

# BUS CABLES

## Bus KNX/EIB IHSTH LSZH

### TECHNICAL FEATURES

Conductor	Solid bare copper wire
Insulation	LSOH. flame retardant
Shield	Aluminium/Polyester 100% coverage
Drain wire	Tinned copper
Sheath material	LSOH. flame retardant. Green (RAL 6018)
Standards	IEC 60332-1 - IEC 60332-3-24 EN 50363-0:2011 - EN 61034-2:2006 EN 60754-1:2005 - EN 60754-2:2015 EN 50090-2-2:2008 CPR UNI EN 13501-6 class Cca
Core colours identification	black, red f yellow, white



cert. no. 377/12801/16

### APPLICATION

BUS cable. shielded. suitable for KNX/EIB (European Installation Bus) Building Management Systems (BMS)

KNX systems, formerly known as EIB, allow the operation and control of heating, lighting and air condition among others. based on a twisted pair cable design and available in 1 or 2 pair.

### SPECIAL FEATURES

Flame retardant CEI 20-35 f EN 60332-1  
lead Free CEI 20-52

### REMARKS

Conform to RoHS  
CE acc\_ to EC Low-Voltage Directive 73/23/EEC and 93/68/EEC  
Standard pul up: 305 meters drums

### Physical characteristics

number		54951	54950
No_ of pairs	num	1p	2p
Conductor size	mm2	0,50	0,50
Conductor	n_xmm	1x0.80	1x0,80
Drain wire size	mm	0,40	0,40
Drain wire	n_xmm	1x0,40	1x0,40
Nom_ Diameter of copper conductor	mm	0,8	0,8
Insulation material	type	LSOH	LSOH
Nom_ Radial Thickness insulation	mm	0,35	0,30
Shield	Yes/No	Yes	Yes
Individual shield	Yes/No	No	No
Screen (braid)	Yes/No	No	No
Sheath material	type	LSOH	LSOH
Overall diameter of conductor	mm	1,50	1,40
Nom_ Radial shetah thickness	mm	1,00	1,20
Nom_ overall outer diameter	mm	5,2	7,10
Electrical Characteristics			
Max_ DC Resistance conductor at 20°C	Ω/km	36,40	36,17
Max_ DC Resistance shield	Ω/km	78,5	78,5
Max_ Capacitance conductor to oonductor (10kHz)	pF/m	100	100
Max_ Capacitance cond_ to other oond_+shield	pF/m	180	180
Nominal inductance	μH/m	0,7	0,7
Max_ recommended Gurren!at 25°C	Amps	4,0	4,0
Max_ operating voltage	Vrms	300	300
Miscellaneous			
Operating temperature	OC	-25 f +70	-25 f +70
Max_ reccomended pulling tension	N	262	391
Min_ bending radius (install)	mm	51	60
Nominal cable weight	kg/km	35	52