

# 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 / 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 / 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 put up: 305 meters drums

Physical characteristics		ITAL355	ITAL356
ITALCOND part number			
No. of pairs	num	1p	2p
Conductor size	mm <sup>2</sup>	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 sheath 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 conductor (10kHz)	pF/m	100	100
Max. Capacitance cond. to other cond.+shield	pF/m	180	180
Nominal inductance	μH/m	0,7	0,7
Max. recommended Current at 25°C	Amps	4,0	4,0
Max. operating voltage	Vrms	300	300
Miscellaneous			
Operating temperature	°C	-25 / +70	-25 / +70
Max. recommended pulling tension	N	262	391
Min. bending radius (install)	mm	51	60
Nominal cable weight	kg/km	35	52