# opticalCON DUO LITE

2 channel fiber system, improved bending performance due to new fiber design, black matt outer jacket, available in multi- and single-mode (PC or APC). Designed for temporary and permanent installations.
Besides extreme applications there is also a demand for quality fiber connections for applications as e.g. patching, the interconnection of devices, or permanent installations. Such applications require a focus on costs and a sealing shutter is not required. The opticalCON DUO LITE offers high performance and a cost effective, compact, and light weight design. It is fully compatible with the standard opticalCON DUO chassis connector.

## Features & Benefits

- Ruggedized 2 channel fiber optic connection system
- Cost optimized fiber connection for semi and permanent installation
- Waterproof acc. to IP65 safety standard in mated condition
- Lightweight plastic housing
- Reliable Push-Pull locking mechanism
- Easy to clean, no special tools required
- Compatible with standard opticalCON DUO chassis NO2-4FDW-A*
- Tactical patch cable

The opticalCON DUO LITE cable connector accommodates a standard optical 1.25mm ferrule in a durable plastic housing. It features a spring loaded push-pull locking mechanism and an excellent cable retention utilizing aramid yarn. The connector comes pre-assembled and is not available as a single component. The cable is available in different lengths.


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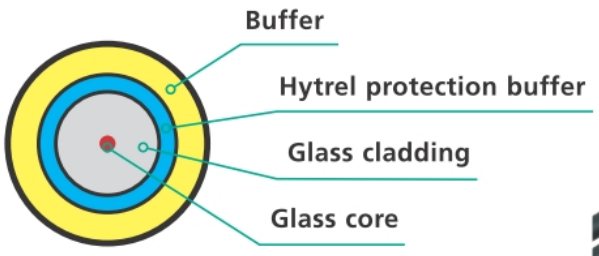

## Tactical Patch Cable

Conventional patch cables are sensitive in terms of undercutting the minimum bending radius and lateral pressure. Neutrik's tactical patch cables feature unique fiber design including a protection buffer which allows bendings with minimal radius and increased lateral pressure. Therefore the tactical patch cables are the right choice for permanent or semi-permanent applications.

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## Technical Information

| Product | |
|---|---|
| **Title** | opticalCON DUO LITE |
| **Connection Type** | opticalCON |
| **Gender** | male |

| Mechanical | |
|---|---|
| **Cable retention** | > 250 N |
| **Insertion force** | < 45 N |
| **Withdrawal force** | < 45 N |
| **Lifetime (typ.)** | 2500 mating cycles |
| **Wiresize** | |
| **Locking device** | Push-Pull |

| Material | |
|---|---|
| **Boot** | Rubber (EPDM) |
| **Bushing** | Polyamide (PA 6) & Thermoplastic elastomer (TPU) |
| **Insert** | PBT |
| **Shell** | PBT |
| **Strain relief** | CuZn36 Pb3 (Brass) |
| **Dust protection cap** | Rubber (EPDM) |


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## Environmental

| | |
|---|---|
| **Temperature range** | -40 °C to +70 °C |
| **Protection class** | in mated condition IP65 |

## Optical

| | |
|---|---|
| **Insertion loss** | < 0.45 dB / connection |
| **Optical connector** | LC-Duplex (PC and APC) |
| **Optical wiring** | ISO / IEC 11801 |
| **Optical return loss** | >50 dB (PC)<br>>60 dB (APC) |

## Mobile cable

| | |
|---|---|
| **Colour** | black, matte |
| **Core diameter** | Singlemode 9 µm, Multimode 50 µm |
| **Cladding diameter** | 125 µm |
| **Comment** | PVC |
| **minimal bending radius** | 3 cm |
| **Number of fibers** | 2 |
| **Cable retention** | Aramid yarn |
| **Weigth** | 9 kg/km |
| **Overal diameter** | 3 mm |


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