fire class is required. EMC shielded cable gives an excellent protection against electromagnetic disturbances. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free and flame-retardant according to CPR-class Cca-s1,d1,a1.

### Design

<b>Standards</b>	EN 50288-7
<b>Reaction to fire</b>	Cca-s1,d1,a1; EN 13501-6, EN 50575:2014+A1:2016
<b>Conductor</b>	Circular stranded tinned copper, EN/IEC 60228 class 2
<b>Insulation</b>	Polyethylene compound
<b>Core Identification</b>	Blue, red
<b>Cable lay up</b>	Insulated wires are twisted in pairs. Colours in pairs are blue and red. Pairs are marked with number tape.
<b>Overall shield</b>	Two aluminium tapes and earthing conductor (tinned copper, between the tapes)
<b>Inner covering</b>	Extruded filling compound
<b>Individual shield</b>	Aluminium tape and earthing conductor
<b>Oversheath</b>	UV-protected polyolefin compound , Grey

### Temperature limits

<b>Max. conductor temperature °C</b>	70
<b>Max. cond. temp. short circuit max. 5 s °C</b>	160
<b>Min. cable temperature during operation °C</b>	-40
<b>Min. cable temperature during handling °C</b>	-10
<b>Min. cable temperature during transport °C</b>	-40

### Additional information

Maximum DC resistance of conductor pair at 20 °C 81,0 Ω/km (0,5 mm<sup>2</sup>)  
Testing voltage 1 kV AC  
Nominal mutual capacitance 80 nF/km  
Maximum mutual capacitance 150 nF/km  
Nominal inductance (L) 600 μH/km  
Maximum inductance to resistance ratio (L/R) 25 μH/Ω

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Technical information	1x(2+1)x0,5 GY	2x(2+1)x0,5 GY	4x(2+1)x0,5 GY	8x(2+1)x0,5 GY	12x(2+1)x0,5 GY	16x(2+1)x0,5 GY	24x(2+1)x0,5 GY
<b>Product code</b>	<b>1147171</b>	<b>1147172</b>	<b>1147174</b>	<b>1147178</b>	<b>1147182</b>	<b>1147186</b>	<b>1147194</b>
Nominal cable diameter mm	7	10	12	16	19	20	26
Nominal cable weight kg/km	56	120	173	296	413	504	751
Nominal weight of copper kg/km	13	31	58	113	167	220	329
Nominal diameter of conductor mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Nominal Insulation thickness mm	0,4	0,4	0,4	0,4	0,4	0,4	0,4
Nominal thickness of oversheath mm	0,8	0,9	1,0	1,1	1,1	1,0	1,3
<b>Fire load</b>							
Fire load MJ/m	0,638	1,351	1,992	3,469	4,810	5,719	8,876
Fire load kWh/m	0,177	0,375	0,553	0,964	1,336	1,589	2,466
<b>Maximum forces during installation when pulling by</b>							
Max. pulling force by pulling-eye kN	0,0	0,1	0,2	0,4	0,6	0,8	1,2
<b>Minimum bending radii</b>							
Minimum bending radius, handling mm	105	153	173	244	280	306	392
Minimum bending radius, final bending mm	70	102	116	163	187	204	261
<b>Minimum bending radii</b>							
During handling and installation, cable cm	10	15	17	24	28	31	39
In final installation, cable cm	7	10	12	16	19	20	26
<b>DC resistance</b>							
Max. DC resistance of conductor at 20 °C Ω/km	37,4	37,4	37,4	37,4	37,4	37,4	37,4
<b>Electrical values</b>							
Minimum insulation resistance MΩ × km	1000	1000	1000	1000	1000	1000	1000
<b>Environmental information</b>							
The product is a declared item in the Supply Chain Declaration Portal (or short "SCDP") for New Buildings generation 4							Yes
Ulkopuolinen verifointi EN							PEP ecopassport EN
Ympäristösertifikaatti 1 julkaisu EN							EN ympäristö1
Ympäristösertifikaatti 3 julkaisu EN							Yes
Ympäristösertifikaatti 4 julkaisu EN							4
Ympäristösertifikaatti 5 julkaisu EN							5

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STANDARD PACKAGES	1x(2+1)x0,5 GY	2x(2+1)x0,5 GY	4x(2+1)x0,5 GY	8x(2+1)x0,5 GY	12x(2+1)x0,5 GY	16x(2+1)x0,5 GY	24x(2+1)x0,5 GY
Product code	1147171	1147172	1147174	1147178	1147182		1147194
GTIN code	6438176304822	6438176304846	6438176304860	6438176304891	6438176304914		6438176304945
Package	500 K6	500 K8	500 K9	1000 K11	1000 K12		500 K16
Product code	1147171	1147172	1147174	1147178	1147182		1147194
GTIN code	6438176304839	6438176304853	6438176304877	6438176304884	6438176304907		6438176304952
Package	1000 K6	1000 K8	1000 K9	500 K11	500 K12		1000 K16