



UNITRONIC® BUS IBS FD P



Info

- IBS - INTERBUS

Benefits

- Certified by INTERBUS CLUB

Application range

- For highly flexible use in energy supply chains or permanently moving machines and linear robots
- Dry or damp rooms
- Harsh industrial environment

Product features

- IBS cable - for highly flexible application
- Remote bus cable + installation remote bus cable
- 500 kbit/s = max. 400 m (remote bus cable)
- Max. 50 m (installation remote bus cable)
- PUR outer sheath, tear and notch-resistant, resistant to mineral oils and abrasion when used in power chains

Norm references / Approvals

- In accordance with DIN 19258 and EN 50254

Product Make-up

- UNITRONIC® BUS IBS FD P
- Stranded conductor, bare, core identification code in accordance with DIN 47100, braided copper wire for overall screening, PUR outer sheath, violet (RAL 4001), halogen-free, flame-retardant in accordance with IEC 60332-1-2.
- UNITRONIC® BUS IBS FD P COMBI
- Bare stranded copper wire conductor, cores twisted to pairs, core colours: white/brown / green/yellow / grey/pink (data). Bare copper wire stranded conductor, core colours: red, blue, green/yellow (power supply).
- Overall screening of braided copper, PUR outer sheath (violet, RAL 4001), halogen-free, flame-retardant according to IEC 60332-1-2.

Technical data

| | |
|--|---|
| | ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable |
| | Mutual capacitance (800 Hz): max. 60 nF/km |
| | Peak operating voltage (not for power applications) 250 V |
| | Conductor resistance (loop): max. 159.8 ohm/km |
| | Minimum bending radius Flexing: 15 x outer diameter |
| | Test voltage Core/core: 1500 V rms |
| | Characteristic impedance 100 Ohm |
| | Temperature range Fixed installation: -40°C to +80°C Flexing: -30°C to +70°C |

| Article number | Cable type | Article designation | Number of pairs and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|---|--------------------------------------|---------------------------------|---|---------------------|----------------------|----------------|
| For highly flexible applications (power chains, moving machine parts) | | | | | | |
| 2170216 | Remote bus cable (RBC) | UNITRONIC® BUS IBS FD P | 3 x 2 x 0.25 | 7.9 | 39 | 64 |
| 2170218 | Installation remote bus cable (INBC) | UNITRONIC® BUS IBS FD P COMBI | 3 x 2 x 0,25 + 3 x 1,0 | 7.9 | 62 | 92 |
| For highly flexible applications (e.g. power chains) - with UL/CSA (CMX) certification | | | | | | |
| 2170818 | Installation remote bus cable (INBC) | UNITRONIC® BUS IBS FD P COMBI A | 3 x 2 x 0,25 + 3 x 1,0 | 7.9 | 62 | 92 |

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 ≤ 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).

INTERBUS is a registered trademark of Phoenix Contact GmbH & Co.

Photographs are not to scale and do not represent detailed images of the respective products.

Accessories

- SILVYN® CHAIN
- Multipurpose shears A and B refer to page 998
- SMART STRIP stripping tool