



## Halogen free individual and collective screened instrumentation cable

<b>CONSTRUCTION</b>	<b>EN 50288-7:2005 Applicable parts</b>	
Conductor:	Circular stranded tinned copper, IEC 60228 class 2	
Insulation:	Halogen free polyolefin	
Pairs:	Cores are twisted in pairs.	
Identification:	Coloured cores in pair: blue, red Sequential numbered polyester film in each pair, except one pair cable	
Individual screen:	Aluminium-mylar tape (IAM) and earthing conductor (tinned copper)	
Cabling:	Pairs are twisted together (concentric layers)	
Collective and EMC screen:	Two aluminium-mylar tapes and earthing conductor (tinned copper between the tapes)	
Inner sheath:	Halogen free filling compound.	
Sheath:	Halogen free and UV-resistant compound. Colour grey.	

### MECHANICAL DETAILS

Minimum bending radii:	During handling and installation	15 x D
	In final installation (D = overall diameter)	10 x D
Maximum pulling forces:	Pulling by the conductor	A x 50 N/mm <sup>2</sup>
	Pulling by pulling-stocking on the outer sheath A= total area of conductors	A x 20 N/mm <sup>2</sup>
Temperature limits:	Max. conductor temperature	70 °C
	Max. conductor temperature during short circuit (duration not exceeding 5 sec.)	160 °C
	Min. temperature during handling and installation	-10 °C
	Min. temperature during transport and operation	-40 °C



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Applications: Instrumentation, process control and audio systems. For fixed installation indoor and outdoor. Not to be laid in soil nor directly in cast concrete. Cable gives excellent protection against electric field. Where needed halogen free, non corrosive gases and low smoke density cables. Self extinguishing, no after burning.

### ELECTRICAL PROPERTIES

Conductor resistance d.c. (20 °C)	37,4 Ω/km
Insulation resistance	2000 MΩ x km
Testing voltage	1 kV a.c.
Mutual capacitance max.	150 nF/km
Capacitance unbalance max.	500 pF/500 m
Inductance to resistance ratio (L/R)	25 μH/Ω

### FIRE PERFORMANCE (CPR)

EN 50575 Dca-s2,d2,a2

### ADDITIONAL INFORMATION

EN/IEC 60754 Halogenfree, non corrosive  
 EN/IEC 61034 Low smoke density  
 EN/IEC 60332-3-23 Self extinguishing and flame retardant even, when the cables are installed in bunches

REKA	Size (N x conductor diameter)	Overall diameter under sheat approx.	Overall diameter approx.	Weight approx.
Code	N x [mm]	mm	mm	kg/km
1147251	1x(2+1)x0,5	4,5	7,5	60
1147252	2x(2+1)x0,5	7,0	11,0	121
1147254	4x(2+1)x0,5	8,0	12,0	175
1147258	8x(2+1)x0,5	12,5	16,5	295
1147262	12x(2+1)x0,5	14,5	20,0	416
1147274	24x(2+1)x0,5	21,5	27,0	749
1147279	48x(2+1)x0,5	32,0	38,0	1430