



Info

- CAN = Controller Area Network

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. 40 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

LAPP KABEL STUTTGART UNITRONIC® BUS CAN

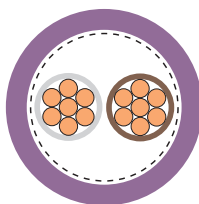
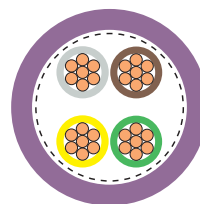
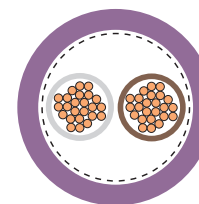
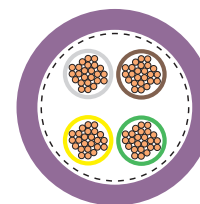
UNITRONIC® BUS CAN

CAN Buscables for fixed installation - UL/SCA certified

UNITRONIC® BUS CAN FD P

CAN Buscables for high flexible application - UL/SCA certified

LAPP KABEL STUTTGART UNITRONIC® BUS CAN FD P

2170260/2170263/
21702662170261/2170264/
21702672170269/2170272/
21702752170270/2170273/
2170276

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
 - 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
 - Core insulation: foam skin
 - Colour-coded in accordance with DIN 47100
 - Copper braid
 - Outer sheath: PVC, violet (RAL 4001)
- UNITRONIC® BUS CAN FD P**
 - Stranded bare conductor
 - Core insulation: foam skin
 - Copper braid
 - Outer sheath: PUR, violet (RAL 4001)
 - UV-resistant (but colour may change after some time)

Article number	Article designation	Number of pairs/conductor cross section (mm ²)	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	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
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	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	10.1	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 / 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 and graphics are not to scale and do not represent detailed images of the respective products.

Accessories

- Multipurpose shears A and B
- SMART STRIP stripping tool
- SENSOR STRIP stripping tool refer to page 961