# opticalCON DUO SMPTE

Pre-assembled SMPTE cable with 2 single-mode fibers (PC or APC), 4 copper pins, overall copperbraided shield and stainless steel strength member, strong black PUR outer jacket for abrasion resistance. Suitable chassis connector NO2-4FD-1(-A) offers a ground contact. Not compatible to SMPTE 304M standard. Suitable for indoor (studio) camera links considering specific conditions acc. to IEC 60664-1 like pollution degree 1, overvoltage category 1 and rated voltage. For detailed information ask for the White Paper "opticalCON @ SMPTE Indoor Applications". The opticalCON DUO SMPTE cable is suitable for outdoor applications up to 65V.

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.


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## Features & Benefits

- Ruggedized and dirt protected fiber optic connection system
- Waterproof acc. to IP65 safety standard in mated condition
- Suitable for indoor (studio) camera links considering specific conditions acc. to IEC 60664-1 like pollution degree 1, overvoltage category 1 and rated voltage.
- Suitable for outdoor applications 65V
- 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
- Easy to clean, no special tools required
- Available in different packaging versions
- Lockable with opticalCON DUO Chassis NO2-4FDW-A / NO2-4FDW-1-A
- This product is intended and designed for use in combination with NEUTRIK brand connectors only.

## Cable cross section

**Cable O.D.: 9.2 mm**

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## 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 |

NOT AVAILABLE


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# Technical Information

| Product | |
|---|---|
| **Title** | opticalCON DUO SMPTE |
| **Gender** | male |

| Electrical | |
|---|---|
| **Contact resistance** | < 7 mΩ |
| **Dielectric strength** | 1,5 kVdc |
| **Insulation resistance** | > 10 GΩ (initial) |
| **Mains** | 65V AC / 6A / 50Hz |
| | 65V DC / 6A |
| **Sense** | 50V AC / 3A / 50Hz |
| | 50V DC / 3A |
| | When operating outside the intended connection frequency, the electronic and electrical devices must be tuned to each other including the transmission path. The Neutrik Group accepts no liability in this case. |

| Mechanical | |
|---|---|
| **Cable retention** | 500 N |
| **Insertion force** | < 45 N |
| **Withdrawal force** | < 45 N |
| **Lifetime (typ.)** | 5000 mating cycles |
| **Wiresize** | |
| **Wiresize** | 2 x 24 AWG + 4 x 20 AWG |
| **Locking device** | Push-Pull |


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| Material | |
|---|---|
| **Boot** | Rubber (EPDM) |
| **Bushing** | Zinc diecast (ZnAl4Cu1) |
| **Contacts** | Brass (CuZn39Pb3) |
| **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** | Operating temperature -40 °C to +75 °C by relative humidity 93% |
| **Flammability** | UL94 V-0 |
| **Protection class** | in mated condition IP65 |
| **Certification according to** | IEC 61984 :2008 |
| | UL 1977 :2016 |
| | CSA C22.2 No 182.3 :2016 |

| Optical | |
|---|---|
| **Insertion loss** | 0.4 dB |
| **Optical connector** | LC-Duplex (PC/APC) |
| **Optical wiring** | ISO / IEC 11801 |


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| Mobile cable | |
|---|---|
| **Colour** | black, matte |
| **Core diameter** | 9 µm |
| **Cladding diameter** | 125 µm |
| **minimal bending radius** | 5.5 cm |
| **Number of fibers** | 2 |
| **Cable retention** | Crimp type |
| **Strength member** | Stainless Steel |
| **Weigth** | 120 kg/km |
| **Overal diameter** | 9.2 mm |


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