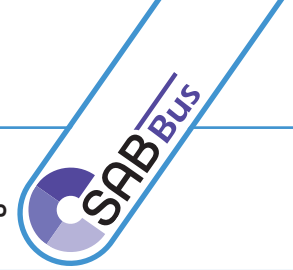


# Profibus-DP Cables



**PB 640** Flexible PVC Profibus-DP cable  
**PB 640 UL** Flexible PVC Profibus-DP cable with UL recognition

**S PB 640** Continuous flex PUR Profibus-DP cable  
**S PB 640 UL** Continuous flex PUR Profibus-DP cable with UL recognition



Marking for S PB 640 UL 6402611:  
 SAB BRÖCKSKES · D-VIERSEN · S PB 640 UL 24AWG/2c 6402611 AWM Style 21198 80°C 300V CE

<b>Construction:</b>	<b>PB 640</b> <i>for flexible applications</i>	<b>PB 640 UL</b> <i>for flexible applications</i>	<b>S PB 640</b> <i>continuous flex</i>	<b>S PB 640 UL</b> <i>continuous flex</i>
Item numbers:	6402421	6402631	6402601	6402611
Dimensions:	2 x 24 AWG	2 x 24 AWG	2 x 24 AWG	2 x 24 AWG
Conductor:	bare copper strands 24 AWG		bare copper strands 24 AWG	
Insulation:	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)
Color code:	red, green	red, green	red, green	red, green
Stranding:	in layers	in layers	in layers	in layers
Inner jacket (natural):	PVC	PVC	SABIX®	SABIX®
Shielding:	alu foil + tinned copper braiding		alu foil + tinned copper braiding	
Jacket material:	PVC, TM2 acc. to EN 50363-4-1		PUR, TMPU acc. to EN 50363-10-2 with matte surface	
Jacket color:	red lilac (RAL 4001)	red lilac (RAL 4001)	red lilac (RAL 4001)	red lilac (RAL 4001)

<b>Technical data:</b>	<b>PB 640</b> <i>for flexible applications</i>	<b>PB 640 UL</b> <i>for flexible applications</i>	<b>S PB 640</b> <i>continuous flex</i>	<b>S PB 640 UL</b> <i>continuous flex</i>
Peak operating voltage:	max. 350 V	max. 350 V	max. 350 V	max. 350 V
Voltage UL:	—	300 V	—	300 V
Voltage CSA:	—	—	—	300 V
Testing voltage: conductor/conductor: conductor/shielding:	1500 V 1500 V	2000 V 2000 V	1500 V 1500 V	2000 V 2000 V
Min. bending radius: fixed installation: flexible application: continuous flex:	12 x O.D.	12 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.	5 x O.D. 10 x O.D. 15 x O.D.
Temperature range: static: flexible:	-30/+70°C -5/+70°C	<b>UL:</b> up to +80°C -30/+70°C -5/+70°C	-40/+80°C -30/+80°C	<b>UL/CSA:</b> up to +80°C -40/+80°C -30/+80°C
Halogen-free:	—	—	acc. to IEC 60754-1 + VDE 0482-754-1	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332 + VDE 0482-332-1-2			
Oil resistance:	acc. to internal standard, see page O/29		very good EN 50363-10-2 + VDE 0207-363-10-2	
Characteristic impedance (3 - 20 MHz):	150 Ω ± 10%	150 Ω ± 10%	150 Ω ± 10%	150 Ω ± 10%
Fixed installation:	suitable	suitable	suitable	suitable
For flexible application:	suitable	suitable	suitable	suitable
Application in cable tracks:	not recommended	not recommended	recommended	recommended
UL Style:	—	2464	—	21198
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30			

item no.	type	no. of conductors	AWG	outer-ø		cable weight ≈ lbs/mft
				inch	mm	
▶ 6402421	PB 640	2	24	0.315 ± 0.016	8.0 ± 0.4	42
▶ 6402631	PB 640 UL	2	24	0.315 ± 0.016	8.0 ± 0.4	42
▶ 6402601	S PB 640	2	24	0.315 ± 0.016	8.0 ± 0.4	38
▶ 6402611	S PB 640 UL	2	24	0.315 ± 0.016	8.0 ± 0.4	42

Other dimensions and colors are available on request

**with "Fast Connect" Construction**

**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.

