

# Bus cable EIB/KNX



<b>Conductor material:</b>	copper, bare
<b>Conductor class:</b>	class 1 = solid
<b>Insulation:</b>	PVC TI1
<b>Stranding unit:</b>	pair
<b>Stranding:</b>	layers
<b>Screen:</b>	plastic coated aluminium foil + solid copper drain wire
<b>Sheathing material:</b>	PVC YM1
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>Halogen-free:</b>	no
<b>Permitted outer cable temperature, fixed:</b>	-30 - +70 °C
<b>Specific inductivity:</b>	0,68 mH/km
<b>Maximum operating capacity:</b>	100 nF/km
<b>Loop resistance:</b>	73,2 Ohm/km
<b>peak operating voltage:</b>	300 V
<b>Test voltage:</b>	4 kV
<b>Core identification:</b>	colours acc. to VDE 0815

**Application:** Due to the increased test voltage and the special marking the cable is designed as bus cable in the EIB/KNX facility control system according to EN 50090. For the Instabus itself is used only the red/black pair (transmission of 24 V supply voltage plus data packages), the second pair (white/yellow) is redundant. The cable may be installed on or under plaster, in ducts and installation channels in dry or wet rooms.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics FABER® EIB

p/n	part name	D <sub>I</sub> [mm]	D <sub>A</sub> [mm]	Cu [kg/km]	G [kg/km]
101010	FABER® EIB-Busleitung 02X2X0,8 GN	0,8	6,3	21	55
101011	FABER® EIB-Busleitung 04X2X0,8 GN	0,8	8,8	41	92

DI	Conductor diameter
DA	Outer diameter approx.
Cu	Copper weight (GER)
G	weight