UNITRONIC® DeviceNet THICK + THIN

DeviceNet Buscable based on the CAN technology

DeviceNet connects sensors, drives and PLCs. Based on technology. Germanischer Lloyd and UL/CSA-approved. Temperature range from -25°C bis +80°C

Supplementary automation components from Lapp

Mechanical and plant engineering

Flame-retardant

Halogen-free

UV-resistant

Application range
Fixed Installation
DeviceNet™ connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drives, PLCs, etc.

Product features
Resistant to oils
Based on proven CAN (Controller Area Network) technology.
Permissible cable lengths vary with the data rate and the cable thickness
FRNC Version: Halogene free and flame retardant
Refer to data sheet for more details

Norm references / Approvals
CMG UL/CSA certification 75°C or PLTC, Sun Res
FRNC variant additionally with

Last Update (06.01.2025)

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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

UNITRONIC® DeviceNet THICK + THIN

DNV GL certification
DNV GL certificate no. TAE00001JE

Product Make-up
Tinned copper wire
Core insulation: foam skin
Tinned-copper braiding with drain wire
Outer sheath: FRNC or 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: 15 x outer diameter
Test voltage:	Core/core: 2000 V
Characteristic impedance:	120 ohm
Temperature range:	Fixed installation: -25°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
FRNC means Flame-Retardant, Non-Corrosive; and DeviceNet is a registered trademark of ODVA.
Lapp Kabel is a member of the PROFIBUS user organisation (PNO)
ECO is the cost-efficient version of article no. 2170342 and 2170343, with a slight modification to the outer sheath and UL/CSA-approved (CMG).
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

Article number	Article designation	Number of pairs and AWG size	Outer diameter [mm]	Copper index [kg/km]	Weight [kg/km]
Halogen-free					
2170340	UNITRONIC® BUS DN THICK FRNC	1x2xAWG18 + 1x2xAWG15	12.2	82.8	195
2170341	UNITRONIC® BUS DN THIN FRNC	1x2xAWG24 + 1x2xAWG22	6.9	33.4	69.5
PVC					
2170342	UNITRONIC® BUS DN THICK Y	1x2xAWG18 + 1x2xAWG15	12.2	88.4	192
2170343	UNITRONIC® BUS DN THIN Y	1x2xAWG24 + 1x2xAWG22	6.9	33.4	66.9