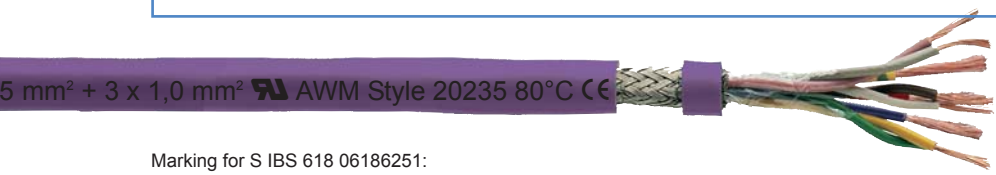
RoHS

S IBS 618 PUR Interbus-S cable for cable tracks 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 BRÖCKSKES · D-VIERSEN · S IBS 618 3 x 2 x 0,25 mm² + 3 x 1,0 mm² AWM Style 20235 80°C CE

The Interbus-S communication cable 3 x 2 x 0.22 mm² + 3 x 1.0 mm² is supposed to be applied as data cable in the sensor/actor level of industrial communication where the power supply for the Bus logic of the subsequent participants is carried with.

item no.	type	no. of pairs	no. of power conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► 06186251	S IBS 618	24 AWG (≈ 14/34)/3pr	18 AWG (≈ 56/34)/3c	0.335	9.2	81
► 56106221	SABIX® IBS 610	24 AWG (≈ 14/34)/3pr	18 AWG (≈ 30/32)/3c	0.276	7.9*	56
► 66106221	SABIX® IBS 610 FRNC	24 AWG (≈ 14/34)/3pr	18 AWG (≈ 30/32)/3c	0.276	7.9*	63

* max. 8.0 mm

Other dimensions and colors are possible on request.

General construction:

Color code:	acc. to DIN VDE 47100 (pairs), 18 AWG: red, blue and green-yellow earth wire
Stranding:	twisted to pairs (≤ 24 AWG)
Screen:	tinned copper braiding

Technical data:

Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	7.5 x O.D.
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Characteristic impedance at 0.064 MHz:	120 Ω ± 20%
Characteristic impedance > 1 MHz:	100 Ω ± 15 Ω
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

	S IBS 618*	SABIX® IBS 610	SABIX® IBS 610 FRNC
➤ **Conductor:**	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	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
➤ **Insulation:**	PE, 2YI1 acc. to DIN VDE 0207 part 2	SABIX® 336	SABIX® 336
➤ **Wrapping:**	non-woven tape	PETP foil	PETP foil
➤ **Outer jacket (purple):**	PUR,TMPU acc. to DIN VDE 0282 part 10, with rough surface	SABIX® 322	SABIX® 230
➤ **Voltage acc. to UL:**	300 V	–	–
➤ **Radiation resistance:**	5 x 10^7 cJ/kg	5 x 10^6 cJ/kg	–
➤ **Temperature range** *static:* *flexing:*	**UL:** up to +80°C -40/+70°C -40/+70°C	 -50/+90°C -40/+90°C	 -40/+85°C -30/+85°C
➤ **Zero halogen:**	acc. to DIN VDE 0472 part 815 and IEC 60754-1	acc. to DIN VDE 0472 part 815 and IEC 60754-1	acc. to DIN VDE 0472 part 815 and IEC 60754-1
➤ **Burning characteristics:** no flame propagation acc. to IEC 60332-3 + EN 60332-3 Cat. C resp. D	–	–	X
➤ **Burning characteristics:** flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	X	–	X
➤ **Corrosivity:** in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	X	X	X
➤ **Smoke density:**	–	low	acc. toIEC 61034 and EN 61034
➤ **Oil resistance:**	very good - TMPU acc. to DIN VDE 0282 part 10	very good - TM5 acc. to DIN VDE 0281 part 1	–
➤ **Flexibility:**	very good	very good	good
➤ **Application in cable tracks:**	recommended	not recommended	not recommended
➤ **Weather resistance:**	very good	good	good
➤ **Bending characteristics:** number of bends acc. to. DIN VDE 0472 part 603 test method H	min. 1.000.000 single bendings	–	–
➤ **UL Style:**	20235-80°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

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