

# MC 1000T-MM ST - FO converters



1330244

<https://www.phoenixcontact.com/us/products/1330244>

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Fiber optic converter with ST (B-FOC) connection (1310 nm) for 100Base-TX to multimode fiber optics, DIN rail mountable, extended temperature range, redundant power supply.

## Product description

The MC 1000T-MM ST media converter comes with one 10/100 Mbps twisted-pair RJ45 port and one 100 Mbps multimode fiber optics port with an ST (B-FOC) connector and wide temperature range.

## 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                          | 1330244       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN06          |
| Product key                          | DNC314        |
| GTIN                                 | 4063151626716 |
| Weight per piece (including packing) | 264 g         |
| Weight per piece (excluding packing) | 180 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | CA            |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

|                |  |
|----------------|--|
| Product type   | Media converter  |
| Product family | MC 1000T   |
| MTTF           | 68.5 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)                                |
|                | 508.3 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                     |
|                | 551.7 Years (Telcordia standard, temperature 25 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |

### Electrical properties

#### Supply

|                             |                         |
|-----------------------------|-------------------------|
| Supply voltage range        | 12 V DC ... 57 V DC     |
| Nominal supply voltage      | 24 V DC                 |
|                             | 48 V DC                 |
| Typical current consumption | 20 mA (24 V DC)         |
| Max. current consumption    | 170 mA (12 V DC, 75 °C) |

### Output data

#### Signal

|                       |  |
|-----------------------|--|
| Voltage output signal | 12 V DC ... 48 V DC (depending on the input voltage) |
| Current output signal | 100 mA   |

### Connection data

#### Supply

|   |                           |
|---|---------------------------|
| Connection method                       | Push-in spring connection |
| Single conductor/terminal point, rigid  | 0.2 mm² ... 2.5 mm²       |
| Single-wire/terminal point, flexible    | 0.2 mm² ... 2.5 mm²       |
| Conductor cross-section, flexible [AWG] | 24 ... 12                 |
| Stripping length                        | 10.00 mm                  |

### Interfaces

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

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## Data: optical FO

|   |   |
|---|---|
| Transmit capacity, minimum                    | -20 dBm (62.5/125 µm, multimode fiberglass) |
|   | -23.5 dBm (50/125 µm, multimode fiberglass) |
| Transmit capacity, maximum                    | -14 dBm                                     |
| Transmission length incl. 3 dB system reserve | 2 km  |
| Connection method                             | B-FOC (ST)                                  |
| Wavelength                                    | 1310 nm                                     |
| Minimum receiver sensitivity                  | -32 dBm                                     |
| Maximum receiver sensitivity                  | -8 dBm                                      |
| Transmission medium                           | Multi-mode fiberglass                       |

## Data: Ethernet interface, 100Base-T(X) in accordance with IEEE 802.3

|                        |                                |
|------------------------|--------------------------------|
| 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, SPD, Err, US, US2     |
| Auto-negotiation modes | Auto                           |
| Link through           | Link fault pass through        |
| MDI-/MDI-X switchover  | Auto-MDI(X)                    |

## Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 125 mm  |
| Depth  | 90 mm   |

## Material specifications

|                  |                             |
|------------------|-----------------------------|
| Housing material | Polyamide fiber reinforced  |
|                  | Aluminum / steel sheet DC01 |

## Cable/line

### FO cable

|             |             |
|-------------|-------------|
| Fiber types | 50/125 µm   |
|             | 62.5/125 µm |
|             | Fiberglass  |

## Mechanical tests

|  |                                    |
|--|------------------------------------|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : 5g, 150 Hz, Criterion 3          |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | : 30g, 11 ms half-sine shock pulse |

## Environmental and real-life conditions

### Ambient conditions

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|   |  |
|---|--|
| Degree of protection                    | IP30                                       |
| Ambient temperature (operation)         | -40 °C ... 75 °C                           |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                           |
| Altitude                                | ≤ 2000 m (in acc. with UL)                 |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing)             |
| Shock                                   | 300 m/s <sup>2</sup> , 11 ms (IEC 60068-2) |

## Approvals

CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

UL, USA/Canada

|                |  |
|----------------|--|
| Identification | Class I, Division 2, Groups A, B, C, and D, T4 |
|----------------|--|

## EMC data

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

Electrostatic discharge

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

Electrostatic discharge

|          |             |
|----------|-------------|
| Comments | Criterion B |
|----------|-------------|

Electromagnetic HF field

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

Electromagnetic HF field

|          |             |
|----------|-------------|
| Comments | Criterion A |
|----------|-------------|

Fast transients (burst)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

Fast transients (burst)

|          |             |
|----------|-------------|
| Comments | Criterion A |
|----------|-------------|

Surge current load (surge)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

Surge current load (surge)

|          |             |
|----------|-------------|
| Comments | Criterion B |
|----------|-------------|

Conducted interference

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

Conducted interference

|          |             |
|----------|-------------|
| Comments | Criterion A |
|----------|-------------|

Emitted interference

|                       |          |
|-----------------------|----------|
| Standards/regulations | EN 55032 |
|-----------------------|----------|

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## Mounting

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


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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1330244>



**cULus Listed**

Approval ID: E238705

**BSH**

Approval ID: BSH Nr. 1176



**cULus Listed**

Approval ID: E196811

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170411 |
| ECLASS-15.0 | 19170411 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001467 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43223323 |
|-------------|----------|

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## 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%               |



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## Accessories

### FKCT 2,5/ 3-ST KMGY - PCB connector

1998263

<https://www.phoenixcontact.com/us/products/1998263>



PCB connector, nominal cross section: 2.5 mm<sup>2</sup>, color: light gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FKCT 2,5/...-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBICON MSTB 2,5, locking: without, mounting method: without, type of packaging: packed in cardboard

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

2881007

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



Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, DS1. Suitable for Power over Ethernet (PoE++/4PPoE) "Mode A" and "Mode B". RJ45 intermediate plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails. Products with similar requirements: DT-LAN-CAT.6A (2908726) und D-LAN-CAT.5-HC (2800763).

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## FL DIN-RAIL ADAPTER 22.5 - Mounting panel

1085485

<https://www.phoenixcontact.com/us/products/1085485>



The FL DIN-RAIL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

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## FL PANEL ADAPTER 22.5 - Mounting panel

1085488

<https://www.phoenixcontact.com/us/products/1085488>



The FL PANEL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a panel, in any orientation.

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<https://www.phoenixcontact.com/us/products/1330244>

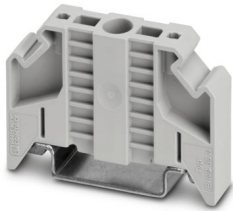


## E/NS 35 N - End bracket

0800886

<https://www.phoenixcontact.com/us/products/0800886>

End clamp, width: 9.5 mm, color: gray



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## FL CAT5 PATCH 0,5 - Patch cable

2832263

<https://www.phoenixcontact.com/us/products/2832263>

Patch cable, CAT5, assembled, 0.5 m



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<https://www.phoenixcontact.com/us/products/1330244>



## FL CAT5 PATCH 1,0 - Patch cable

2832276

<https://www.phoenixcontact.com/us/products/2832276>



Patch cable, CAT5, assembled, 1 m

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## FL CAT5 PATCH 2,0 - Patch cable

2832289

<https://www.phoenixcontact.com/us/products/2832289>



Patch cable, CAT5, assembled, 2 m

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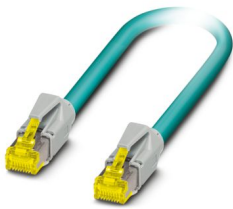
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<https://www.phoenixcontact.com/us/products/1330244>

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

1411854

<https://www.phoenixcontact.com/us/products/1411854>



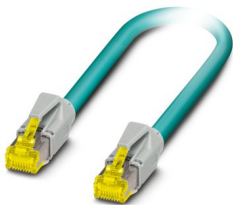
Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, cable outlet: straight, Ethernet

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

1408360

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



Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

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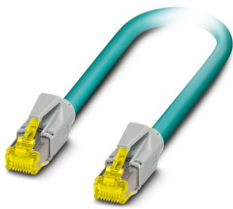
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<https://www.phoenixcontact.com/us/products/1330244>

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

1408365

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



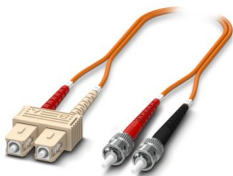
Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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

1115574

<https://www.phoenixcontact.com/us/products/1115574>



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

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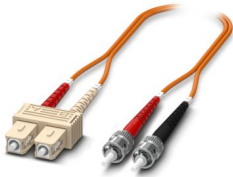
<https://www.phoenixcontact.com/us/products/1330244>

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

1115573

<https://www.phoenixcontact.com/us/products/1115573>

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



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

1115560

<https://www.phoenixcontact.com/us/products/1115560>

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



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

1115557

<https://www.phoenixcontact.com/us/products/1115557>

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



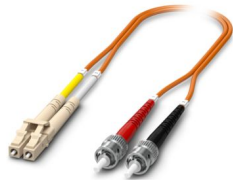
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## FOC-LC:PA-ST:PA-OM2:D01/1 - Fiber optic cable

1115588

<https://www.phoenixcontact.com/us/products/1115588>

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





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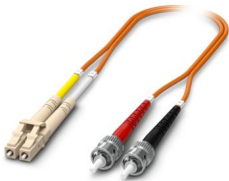


## FOC-LC:PA-ST:PA-OM2:D01/2 - Fiber optic cable

1115587

<https://www.phoenixcontact.com/us/products/1115587>

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



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## SZS 0,4X2,0 - Screwdriver

1205202

<https://www.phoenixcontact.com/us/products/1205202>

Micro screwdriver, bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip and twist cap



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## FL DIN RA - DIN rail adapter

2891053

<https://www.phoenixcontact.com/us/products/2891053>

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.



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