

# opticalCON DUO

Assembled 2 fibers rugged and lightweight mobile field cable, excellent cable retention due to aramid yarn, black PUR outer jacket, available in multi- and single mode (PC or APC), military approved. Ideal for audio and broadcast networks.

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

- Ruggedized and dirt protected fiber optic connection system
- Waterproof acc. to IP65 safety standard in mated condition
- 2-pole military approved robust and light weight mobile field cable with multi- or single mode fibers
- opticalCON multimode fiber cables offer laser and bend optimized OM3 fibers
- Accommodates standard optical LC-Duplex connectors
- Cable connector features rugged all metal housing and heavy duty cable retention
- Excellent dust and dirt protection due to automatic sealing shutter with silicone gasket
- Reliable Push-Pull locking mechanism


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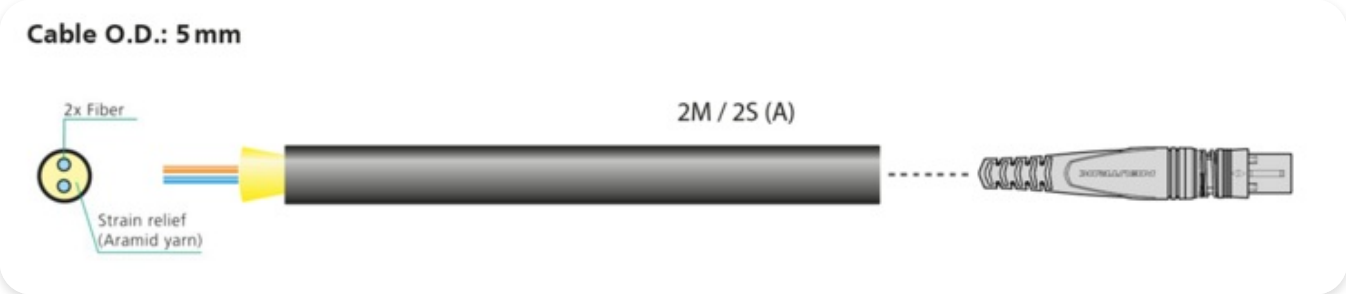
- Easy to clean, no special tools required
- Available in different packaging versions

## Cable cross section




## 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" | 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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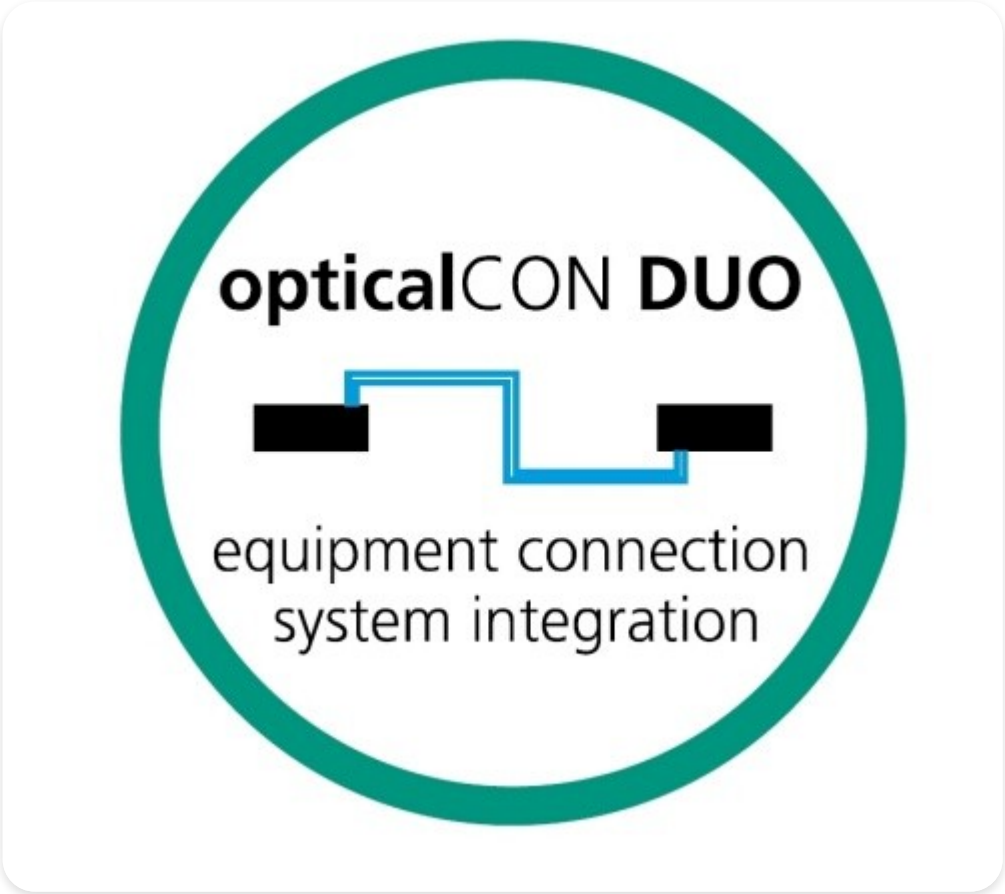
## opticalCON DUO logo




## Technical Information

| Product | |
|---|---|
| Title | opticalCON DUO |
| Gender | male |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| 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 | Polyacetal (POM) (brass) |

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

| Optical | |
|---|---|
| Insertion loss | < 0.5 dB / connection |
| Optical connector | LC-Duplex (PC and APC) |
| Optical wiringISO / IEC 11801 | ISO / IEC 11801 |


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| Mobile cable | |
|---|---|
| Colour | black, matte |
| Core diameter | Singlemode 9 µm, Multimode 50 µm |
| Cladding diameter | 125 µm |
| Comment | PUR |
| minimal bending radius | 5 cm |
| Number of fibers | 2 |
| Cable retention | Aramid yarn |
| Weight | 23 kg/km |
| Overal diameter | 5 mm |


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