

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
Halogen free					
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
With PVC outer sheath					
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
Lower cost variant of PVC versions / not oil resistant					
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
 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