



## opticalCON MTP® 48 Cable

Assembled, rugged and lightweight 48-channel mobile field cable, excellent cable retention due to aramid yarn, black PUR outer jacket, available in multi mode (PC).

Cable O.D.: 8.0 mm



The opticalCON MTP® cable connector accommodates 48 optical fibers (multi mode PC) based on conventional and proven MTP® connectivity protected by a ruggedized and durable all-metal housing. It features a spring loaded push-pull locking mechanism and an excellent cable retention utilizing aramid yarn. The optical connection is exceptional well protected against dirt and dust by an automatically operated sealing cover.

The cable connector comes pre-assembled and is not available as a single component. The cable is available in different lengths and is packed either in a case, on drum or airspool.

### Features & Benefits

- Ruggedized and dirt-protected 48-channel fiber optic connection system
- Cable connector features rugged metal housing and heavy-duty cable retention
- Dust and water resistant according to IP65 in mated condition
- Reliable Push-Pull locking mechanism
- For point-to-point multichannel routing based on MTP® technology
- Spherical shutter guarantees low maintenance
- Easy to clean, no special tools required
- Cable connector comes pre-assembled with a choice of mobile field cables

## Cable cross section

Cable O.D.: 8.1 mm



## Packaging options and max. cable length



|               | 0<br>Airspool | 1<br>opticalCON Case | 2<br>Drum Schill GT310 | 3<br>Drum Schill GT380 | 4<br>Drum Schill HT582 | 5<br>Drum Schill GT450 | 6<br>Drum Schill SK4812            |
|---------------|---------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------------------|
| <b>Wide</b>   | -             | 490 mm / 19.3"       | ø 310 mm / 12.2"       | ø 380 mm / 15.0"       | ø 580 mm / 22.0"       | ø 445 mm / 17.6"       | 518 mm / 20.4"<br>ø 460 mm / 18.1" |
| <b>High</b>   | -             | 340 mm / 13.4"       | <b>NOT AVAILABLE</b>   | 491 mm / 19.3"         | 710 mm / 28.0"         | 555 mm / 21.8"         | 562 mm / 22.1"                     |
| <b>Depth</b>  | -             | 150 mm / 5.9"        | 230 mm / 9.1"          | 303 mm / 11.9"         | 271 mm / 10.6"         | 312 mm / 12.2"         | 422 mm / 16.6"                     |
| <b>Weight</b> | -             | 1.5 kg               | 2.2 kg                 | 4.7 kg                 | 13.9 kg                | 5.4 kg                 | 16.7 kg                            |

## Technical Information

| Product |                          |
|---------|--------------------------|
| Title   | opticalCON MTP® 48 Cable |

| Mechanical       |                     |
|------------------|---------------------|
| Cable retention  | > 500 N             |
| Insertion force  | < 45 N              |
| Withdrawal force | < 45 N              |
| Lifetime (typ.)  | 2'500 mating cycles |
| Locking device   | Push-Pull           |

| Material      |  |
|---------------|--|
| Boot          | Rubber (EPDM)                              |
| Bushing       | ZnAl4Cu1                                   |
| Insert        | Polyamide (PA 6, PBT 30 % GR, PBT 50 % GR) |
| Shell         | Zinc diecast (ZnAl4Cu1)                    |
| Shell plating | Black chromium                             |
| Strain relief | Brass (CuZn39Pb3) + PU, Ni                 |

| Environmental     |                  |
|-------------------|------------------|
| Temperature range | -40 °C to +75 °C |

## Optical

|                          |             |
|--------------------------|-------------|
| <b>Insertion loss</b>    | < 0.9 dB    |
| <b>Optical connector</b> | MTP® female |
| <b>Optical wiring</b>    | Method A    |

## Mobile cable

|                               |                 |
|-------------------------------|-----------------|
| <b>Colour</b>                 | black, matte    |
| <b>Core diameter</b>          | Multimode 50 µm |
| <b>Cladding diameter</b>      | 125 µm          |
| <b>Comment</b>                | PUR             |
| <b>Minimal bending radius</b> | 12.1 cm         |
| <b>Number of fibers</b>       | 48              |
| <b>Cable retention</b>        | Aramid yarn     |
| <b>Weight</b>                 | 48 kg/km        |
| <b>Overall diameter</b>       | 8.1 mm          |