

# BUS CABLES

## Bus KNX/EIB



### 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
Core colours identification:	black, red / yellow, white

### 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 Directory 73/23/EEC and 73/23/EEC and 93/68/EEC  
Standard put up: 305 meters drums

Physical characteristics			
ITALICAB part number		ITAL355	ITAL356
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	225	210
Nominal inductance	μH/m	0,85	0,85
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