

KJAAM-HF

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. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free and flame-retardant according to CPR-class Dca-s2,d2,a2.

Design

Standards	EN 50288-7
Reaction to fire	Dca-s2,d2,a2; EN 13501-6, EN 50575:2014+A1:2016
Conductor	Circular stranded tinned copper, EN/IEC 60228 class 2
Insulation	Halogen free polyethylene
Pair lay up	Cores are twisted in pairs
Cable lay up	Insulated cores twisted in pairs. Colors in pairs blue and red. Pairs marked with a numbers.
Overall shield	Two aluminium tapes and earthing conductor (tinned copper, between the tapes)
Inner covering	Halogen free filling compound
Separation sheath	Halogen free filling compound
Individual shield	Aluminium tape and earthing conductor
Oversheath	UV-protected halogen-free polyolefin compound

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

**Colour of the
oversheath** Grey

Technical information	1x(2+1)x0,5	2x(2+1)x0,5	4x(2+1)x0,5	8x(2+1)x0,5	12x(2+1)x0,5	24x(2+1)x0,5	48x(2+1)x0,5	8x(2+1)x1,0
Product code	1147251	1147252	1147254	1147258	1147262	1147274	1147279	1147208
Nominal diameter of conductor mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	1,2
Nominal diameter of complete cable mm	7	10	12	16	19	26	36	20
Nominal weight of cable kg/km	56	119	172	295	411	748	1425	491
Nominal cross-sectional area of conductor mm ²	0,5	0,5	0,5	0,5	0,5	0,5	0,5	1
Nominal thickness of insulation mm	0,4	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	1,3	1,7	
Maximum forces during installation when pulling by								
Max. pulling force by pulling-eye kN	0,0	0,1	0,2	0,4	0,6	1,2	2,4	0,8
Minimum bending radii								
Minimum bending radius, handling mm	105	150	180	240	285	390	540	300
Minimum bending radius, final bending mm	70	100	120	160	190	260	360	200
Minimum bending radii								
During handling and installation, cable cm	11	15	18	24	29	39	54	30
In final installation, cable cm	7	10	12	16	19	26	36	20
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	18,2
Electrical values								
Minimum insulation resistance MΩ × km	1000	1000	1000	1000	1000	1000	1000	1000