



# Product Data Sheet

Neutrik NK02SA-L-0-100 opticalCON DUO LITE  
SM/APC 100M Airspool

## Description



The Neutrik opticalCON DUO LITE is a 2 channel fibre system, improved bending performance due to new fibre 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 fibre 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.

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 utilising aramid yarn. The connector comes pre-assembled and is not available as a single component. The cable is available in different lengths.

Product	SKU
NEUTRIK NK02SA-L-0-100 OPTICALCON DUO LITE SM/APC 100M AIRSPOOL	KQ-27-01100

## Key Benefits

- Ruggedised 2 channel fibre optic connection system
- Cost optimised fibre 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



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## Technical Specification

### Neutrik NK02SA-L-0-100 Specification

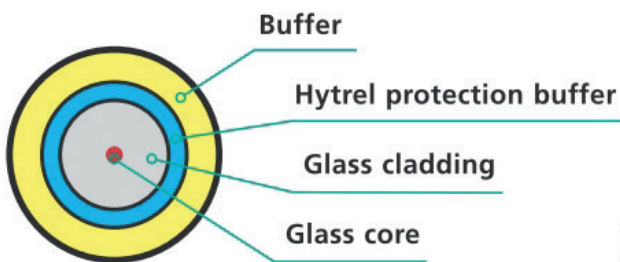
<b>Connection Type:</b> opticalCON	<b>Temperature range:</b> -40 °C to +70 °C
<b>Gender:</b> Female	<b>Optical</b>
<b>Mechanical</b>	<b>Insertion loss:</b> < 0.45 dB / connection
<b>Cable retention:</b> > 250 N	<b>Optical connector:</b> LC-Duplex (PC and APC)
<b>Insertion force:</b> < 45 N	<b>Optical wiring:</b> ISO / IEC 11801
<b>Withdrawal force:</b> < 45 N	<b>Optical return loss:</b> >50 dB (PC) >60 dB (APC)
<b>Lifetime:</b> > 2500 mating cycles	<b>Mobile cable</b>
<b>Locking device:</b> Push-Pull	<b>Colour:</b> black, matte
<b>Material</b>	<b>Core diameter:</b> Singlemode 9 µm, Multimode 50 µm
<b>Boot:</b> Rubber (EPDM)	<b>Cladding diameter:</b> 125 µm
<b>Bushing:</b> Polyamide (PA 6) & Thermoplastic elastomer (TPU)	<b>Comment:</b> PUR
<b>Insert:</b> PBT	<b>Minimal bending radius:</b> 3 cm
<b>Shell:</b> PBT	<b>Number of fibers:</b> 2
<b>Strain relief:</b> CuZn36 Pb3 (Brass)	<b>Cable retention:</b> Aramid yarn
<b>Dust protection cap:</b> Rubber (EPDM)	<b>Weight:</b> 9 kg/km
<b>Environmental</b>	<b>Overall diameter:</b> 3 mm
<b>Flammability:</b> UL 94 HB	



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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 fibre 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.

