

PROFIBUS-DP CABLES ACC. TO EN 50170

SABIX® PB 630 Halogen-free Profibus-DP cable

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

PB 631 Halogen-free PE Profibus-DP cable for fixed installation

PB 633 Halogen-free, flexible PE Profibus-DP cable



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- \varnothing inch	mm	cable weight \approx lbs/ft
▶ 56302341	SABIX® PB 630	2	22 (\approx 7/30)	0.295	7.5	34
▶ 66302341	SABIX® PB 630 FRNC	2	22 (\approx 7/30)	0.295	7.5	42
▶ 06312331	PB 631	2	22	0.280	7.1	30
▶ 06332341	PB 633	2	22 (\approx 7/30)	0.295	7.5	34
▶ 06334341	PB 633	2 + 3	22 (\approx 7/30) + 18 (\approx 30/32)	0.398	10.1	68

Other dimensions and colors are possible on request.

General construction:

Stranding:	in layers
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 \pm 10%
Weather resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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.

	56302341	66302341	06312331	06332341 06334341
▶ Conductor:	bare copper strands acc. to DIN VDE 0812	bare copper strands acc. to DIN VDE 0812	bare copper wire AWG 22, solid wire	0,34 mm ² : bare copper strands acc. to DIN VDE 0812 1,00 mm ² : bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
▶ Insulation:	acc. to DIN VDE 0819 part 103 (02Y11)	acc. to DIN VDE 0819 part 103 (02Y11)	acc. to DIN VDE 0819 part 103 (02Y11)	0,34 mm ² : acc. to DIN VDE 0819 part 103 (02Y11) 1,00 mm ² : PE, 2Y11 acc. to DIN VDE 0207 part 2
▶ Color code:	red, green	red, green	red, green	red, green (AWG 22); brown, light blue and green-yellow earth wire (AWG 18)
▶ Wrapping:	alu foil	alu foil	alu foil	alu foil, PETP foil
▶ Jacket of pairs:	–	–	–	TPE
▶ Outer jacket (purple):	SABIX®	SABIX®	PE, 2YM1 acc. to DIN VDE 0207 part 3	PE, 2YM1 acc. to DIN VDE 0207 part 3
▶ Radiation resistance:	5 x 10 ⁵ 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	-40/+70°C -40/+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	–	–
▶ 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	X
▶ Smoke density:	–	very low	low	–
▶ Oil resistance:	very good - TM5 acc. to DIN VDE 0281 part 1	–	–	–
▶ For fixed installation:	X	X	X	X
▶ For flexible application:	X	–	–	X