Data communication systems

Cables for bus systems PROFIBUS-DP/FMS/FIP Characteristic impedance: 135 - 165 ohm



LAPP GROUP

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UNITRONIC[®] BUS PB FD P

Highly flexible application

LAPP KABEL STUTIGART UNITRONIC® BUS PB FD P

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[®] (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)

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 m1.5 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

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)		
For highly flexible applications (e.g. power chains) - conventional cable assembly							
2170222	UNITRONIC [®] BUS PB FD P 1x2x0 64	1 x 2 x 0 64	8.0	30.1	64		

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 \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.

Accessories

• EPIC[®] Data Connectors refer to page 302

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

Temperature range Flexing: -30°C to +70°C

Fixed installation: -40°C to +80°C **Characteristic impedance**

Z∞ 150 ± 15 Ohm

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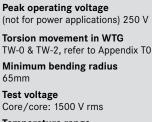
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Technical data

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