



UNITRONIC® BUS IBS FD P

INTERBUS cables for use in high flexible applications

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

- Halogen-free
- 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

- According to DIN EN 61158
- Flame retardant acc. to IEC 60332-1-2

Product Make-up

- **UNITRONIC® BUS IBS FD P**
Bare copper wire, extra fine
core identification: acc. to DIN 47100
Overall copper braid screen
Outer sheath: PUR, violet (RAL 4001)
- **UNITRONIC® BUS IBS FD P COMBI**
Stranded bare conductor
Core insulation: PE
3x2x0,25:
white/brown, green/yellow, grey/pink
3x1,0:
red, blue, green/yellow
Tinned copper screen braiding
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. 60 nF/km
- Peak operating voltage**
(not for power applications) 250 V
- Conductor resistance**
(loop): max. 159.8 Ω/km
- Minimum bending radius**
Flexing: 15 x outer diameter
- Test voltage**
Core/core: 1500 V rms
- Characteristic impedance**
100 Ω
- 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)
Highly flexible applications						
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
Highly flexible applications - 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).
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Accessories

- Multipurpose shears A and B
- SMART STRIP stripping tool