

## UNITRONIC® DeviceNet THICK + THIN



### Application range

- Stationary application
- DeviceNet™ connects industrial devices e. g. limit switches, photoelectric switches, variable frequency drives, valve islands, motor starters, PLCs, etc.

### Product features

- Oil resistant (except the ECO variant)
- Based on proven CAN (Controller Area Network) technology.
- Permissible cable lengths vary with the data rate and the cable thickness
- Further details: see Data Sheet

### Approvals (Norm references)



- CMG UL/CSA approval 75°C or PLTC, Sun Res
- FRNC variant with Germanischer Lloyd approval

### Design

- A) Halogen-free (2170340 + 2170341)
- B) Polyvinylchloride (PVC) (2170342 + 2170343, 2170362 + 2170363)

### Technical data

- Core identification code**  
Data pair: light blue + white  
Power supply: red + black
- Mutual capacitance**  
(800 Hz): max. 39.8 nF/km
- Peak working voltage**  
(not for power applications) 300 V
- Conductor resistance**  
Thick (loop): max. 45 Ohm/km  
Thin (loop): max. 180 Ohm/km
- Minimum bending radius**  
Fixed installation: 15 x cable diameter
- Test voltage**  
Core/core: 2000 V
- Range of temperature**  
Fixed installation: -25°C up to +80°C
- Characteristic impedance**  
120 ohms

| Part number   | Article designation           | Number of pairs and AWG size | Outer diameter mm | Copper index kg/km approx. | Weight kg/m |
|---|-------------------------------|------------------------------|-------------------|----------------------------|-------------|
| <b>Halogen free</b>   |                               |                              |                   |                            |             |
| 2170340   | UNITRONIC® BUS DN THICK FRNC  | 1x2xAWG18 + 1x2xAWG15        | 12.2              | 82.0                       | 195.0       |
| 2170341   | UNITRONIC® BUS DN THIN FRNC   | 1x2xAWG24 + 1x2xAWG22        | 6.9               | 28.7                       | 69.5        |
| <b>With PVC outer sheath</b>                                  |                               |                              |                   |                            |             |
| 2170342   | UNITRONIC® BUS DN THICK Y     | 1x2xAWG18 + 1x2xAWG15        | 12.2              | 82.0                       | 192.0       |
| 2170343   | UNITRONIC® BUS DN THIN Y      | 1x2xAWG24 + 1x2xAWG22        | 6.9               | 28.7                       | 66.9        |
| <b>Lower cost variant of PVC versions / not oil resistant</b> |                               |                              |                   |                            |             |
| 2170362   | UNITRONIC® BUS DN THICK Y ECO | 1x2xAWG18 + 1x2xAWG15        | 11.0              | 82.3                       | 164.0       |
| 2170363   | UNITRONIC® DN THIN Y ECO      | 1x2xAWG24 + 1x2xAWG22        | 6.4               | 28.7                       | 61.0        |

Copper price basis: EUR 150 / 100 kg; For utilization and definition of ‚Metal price basis‘ and ‚Metal index‘ see Appendix T17  
 Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
 FRNC means Flame Retardant Non Corrosive DeviceNet and is a registered trademark of ODVA (USA)  
 LAPPKABEL is a member of the PROFIBUS user organisation (PNO)  
 ECO is the cost-efficient version of part no. 2170342 and 2170343 with slight modification of the outer jacket including the UL/CSA CMG-approval