

# Remote Bus Cables

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

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

**IBS 617** PVC Interbus-S cable with UL recognition

**S IBS 616** PUR Interbus-S cable for cable tracks



4AWG/3pr AWM Style 2464 80°C 300V CE



Marking for IBS 617 6173221:

SAB BRÖCKSKES · D-VIERSEN · 6173221 3x2x0.25mm<sup>2</sup> IBS 617 24AWG/3pr AWM Style 2464 80°C 300V CE

<b>Construction:</b>	<b>IBS 612</b> <i>for indoor &amp; outdoor</i>	<b>IBS 617</b>	<b>S IBS 618*</b> <i>suitable for cable tracks</i>	<b>S IBS 616*</b> <i>suitable for cable tracks</i>
<b>Item numbers:</b>	6123228	6173221	6183251	6163251
<b>Dimensions:</b>	3 x 2 x 0.22 mm <sup>2</sup>	3 x 2 x 0.22 mm <sup>2</sup>	3 x 2 x 0.25 mm <sup>2</sup>	3 x 2 x 0.25 mm <sup>2</sup>
<b>Conductor:</b>	bare copper strands with reference to VDE 0812	bare copper strands with reference to VDE 0812	bare copper strands with reference to VDE 0812	bare copper strands with reference to VDE 0812
<b>Insulation:</b>	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103
<b>Color code:</b>	acc. to DIN 47100	acc. to DIN 47100	acc. to DIN 47100	acc. to DIN 47100
<b>Stranding:</b>	twisted to pairs	twisted to pairs	twisted to pairs and pairs together	twisted to pairs
<b>Wrapping:</b>	PETP foil	PETP foil	non-woven tape	non-woven tape
<b>Shielding:</b>	tinned copper braiding	tinned copper braiding	tinned copper braiding	tinned copper braiding
<b>Jacket material:</b>	PVC, TM2 acc. to EN 50363-4-1	PVC, TM5 acc. to EN 50363-4-1	PUR	PUR, TMPU acc. to EN 50363-10-2 with rough surface
<b>Jacket color:</b>	black (RAL 9005)	red lilac (RAL 4001)	red lilac (RAL 4001)	red lilac (RAL 4001)

<b>Technical data:</b>	<b>IBS 612</b> <i>for indoor &amp; outdoor</i>	<b>IBS 617</b>	<b>S IBS 618</b> <i>suitable for cable tracks</i>	<b>S IBS 616</b> <i>suitable for cable tracks</i>
<b>Peak operating voltage:</b>	max. 350 V	max. 350 V	max. 350 V	max. 350 V
<b>Voltage UL:</b>	—	300 V	300 V	—
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	1000 V 1000 V	2000 V 2000 V	2000 V 2000 V	1000 V 1000 V
<b>Min. bending radius:</b>	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.
<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> static: flexible:	-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>Halogen-free:</b>	—	—	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2			
<b>Oil resistance:</b>	acc. to internal standard see page O/29	very good acc. to VDE 0207-5	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Characteristic impedance at 0.064 MHz:</b>	120Ω ± 20%	120Ω ± 20%	120Ω ± 20%	120Ω ± 20%
<b>Characteristic impedance at &gt; 1 MHz:</b>	100Ω ± 15Ω	100Ω ± 15Ω	100Ω ± 15Ω	100Ω ± 15Ω
<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> # of bendings acc. to VDE 0472-603 test method H	—	—	min. 1,000,000 single bendings	min. 1,000,000 single bendings
<b>Direct burial:</b>	suitable	not suitable	suitable	not suitable
<b>UL Style:</b>	—	2464- 80°C	20235- 80°C	—
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page O/30			

item no.	type	jacket color	dimensions AWG	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 6123228	IBS 612	black (RAL 9005)	24 (≈ 14/34)/3pr	0.354	9.0	64
▶ 6173221	IBS 617	red lilac (RAL 4001)	24 (≈ 14/34)/3pr	0.276	7.0	40
▶ 6183251*	S IBS 618	red lilac (RAL 4001)	24 (≈ 14/34)/3pr	0.335	8.5	55
▶ 6163251*	S IBS 616	red lilac (RAL 4001)	24 (≈ 14/34)/3pr	0.315	8.0	43

Other dimensions and colors are available on request

\* 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

