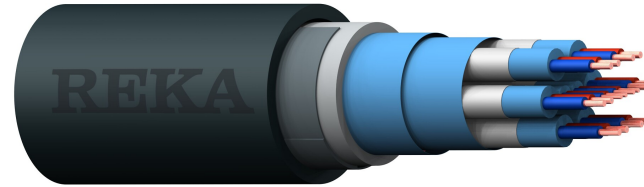


KJAAM-ARM

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 disturbances. 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	Halogen free polyethylene
Cable lay up	Insulated wires 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)
Separation sheath	Inner sheath, Halogen free compound
Individual shield	Aluminium tape and earthing conductor
Armour	Galvanized steel
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



ISO 45001, ISO 14001 and ISO 9001 certified
company REACH and RoHS compliant products

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**Colour of the
oversheath** Black

Technical information	1x(2+1)x0,5	2x(2+1)x0,5	2x(2+1)x0,5 BU	4x(2+1)x0,5	4x(2+1)x0,5 BU	8x(2+1)x0,5	12x(2+1)x0,5	16x(2+1)x0,5	24x(2+1)x0,5	32x(2+1)x0,5
Product code	1147611	1147612	1147613	1147614	1147615	1147618	1147622	1147626	1147634	1147642
Nominal diameter of conductor mm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Nominal diameter of complete cable mm	9	12	12	14	14	19	21	23	28	31
Nominal weight of cable kg/km	141	211	211	291	291	478	592	722	1005	1224
Nominal cross-sectional area of conductor mm ²	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Nominal thickness of insulation mm	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
Nominal thickness of oversheath mm	1,3	1,4	1,4	1,4	1,4	1,5	1,5	1,6	1,7	1,7
Maximum forces during installation when pulling by										
Max. pulling force by pulling-eye kN	0,0	0,1	0,1	0,2	0,2	0,4	0,6	0,8	1,2	3,2
Minimum bending radii										
Minimum bending radius, handling mm	135	180	180	210	210	285	315	345	420	465
Minimum bending radius, final bending mm	90	120	120	140	140	190	210	230	280	310
Minimum bending radii										
During handling and installation, cable cm	14	18	18	21	21	29	32	35	42	47
In final installation, cable cm	9	12	12	14	14	19	21	23	28	31
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	37,4	37,4	37,4
Electrical values										
Minimum insulation resistance MΩ/km	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Technical information	48x(2+1)x0,5	8x(2+1)x1,0
Product code	1147650	1147668
Nominal diameter of conductor mm	0,9	1,2
Nominal diameter of complete cable mm	38	22
Nominal weight of cable kg/km	1703	678
Nominal cross-sectional area of conductor mm ²	0,5	1
Nominal thickness of insulation mm	0,4	0,4
Nominal thickness of oversheath mm	1,8	1,5
Maximum forces during installation when pulling by		
Max. pulling force by pulling-eye kN	2,4	0,8
Minimum bending radii		
Minimum bending radius, handling mm	570	330
Minimum bending radius, final bending mm	380	220
Minimum bending radii		
During handling and installation, cable cm	57	33
In final installation, cable cm	38	22
DC resistance		
Max. DC resistance of conductor at 20 °C Ω/km	37,4	18,2
Electrical values		
Minimum insulation resistance MΩ/km	1000	1000