

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



**PB 642** PVC Profibus-cable (PA)

**S PB 644** Continuous flex PUR Profibus-cable (PA) for cable tracks

BRÖCKSKES · D-VIERSEN · S PB 644 2x0,25mm<sup>2</sup> CE



Marking for S PB 644 6442251:

SAB BRÖCKSKES · D-VIERSEN · S PB 644 2x0.25mm<sup>2</sup> CE

<b>Construction:</b>	<b>PB 642</b> <i>flexible</i>	<b>S PB 644</b> <i>continuous flex</i>
<b>Item numbers:</b>	6422221, 6424221, 6422251, 6424251, 6422767, 6422768	6442251, 6444251
<b>Dimensions:</b>	2 x 0.22 mm <sup>2</sup> , 2 x 2 x 0.22 mm <sup>2</sup> , 2 x .025 mm <sup>2</sup> , 2 x 2 x 0.25 mm <sup>2</sup> , 2 x 0.82 mm <sup>2</sup> , 2 x 0.82 mm <sup>2</sup>	2 x .025 mm <sup>2</sup> , 2 x 2 x 0.25mm <sup>2</sup>
<b>Conductors:</b>	bare copper strands with reference to VDE 0812	bare copper strands, extra fine wires
<b>Insulation:</b>	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103
<b>Color code:</b>	2c: red, green, 2pr: DIN 47100	2c: red, green, 2pr: DIN 47100
<b>Stranding:</b>	in layers	in layers
<b>Wrapping:</b>	PETP foil, non-woven tape	PETP foil, non-woven tape
<b>Shielding:</b>	tinned copper braiding	tinned copper braiding
<b>Jacket material:</b>	PVC, TM2 acc. to EN 50363-4-1	PUR, TMPU acc. to EN 50363-10-2 with rough surface
<b>Jacket color:</b>	see table below	red lilac (RAL 4001)
<b>Technical data:</b>	<b>PB 642</b> <i>flexible</i>	<b>S PB 644</b> <i>continuous flex</i>
<b>Peak operating voltage:</b>	max. 350 V	max. 350 V
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	1500 V 1200 V	1500 V 1200 V
<b>Min. bending radius:</b> continuously flexing:	7.5 x O.D. —	7.5 x O.D. 12 x O.D.
<b>Temperature range:</b> static: flexible:	-30/+70°C -5/+70°C	-40/+70°C -40/+70°C
<b>Oil resistance:</b>	acc. to internal standard, see page O/29	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Characteristic impedance:</b> type B: PA:	at >100 kHz 100 Ω - 130 Ω 100 Ω - 20%	at >100 kHz 100 Ω - 130 Ω 100 Ω - 20%
<b>For fixed installation:</b>	suitable	suitable
<b>For flexible application:</b>	suitable	suitable
<b>Application in cable tracks:</b>	not recommended	recommended
<b>Weather resistance:</b>	medium	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page O/30	

J  
48

item no.	type	jacket color	no. of conductors	AWG	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 6422221	PB 642	red lilac (RAL 4001)	2	24 (≈ 7/32)	0.173	4.4	17
▶ 6424221	PB 642	red lilac (RAL 4001)	2 x 2	24 (≈ 7/32)	0.244	6.2	30
▶ 6422251	PB 642	red lilac (RAL 4001)	2	24 (≈ 14/34)	0.193	4.9	20
▶ 6424251	PB 642	red lilac (RAL 4001)	2 x 2	24 (≈ 14/34)	0.264	6.7	35
▶ 6422767	PB 642 PA	blue (RAL 5015)	2	18 (≈ 26/32)	0.287	7.3	46
▶ 6422768	PB 642 PA	black (RAL 9005)	2	18 (≈ 26/32)	0.287	7.3	46
▶ 6442251	S PB 644	red lilac (RAL 4001)	2	24 (≈ 32/38)	0.205	5.2	22
▶ 6444251	S PB 644	red lilac (RAL 4001)	2 x 2	24 (≈ 32/38)	0.268	6.8	38

Other dimensions and colors are available on request

