

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

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

Temperature limits

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

Additional information

Maximum DC resistance of conductor pair at 20 °C 81,0 Ω/km (0,5 mm²)
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
Product code	1147171	1147172	1147174	1147178	1147182	1147186	1147194
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
Fire load							
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
Maximum forces during installation when pulling by							
Max. pulling force by pulling-eye kN	0,0	0,1	0,2	0,4	0,6	0,8	1,2
Minimum bending radii							
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
Minimum bending radii							
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
DC resistance							
Max. DC resistance of conductor at 20 °C Ω/km	37,4	37,4	37,4	37,4	37,4	37,4	37,4
Electrical values							
Minimum insulation resistance MΩ × km	1000	1000	1000	1000	1000	1000	1000

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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