UNITRONIC® DeviceNet FD THICK+THIN

High flexible DeviceNet Buscable based on the CAN technology

DeviceNet connects sensors, drives and PLCs. Based on technology. UL/CSA-approved. Temperature range from -40 °C bis +80 °C





Supplementary automation components from Lapp

Mechanical and plant engineering

Flame-retardant

Halogen-free

Power chain

UV-resistant

Application range

For highly flexible applications
DeviceNet™ connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drives, PLCs, etc.

Product features

Based on proven CAN (Controller Area Network) technology.
Permissible cable lengths vary with the data rate and the cable thickness
Refer to data sheet for more details
PUR (P) Version: Halogene free
PVC (Y) Version: Flame retardant (UL FT4)
UV-resistant (but colour may change after some time)

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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Norm references / Approvals

PUR: UL/CSA-certified (CMX)
PVC: UL/CSA CMG 75°C FT4 Sun Res Oil Res, at 2170346 also PLTC

Product Make-up

Core insulation: PE
Outer sheath of Polyurethan (PUR) or Polyvinylchlorid (PVC)

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Core identification code:	Data pair: light blue + white Power supply: red + black
Mutual capacitance:	(800 Hz): max. 39.8 nF/km
Peak operating voltage:	300 V (not for power applications)
Conductor resistance:	Thick (loop): max. 45 ohm/km Thin (loop): max. 180 ohm/km
Minimum bending radius:	Fixed installation: 7.5 x outer diameter Flexing: 15 x outer diameter
Test voltage:	Core/core: 2000 V
Characteristic impedance:	120 ohm
Temperature range:	PUR: -40°C to +80°C PVC: -10°C to +80°C

Note

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
DeviceNet is a registered trademark of ODVA
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PRODUCT INFORMATION

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Article number	Article designation	Number of pairs and AWG size	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
PUR					
2170344	UNITRONIC® BUS DN THICK FD P	1x2xAWG18 + 1x2xAWG15	12.2	94	184
2170345	UNITRONIC® BUS DN THIN FD P	1x2xAWG24 + 1x2xAWG22	6.9	33.4	67.7
PVC					
2170346	UNITRONIC® BUS DN THICK FD Y	1x2xAWG18 + 1x2xAWG15	12.2	94	195
2170347	UNITRONIC® BUS DN THIN FD Y	1x2xAWG24 + 1x 2xAWG22	6.9	33.4	69.8

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