

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



Marking for IBS 617 6173221:

SAB BRÖCKSKES · D-VIERSEN · 6173221 3x2x0.25mm² IBS 617 24AWG/3pr AWM Style 2464 80°C 300V CE

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

Technical data:	IBS 612 <i>for indoor & outdoor</i>	IBS 617	S IBS 618 <i>suitable for cable tracks</i>	S IBS 616 <i>suitable for cable tracks</i>
Peak operating voltage:	max. 350 V	max. 350 V	max. 350 V	max. 350 V
Voltage UL:	—	300 V	300 V	—
Testing voltage: conductor/conductor: conductor/shielding:	1000 V 1000 V	2000 V 2000 V	2000 V 2000 V	1000 V 1000 V
Min. bending radius:	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.	7.5 x O.D.
Radiation resistance:	8 x 10 ⁷ cJ/kg	8 x 10 ⁷ cJ/kg	5 x 10 ⁷ cJ/kg	5 x 10 ⁷ cJ/kg
Temperature range: static: flexible:	-30/+70°C -5/+70°C	UL: up to +80°C -30/+70°C -5/+70°C	UL: up to +80°C -40/+70°C -40/+70°C	-40/+70°C -40/+70°C
Halogen-free:	—	—	acc. to IEC 60754-1 + VDE 0482-754-1	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2			
Oil resistance:	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
Characteristic impedance at 0.064 MHz:	120Ω ± 20%	120Ω ± 20%	120Ω ± 20%	120Ω ± 20%
Characteristic impedance at > 1 MHz:	100Ω ± 15Ω	100Ω ± 15Ω	100Ω ± 15Ω	100Ω ± 15Ω
Flexibility:	good	good	very good	very good
Application in cable tracks:	not recommended	not recommended	recommended	recommended
Weather resistance:	medium	medium	very good	very good
Bending characteristics: # of bendings acc. to VDE 0472-603 test method H	—	—	min. 1,000,000 single bendings	min. 1,000,000 single bendings
Direct burial:	suitable	not suitable	suitable	not suitable
UL Style:	—	2464- 80°C	20235- 80°C	—
Absence of harmful substances:	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 mm² or 3 x 2 x 0.25 mm² are used for the sensor/actuator level of industrial communication

