

U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>UNITRONIC® BUS PB FD P HYBRID</b>	29.11.2013

Highly flexible application

For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flame-retardance is required

For highly flexible applications (power chains, moving machine parts)

Cables can be used for PROFIBUS-DP as well as PROFIBUS-FMS and FIP



Automation



Halogen-free



Industrial machinery and plant engineering



Oil-resistant



Power chain

### Application range

PROFIBUS® (in accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC® NET, also suitable for FIP - Factory Instrumentation Protocol).

### Design

Cores for Power Supply 4 x 1.5 mm<sup>2</sup> (AWG16)

### Product features

HYBRID: cable for data transmission + power supply

Flame-retardant according IEC 60332-1-2

Oil-resistant

### Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum


Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

SIMATIC® is a registered trademark of SIEMENS AG. FIP is a registered trademark of World FIP

Lapp Kabel is a member of the PROFIBUS user organisation (PNO)

Photographs are not to scale and do not represent detailed images of the respective products.

Product Management	Document: LAPP_PRO158673EN.pdf	1 / 3
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**Technical Data**

Mutual capacitance:	(800 Hz): max. 30 nF/km
Peak operating voltage:	(not for power applications) 100 V
Minimum bending radius:	Flexing: 15 x outer diameter
Test voltage:	Core/core: 600 V Core/screen: 600 V
Temperature range:	Flexing: -30°C to +60°C Fixed installation: -40°C to +70°C
Characteristic impedance:	150 ± 15 Ohm

Product Management	Document: LAPP_PRO158673EN.pdf	2 / 3
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**UNITRONIC® BUS PB FD P HYBRID**

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Part number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
Highly flexible application					
2170495	UNITRONIC® BUS PB FD P HYBRID	1 x 2 x 0.64 Ø + 4 x 1.5 mm <sup>2</sup>	11.3	89.0	148