

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 2x0.25mm² CE



Marking for S PB 644 6442251:

SAB BRÖCKSKES · D-VIERSEN · S PB 644 2x0.25mm² CE

Construction:	PB 642 <i>flexible</i>	S PB 644 <i>continuous flex</i>
Item numbers:	6422221, 6424221, 6422251, 6424251, 6422767, 6422768	6442251, 6444251
Dimensions:	2 x 0.22 mm ² , 2 x 2 x 0.22 mm ² , 2 x .025 mm ² , 2 x 2 x 0.25 mm ² , 2 x 0.82 mm ² , 2 x 0.82 mm ²	2 x .025 mm ² , 2 x 2 x 0.25mm ²
Conductors:	bare copper strands with reference to VDE 0812	bare copper strands, extra fine wires
Insulation:	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103	PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103
Color code:	2c: red, green, 2pr: DIN 47100	2c: red, green, 2pr: DIN 47100
Stranding:	in layers	in layers
Wrapping:	PETP foil, non-woven tape	PETP foil, non-woven tape
Shielding:	tinned copper braiding	tinned copper braiding
Jacket material:	PVC, TM2 acc. to EN 50363-4-1	PUR, TPU acc. to EN 50363-10-2 with rough surface
Jacket color:	see table below	red lilac (RAL 4001)

Technical data:	PB 642 <i>flexible</i>	S PB 644 <i>continuous flex</i>
Peak operating voltage:	max. 350 V	max. 350 V
Testing voltage: conductor/conductor: conductor/shielding:	1500 V 1200 V	1500 V 1200 V
Min. bending radius: continuously flexing:	7.5 x O.D. —	7.5 x O.D. 12 x O.D.
Temperature range: static: flexible:	-30/+70°C -5/+70°C	-40/+70°C -40/+70°C
Oil resistance:	acc. to internal standard, see page O/29	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2
Characteristic impedance: type B: PA:	at >100 kHz 100 Ω - 130 Ω 100 Ω - 20%	at >100 kHz 100 Ω - 130 Ω 100 Ω - 20%
For fixed installation:	suitable	suitable
For flexible application:	suitable	suitable
Application in cable tracks:	not recommended	recommended
Weather resistance:	medium	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union, see page O/30	

item no.	type	jacket color	no. of conductors	AWG	outer-ø inch ± 5%	mm ± 5%	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	blue (RAL 5015)	2	18 (≈ 26/32)	0.287	7.3	46
▶ 6422768	PB 642	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

DIN 47100 color code:

#1- white/brown, #2- green/yellow



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