



UNITRONIC® BUS IBS

INTERBUS cables for fixed installation



Info

- IBS - INTERBUS

Benefits

- Certified by INTERBUS CLUB

Application range

- Fixed Installation

Product features

- IBS cable - for fixed installation
- Remote bus cable + installation remote bus cable
- The stated bit rates result in the following cable lengths (maximum) of one bus segment:
500 kbit/s = max. 400 m
- Halogen-free
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- According to DIN EN 61158

Product Make-up

- **UNITRONIC® BUS IBS**
Bare copper wire
Core insulation: PE
Overall copper braid screen
Outer sheath: PVC, violet (RAL 4001)
- **UNITRONIC® BUS IBS P COMBI**
Bare copper wire
Core insulation: PE
Overall copper braid screen
Outer sheath: PUR, violet (RAL 4001)
- **UNITRONIC® BUS IBS A**
similar to UNITRONIC BUS IBS, but with UL/CSA certification

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

Flexible use: 10 x outer diameter



Peak operating voltage

(not for power applications) 250 V



Conductor resistance

(loop): max. 186 Ω/km



Minimum bending radius

Fixed installation: 8 x outer diameter



Test voltage

Core/core: 1500 V rms



Characteristic impedance

100 Ω



Temperature range

Fixed installation: -30°C to +80°C
Flexing: -5°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)
Fixed Installation						
2170206	Remote bus cable (RBC)	UNITRONIC® BUS IBS Bare copper wire Core insulation: PE Overall copper braid screen Outer sheath: PVC, violet (RAL 4001)	3 x 2 x 0.22	7.2	37	72
2170208	Installation remote bus cable (INBC)	UNITRONIC® BUS IBS P COMBI Bare copper wire Core insulation: PE Overall copper braid screen Outer sheath: PUR, violet (RAL 4001)	3 x 2 x 0,22 + 3 x 1,0	7.9	60	85
For fixed installation - UL/CSA CMX certification						
2170209	Remote bus cable (RBC)	UNITRONIC® BUS IBS A	3 x 2 x 0.22	7.2	37	72

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

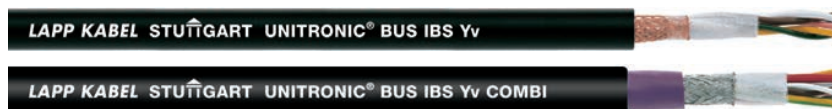
Accessories

- SENSOR STRIP stripping tool refer to page 987



UNITRONIC® BUS IBS Yv COMBI

INTERBUS cables for fixed installation - outdoor/direct burial



Benefits

- Certified by INTERBUS CLUB

Application range

- Suitable for outdoor use and direct burial

Product features

- IBS cable - for outdoor use or direct burial, UV-resistant (remote bus cable + installation remote bus cable)
- The stated bit rates result in the following cable lengths (maximum) of one bus segment:
- 500 kbit/s = max. 400 m
- Flame-retardant according IEC 60332-1-2

Norm references / Approvals

- According to DIN EN 61158

Product Make-up

- **UNITRONIC® BUS IBS Yv**
stranded bare conductor
Core insulation: PE
Tinned copper screen braiding
Outer sheath: PVC, black (RAL 9005)
- **UNITRONIC® BUS IBS Yv COMBI**
Stranded bare conductor
Core insulation: PE
3x2x0,22:
white/brown, green/yellow, grey/pink
3x1,0:
red, blue, green/yellow
Tinned copper screen braiding
Inner sheath: PVC, violet RAL (4001),
Outer diameter: 7,9 mm
Outer sheath: PVC, black (RAL 9005)
Outer diameter: 9,4 mm

Technical data

	Classification ETIM 5/6 ETIM 5.0/6.0 Class-ID: EC000830 ETIM 5.0/6.0 Class-Description: Data cable
	Peak operating voltage (not for power applications) 250 V
	Conductor resistance (loop): max. 186 Ω/km
	Minimum bending radius Fixed installation: 8 x outer diameter
	Test voltage Core/core: 1500 V rms
	Characteristic impedance 100 Ω
	Temperature range Fixed installation: -40°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)
UNITRONIC® BUS IBS Yv COMBI						
2170207	Remote bus cable (RBC)	UNITRONIC® BUS IBS Yv COMBI	3 x 2 x 0.22	9.3	37	94
UNITRONIC® BUS IBS Yv COMBI						
2170217	Installation remote bus cable (INBC)	UNITRONIC® BUS IBS Yv COMBI	3 x 2 x 0,22 + 3 x 1,0	9.4	60	128

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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

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

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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 mm² 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

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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