

Profibus-DP cables acc. to IEC 61158-2

SABIX® PB 630 FRNC halogen-free, flame retardant Profibus-DP cable

S PB 634 PUR Profibus-DP cable for cable tracks **PB 632** flexible PVC Profibus-DP cable



marking example:

SAB BRÖCKSKES · D-VIERSEN · S PB 634 2x0,34mm² CE

Construction:	SABIX® PB 630 FRNC	S PB 634	PB 632
Dimension:	2 x 0,34 mm ²	2 x 0,34 mm ² , 2 x 0,34 mm ² + 3 x 1,00 mm ²	
Conductor:	bare copper strands acc. to VDE 0812	0,34 mm ² : bare copper strands acc. to VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, VDE 0295, class 6	0,34 mm ² : bare copper strands acc. to VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, VDE 0295, class 5
Pairwise wrapping:	—	non-woven tape/alu foil	alu foil
Pairwise sheathing:	—	TPE	—
Insulation:	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)	0,34 mm ² : EN 50290-2-23 + VDE 0819-103 (02Y11) 1,00 mm ² : TPE	0,34 mm ² : EN 50290-2-23 + VDE 0819-103 (02Y11) 1,00 mm ² : PVC T12 acc. to EN 50363-3
Colour code:	red, green	red, green (0,34 mm ²), brown, light blue and a green-yellow earth wire (1,0 mm ²)	—
Screen:	alu foil and tinned copper braiding	—	—
Pairwise screening:	—	tinned copper braiding	—
Stranding:	—	in layers	—
Sheath material:	SABIX®	PUR, TMPU acc. to EN 50363-10-2 with rough surface	PVC, TM2 acc. to EN 50363-4-1
Sheath colour:	—	redlilacc (RAL 4001)	—

Technical data:	SABIX® PB 630 FRNC	S PB 634	PB 632
Item number:	6630-2341	0634-2341, 0634-4341	0632-2341, 0632-4341
Peak operating voltage:	—	max. 350 V	—
Testing voltage	—	1500 V	—
core/core:	—	1500 V	—
core/screen:	—	1500 V	—
Min. bending radius:	—	12 x d	—
Temperature range	—	—	—
fixed laying:	-40/+80 °C	-40/+80 °C	-30/+70 °C
flexible application:	-30/+80 °C	-40/+80 °C	-5/+70 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	—	—
Fire performance:	no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D, see chapter N „Technical data“. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	—	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosiveness of conflagration gases:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases	—	—
Smoke density:	very low	—	—
Oil resistance:	—	very good acc. to EN 50363-10-2 + VDE 0207-363-10-2	acc. to internal standard, see chapter N „Technical data“
Characteristic impedance 3 - 20 MHz:	150 Ω ± 10%	—	—
For fixed installation:	—	suitable	—
For flexible application:	not suitable	—	suitable
Application in cable tracks:	not recommended	recommended	not recommended
Weather resistance:	good	very good	medium
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“		

item no.	type	dimension	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
66302341	SABIX® PB 630 FRNC	2 x 0,34 mm ²	7,5	30,4	50
06342341	S PB 634	2 x 0,34 mm ²	7,6	30,9	58
06344341	S PB 634	2 x 0,34 mm ² + 3 x 1,00 mm ²	10,6	58,8	108
06322341	PB 632	2 x 0,34 mm ²	7,5	25,8	56
06324341	PB 632	2 x 0,34 mm ² + 3 x 1,00 mm ²	10,1	58,8	122

Other dimensions and colours are possible 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.