



**UNITRONIC® BUS CAN**

LAPP KABEL STUÏTGART UNITRONIC® BUS CAN



**UNITRONIC® BUS CAN FD P**

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**Info**

- CAN = Controller Area Network

**Application range**

**UNITRONIC® BUS CAN**

- Fixed installation

**UNITRONIC® BUS CAN FD P**

- For highly flexible applications

**Product features**

**UNITRONIC® BUS CAN**

- Maximum bit rate: 1 Mbit/s for 40 m segment length
- Larger conductor cross-section is necessary with increasing length. Refer to the table below (reference values from ISO 11898).
- ISO 11898 makes recommendations for the segment length, cable cross section and bit rate
- Flame-retardant according IEC 60332-1-2

**UNITRONIC® BUS CAN FD P**

- Halogen-free outer sheath
- Maximum bit rate: 1 Mbit/s for 40 m segment length
- Larger conductor cross-section is necessary with increasing length. Refer to the table below (reference values from ISO 11898).
- ISO 11898 makes recommendations for the segment length, cable cross section and bit rate
- Flame-retardant according IEC 60332-1-2

**Norm references / Approvals**

- Standardised internationally in ISO 11898
- UL/CSA type CMX (UL 444)

**Product Make-up**

**UNITRONIC® BUS CAN**

- 0.22 + 0.34 + 0.5: bare stranded conductor, 7-wire
- 0.75: bare stranded conductor, fine-wire
- Colour-coded in accordance with DIN 47100
- Copper braid
- PVC sheath
- Colour: violet (RAL 4001)

**UNITRONIC® BUS CAN FD P**

- Stranded bare conductor
- Screening: wrapped with braided copper wires
- PUR outer sheath
- Colour: violet (RAL 4001)
- UV-resistant (but colour may change after some time)

**Suitable connectors**

**UNITRONIC® BUS CAN**

- EPIC® DATA CAN Sub-D Page 362
- EPIC® DATA CAN Sub-D PRO Page 363

**Technical data**

**ETIM** ETIM 5.0 Class-ID: EC000830  
ETIM 5.0 Class-Description: Data cable

**Mutual capacitance**  
**UNITRONIC® BUS CAN** (800 Hz): max. 40 nF/km  
**UNITRONIC® BUS CAN FD P** (800 Hz): max. 60 nF/km

**Peak operating voltage**  
**UNITRONIC® BUS CAN** (not for power applications) 250 V  
**UNITRONIC® BUS CAN FD P** 250 V (not for power transmission)

**Conductor resistance**  
**UNITRONIC® BUS CAN** (loop): max. 186 ohm/km  
**UNITRONIC® BUS CAN FD P** (loop): max. 159.8 ohm/km

**Minimum bending radius**  
**UNITRONIC® BUS CAN** Fixed installation: 8 x outer diameter  
**UNITRONIC® BUS CAN FD P** Flexing: 15 x outer diameter

**Test voltage**  
Core/core: 1500 V rms

**Characteristic impedance**  
120 ohm

**Temperature range**  
**UNITRONIC® BUS CAN** Fixed installation: -30°C to +80°C  
Flexing: -5°C to +70°C  
**UNITRONIC® BUS CAN FD P** Fixed installation: -40°C to +80°C  
Flexing: -30°C to +70°C

Article number	Article designation	Number of pairs/ conductor cross section (mm²)	Outer diameter (mm)	Conductor resistance	Copper index (kg/km)	Weight (kg/km)
<b>for fixed installation</b>						
2170260	UNITRONIC® BUS CAN	1 x 2 x 0,22	5,7	186	16,7	42
2170261	UNITRONIC® BUS CAN	2 x 2 x 0,22	7,6	186	34,8	68
2170263	UNITRONIC® BUS CAN	1 x 2 x 0,34	6,8	115	25	55
2170264	UNITRONIC® BUS CAN	2 x 2 x 0,34	8,5	115	46,4	88
2170266	UNITRONIC® BUS CAN	1 x 2 x 0,5	7,5	78	41,6	90
2170267	UNITRONIC® BUS CAN	2 x 2 x 0,5	9,6	78	59,4	106
2170269	UNITRONIC® BUS CAN	1 x 2 x 0,75	8,7	52	52,7	108
2170270	UNITRONIC® BUS CAN	2 x 2 x 0,75	11,5	52	80,6	142
<b>For highly flexible applications (power chains, moving machine parts)</b>						
2170272	UNITRONIC® BUS CAN FD P	1 x 2 x 0,25	6,4	159,8	24	40
2170273	UNITRONIC® BUS CAN FD P	2 x 2 x 0,25	8,4	159,8	33	65
2170275	UNITRONIC® BUS CAN FD P	1 x 2 x 0,34	6,8	122	32,8	60
2170276	UNITRONIC® BUS CAN FD P	2 x 2 x 0,34	9,6	122	52,4	88
2170278	UNITRONIC® BUS CAN FD P	1 x 2 x 0,5	8	72,8	41,9	74
2170279	UNITRONIC® BUS CAN FD P	2 x 2 x 0,5	10,8	72,8	59,4	100

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

**Accessories**

**UNITRONIC® BUS CAN**

- Multipurpose shears A and B refer to page 998
- SMART STRIP stripping tool
- SENSOR STRIP stripping tool refer to page 1003