FL CAT5 FLEX - Installation cable

2744830

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By the meter, Installation cable, Ethernet CAT5 (100 Mbps), shielded, PUR halogen-free, water blue RAL 5021, 4-wire (2x2xAWG26/7, SF/UTP), color single wire: white/orange-orange, white/green-green, cable length: Free entry (1.0 ... 1000.0 m)

Commercial data

Item number	2744830
Packing unit	1 m
Minimum order quantity	1 m
Note	Made to order (non-returnable)
Sales key	BF04
Product key	AF1LEA
GTIN	4017918600501
Weight per piece (including packing)	40.24 g
Weight per piece (excluding packing)	40.24 g
Customs tariff number	85444993
Country of origin	DE

Technical data

Product properties

Product type	Data cable by the meter
Number of positions	4

Electrical properties

Nominal voltage U_N	48 V AC
Transmission medium	Copper
Transmission speed	100 Mbps

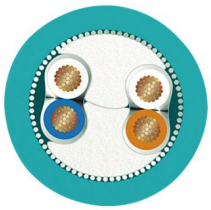
Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps

Cable/line

Cable length	Free entry (1.0 ... 1000.0 m)

Ethernet [93E]

Dimensional drawing	
Cable weight	43 kg/km
Number of positions	4
Shielded	yes
Cable type	Ethernet [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
Signal runtime	4.3 ns/m
Signal speed	0.77 c
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	2x 2x 0.14 mm²
Wire diameter incl. insulation	1 mm -0.2 mm
External cable diameter	5.75 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foam-Skin PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair

Overall twist	Two pairs with two fillers to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 284 Ω/km
Insulation resistance	≥ 5 GΩ*km
Coupling resistance	≤ 5.00 mΩ/m (at 20 MHz)
Wave impedance	100 Ω ±15 % (at 1 ... 100 MHz)
Cable capacity	nom. 48 nF/km (At 800 Hz)
Nominal voltage, cable	50 V_{rms}
	125 V (Peak value, not for high-power applications)
Test voltage Core/Core	1000 V_{rms}
Test voltage Core/Shield	500.00 V_{rms}
Smallest bending radius, fixed installation	30 mm (cable, fixed installation)
Smallest bending radius, movable installation	78 mm (Cable, flexible installation)
Tensile strength	≤ 50 N (temporary)
	≤ 10 N (Permanent)
Near end crosstalk attenuation (NEXT)	66 dB/m (with 1 MHz)
	57 dB/m (at 4 MHz)
	52 dB/m (at 10 MHz)
	50 dB/m (at 16 MHz)
	47 dB/m (at 20 MHz)
	45 dB/m (at 31.25 MHz)
	40 dB/m (at 62.5 MHz)
	36 dB/m (at 100 MHz)
Crosstalk attenuation (ACR)	6.57 dB/m (with 1 MHz)
	5.64 dB/m (at 4 MHz)
	5.12 dB/m (at 10 MHz)
	4.89 dB/m (at 16 MHz)
	4.57 dB/m (at 20 MHz)
	4.34 dB/m (at 31.25 MHz)
	3.77 dB/m (at 62.5 MHz)
	3.31 dB/m (at 100 MHz)
Shield attenuation	0.028 dB/m (with 1 MHz)
	0.06 dB/m (at 4 MHz)
	0.085 dB/m (at 10 MHz)
	0.115 dB/m (at 16 MHz)
	0.128 dB/m (at 20 MHz)
	0.162 dB/m (at 31.25 MHz)
	0.23 dB/m (at 62.5 MHz)
	0.29 dB/m (at 100 MHz)
Flame resistance	according to VDE 0482 Part 265-2-1
	according to IEC 332-1
Ambient temperature (operation)	-30 °C ... 80 °C (cable, fixed installation)
Ambient temperature (installation)	-5 °C ... 60 °C

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2744830

EAC-RoHS
Approval ID: RU D-DE.HB35.B.00395

Classifications

ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

ETIM

ETIM 10.0	EC003249

UNSPSC

UNSPSC 21.0	26121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	0.214 kg CO2e

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