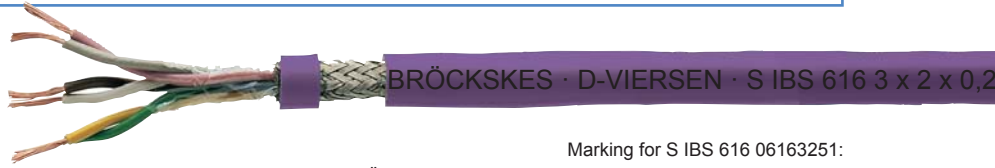


# REMOTE BUS CABLES

**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 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- inch	mm	cable weight ≈ lbs/ft
▶ 06123228	IBS 612	3	24 (≈ 14/34)	0.354	9.0	64
▶ 06173221	IBS 617	3	24 (≈ 14/34)	0.276	7.0	40
▶ 06143221	IBS 614	3	24 (≈ 14/34)	0.272	6.9	38
▶ 06163251	S IBS 616	3	24 (≈ 14/34)	0.291	7.4*	43

\* max. 8.0 mm

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 Ω ± 20%
<b>Characteristic impedance &gt; 1 MHz:</b>	100 Ω ± 15 Ω
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

	IBS 612	IBS 617	IBS 614	S IBS 616*
▶ <b>Wrapping:</b>	PETP foil	PETP foil	PETP foil	non-woven tape
▶ <b>Outer jacket:</b>	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
▶ <b>Voltage acc. to UL:</b>	–	300 V	–	–
▶ <b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	8 x 10 <sup>7</sup> cJ/kg	8 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	-30/+70°C -5/+70°C	-40/+70°C -40/+70°C
▶ <b>Zero halogen:</b>	–	–	–	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	acc. to internal standard	very good - TMPU acc. to DIN VDE 0282 part 10
▶ <b>Flexibility:</b>	good	good	good	very good
▶ <b>Application in cable tracks:</b>	not recommended	not recommended	not recommended	recommended
▶ <b>Weather resistance:</b>	medium	medium	medium	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
▶ <b>Direct burial:</b>	X	–	–	–
▶ <b>UL Style:</b>	–	2464-80°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