

U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® DeviceNet FD THICK+THIN	29.11.2013

Highly flexible and UL/CSA-approved



Automation



Flame-retardant



Halogen-free



Industrial machinery and plant engineering



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.

Design

Core insulation: PE

Outer sheath of Polyurethan (PUR) or Polyvinylchlorid (PVC)

Norm references / Approvals

PUR: UL/CSA-approved (CMX)

PVC: UL/CSA CMG 75 °C FT4 Sun Res Oil Res, at 2170346 also PLTC

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 freePVC (Y) Version: Flame retardant (UL FT4)

UV-resistant (but colour may change after some time)

Product Management	Document: LAPP_PRO283EN.pdf	1 / 3
--------------------	-----------------------------	-------

U.I. Lapp GmbH	PRODUCT INFORMATION	
	UNITRONIC® DeviceNet FD THICK+THIN	29.11.2013

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. 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

Photographs are not to scale and do not represent detailed images of the respective products.

Technical Data

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 cable diameter Flexing: 15 x outer diameter
Test voltage:	Core/core: 2000 V
Temperature range:	PUR: -40°C to +80°C PVC: -10°C to +80°C
Characteristic impedance:	120 ohm

Product Management	Document: LAPP_PRO283EN.pdf	2 / 3
--------------------	-----------------------------	-------



UNITRONIC® DeviceNet FD THICK+THIN

29.11.2013

Part number	Article designation	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/m)
Version P (PUR)					
2170344	UNITRONIC® BUS DN THICK FD P	1x2xAWG18 + 1x2xAWG15	12.2	94.0	184
2170345	UNITRONIC® BUS DN THIN FD P	1x2xAWG24 + 1x2xAWG22	6.9	33.4	67.7
Version Y (PVC)					
2170346	UNITRONIC® BUS DN THICK FD Y	1x2xAWG18 + 1x2xAWG15	12.2	94.0	195
2170347	UNITRONIC® BUS DN THIN FD Y	1x2xAWG24 + 1x 2xAWG22	6.9	33.4	69.8