



## UNITRONIC® BUS SYSTEMS CABLES UNITRONIC-FD® BUS IBS

For highly flexible application in power chains  
and frequently moved machine parts  
(Remote bus cable + Installation remote bus cable)

### SPECIFICATION

#### Remote Bus Cable (RBC)

**UNITRONIC-FD® BUS P IBS:** Superfine strands of bare copper wires, PE core insulation, cores twisted to pairs, colour coded to DIN 47100, wrapping, screen braiding of copper wires, outer sheath of polyurethane compound, halogen free, flame retardant to VDE 0472 part 804, test type B (IEC 323.1), violet (RAL 4001)

**Certified by INTERBUS CLUB**

#### Installation Remote Bus Cable (INBC)

**UNITRONIC-FD® BUS P COMBI IBS:**

**Data pairs:** Superfine wire strands of bare copper wires, cores twisted in pairs, core colours white-brown/green-yellow/grey-pink

**Cores for power supply:** Strands (1.0mm<sup>2</sup>) of bare copper wires, core colours red, blue, green/yellow.

**Overall screening:** tinned copper wires.

**Outer sheath:** Polyurethane compound, halogen free, flame retardant to VDE 0472, part 804, test type B (IEC 323.1), violet (RAL 4001).

**Certified by INTERBUS-CLUB**



### TECHNICAL DATA

**Minimum bending radius:** flexing: 15 x cable diameter

**Temperature range:** flexing: -30°C to +70°C

**Working voltage:** peak: 250V (not for purposes of power/high voltage current)

**Characteristic impedance (Ohms):** 100 Ohms

## UNITRONIC-FD® BUS IBS

No. of cores and mm <sup>2</sup> per conductor	Part Number + Description	Approx. outside diameter in mm
3 x 2 x 0.25	2170 216 Remote Bus cable	8.1
3 x 2 x 0.25 + 3 X 1.0	2170 218 Installation remote Bus cable	7.9

# UNITRONIC® Flexing Interbus™ BUS Cable

Signal and Control Cables used in the Manufacturing and Process Industries

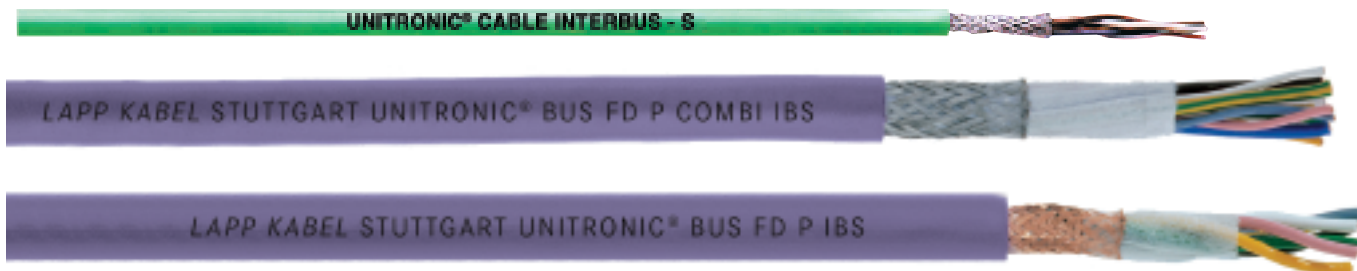


UNITRONIC® Interbus™ BUS cables are designed for today's high speed control requirements. They function as communication vehicles between control level devices, such as PLCs and numerous lower level devices, sensors and actuators. The cables deliver precise data transmissions required in today's

demanding manufacturing and process environments. Our advanced designs provide excellent protection from EMI emissions. Lapp supplies flexible, flexing, and outdoor cable types, which are certified to Interbus conformance requirements.

## UNITRONIC® Interbus™ BUS Cables Construction: Flexing Versions

Finely stranded bare copper conductors; TPE insulation; conductors paired; non-wicking wrap; tinned copper braid; flame retardant polyurethane jacket.



Cable Attributes							
	OR-05		FR-02		CF-01		MP-05

### Technical Data:

	Minimum Bending Radius for continuous flexing:	15 x cable diameter		Nominal Capacitance:	
				Cond/ Cond:	18pF/ft
				Cond/ Shield:	32pf/ft
	Temperature Range:	-30°C to +70°C		Impedance:	100Ω
	Nominal Voltage:	250V		Transmission rate:	1 Mbit/sec.
	Test Voltage:	1500V		Color Code:	DIN 47100, Chart 7, Page 674 17/3c: Red, Blue, Green/Yellow

Part Number	Conductor Description	Description	Application	Jacket Color	Nominal Outer Diameter		Approx. Weight	
					inches	mm	lbs/mft	kg/km
911284	24/3pr	Bus FD P IBS	Flexing	Green	.311	7.9	43	64
2170218	24/3pr + 17/3c	Bus FD P Combi IBS	Flexing	Violet	.311	7.9	62	92
2170216	24/3pr	Bus FP P IBS- UL/CSA	Flexing	Violet	.311	7.9	43	64
2170818	24/3pr + 17/3c	Bus FD P Combi IBS- UL/CSA	Flexing	Violet	.311	7.9	62	92

### Key to description terms:

P = Polyurethane outer jacket

IBS = Remote bus cable for Interbus

Combi = Remote installation cable for Interbus (bus cable & power supply)

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Lapp is a member of the INTERBUS Club.