

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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