

opticalCON DUO LOW VOLTAGE HYBRID

Cost effective fiber optic hybrid cable solution, great SMPTE cable alternative if only low voltage is required. Assembled ultra-flexible and lightweight (65 kg/km) low voltage camera / SM hybrid cable with 2 single-mode fibers and 2 AWG16 copper conductors, aramid yard cable retention. Optimized for camera link systems (e.g. for ENG / SNG¹), camera adapter systems, camera cranes and powered drop down converter boxes for broadcast applications where power <65V is required.

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

 Eliminates need for awkward and costly SMPTE cables if only ELV2 (< 50 V ac) is required 	 Ruggedized and dirt protected fiber optic connection system
• Waterproof acc. to IP65 safety standard in mated condition	• Ultra-flexible, lightweight and cost effective fiber optic hybrid camera cable solution
• Small drum up to 150 m cable (15 kg)	 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
• The product is intended and designed	

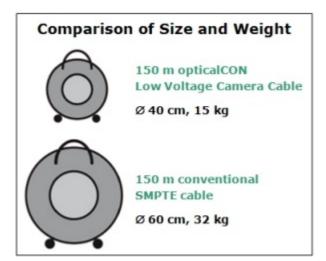
- The product is intended and designed only for use in combination with NEUTRIK brand connectors
- 1 = Electronic News Gathering / Satellite News Gathering
- 2 = Extra Low Voltage

Cable cross section

Cable O.D.: 7.5 mm



Comparison of Size and Weight

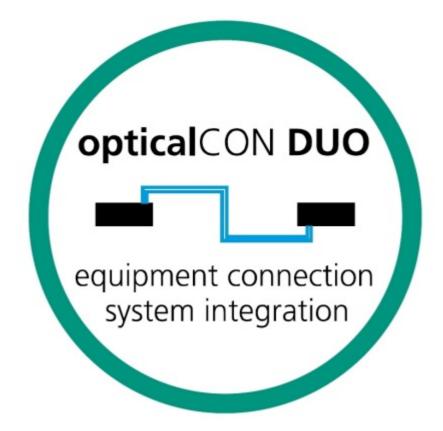


Packaging options and max. cable length





opticalCON DUO logo





Technical Information

Product	
Title	opticalCON DUO LOW VOLTAGE HYBRID
Gender	male

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Contact resistance	< 7 mΩ
Dielectric strength	1,5 kVdc
Insulation resistance	> 10 G Ω (initial)
Mains	65V AC / 50Hz
	65V DC / 6A
	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 16 AWG
Locking device	Push-Pull

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	
Flammability	UL94 V-0
Temperature range	Operating temperature -40 °C to +75 °C by relative humidity 93%
Certification according to	IEC 61984 :2008
	UL 1977 :2016
	CSA C22.2 No 182.3 :2016

Optical	
Insertion loss	< 0.4 dB / connection (PC)
Optical connector	LC-Duplex
Optical wiring	ISO / IEC 11801

Mobile cable	
Colour	black, matte
Core diameter	9 µm
Cladding diameter	125 µm
Comment	PUR
minimal bending radius	7.3 cm
Number of fibers	2
Cable retention	Aramid yarn
Weigth	65 kg/km
Overal diameter	7.3 mm