



opticalCON DRAGONFLY Cable

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

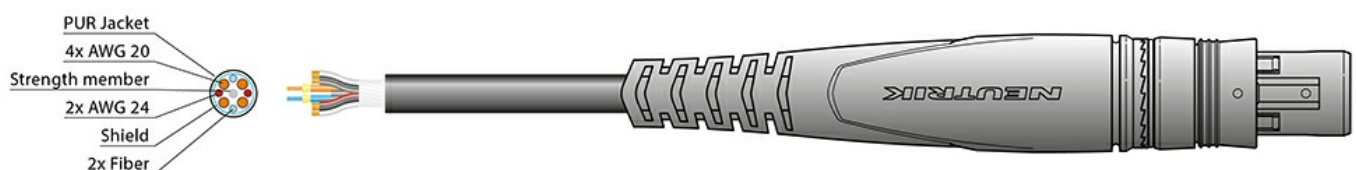
DRAGONFLY is more robust, reliable and easier to maintain than common hybrid camera signal transmission systems. With technology based on fiber lenses and fusion splicing, Neutrik's DRAGONFLY achieves an extremely robust signal with minimal loss. The optical connection is exceptionally well protected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

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
- 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
- Waterproof according to IP68 safety standard in mated condition
- Accommodates a unique lensed optical fusion splice connector
- Excellent dust and dirt protection
- Easy to repair

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 |

Available camera systems

SONY: HDC, HSC, HXC

GRASS VALLEY: LDX82, LDX86, LDX86N

MULTIDYNE: SILVERBACK V Camera Adapter Products

Technical Information

| Product | |
|---------------|--------------|
| Title | NKO2S-XP-0-* |
| Gender | male/female |

| Electrical | |
|------------------------------|--|
| Contact resistance | < 7 mΩ |
| Insulation resistance | > 10 GΩ (initial) |
| Mains | 240V AC / 10A / 50Hz 120V AC / 10A / 60Hz 300V DC / 7A |
| Sense | 42V AC peak / 1-3A / ≤1kHz 60V DC / 1-3A |

| 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 Polyoxmethylen |
| Shell plating | Nickel |
| Strain relief | Brass |

Environmental

| | |
|-----------------------------------|--|
| Flammability | UL94 V-0 |
| Protection Class | IP68 (with sealing KIT SCXP-*) in mated condition |
| Certification according to | IEC 62368-1 :2014 IEC 60529 UL 1977 :2019 CSA C22.2 No. 182.3 :2016 UL50E Type 4 |

Optical

| | |
|--------------------------|---|
| Insertion loss | Typ. 0.6 dB per connection / Max. 1.0 dB per connection |
| Optical connector | XB2 Feedthrough |