

UNITRONIC® BUS PB FD P

Highly flexible application

Bus cable for PROFIBUS-DP, -FMS and FIP. Halogen free and enhanced flame retardance. Temperature range from -40°C bis +80°C

LAPP KABEL STUTTGART UNITRONIC[®] BUS PB FD P





Power chain



Oil-resistant

Halogen-free



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).

Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)



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Product features

Halogen-free Flame-retardant according IEC 60332-1-2 Oil-resistant Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply (cable type A, PROFIBUS-DP): 93.75 kbit/s = 1200 m 187.5 kbit/s = 1000 m 500 kbit/s = 400 m 1.5 Mbit/s = 200 m 12.0 Mbit/s = 100 m

Product Make-up

Foam Skin - core isolation (O2YS) Overall screening with copper braid and plastic-laminated aluminium foil Tin-plated copper wire braiding Outer sheath: PUR compound

Technical Data

Classification:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable		
Mutual capacitance:	(800 Hz): max. 30 nF/km		
Peak operating voltage:	(not for power applications) 250 V		
Torsion movement in WTG (wind turbine generator):	TW-0 & TW-2, refer to Appendix T0		
Minimum bending radius:	65 mm		
Test voltage:	Core/core: 1500 V rms		
Characteristic impedance:	150 ± 15 Ohm		
Temperature range:	Flexing: -30°C to +70°C Fixed installation: -40°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

Packaging size: coil \leq 30 kg or \leq 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.

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

Article number For highly flexible applic 2170222	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
For highly flexible applic	cations (e.g. power chains) - conventi	onal cable assembly			
2170222	UNITRONIC® BUS PB FD P	1 x 2 x 0.64	8	30.1	64