

Profibus-DP Cables acc. to IEC 61158-2

PB 640 flexible PVC Profibus-DP cable

S PB 640 highly flexible PUR Profibus-DP cable

PB 640 UL flexible PVC Profibus-DP cable with UL recognition

S PB 640 UL highly flexible PUR Profibus-DP cable with UL recognition



Marking for S PB 640 UL 06402611:

SAB BRÖCKSKES · D-VIERSEN · S PB 640 UL 24AWG/2c 06402611 AWM Style 21198 80°C 300V CE

Construction:	PB 640	PB 640 UL	S PB 640	S PB 640 UL
Dimensions:	2 x AWG 24			
Conductor:	bare copper strands AWG 24			
Insulation:	acc. to EN 50290-2-23 + VDE 0819-103 (02Y11)			
Colour code:	red, green			
Stranding:	in layers			
Inner sheath (nature):	PVC		SABIX®	
Screen:	alu foil und tinned copper braiding			
Sheath material:	PVC, TM2 acc. to EN 50363-4-1		PUR, TMPU acc. to EN 50363-10-2 with matt surface	
Sheath colour:	redlilac (RAL 4001)			

Technical data:	PB 640	PB 640 UL	S PB 640	S PB 640 UL
Item numbers:	0640-2421	0640-2631	0640-2601	0640-2611
Peak operating voltage:	max. 350 V			
Voltage UL:	---	300 V	---	30 V
Testing voltage	1500 V			
core/core:	1500 V			
core/screen:	1500 V			
Min. bending radius:	12 x d			
Temperature range	UL: up to +80 °C			
fixed laying:	-30/+70 °C	-30/+70 °C	-40/+80 °C	-40/+80 °C
flexible application:	-5/+70 °C	-5/+70 °C	-30/+80 °C	-30/+80 °C
Halogen-free:	---		acc. to IEC 60754-1 + VDE 0482-754-1	
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332 + VDE 0482-332-1-2			
Oil resistance:	acc. to internal standard see chapter N „Technical Data“		very good EN 50363-10-2 + VDE 0207-363-10-2	
Characteristic impedance 3 - 20 MHz:	150 Ω ± 10%			
For fixed installation:	X			
For flexible application:	X			
Application in cable tracks:	not recommended		recommended	
UL Style:	---	X	---	X
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical Data“			

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Outstanding features:

- short assembling time
- avoidance of connection errors

item no.	type	no. of cores x AWG each conductor	outer-ø ± 5%	copper figure kg/km	cable weight ≈kg/km
06402421	PB 640	2 x AWG 24	8,0 ± 0,4	31,2	63
06402631	PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62
06402601	S PB 640	2 x AWG 24	8,0 ± 0,4	31,2	57
06402611	S PB 640 UL	2 x AWG 24	8,0 ± 0,4	31,2	62

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.