

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



**SABIX® PB 630** Halogen-free Profibus-DP cable **PB 631** Halogen-free PE Profibus-DP cable for fixed installation  
**SABIX® PB 630 FRNC** Halogen-free flame retardant Profibus-DP cable **PB 633** Halogen-free, flexible PE Profibus-DP cable

SKES · D-VIERSEN · SABIX® PB 630 FRNC 2x0.34mm<sup>2</sup> CE



Marking for SABIX® PB 630 FRNC 66302341:  
 SAB BRÖCKSKES · D-VIERSEN · SABIX® PB 630 FRNC 2x0.34mm<sup>2</sup> CE

<b>Construction:</b>	<b>SABIX® PB 630</b> <i>Halogen-free</i>	<b>SABIX® PB 630 FRNC</b> <i>Halogen-free &amp; flame retardant</i>	<b>PB 631</b> <i>for fixed installations</i>	<b>PB 633</b> <i>for flexible applications</i>
<b>Item numbers:</b>	56302341	66302341	6312331	6332341 / 6334341
<b>Dimensions:</b>	2 x 0.34 mm <sup>2</sup>	2 x 0.34 mm <sup>2</sup>	2 x 22 AWG	2 x 0.34 mm <sup>2</sup> 2 x 0.34 mm <sup>2</sup> + 3 x 1.00 mm <sup>2</sup>
<b>Conductor:</b>	bare copper strands, acc. to VDE 0812	bare copper strands, acc. to VDE 0812	bare copper wire AWG 22, single wire	0.34 mm <sup>2</sup> : bare copper strands acc. to VDE 0812 1.00 mm <sup>2</sup> : bare copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Pairwise wrapping:</b>	—	—	—	alu foil
<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)	0.34 mm <sup>2</sup> : EN 50290-2-23 + VDE 0819-103 (02Y11) 1.00 mm <sup>2</sup> : PE 2Y11 acc. to EN 50290-2-23
<b>Color code:</b>	red, green	red, green	red, green	red, green (0.34 mm <sup>2</sup> ), brown, light blue and green/yellow ground (1.0 mm <sup>2</sup> )
<b>Stranding:</b>	in layers	in layers	in layers	in layers
<b>Shielding:</b>	alu foil + tinned copper braiding		alu foil + tinned copper braiding	tinned copper braiding
<b>Jacket material:</b>	SABIX®	SABIX®	PE, 2YM1 acc. to EN 50290-2-24	
<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>SABIX® PB 630</b> <i>Halogen-free</i>	<b>SABIX® PB 630 FRNC</b> <i>Halogen-free &amp; flame retardant</i>	<b>PB 631</b> <i>for fixed installations</i>	<b>PB 633</b> <i>for flexible applications</i>
<b>Peak operating voltage:</b>	max. 350 V	max. 350 V	max. 350 V	max. 350 V
<b>Testing voltage:</b> conductor/conductor: conductor/shielding:	1500 V 1500 V	1500 V 1500 V	1500 V 1500 V	1500 V 1500 V
<b>Min. bending radius:</b>	12 x O.D.	12 x O.D.	12 x O.D.	12 x O.D.
<b>Radiation resistance:</b>	—	—	7 x 10 <sup>8</sup> cJ/kg	—
<b>Temperature range:</b> static: flexible:	-40/+80°C -40/+80°C	-40/+80°C -30/+80°C	-40/+70°C -40/+70°C	-40/+70°C -40/+70°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + EN 0482-754-1	acc. to IEC 60754-1 + EN 0482-754-1	acc. to IEC 60754-1 + EN 0482-754-1	—
<b>Burning characteristics:</b> no flame propagation acc. to IEC 60332-3-24 + IEC 60332-3-25 Cat. C resp. D, Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2	—	X	—	—
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases			
<b>Smoke density:</b>	—	very low	low	—
<b>Oil resistance:</b>	very good acc. to EN 50363-4-1	—	—	—
<b>Characteristic impedance 3 - 20 MHz:</b>	150 Ω ± 10%	150 Ω ± 10%	150 Ω ± 10%	—
<b>For fixed installation:</b>	suitable	suitable	suitable	suitable
<b>For flexible application:</b>	suitable	not suitable	not suitable	suitable
<b>Weather resistance:</b>	good	good	good	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see page O/30			

item no.	type	no. of conductors	dimensions AWG	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 56302341	SABIX® PB 630	2	22 (≈ 7/30)	0.295	7.5	34
▶ 66302341	SABIX® PB 630 FRNC	2	22 (≈ 7/30)	0.295	7.5	42
▶ 6312331	PB 631	2	22	0.280	7.1	30
▶ 6332341	PB 633	2	22 (≈ 7/30)	0.295	7.5	34
▶ 6334341	PB 633	2+3	22 (≈ 7/30) + 18 (≈ 30/32)	0.398	10.1	68

**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.

Other dimensions and colors are available on request

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