

Installation Remote Bus Cables



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

SABIX® IBS 610 halogen-free Interbus-S cable

SABIX® IBS 610 FRNC halogen-free, flame retardant Interbus-S cable



Marking for S IBS 618 06186251:

SAB BRÜCKSKES · D-VIERSEN · 06186251 3x2x0,25mm²+3x1,0mm² S IBS 618 24AWG/3pr+18AWG/3c AWM Style 20235 80°C voltage not specified CE



Construction:	S IBS 618*	SABIX® IBS 610	SABIX® IBS 610 FRNC
Dimensions:	3 x 2 x 0,25 mm ² + 3 x 1,00 mm ²	3 x 2 x 0,22 mm ² + 3 x 1,00 mm ²	
Conductor:	0,22 mm ² resp. 0,25 mm ² : bare copper strands with reference to VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, VDE 0295, class 6		
Insulation:	0,25 mm ² : PE, 2Y11 1,00 mm ² : TPE	SABIX®	
Colour code:	acc. to DIN 47100 (pairs), 1,0 mm ² : red, blue and green-yellow earth wire		
Stranding:	twisted to pairs (≤ 0,25 mm ²) pairs and cores together		
Wrapping:	non-woven tape	PETP foil	
Screen:	tinned copper braiding		
Sheath material:	PUR with rough surface	SABIX®	
Sheath colour:	redlilac (RAL 4001)		

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Technical data:	S IBS 618*	SABIX® IBS 610	SABIX® IBS 610 FRNC
Item numbers:	0618-6251		6610-6221
Peak operating voltage:		max. 350 V	
Voltage UL:	300 V	---	
Testing voltage			
core/core:	2000 V	1500 V	
core/screen:	2000 V	1500 V	
Min. bending radius:		7,5 x d	
Radiation resistance:	5 x 10 ⁷ cJ/kg	5 x 10 ⁶ cJ/kg	---
Temperature range	UL: up to +80 °C		
fixed laying:	-40/+70 °C	-50/+90 °C	-40/+85 °C
flexible application:	-40/+70 °C	-40/+90 °C	-30/+85 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1		
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	---	no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D, see chapter N „Technical Data“. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosiveness of conflagration gases:	---	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	
Smoke density:	---		acc. to IEC 61034 + VDE 0482-1034
Oil resistance:	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2	very good acc. to EN 50363-4-1	---
Characteristic impedance at 0.064 MHz:	120 Ω ± 20%		
Characteristic impedance at > 1 MHz:	100 Ω ± 15 Ω		
Flexibility:	very good		good
Application in cable tracks:	recommended	not recommended	
Weather resistance:	very good	good	
Bending characteristics:			
number of bendings acc. to VDE 0472-603 test methode H	min. 1.000.000 single bendings	---	
Direct burial:	X	---	
UL Style:	20235	---	
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical Data“		

item no.	type	no. of pairs/cores mm ² each conductor	outer-ø ± 5%	copper figure kg/km	cable weight ≈kg/km
06186251	S IBS 618	3 x 2 x 0,25 + 3 x 1,00	9,2	71,0	121
56106221	SABIX® IBS 610	3 x 2 x 0,22 + 3 x 1,00	7,9*	62,0	84
66106221	SABIX® IBS 610 FRNC	3 x 2 x 0,22 + 3 x 1,00	7,9*	62,0	94

* 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

Other dimensions and colours are possible on request.

