


Info

- CAN = Controller Area Network

UNITRONIC® BUS CAN

LAPP KABEL STUTTGART UNITRONIC® BUS CAN



UNITRONIC® BUS CAN FD P

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Technical data

	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
	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
	Characteristic impedance 120 ohm

Application range

UNITRONIC® BUS CAN

- Fixed installation
- 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
 - Maximum bit rate: 1 Mbit/s for 40 m segment length
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 - 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-Bus Connectors Page 317
- EPIC® Data CAN-Bus Connectors (full-metal) Page 318

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

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

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 907
- SMART STRIP stripping tool refer to page 911
- SENSOR STRIP stripping tool refer to page 912

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