



# Product Data Sheet

Neutrik NK02S-S1-A-0-50 opticalCON DUO ADVANCED  
SMPTE 50m Airspool

## Description



Pre-assembled SMPTE cable with 2 single-mode fibers (PC or APC), 4 copper pins, overall copper braided 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, over voltage 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 ruggedised and durable all-metal housing. It features a spring loaded push-pull locking mechanism and an excellent cable retention utilising 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.

Product	SKU
NEUTRIK NK02S-S1-A-0-50 OPTICALCON DUO ADVANCED SMPTE 50M AIRSPOOL	KQ-68-01050



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## Key Benefits

- Ruggedised 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, over voltage 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.

## Technical Specification

### Neutrik NK02S-S1-A-0-50 Specification

<b>Gender:</b> male	<b>Mechanical</b>
<b>Electrical</b>	<b>Cable retention:</b> 500 N
<b>Contact resistance:</b> < 7 mΩ	<b>Insertion force:</b> < 45 N
<b>Dielectric strength:</b> 1,5 kVdc	<b>Withdrawal force:</b> < 45 N
<b>Insulation resistance:</b> > 10 GΩ (initial)	<b>Lifetime (typ.):</b> 5000 mating cycles
<b>Mains:</b> 65V AC / 6A / 50Hz	<b>Wiresize:</b> 2 x 24 AWG + 4 x 20 AWG
65V DC / 6A	<b>Locking device:</b> Push-Pull
<b>Sense:</b> 50V AC / 3A / 50Hz	<b>Material</b>
50V DC / 3A	<b>Boot:</b> Rubber (EPDM)
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.	<b>Bushing:</b> Zinc diecast (ZnAl4Cu1)



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## Technical Specification

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<b>Material</b>	<b>Optical connector:</b> LC-Duplex (PC/APC)
<b>Contacts:</b> Brass (CuZn39Pb3)	<b>Optical wiring:</b> ISO / IEC 11801
<b>Insert:</b> Polyamide (PA 6, PBT 30 % GR, PBT 50 % GR)	<b>Mobile cable</b>
<b>Shell:</b> Zinc diecast (ZnAl4Cu1)	<b>Colour:</b> black, matte
<b>Shell plating:</b> Black chromium	<b>Core diameter:</b> 9 µm
<b>Strain relief:</b> Polyacetal (POM) (brass)	<b>Cladding diameter:</b> 125 µm
<b>Environmental</b>	<b>Minimal bending radius:</b> 5.5 cm
<b>Temperature range:</b> Operating temperature -40 °C to +75 °C by relative humidity 93%	<b>Number of fibers:</b> 2
<b>Flammability:</b> UL94 V-0	<b>Cable retention:</b> Crimp type
<b>Certification according to:</b> IEC 61984 :2008, UL 1977 :2016, CSA C22.2 No 182.3 :2016	<b>Strength member:</b> Stainless Steel
<b>Optical</b>	<b>Weight:</b> 120 kg/km
<b>Insertion loss:</b> 0.4 dB	<b>Overall diameter:</b> 9.2 mm

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

