

REMOTE BUS CABLES

IBS 612 PVC Interbus-S cable
for indoor and outdoor installation
IBS 614 PVC Interbus-S cable

IBS 617 PVC Interbus-S cable with UL recognition
S IBS 616 PUR Interbus-S cable for cable tracks



Marking for S IBS 616 06163251:
SAB BRÖCKSKES · D-VIERSEN · S IBS 616 3 x 2 x 0,25 mm² CE

The Interbus-S communication cable 3 x 2 x 0.22 mm² is supposed to be applied as data cable in the sensor/actor level of industrial communication.

item no.	type	no. of pairs	AWG	nominal outer- ϕ inch	mm	cable weight \approx lbs/ft
▶ 06123228	IBS 612	3	24 (\approx 14/34)	0.354	9.0	64
▶ 06173221	IBS 617	3	24 (\approx 14/34)	0.276	7.0	40
▶ 06143221	IBS 614	3	24 (\approx 14/34)	0.272	6.9	38
▶ 06163251	S IBS 616	3	24 (\approx 14/34)	0.291	7.4*	43

* max. 8.0 mm

Other dimensions and colors are possible on request.

General construction:

Conductor:	bare copper strands with reference to DIN VDE 0812
Insulation:	PE, 2Y11 acc. to DIN VDE 0207 part 2
Color code:	acc. to DIN VDE 47100
Stranding:	twisted to pairs
Screen:	tinned copper braiding

Technical data:

Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	7.5 x O.D.
Characteristic impedance at 0.064 MHz:	120 Ω \pm 20%
Characteristic impedance > 1 MHz:	100 Ω \pm 15 Ω
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

	IBS 612	IBS 617	IBS 614	S IBS 616*
▶ Wrapping:	PETP foil	PETP foil	PETP foil	non-woven tape
▶ Outer jacket:	PVC acc. to DIN VDE 0281 part 1 color: black	PVC, YÖ acc. to DIN VDE 0281 part 1 color: purple	PVC, YM1 acc. to DIN VDE 0281 part 1 color: purple	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface color: purple
▶ Voltage acc. to UL:	–	300 V	–	–
▶ Radiation resistance:	8 x 10 ⁷ cJ/kg	8 x 10 ⁷ cJ/kg	8 x 10 ⁷ cJ/kg	5 x 10 ⁷ cJ/kg
▶ Temperature range <i>static:</i> <i>flexing:</i>	-30/+70°C -5/+70°C	UL: up to +80°C -30/+70°C -5/+70°C	-30/+70°C -5/+70°C	-40/+70°C -40/+70°C
▶ Zero halogen:	–	–	–	acc. to DIN VDE 0472 part 815 + IEC60754-1
▶ Burning characteristics: flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	X	X	X	–
▶ Corrosivity: in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	–	–	–	X
▶ Oil resistance:	acc. to internal standard	very good - acc. to DIN VDE 0207 part 5	acc. to internal standard	very good - TMPU acc. to DIN VDE 0282 part 10
▶ Flexibility:	good	good	good	very good
▶ Application in cable tracks:	not recommended	not recommended	not recommended	recommended
▶ Weather resistance:	medium	medium	medium	very good
▶ Bending characteristics: number of bends acc. to. DIN VDE 0472 part 603 test method H	–	–	–	min. 1.000.000 single bendings
▶ Direct burial:	X	–	–	–
▶ UL Style:	–	2464-80°C	–	–

* Interbus-S remote bus cables 3 x 2 x 0.22 mm² or 3 x 2 x 0.25 mm² are used for the sensor/actuator level of industrial communication

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