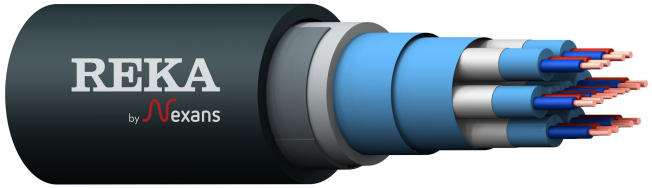
KJAAM-ARM

Instrumentation cable-HF

300 V



Application

Instrumentation cable for fixed installations indoors and outdoors. May be buried directly in soil. Cable gives good protection against rodents and other mechanical stress. 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 flame-retardant according to CPR-class Eca.

Design

Standards	EN 50288-7
Reaction to fire	Eca; 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)
Separation sheath	Extruded polyethylene compound
Individual shield	Aluminium tape and earthing conductor

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)
Maximum DC resistance of conductor pair at 20 ºC 40,3 Ω/km (1,0 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

Oversheath	UV-protected polyolefin compound , Black
Armour	Galvanized steel

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Technical information	4x(2+1)x0,5 BK	8x(2+1)x0,5 BK
Product code	**1147614**	**1147618**
Nominal cable diameter mm	14	19
Nominal cable weight kg/km	291	478
Nominal weight of copper kg/km	58	113
Nominal weight of iron kg/km	87	126
Nominal diameter of conductor mm	0,9	0,9
Nominal Insulation thicness mm	0,4	0,4
Nominal thickness of oversheath mm	1,4	1,5
Fire load		
Fire load MJ/m	3,074	5,267
Fire load kWh/m	0,854	1,463
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	0,2	0,4
Minimum bending radii		
Minimum bending radius, handling mm	203	280
Minimum bending radius, final bending mm	136	187
Minimum bending radii		
During handling and installation, cable cm	20	28
In final installation, cable cm	14	19
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	37,4	37,4
Electrical values		
Minimum insulation resistance MΩ × km	1000	1000

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