

## Product Description



## Cable Make-up

### Versions

- a) Halogen-free  
(2170340 + 2170341)
- b) Polyvinylchloride (PVC)  
(2170342 + 2170343, 2170362 + 2170363)

### Approvals

- halogen free: UL/CSA approved (CMG)
- PVC: UL/CSA approved (CMG)
- Further details: see Data Sheet (on request)

## Application

DeviceNet connects industrial devices e. g. limit switches, photoelectric switches, variable frequency drives, valve islands, motor starters, PLCs, etc.. Based on proven CAN (Controller Area Network) technology.

Permissible cable lengths vary with the data rate and the cable thickness:

### THICK cable

- Main cable total
- 125 kbit/s 500 m
- 250 kbit/s 250m
- 500 kbit/s 100 m

### THIN cable

- Main cable total
- 125 kbit/s 100m
- 250 kbit/s 100m
- 500 kbit/s 100 m

### Max. drop length:

- 6m each, all data rates
- Cumulative drop length
- 125 kbit/s 156m
- 250 kbit/s 78m
- 500 kbit/s 39m



**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: -20°C to +80°C

**Characteristic impedance**

120 ohms

**Article List**

Part number	Part designation / size	Number of pairs and AWG size	Outer diameter mm	Copper weight: kg/km ca.	Weight kg/m
Halogen free with Germanischer Lloyd (GL) Type Approval Certificate					
2170340	UNITRONIC® DeviceNet THICK FRNC UL/CSA (CMG)	1x2xAWG18 + 1x2xAWG15	12,2	82	195
2170341	UNITRONIC® DeviceNet THIN FRNC UL/CSA (CMG)	1x2xAWG24 + 1x2xAWG22	6,9	28,7	69,5
with PVC outer sheath					
2170342	UNITRONIC® DeviceNet THICK PVC UL/CSA (CMG)	1x2xAWG18 + 1x2xAWG15	12,2	82	192
2170343	UNITRONIC® DeviceNet THIN PVC UL/CSA (CMG)	1x2xAWG24 + 1x2xAWG22	6,9	28,7	66,9
Lower cost variant of PVC versions					
2170362	UNITRONIC® DeviceNet ECO THICK PVC UL/CSA (CMG)	1x2xAWG18 + 1x2xAWG15	12,2	82,3	192



2170363	UNITRONIC® DeviceNet ECO THIN PVC UL/CSA (CMG)	1x2xAWG24 + 1x2xAWG22	6,9	28,7	66,9
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