

FL MC 1000 SC - FO converters



2891320

<https://www.phoenixcontact.com/in/products/2891320>

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FO converter with SC duplex fiber optic connection (1300 nm), for converting 100Base-TX to multi-mode fiberglass. Auto MDI(X) function and comprehensive link diagnostics. DIN rail mountable.

Product Description

The FL MC 1000 SC media converter comes with one 10/100 Mbps twisted-pair RJ45 port and one 100 Mbps multimode fiber port with an SC-duplex connector

Your advantages

- Auto MDI/MDI-X switch-over
- Data transfer rates of 100 Mbps
- Link fault pass through (LFPT) function for easy connection monitoring

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2891320 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | DNC |
| Product Key | DNC312 |
| Catalog Page | Page 352 (C-6-2019) |
| GTIN | 4046356869614 |
| Weight per Piece (including packing) | 278.8 g |
| Weight per Piece (excluding packing) | 278.8 g |
| Customs tariff number | 85176200 |
| Country of origin | TW |

Technical Data

Product properties

| | |
|--------------|--|
| Product type | Media converter |
| MTTF | 95.85 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| Signal delay | ± 1.3 µs (Store and Forward mode, 10/100 Mbps, depending on the frame size) |

Electrical properties

| | |
|--|--------------------------------|
| Electrical isolation | VCC // FE // Ethernet |
| Test voltage data interface/power supply | 1500 V AC (500 V AC, 1 minute) |

Supply

| | |
|-----------------------------|---------------------------------------|
| Supply voltage range | 12 V DC ... 48 V DC |
| Nominal supply voltage | 24 V DC |
| Typical current consumption | 73 mA (24 V DC) |
| Connection method | Plug-in/screw connection via COMBICON |

Connection data

Supply

| | |
|---|---|
| Connection method | Plug-in/screw connection via COMBICON |
| Conductor cross section, flexible | 0.20 mm ² ... 2.50 mm ² |
| Conductor cross section, rigid | 0.20 mm ² ... 2.50 mm ² |
| Conductor cross section, flexible [AWG] | 24 ... 12 |
| Conductor cross section AWG | 24 ... 12 |
| Tightening torque | 5 Nm ... 7 Nm |

Interfaces

| | |
|--------|----------|
| Signal | Ethernet |
|--------|----------|

Data: optical FO

| | |
|---|--|
| Transmit capacity, minimum | -19 dBm |
| Transmit capacity, maximum | -14 dBm |
| Transmission length incl. 3 dB system reserve | 8 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000) |
| | 3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600) |
| | 9.6 km (fiberglass with F-G 50/125 0.7 dB/km F1200) |
| | 5.3 km (fiberglass with F-G 50/125 1.6 dB/km F800) |
| Connection method | SC duplex |
| Wavelength | 1310 nm |
| Minimum receiver sensitivity | -34 dBm |
| Maximum receiver sensitivity | -14 dBm |
| Transmission medium | Multi-mode fiberglass |
| | GI-HCS fiber |

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2891320

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Data: Ethernet interface, 100Base-Tx in acc. with IEEE 802.3u

| | |
|---------------------------|--------------------------------|
| Serial transmission speed | 10/100 Mbps |
| Connection method | RJ45 jack, shielded |
| No. of channels | 1 |
| Transmission length | 100 m (twisted pair, shielded) |
| Transmission medium | Copper |
| Signal LEDs | LNK/ACT, 100 |
| Auto-negotiation modes | Auto |
| Link through | Link fault pass through |
| MDI-/MDI-X switchover | Auto-MDI(X) |

Dimensions

| | |
|--------|--------|
| Width | 28 mm |
| Height | 110 mm |
| Depth | 70 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---|-------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | 0 °C ... 60 °C |
| Ambient temperature (storage/transport) | 0 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |

Approvals

Conformity/Approvals

| | |
|------------------|------------------------------------|
| Conformance | CE-compliant |
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D |

EMC data

| | |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
|-------------------------------|---|

Mounting

| | |
|-------------------|--|
| Mounting type | DIN rail: 35 mm |
| Mounting position | On horizontal DIN rail NS 35 in acc. with EN 60715 |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 19170411 |
| ECLASS-12.0 | 19170411 |
| ECLASS-13.0 | 19170411 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC001467 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43201500 |
|-------------|----------|

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Environmental Product Compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 10; |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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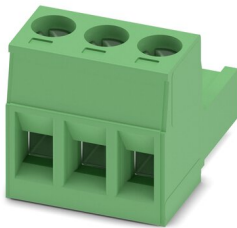
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Accessories

MSTB 2,5/ 3-ST - PCB connector

1754465

<https://www.phoenixcontact.com/in/products/1754465>



PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MSTB 2,5/..-ST, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

DT-LAN-CAT.6+ - Surge protection device

2881007

<https://www.phoenixcontact.com/in/products/2881007>



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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E/NS 35 N - End clamp

0800886

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End clamp, width: 9.5 mm, color: gray

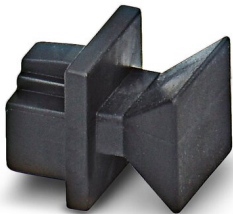


FL RJ45 PROTECT CAP - Dust protection

2832991

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Dust protection caps for RJ45 socket



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FL CAT5 PATCH 0,5 - Patch cable

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Patch cable, CAT5, assembled, 0.5 m



FL CAT5 PATCH 1,0 - Patch cable

2832276

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Patch cable, CAT5, assembled, 1 m



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FL CAT5 PATCH 2,0 - Patch cable

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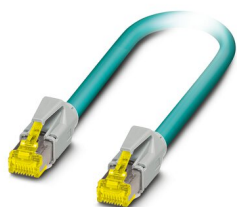


Patch cable, CAT5, assembled, 2 m

NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

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Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, cable outlet: straight, Ethernet

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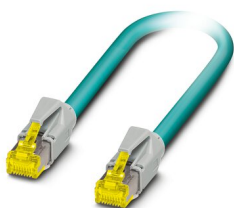
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NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable

1408360

<https://www.phoenixcontact.com/in/products/1408360>

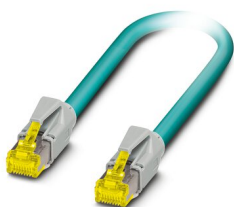


Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/in/products/1408365>



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

<https://www.phoenixcontact.com/in/products/1408968>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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NBC-R4AC/5,0-93B/R4AC - Patch cable

1408970

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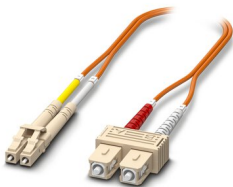


Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

FOC-LC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115607

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Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 1 m

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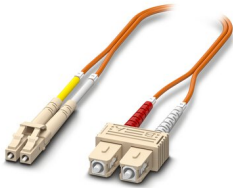
<https://www.phoenixcontact.com/in/products/2891320>

FOC-LC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115605

<https://www.phoenixcontact.com/in/products/1115605>

Multi-mode OM2 duplex jumper, LC-SC, UPC polishing, length 2 m

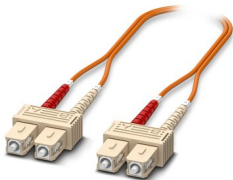


FOC-SC:PA-SC:PA-OM2:D01/1 - FO patch cable

1115536

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Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 1 m



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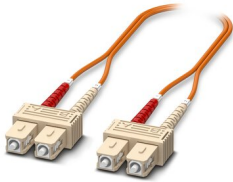
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FOC-SC:PA-SC:PA-OM2:D01/2 - FO patch cable

1115535

<https://www.phoenixcontact.com/in/products/1115535>

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 2 m

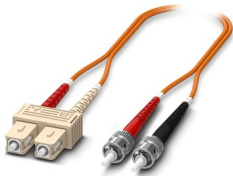


FOC-ST:PA-SC:PA-OM2:D01/1 - FO patch cable

1115574

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Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m



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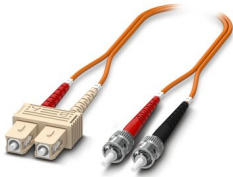


FOC-ST:PA-SC:PA-OM2:D01/2 - FO patch cable

1115573

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Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m

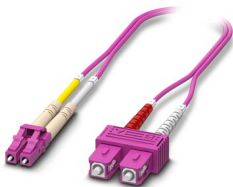


FOC-LC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115601

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Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m



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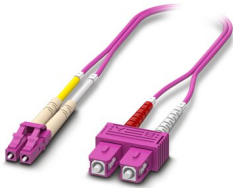


FOC-LC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115600

<https://www.phoenixcontact.com/in/products/1115600>

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m

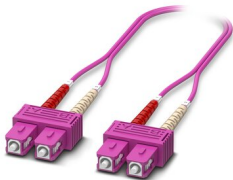


FOC-SC:PA-SC:PA-OM4:D01/1 - FO patch cable

1115424

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Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 1 m



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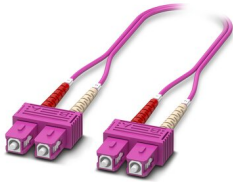


FOC-SC:PA-SC:PA-OM4:D01/2 - FO patch cable

1115423

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Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 2 m



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