



UNITRONIC® BUS CAN

CAN Buscables for fixed installation - UL/SCA certified

Info

- CAN = Controller Area Network



UNITRONIC® BUS CAN FD P

CAN Buscables for high flexible application - UL/SCA certified



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
UNITRONIC® BUS CAN
(800 Hz) max. 40 nF/km
UNITRONIC® BUS CAN FD P
Flexible use: 10 x outer diameter

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 Ω/km
UNITRONIC® BUS CAN FD P
(loop): max. 159.8 Ω/km

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

Test voltage
Core/core: 1500 V rms

Characteristic impedance
120 Ω

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

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
 - Screening: wrapped with braided copper wires
 - 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 | 10.8 | 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
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 987