

RAMCRO - DATA LAN KNX - EIB Cable

For standard applications, flame retardant.

Single Pair, PE-Insulation, Collective Screened, LSZH/FRNC-Sheath

SAM0108HIADH-RB

Application

KNX is a standardised (EN 50090, ISO/IEC 14543), OSI based network communications protocol for intelligent buildings. KNX is the successor to, and convergence of, three previous standard: the European Home Systems Protocol (EHS), BatiBUS, and European Installation Bus (EIB or InstaBUS)

Construction

Formation	1 Pair	Unit	Nominal Value
Section	0,8 mm		
Conductor	Plain annealed copper wire, Solid	mm	0,8
Insulation	Polyethylene - PE	mm	1,4
Colour Code	Black, Red		
Individual Screen	N.A.		
Wrapping	at least 1 layer of plastic tape 0,023 mm		
Collective Screen	0,026 mm Aluminium / PETP tape over tinned copper drain wire		
Inner Sheath	N.A.		
Armour	N.A.		
Outer Sheath	Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Green RAL 6018	mm	5,1
Cable Printing	RAMCRO ITALY R1220 EIB CABLE 2x0.8mm SCREENED LSZH (FRNC) - SAM0108HIADH-RB + "sett.prod/18" + Batch n° + Meter Marking		

Technical Data & Standard References

Fire Propagation:		Type of Cable:	DATA LAN KNX - EIB Cable
- Test on single cable	IEC 60332-1	Low Voltage Directive	2014/35/UE
- Test on bunched cables	IEC 60332-3	Other References:	
Smoke Density	IEC 61034		
Amount of halogen acc. to IEC 60754-1 & EN 50267-1	ZERO		
Acidity (ph value) and conductivity	IEC 60754-2		
Sunlight resistance	UL 1581 section 1200		
Notes			

Electrical & Mechanical Data

Conductor Cross-section	Nom.	0,8 mm	Temperature Range:		
DC Resistance per core at 20° C	max	Ω/km	37	During Operation	° C -30°C up to 80°C
Insulation Resistance at 20° C	min	MΩ*km	5000	During Installation	° C -30°C up to 80°C
Nominal Mutual Capacitance	max	pF/m	100		
Inductance	max	mH/km	1	Min. Bending Radius	mm 8 x cable diameter
Test Voltage - Core/Core	V	2000		Max Pulling Tension	N/mm2 50
Test Voltage - Core/Screen	V	2000		Weight Approx	kg/km 40
Operating Voltage	V	300		Put up length	mt 305

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