

# INSTALLATION 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 IBS 612 06126228:  
SAB BRÖCKSKES · D-VIERSEN · IBS 612 3 x 2 x 0,22 mm² + 3 x 1,0 mm² CE

## General construction:

<b>Insulation:</b>	PE, 2Y11 acc. to DIN VDE 0207 part 2
<b>Colour code:</b>	acc. to DIN VDE 47100 (pairs), 1,0 mm²: red, blue and green-yellow earth wire
<b>Stranding:</b>	twisted to pairs (≤ 0,25 mm²)
<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 d
<b>Characteristic impedance at 0.064 MHz:</b>	120 Ω ± 20%
<b>Characteristic impedance at &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/17

	IBS 612	IBS 617	IBS 614	S IBS 616*
<b>Conductor:</b>	0.22 mm²: bare copper strands with reference to DIN VDE 0812 + 1.00 mm²: bare copper strands acc. to IEC 60228, EN 60228 VDE 0295, class 5	0.22 mm²: bare copper strands with reference to DIN VDE 0812 + 1.00 mm²: bare copper strands acc. to IEC 60228, EN 60228 VDE 0295, class 5	0.22 mm²: bare copper strands with reference to DIN VDE 0812 + 1.00 mm²: bare copper strands acc. to IEC 60228, EN 60228 VDE 0295, class 5	0.25 mm²: bare copper strands with reference to DIN VDE 0812 + 1.00 mm²: bare copper strands acc. to IEC 60228, EN 60228 VDE 0295, class 6
<b>Wrapping:</b>	PETP foil	PETP foil	PETP foil	non-woven tape
<b>Sheath material:</b>	PVC acc. to DIN VDE 0281 part 1 colour: black (RAL 9005)	PVC, YÖ acc. to DIN VDE 0281 part 1 colour: redlilac (RAL 4001)	PVC, TM1 acc. to DIN VDE 0281 part 1 colour: redlilac (RAL 4001)	PUR, TMPU acc. to DIN VDE 0282 part 10 with rough surface colour: redlilac (RAL 4001)
<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>fixed laying:</i> <i>flexible application:</i>	-30/+70°C -5/+70°C	<b>UL: up to +80°C</b> -30/+70°C -5/+70°C	-30/+70°C -5/+70°C	-40/+70°C -40/+70°C
<b>Halogen-free:</b>	–	–	–	acc. to DIN VDE 0472 part 815 + IEC60754-1
<b>Fire performance:</b> flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2	X	X	X	–
<b>Oil resistance:</b>	acc. to internal standard see page N/15	very good - acc. to DIN VDE 0207 part 5	acc. to internal standard see page N/15	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 bendings acc. to DIN VDE 0472 part 603 test methode H	–	–	–	min. 1.000.000 single bendings
<b>Direct burial:</b>	X	–	–	–
<b>UL Style:</b>	–	2464-80°C	–	–

\* Interbus-S installation remote bus cables 3 x 2 x 0.22 mm² + 3 x 1,0 mm² or 3 x 2 x 0.25 mm² + 3 x 1,0 mm² are used for the sensor/actuator level of industrial communication

item no.	type	no. of pairs/cores x cross section mm²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈kg/km
06126228	IBS 612	3 x 2 x 0,22 + 3 x 1,00	10,0	62,0	132
06176221	IBS 617	3 x 2 x 0,22 + 3 x 1,00	9,0	64,5	106
06146221	IBS 614	3 x 2 x 0,22 + 3 x 1,00	7,9	62,0	90
06166251	S IBS 616	3 x 2 x 0,25 + 3 x 1,00	8,0	70,8	101

Other dimensions and colours are possible on request.