

## UNITRONIC® BUS PB FD P HYBRID

Bus cable for PROFIBUS-DP, -FMS and FIP. HYBRID: Data transm. + power supply. Flame retardance, oil resistant and halogen free. Temp. range from -40°C bis +70°C



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



Oil-resistant



Power chain

### Benefits

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

### Application range

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

### Product features

HYBRID: cable for data transmission + power supply

Flame-retardant according IEC 60332-1-2

### Product Make-up

Fine-wire, bare copper strand

Last Update (08.01.2023)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNITRONIC® BUS PB FD P HYBRID

1x2x0.64 : red, green  
4 x 1.5 (AWG16): black with white numbers  
Core insulation: PE  
Tin-plated copper wire braiding  
Outer sheath: PUR, violet (RAL 4001)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
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
Characteristic impedance:	150 ± 15 Ohm
Temperature range:	Flexing: -30 °C to +60 °C Fixed installation: -40 °C to +70 °C

### Note

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

Copper price basis: EUR 150/100 kg. 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 and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

**UNITRONIC® BUS PB FD P HYBRID**

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS PB FD P HYBRID					
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	148

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