U.I. Lapp GmbH

PRODUCT INFORMATION



UNITRONIC® BUS PB FD P A

14.11.2013

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

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

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

LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P A













Halogen-free



Oil-resistant



Power chain

Info

A for Advanced here: UL and CSA approvals

Application range

PROFIBUS® (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)

Design

Stranded bare copper wire

Foam Skin - core isolation (O2YS)

Overall screening with copper braid and plastic-laminated aluminium foil

Screening: wrapped with braided tinned-copper wires

Outer sheath: PUR compound

Norm references / Approvals

Approval: UL/CSA type CMX in accordance with UL 444 and CSA C22.2 no. 214

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 m187.5 kbit/s = 1000 m500 kbit/s = 400 m1.5 Mbit/s = 200 m12.0 Mbit/s = 100 m

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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

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.

Technical Data

Mutual capacitance: (800 Hz): max. 30 nF/km

Peak operating voltage: (not for power applications) 250 V

Torsion movement in WTG: TW-0 & TW-2, refer to Appendix T0

Minimum bending radius: 65 mm

Test voltage: Core/core: 1500 V rms
Temperature range: Flexing: -30 °C to +70 °C

Fixed installation: -40°C to +80°C

Characteristic impedance: $150 \pm 15 \text{ Ohm}$

Product Management

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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					
2170822	UNITRONIC® BUS PB FD P A	1 x 2 x 0,64	8.0	30.1	58

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