# 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 disturbancies. 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 ºC 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 thicness 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 |

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