

Bus system PROFIBUS-DP/FMS/FIP • Continuous flexing application



Info







# UNITRONIC® BUS PB FD P A

Halogenfree, highly flexible PROFIBUS cable - UL/CSA certified



A for Advanced here: UL and CSA certifications

# LAPP KABEL STUTTGART UNITRONIC® BUS PB FD P A

#### Renefits

- · For use where the combination of a halogen-free outer sheath with properties similar to PUR and enhanced flameretardance is required
- 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).
- · For highly flexible applications (power chains, moving machine parts)
- 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 m

1.5 Mbit/s = 200 m

12.0 Mbit/s = 100 m

# Norm references / Approvals

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

# Product Make-up

- · Stranded bare copper wire
- · Core insulation: foam skin, (O2YS)
- · Overall screening with copper braid and plastic-laminated aluminium foil
- · Outer sheath: PUR, violet (RAL 4001)

### **Technical data**

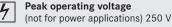


# Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description:

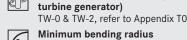
Data cable



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



Torsion movement in WTG (wind









Flexing: -30°C to +70°C Fixed installation: -40°C to +80°C

Article 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	30.1	58

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  $\le$  30 kg or  $\le$  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.

# Accessories

· Sub-D Bus-Connectors