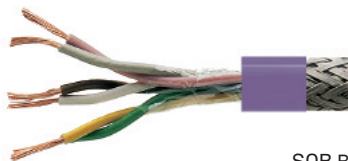


# REMOTE BUS CABLES

**IBS 612** PVC Interbus-S cable for indoor and outdoor installation  
**IBS 617** PVC Interbus-S cable with UL recognition

**S IBS 618** PUR Interbus-S cable for cable tracks with UL recognition  
**S IBS 616** PUR Interbus-S cable for cable tracks



BRÖCKSKES · D-VIERSEN · S IBS 616 3 x 2 x 0.25

Marking for S IBS 616 06163251:  
 SAB BRÖCKSKES · D-VIERSEN · S IBS 616 3 x 2 x 0.25 mm<sup>2</sup> CE

The Interbus-S communication cable 3 x 2 x 0.22 mm<sup>2</sup> 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- $\phi$ inch	mm	cable weight $\approx$ lbs/mft
▶ 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
▶ 06183251	S IBS 618	3	24 ( $\approx$ 16/32)	0.335	8.5	55
▶ 06163251	S IBS 616	3	24 ( $\approx$ 14/34)	0.291	7.4	43

Other dimensions and colors are possible on request.

## General construction:

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

## Technical data:

<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>Characteristic impedance at 0.064 MHz:</b>	120 $\Omega$ $\pm$ 20%
<b>Characteristic impedance &gt; 1 MHz:</b>	100 $\Omega$ $\pm$ 15 $\Omega$
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

	06123228	06173221	06183251*	06163251*
<b>▶ Wrapping:</b>	PETP foil	PETP foil	non-woven tape	non-woven tape
<b>▶ Jacket material:</b>	PVC acc. to DIN VDE 0281 part 1 color: black	PVC, YÖ acc. to DIN VDE 0281 part 1 color: purple	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface color: purple	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface color: purple
<b>▶ Voltage acc. to UL:</b>	–	300 V	300 V	–
<b>▶ Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	8 x 10 <sup>7</sup> cJ/kg	5 x 10 <sup>7</sup> cJ/kg	5 x 10 <sup>7</sup> cJ/kg
<b>▶ Temperature range</b> <i>static:</i> <i>flexing:</i>	-30/+70°C -5/+70°C	<b>UL:</b> up to +80°C -30/+70°C -5/+70°C	<b>UL:</b> up to +80°C -40/+70°C -40/+70°C	-40/+70°C -40/+70°C
<b>▶ Zero halogen:</b>	–	–	acc. to DIN VDE 0472 part 815 + IEC60754-1	acc. to DIN VDE 0472 part 815 + IEC60754-1
<b>▶ Burning characteristics:</b> flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	X	X	X	–
<b>▶ Corrosivity:</b> in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	–	–	X	–
<b>▶ Oil resistance:</b>	acc. to internal standard	very good - acc. to DIN VDE 0207 part 5	very good - TMPU acc. to DIN VDE 0282 part 10	very good - TMPU acc. to DIN VDE 0282 part 10
<b>▶ Flexibility:</b>	good	good	very good	very good
<b>▶ Application in cable tracks:</b>	not recommended	not recommended	recommended	recommended
<b>▶ Weather resistance:</b>	medium	medium	very good	very good
<b>▶ Bending characteristics:</b> number of bends acc. to DIN VDE 0472 part 603 test method H	–	–	min. 1,000,000 single bendings	min. 1,000,000 single bendings
<b>▶ Direct burial:</b>	X	–	–	–
<b>▶ UL Style:</b>	–	2464-80°C	20235-80°C	–

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

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