



## opticalCON DUO X-TREME

Assembled, 2 channel X-TREME cable offering a cut-proof and rodent resistant double jacket glass yarn armored cable construction. Excellent cable retention due to aramid yarn, black PUR outer jacket.

The opticalCON DUO cable connector accommodates a standard optical LC-Duplex connector in 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.

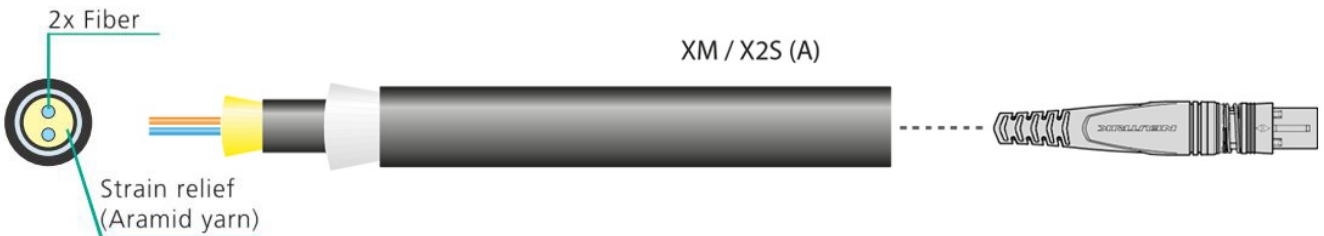
The cable connector comes pre-assembled and is not available as a single component. The cable is available in different lengths and is packed either in a case, on drum or airspool.

## Features & Benefits

- opticalCON X-TREME cable for demanding applications like touring / rental or outdoor broadcast
- Offering a cut-proof and rodent resistant double jacket glass yarn armored cable construction
- Excellent dust and dirt protection due to automatic sealing shutter with silicone gasket
- Reliable Push-Pull locking mechanism
- Easy to clean, no special tools required
- opticalCON multimode fiber cables offer laser and bend optimized OM3 fibers
- Rugged and dirt protected 2 channel fiber optic connection system
- Accommodates standard optical LC-Duplex connectors
- Dust and water resistant according to IP65 in mated condition
- Available in different packaging versions

## Cable cross section

Cable O.D.: 9.2 mm



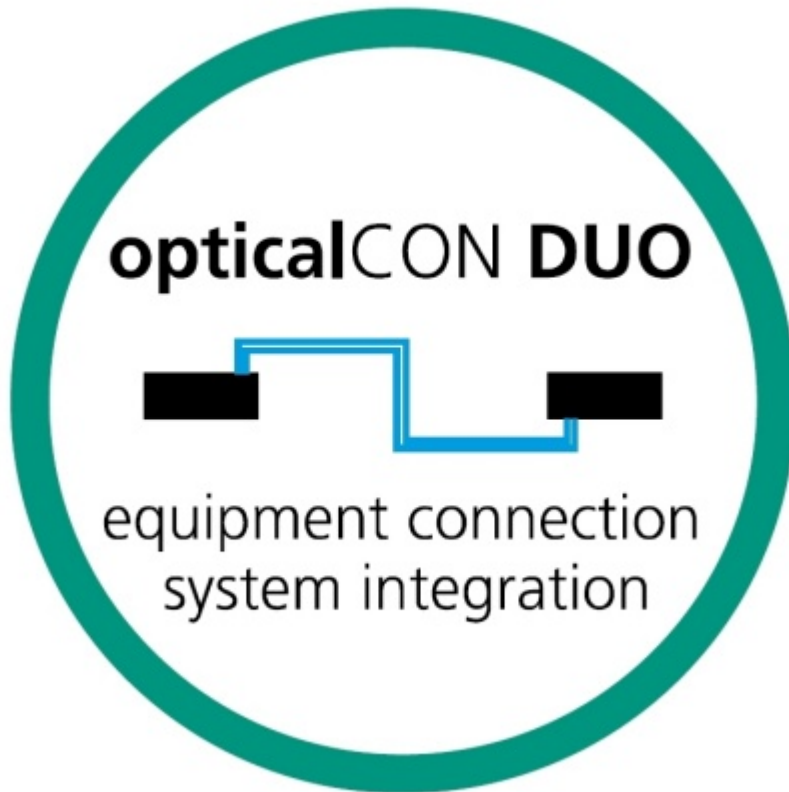
## Packaging options and max. cable length



|        | 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            |
|--------|---------------|----------------------|--|------------------------|------------------------|------------------------|------------------------------------|
| Wide   | -             | 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" |
| High   | -             | 340 mm / 13.4"       | <b>NOT AVAILABLE</b><br>367 mm / 14.5" | 491 mm / 19.3"         | 710 mm / 28.0"         | 555 mm / 21.8"         | 562 mm / 22.1"                     |
| Depth  | -             | 150 mm / 5.9"        | 230 mm / 9.1"                          | 303 mm / 11.9"         | 271 mm / 10.6"         | 312 mm / 12.2"         | 422 mm / 16.6"                     |
| Weight | -             | 1.5 kg               | 2.2 kg                                 | 4.7 kg                 | 13.9 kg                | 5.4 kg                 | 16.7 kg                            |

**opticalCON Features**

**opticalCON DUO logo**



## Technical Information

| Product         |                        |
|-----------------|------------------------|
| Title           | opticalCON DUO X-TREME |
| Connection Type | opticalCON             |
| Gender          | male                   |

| Mechanical       |                    |
|------------------|--------------------|
| Cable retention  | 500 N              |
| Insertion force  | < 45 N             |
| Withdrawal force | < 45 N             |
| Lifetime (typ.)  | 5000 mating cycles |
| Wiresize         |                    |
| Locking device   | Push-Pull          |

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

| Environmental     |                         |
|-------------------|-------------------------|
| Temperature range | -40°C to +75 °C         |
| Protection class  | in mated condition IP65 |

## Optical

|                       |                       |
|-----------------------|-----------------------|
| <b>Insertion loss</b> | < 0.5 dB / connection |
| <b>Optical wiring</b> | ISO / IEC 11801       |

## Mobile cable

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Colour</b>                 | black, matte                      |
| <b>Core diameter</b>          | Single mode 9 µm, Multimode 50 µm |
| <b>Cladding diameter</b>      | 125 µm                            |
| <b>Comment</b>                | PUR                               |
| <b>minimal bending radius</b> | 10 cm                             |
| <b>Number of fibers</b>       | 2                                 |
| <b>Cable retention</b>        | Aramid Yarn                       |
| <b>Weigth</b>                 | 82 kg/km                          |
| <b>Overall diameter</b>       | 9.2 mm                            |
| <b>Outer shield</b>           | Coated glass yarn                 |