

PROFIBUS-DP CABLES ACC. TO EN 50170



SABIX® PB 630 Halogen-free Profibus-DP cable
PB 630 PVC Profibus-DP cable for fixed installation

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



Marking for SABIX® PB 630 FRNC 66302341:

SAB BRÖCKSKES · D-VIERSEN · SABIX® PB 630 FRNC 2 x 0,34 mm² CE

Profibus-DP: This Profibus variation, optimizing velocity and low installation costs, is especially developed for the communication between automation systems and decentralized peripheral equipment in the field area. Profibus-DP cable substitutes for conventional parallel transmission of signals with 24 V or 0-20 mA. The job profile for Profibus-DP type A according to EN 50170 is kept.

item no.	type	no. of conductors	AWG	nominal outer-ø inch	mm	cable weight ≈ lbs/ft
▶ 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
▶ 06302331	PB 630	2	22	0.280	7.1	33
▶ 06312331	PB 631	2	22	0.280	7.1	30

Other dimensions and colors are possible on request.

General construction:

Insulation:	acc. to DIN VDE 0819 part 103 (02Y11)
Color code:	red, green
Stranding:	in layers
Wrapping:	alu foil
Screen:	tinned copper braiding

Technical data:

Peak operating voltage:	max. 350 V
Testing voltage:	1500 V
Min. bending radius:	12 x O.D.
Characteristic impedance 3 - 20 MHz:	150 Ω ± 10%
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

	SABIX® PB 630	SABIX® PB 630 FRNC	PB 630	PB 631
▶ Conductor:	bare copper strands acc. to DIN VDE 0812	bare copper strands acc. to DIN VDE 0812	bare copper wire AWG 22, solid wire	bare copper wire AWG 22, solid wire
▶ Outer jacket (purple):	SABIX® 322	SABIX® 230 FRNC DIN VDE 0207 part 5	PVC, YM1 acc. to DIN VDE 0207 part 3	PE, 2YM1 acc. to
▶ Radiation resistance:	5 x 10 ⁵ cJ/kg	–	8 x 10 ⁷ cJ/kg	7 x 10 ⁶ cJ/kg
▶ Temperature range <i>static:</i> <i>flexing:</i>	-40/+80°C -40/+80°C	-40/+80°C -30/+80°C	-30/+70°C -5/+70°C	-40/+70°C -40/+70°C
▶ Zero halogen:	acc. to DIN VDE 0472 part 815 + IEC60754-1	acc. to DIN VDE 0472 part 815 + IEC60754-1	–	acc. to DIN VDE 0472 part 815 + IEC60754-1
▶ Burning characteristics: no flame propagation acc. to IEC 60332-3 + EN 60332-3 Cat. C resp. D	–	X	–	–
▶ Burning characteristics: flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2	–	X	X	–
▶ Corrosivity: in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases	X	X	–	X
▶ Smoke density:	low	very low	–	low
▶ Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1	–	acc. to internal standard	–
▶ For fixed installation:	X	X	X	X
▶ For flexible application:	X	–	–	–
▶ Weather resistance:	good	good	medium	good
▶ Outdoor installation:	–	–	–	–
▶ Direct burial:	–	–	–	–
▶ UL Style:	–	–	–	–

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.