Profibus-DP cables

PB 640 flexible PVC Profibus-DP cable

S PB 640 highly flexible PUR Profibus-DP cable

PB 640 UL flexible PVC Profibus-DP with UL recognition

S PB 640 UL highly flexible PUR Profibus-DP cable with UL recognition, CSA approval

with „Fast Connect" construction

SAB Bus



RoHS PFAS FREE

marking example:

SAB BRÖCKSKES · D-VIERSEN · S PB 640 UL 24 AWG/2c 06402611 AWM Style 21198 80°C 300V CSA AWM I/II A/B 80°C 300V FT2

Construction:	PB 640	PB 640 UL	S PB 640	S PB 640 UL
Dimension:	2 x AWG 24			
Conductor:	bare copper strands AWG 24			
Insulation:	acc. to EN 50290-2-23 + VDE 0819-103 (02YI1)			
Colour code:	red, green			
Stranding:	in layers			
Inner sheath (nature):	PVC		SABIX®	
Screen:	alu foil and tinned copper braiding			
Sheath material:	PVC, TM2 acc. to EN 50363-4-1		PUR, TMPU acc. to EN 50363-10-2 with mat surface	
Sheath colour:	redlilacc (RAL 4001)			

Technical data:	PB 640	PB 640 UL	S PB 640	S PB 640 UL
Item number:	0640-2421	0640-2631	0640-2601	0640-2611
Peak operating voltage:	max. 350 V			
Voltage UL:	–	300 V	–	300 V
Voltage CSA:		–		300 V
Testing voltage *core/core:* *core/screen:*	 1500 V 1200 V	 2000 V 2000 V	 1500 V 1200 V	 2000 V 2000 V
Min. bending radius *fixed laying:* *flexible application:* *continuously flexible:*	12 x d		 5 x d 10 x d 15 x d	
Temperature range *fixed laying:* *flexible application:*	 -30/+70 °C -5/+70 °C	UL: up to +80 °C -30/+70 °C -5/+70 °C	 -40/+80 °C -30/+80 °C	UL/CSA: up to +80 °C -40/+80 °C -30/+80 °C
Halogen-free:	–		acc. to IEC 60754-1 + VDE 0482-754-1	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332 + VDE 0482-332-1-2			
Oil resistance:	acc. to internal standard, see chapter N „Technical data"		very good EN 50363-10-2 + VDE 0207-363-10-2	
Characteristic impedance 3 - 20 MHz:	150 Ω ± 10%			
For fixed installation:	suitable			
For flexible application:	suitable			
Application in cable tracks:	not recommended		recommended	
UL Style:	–	2464	–	21198
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data"			

Outstanding features:

- short assembling time
- avoidance of connection errors
- PFAS free

item no.	type	dimension	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
06402421	PB 640	2 x 24 AWG	8,0	31,2	63
06402631	PB 640 UL	2 x 24 AWG	8,0	31,2	62
06402601	S PB 640	2 x 24 AWG	8,0	31,2	57
06402611	S PB 640 UL	2 x 24 AWG	8,0	31,2	62

Other dimensions and colours are possible on request.

Profibus-DP and **Profibus-FMS** apply the same transmission technology and a uniform bus access log. Therefore, both types can be used simultaneously on one cable.