

## UNITRONIC® BUS PB FD Y HYBRID

Highly flexible PROFIBUS HYBRID cable, UL-verified

Bus cable for PROFIBUS-DP, -FMS and FIP. HYBRID: Data transm. + power supply. Flame retardant, oil- and UV-resistant. Temperature range from -40 °C bis +80 °C



Flame-retardant



Oil-resistant



Power chain



UV-resistant

### Benefits

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

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

CL3 for installation on trays

### 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

### Norm references / Approvals

With UL/CSA certification (CM, CL3, SUN RES, Oil Res I)

Flame-retardant according to CSA FT4

UL Vertical-Tray Flame Test

Last Update (25.04.2024)

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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.

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## UNITRONIC® BUS PB FD Y HYBRID

Oil-resistant according to UL OIL RES I

### Product Make-up

Fine-wire, bare copper strand  
1x2x0.64: red, green  
Core insulation: Foam Skin PE  
4x1.5: black with white numbers 1-4  
Core insulation: PVC  
Tin-plated copper wire braiding  
Outer sheath: PVC, 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
Peak operating voltage:	600 V (not for power applications)
Minimum bending radius:	Fixed installation: 5 x outer diameter Flexing: 15 x outer diameter
Test voltage:	Core/core: 2000 V Core/screen: 2000 V
Characteristic impedance:	150 ± 15 Ohm
Temperature range:	-5 °C to +80 °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)

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

**UNITRONIC® BUS PB FD Y HYBRID**

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
2170882	UNITRONIC® BUS PB FD Y HYBRID	1 x 2 x 0.64 Ø + 4 x 1.5 mm <sup>2</sup>	11.3	89	155