



opticalCON DUO HYBRID

Assembled extra rugged hybrid cable with 2 multi-mode fibers and 4 x 0.75 mm² copper conductors, GFK strength member and aramid yarn as cable retention. Low weight robust hybrid cable, only 78kg/km. Optimized design for opticalCON termination. Most suitable for powered applications in audio and video use.

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.

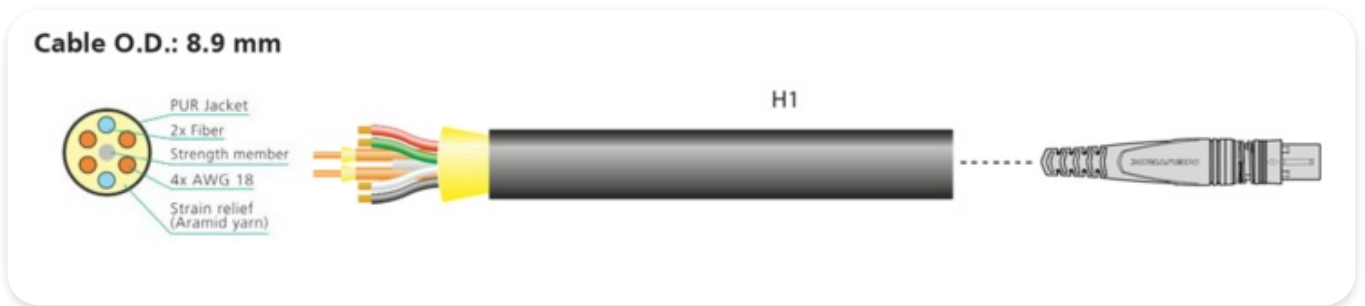
Features & Benefits

- ✓ Ruggedized and dirt protected fiber optic connection system
- ✓ Waterproof acc. to IP65 safety standard in mated condition
- ✓ Extra robust hybrid cable with 2 multimode fibers and 4 x 0.75 mm² copper wires
- ✓ opticalCON multimode fiber cables offer laser and bend optimized OM3 fibers
- ✓ 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

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- ✓ 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 designed and intended for use in combination with NEUTRIK brand connectors only

Cable cross section



Packaging options and max. cable length

	0 Airspool	1 opticalCON Case	2 Drum Schill GT310	3 Drum Schill GT380	4 Drum Schill HT582	5 Drum Schill GT450	6 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" ø 460 mm / 18.1"
High	-	340 mm / 13.4"	NOT AVAILABLE	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

Technical Information

Product	
Title	opticalCON DUO HYBRID
Gender	male

Electrical	
Contact resistance	< 7 mΩ
Dielectric strength	1,5 kVdc
Insulation resistance	> 10 GΩ (initial)
Rated current per contact	3A
Rated voltage per contact	50V AC / 50Hz
	50V DC
	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	4 x 18 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	
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 / connection (PC)
Optical connector	LC-Duplex
Optical wiring	ISO / IEC 11801

Mobile cable	
Colour	black, matte
Core diameter	50 µm
Cladding diameter	125 µm
Comment	PUR
minimal bending radius	8.9 cm
Number of fibers	2
Cable retention	Aramid yarn
Strength member	GFK
Weigth	78 kg/km
Overall diameter	8.9 mm