

# Profibus-DP Cables acc. to IEC 61158-2



**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 06402611:  
 SAB BRÖCKSKES · D-VIERSEN · S PB 640 UL 24AWG/2c 06402611 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>
<b>Item numbers:</b>	06402421	06402631	06402601	06402611
<b>Dimensions:</b>	2 x 24 AWG	2 x 24 AWG	2 x 24 AWG	2 x 24 AWG
<b>Conductor:</b>	bare copper strands 24 AWG		bare copper strands 24 AWG	
<b>Insulation:</b>	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)
<b>Color code:</b>	red, green	red, green	red, green	red, green
<b>Stranding:</b>	in layers	in layers	in layers	in layers
<b>Inner jacket (nature):</b>	PVC	PVC	SABIX®	SABIX®
<b>Shielding:</b>	alu foil + tinned copper braiding		alu foil + tinned copper braiding	
<b>Jacket material:</b>	PVC, TM2 acc. to EN 50363-4-1		PUR, TPU acc. to EN 50363-10-2 with matte surface	
<b>Jacket color:</b>	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>
<b>Peak operating voltage:</b>	max. 350 V	max. 350 V	max. 350 V	max. 350 V
<b>Voltage UL:</b>	—	300 V	—	300 V
<b>Voltage CSA:</b>	—	—	—	300 V
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	1500 V 1500 V	2000 V 2000 V	1500 V 1500 V	2000 V 2000 V
<b>Min. bending radius:</b> fixed installation: flexible application: continuous flex:	12 x O.D.	12 x O.D.	5 x O.D. 10 x O.D. 12 x O.D.	5 x O.D. 10 x O.D. 12 x O.D.
<b>Temperature range:</b> 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
<b>Halogen-free:</b>	—	—	acc. to IEC 60754-1 + VDE 0482-754-1	
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332 + VDE 0482-332-1-2			
<b>Oil resistance:</b>	acc. to internal standard, see page O/29		very good EN 50363-10-2 + VDE 0207-363-10-2	
<b>Characteristic impedance (3 - 20 MHz):</b>	150 Ω ± 10%	150 Ω ± 10%	150 Ω ± 10%	150 Ω ± 10%
<b>Fixed installation:</b>	suitable	suitable	suitable	suitable
<b>For flexible application:</b>	suitable	suitable	suitable	suitable
<b>Application in cable tracks:</b>	not recommended	not recommended	recommended	recommended
<b>UL Style:</b>	—	2464	—	21198
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page O/30			

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item no.	type	no. of conductors	AWG	nominal outer-ø		cable weight
				inch	mm	≈lbs/mft
▶ 06402421	PB 640	2	24	0.315 ± 0.016	8.0 ± 0.4	42
▶ 06402631	PB 640 UL	2	24	0.315 ± 0.016	8.0 ± 0.4	42
▶ 06402601	S PB 640	2	24	0.315 ± 0.016	8.0 ± 0.4	38
▶ 06402611	S PB 640 UL	2	24	0.315 ± 0.016	8.0 ± 0.4	42

Other dimensions and colors are available 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.

**with "Fast Connect" Construction**

