



opticalCON DRAGONFLY Cable

Pre-assembled female-male SMPTE cable with 2 lensed single-mode ferrules and 4 copper pins.

DRAGONFLY is more robust, reliable and easier to maintain than common hybrid camera signal transmission systems. With technology based on fiber lenses and fusion splicing, Neutrik's DRAGONFLY achieves an extremely robust signal with minimal loss. The optical connection is exceptionally well protected against dirt and dust by its lenses and an additional sealing cover.

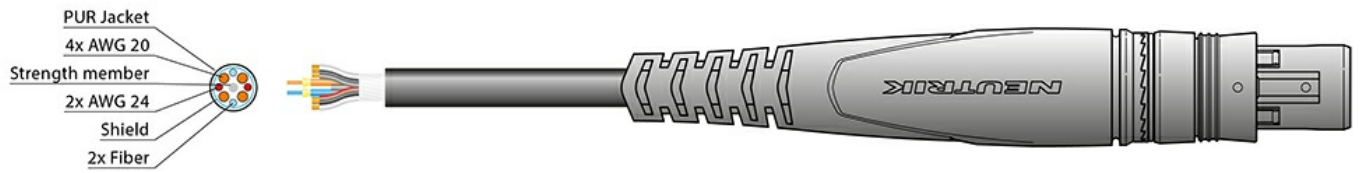
The cable connector comes pre-assembled. Spare parts are available as single components as well. Suitable chassis connectors are NO2MW-XP and NO2FW-XP.

[Now available!](#)

Features & Benefits

- Suitable for indoor (studio) and outdoor (OB-Truck) camera links according to SMPTE standard
- Ruggedized and dirt protected hybrid connection system
 - 2 unique lensed optical connectors
 - 2 signal contacts
 - 2 power contacts
 - 1 ground contact
- Accommodates a unique lensed optical fusion splice connector
- Excellent dust and dirt protection
- Waterproof according to IP68 safety standard in mated condition
- Easy to repair
- Robust and reliable: all-metal housing, overall copper braided shield, stainless steel strength member, strong black PUR outer jacket, spring loaded push-pull locking and strong cable retention
- Available in different lengths and packing versions

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	NKO2S-XP-0-*
Gender	male/female

Electrical	
Contact resistance	< 7 mΩ
Insulation resistance	> 10 GΩ (initial)
Rated Voltage (Power Contact 2+3)	230 V AC @50 Hz / 330 V DC 120 V AC @60 Hz / 170 V DC
Rated Current (Power Contact 2+3)	10 A
Rated Voltage (Sense Contact 1+4)	42 V AC / 60 V DC
Rated Current (Sense Contact 1+4)	3 A*
	*According to IEC 62368-1: For rated current up to 3 A, a nominal cross-sectional area of 0.5 mm ² may be used in some countries provided that the length of the cord does not exceed 2 m.

Mechanical	
Cable retention	500 N
Insertion force	< 45 N
Withdrawal force	< 45 N
Lifetime	10'000 mating cycles
Wiresize Power	4 x 20 AWG
Wiresize Sense	2 x 24 AWG
Locking device	Push-Pull

Material	
Boot	Rubber (EPDM)
Bushing	Zinc diecast (ZnAl4Cu1)
Contacts	Brass
Insert	Polyetherimide and Polycarbonate (PEI+PC)
Shell	Zinc diecast and Polyoxymethylen
Shell plating	Nickel
Strain relief	Brass

Environmental	
Temperature range	-40 °C to +75 °C

Optical	
Insertion loss	Typ. 0.6 dB per connection / Max. 1.0 dB per connection
Optical connector	Fusion Spliced lensed Ferrule
Optical wiring	ANSI/TIA-568.3-D [A-to-A]
Wavelength	1310 nm and 1550 nm (WDM and CWDM compatible)

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
Overall diameter	9.2 mm