FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.

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	BF1
Product Key	BF1CJI
Catalog Page	Page 390 (C-8-2015)
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
Sensor type	Ethernet

Electrical properties

Nominal voltage U_N	48 V AC
Transmission medium	Copper
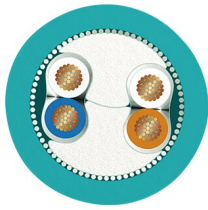
Interfaces

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

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

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 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

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

FL CAT5 FLEX - Installation cable

Classifications

ECLASS

ECLASS-11.0	27061801
ECLASS-12.0	27061801
ECLASS-13.0	27061801

ETIM

ETIM 8.0	EC003249

UNSPSC

UNSPSC 21.0	26121600

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

Accessories

FL PLUG RJ45 GR/2 - RJ45 connector

2744856

https://www.phoenixcontact.com/in/products/2744856

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

FL PLUG RJ45 GN/2 - RJ45 connector

2744571

https://www.phoenixcontact.com/in/products/2744571

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

FL CAT5 FLEX - Installation cable

FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/in/products/2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site

FL-PP-RJ45-SCC - Patch panels

2901642

https://www.phoenixcontact.com/in/products/2901642

Patch panel, one RJ45 jack to 8 spring-force connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

FL CAT5 FLEX - Installation cable

FL-PP-RJ45-SC - Patch panels

2901643

https://www.phoenixcontact.com/in/products/2901643

Patch panel, one RJ45 jack to 8 screw connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

FL-PP-RJ45-LSA - Patch panels

2901645

https://www.phoenixcontact.com/in/products/2901645

Patch panel, one RJ45 jack to 8 LSA connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via bridges

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

FL-PP-RJ45/RJ45 - Patch panels

2901646

https://www.phoenixcontact.com/in/products/2901646

Patch panel, two RJ45 jacks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

FL ISOLATOR 100-RJ/RJ - Network isolator

2313931

https://www.phoenixcontact.com/in/products/2313931

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Possible to connect two RJ45 plugs.

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

FL ISOLATOR 100-RJ/SC - Network isolator

2313928

https://www.phoenixcontact.com/in/products/2313928

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Connection using RJ45 and COMBICON plug-in screw terminal block.

FL ISOLATOR 1000-RJ/RJ - Network isolator

2313915

https://www.phoenixcontact.com/in/products/2313915

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 1 Gbps. Possible to connect two RJ45 plugs.
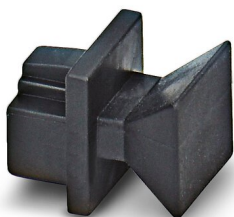
FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

FL RJ45 PROTECT CAP - Dust protection

2832991

https://www.phoenixcontact.com/in/products/2832991

Dust protection caps for RJ45 socket

FL CAT5 HEAVY CONF/ - Network cable

2744827

https://www.phoenixcontact.com/in/products/2744827

CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm^2, solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

FL CAT5 HEAVY - Data cable

2744814

https://www.phoenixcontact.com/in/products/2744814

CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm^2, solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter

FL CAT5 FLEX CONF/ - Network cable

2744843

https://www.phoenixcontact.com/in/products/2744843

CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm^2, stranded, shielded, outer sheath: 5.75 mm ± 0.15 mm diameter, preassembled on both sides with RJ45 plug, crossover or line assignment

FL CAT5 FLEX - Installation cable

2744830

https://www.phoenixcontact.com/in/products/2744830

FL CAT5 TERMINAL BOX - Patch panels

2744610

https://www.phoenixcontact.com/in/products/2744610

Patch panel, one RJ45 jack to 4 screw connection terminal blocks (assignment 1, 2, 3, 6), CAT5e, 10/100 Mbps, DIN rail adapter, IP20, shield contacting on DIN rail