

# PROFIBUS-DP CABLES ACC. TO EN 50170

**PB 636** Flexible PVC Profibus-DP cable for outdoor installation

**PB 639** PVC Profibus-DP cable applicable in ground

**PB 637** PVC Profibus-DP cable with UL recognition

**PB 635** PVC Profibus-DP cable for outdoor installation



Marking for PB 636 06362348:  
SAB BRÖCKSKES · D-VIERSEN · PB 636 2 x 0,34 mm<sup>2</sup> 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- $\phi$ inch	mm	cable weight $\approx$ lbs/ft
06362348	PB 636	2	22 ( $\approx$ 7/30)	0.346	8.8	53
06372331	PB 637	2	22	0.287	7.3	36
06392338	PB 639	2	22	0.362	9.2	60
06352338	PB 635	2	22	0.331	8.4	50

Other dimensions and colors are possible on request.

## General construction:

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

## Technical data:

<b>Peak operating voltage:</b>	max. 350 V
<b>Testing voltage:</b>	1500 V
<b>Min. bending radius:</b>	12 x O.D.
<b>Burning characteristics:</b>	flame retardant and extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
<b>Characteristic impedance 3 - 20 MHz:</b>	150 $\Omega$ $\pm$ 10%
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

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<b>► Conductor:</b>	bare copper strands acc. to. DIN VDE 0812	bare copper wire AWG 22, solid wire	bare copper wire AWG 22, solid wire	bare copper wire AWG 22, solid wire
<b>► Outer jacket (purple):</b>	PVC, TM2 acc. to DIN VDE 0281 part 1	PVC, YOE acc. to DIN VDE 0281 part 1	PVC acc. to DIN VDE 0281 part 1	PVC, TM2 acc. to DIN VDE 0281 part 1
<b>► Voltage acc. to UL:</b>	–	30 V	–	–
<b>► Temperature range</b> <i>static:</i> <i>flexing:</i>	-30/+70°C -5/+70°C	<b>UL:</b> up to +60°C -30/+70°C -5/+70°C	-30/+70°C -5/+70°C	-30/+70°C -5/+70°C
<b>► Oil resistance:</b>	acc. to internal standard	very good - acc. to DIN VDE 0207 part 5	acc. to internal standard	acc. to internal standard
<b>► For fixed installation:</b>	X	X	X	X
<b>► For flexible application:</b>	X	–	–	–
<b>► Weather resistance:</b>	good	medium	very good	good
<b>► Outdoor installation:</b>	X	–	X	X
<b>► Direct burial:</b>	–	–	X	–
<b>► UL Style:</b>	–	2560 • 60°C	–	–

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.