

Profibus-DP cables acc. to IEC 61158-2



PB 642 PVC Profibus cable

S PB 644 PUR Profibus cable for cable tracks



marking example:

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

Construction:	PB 642	S PB 644
Dimension:	2 x 0,22 mm ² , 2 x 2 x 0,22 mm ² , 2 x 0,25 mm ² , 2 x 2 x 0,25 mm ² , 2 x 0,82 mm ²	2 x 0,25 mm ² , 2 x 2 x 0,25 mm ²
Conductor:	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	
Colour code:	red, green (PA) DIN 47100 (type B)	
Stranding:	in layers	
Wrapping:	PETP-foil, non-woven tape	
Screen:	tinned copper braiding	
Sheath material:	PVC, TM2 acc. to EN 50363-4-1	PUR, TMPU acc. to EN 50363-10-2 with rough surface
Sheath colour:	see table below	redlilac (RAL 4001)

Technical data:	PB 642	S PB 644
Item number:	0642-2221, 0642-4221, 0642-2251, 0642-4251, 0642-2767, 0642-2768	0644-2251, 0644-4251
Peak operating voltage:	max. 350 V	
Testing voltage	1500 V	
core/core:	1200 V	
core/screen:		
Min. bending radius	7,5 x d	7,5 x d
continuously flexible:		12 x d
Temperature range		
fixed laying:	-30/+70 °C	-40/+70 °C
flexible application:	-5/+70 °C	-40/+70 °C
Oil resistance:	acc. to internal standard, see chapter N „Technical data“	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2
Characteristic impedance	at > 100 kHz 100 Ω - 130 Ω	
type B:	100 Ω ± 20%	
PA:		
For fixed installation:	suitable	
For flexible application:	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 chapter N „Technical data“	

item no.	type	sheath colour	dimension	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
06422221	PB 642	redlilac (RAL 4001)	2 x 0,22 mm ²	4,4	14,7	26
06424221	PB 642	redlilac (RAL 4001)	2 x 2 x 0,22 mm ²	6,2	22,4	45
06422251	PB 642	redlilac (RAL 4001)	2 x 0,25 mm ²	4,9	15,4	30
06424251	PB 642	redlilac (RAL 4001)	2 x 2 x 0,25 mm ²	6,7	26,5	52
06422767	PB 642	blue (RAL 5015)	2 x 0,82 mm ²	7,3	38,1	68
06422768	PB 642	black (RAL 9005)	2 x 0,82 mm ²	7,3	38,1	68
06442251	S PB 644	redlilac (RAL 4001)	2 x 0,25 mm ²	5,2	15,9	33
06444251	S PB 644	redlilac (RAL 4001)	2 x 2 x 0,25 mm ²	6,8	26,4	57

Other dimensions and colours are possible on request.