



## 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

- 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
- Temperature range**  
Fixed installation: -40°C to +80°C  
Flexing: -30°C to +70°C
- Characteristic impedance**  
100 Ohm

Article number	Cable type	Article designation	Number of pairs and mm <sup>2</sup> per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>For highly flexible applications (power chains, moving machine parts)</b>						
2170216	Remote bus cable (RBC)	UNITRONIC® BUS IBS FD P	3 x 2 x 0,25	7,9	39,0	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	62,0	92
<b>For highly flexible applications (e.g. power chains) - with UL/CSA (CMX) approval</b>						
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	62,0	92

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100kg. 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](http://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).  
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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 907
- SMART STRIP stripping tool refer to page 911