# Data communication systems

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



# UNITRONIC<sup>®</sup> BUS PB FD FRNC FC

# **Highly flexible application**

# LAPP KABEL STUTTGART UNITRONIC® BUS PB FD FRNC FC

## Benefits

- Fast Connect (FC) system
- · 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

- For highly flexible use in energy supply chains or permanently moving machines and linear robots
- This cable provides special advantages for use in sensitive areas where fire propagation must be avoided and the presence of toxic fumes would cause personal injury and damage to equipment.

## Product features

- The cable is UL/CSA-approved (CMG)
- Halogen-free
- High flame retardancy in accordance with
- IEC 60332-3 and FT4
- Oil-resistant

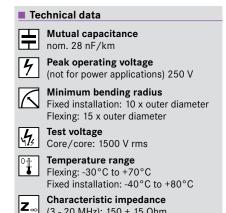
<ul> <li>Based on the bit rates listed, in accord-</li> </ul>
ance with PNO specifications the following
maximum cable lengths for a bus segment
vlaas

(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

- Stranded bare copper wire
- Foam Skin core isolation (O2YS)
- Overall screening with copper braid and plastic-laminated aluminium foil
- · Screening: wrapped with braided tinnedcopper wires
- Outer sheath: PUR compound





	characteristic impedance
- ∞	(3 - 20 MHz): 150 ± 15 Ohm

Article number	Article designation	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
2170854	UNITRONIC <sup>®</sup> BUS PB FD FRNC FC	1x2x0,64	8.0	26.0	75

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). 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<sup>®</sup> Data Connectors refer to page 302

FC STRIP stripping tool refer to page 912

EPIC

ACCESSORIES

APPENDIX