

Installation Remote BUS Cables



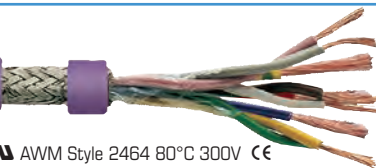
IBS 612 PVC Interbus-S cable for indoor and outdoor installation

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

3x1,0mm² AWM Style 2464 80°C 300V



Marking for IBS 617 6176221:

SAB BRÖCKSKES · D-VIERSEN · IBS 617 3x2x0.22mm²+3x1.0mm² AWM Style 2464 80°C 300V

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:	6126228	6176221	6186251	6166251
Dimensions:	3 x 2 x 0.22 mm ² + 3 x 1.00 mm ²	3 x 2 x 0.22 mm ² + 3 x 1.00 mm ²	3 x 2 x 0.25 mm ² + 3 x 1.00 mm ²	3 x 2 x 0.25 mm ² + 3 x 1.00 mm ²
Conductor: 3 x 2 x 0.22 mm ² resp. 3 x 2 x 0.25 mm ²	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
Conductor: 3 x 1.00 mm ² :	bare copper strands acc. to IEC 60228, VDE 0295, class 5		bare copper strands acc. to IEC 60228, VDE 0295, class 6	
Insulation:	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103		0.25 mm ² : PE, 2Y11 1.00 mm ² : TPE	PE, 2Y11 acc. to EN 50290- 2-23 + VDE 0819-103
Color code:	acc. to DIN 47100 (pairs), 1.0 mm ² : red, blue and green/yellow ground		acc. to DIN 47100 (pairs), 1.0 mm ² : red, blue and green/yellow ground	
Stranding:	twisted to pairs (≤ 24 AWG)	twisted to pairs (≤ 24 AWG)	twisted to pairs (≤ 24 AWG) pairs & conductors together	twisted to pairs (≤ 24 AWG)
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 with rough surface	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:	1500 V 1200 V	2000 V 2000 V	2000 V 2000 V	1500 V 1200 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	no. of pairs	power conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 6126228	IBS 612	black (RAL 9005)	24 (≈ 14/34)/3pr	18 (≈ 30/32)/3c	0.394	10.0	89
▶ 6176221	IBS 617	red lilac (RAL 4001)	24 (≈ 14/34)/3pr	18 (≈ 30/32)/3c	0.354	9.0	71
▶ 6186251*	S IBS 618	red lilac (RAL 4001)	24 (≈ 14/34)/3pr	18 (≈ 56/34)/3c	0.362	9.2	81
▶ 6166251*	S IBS 616	red lilac (RAL 4001)	24 (≈ 14/34)/3pr	18 (≈ 56/34)/3c	0.315	8.0	68

Other dimensions and colors are available on request

* 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

