

CAMERA CONNECTOR SYSTEM

INNOVATIVE SOLUTIONS

DRAGONFLY

opticalCON®



NEUTRIK®



DRAGONFLY

opticalCON®



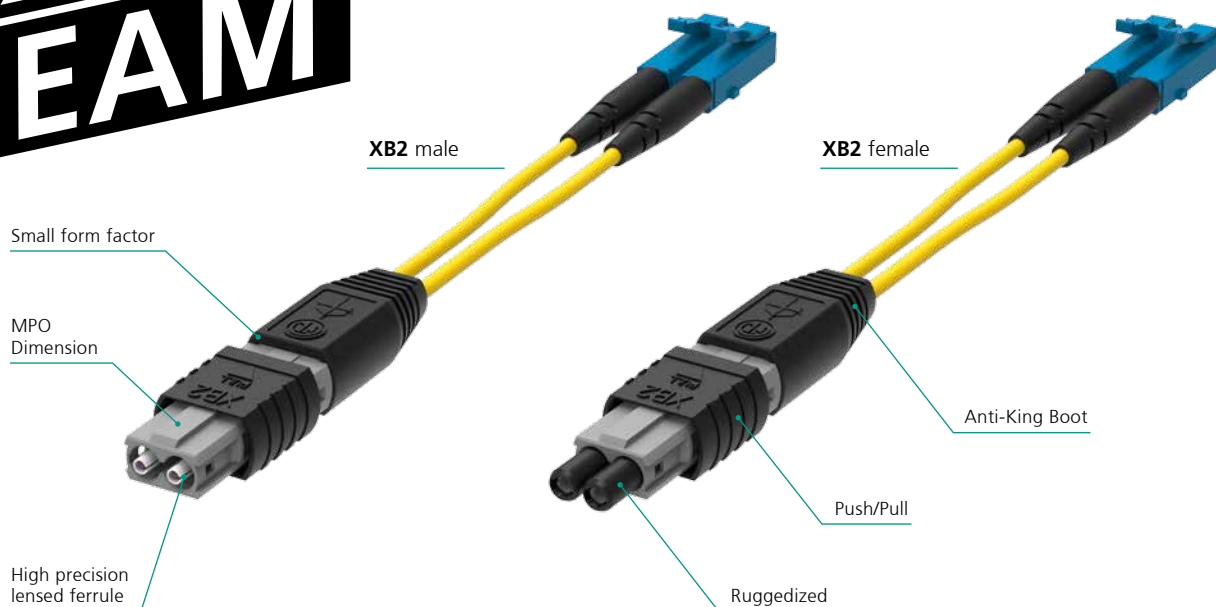


CAMERA CONNECTOR

Neutrik's new fiber optic connector series offers advanced lens technology for the Broadcast and AV Market. 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. opticalCON DRAGONFLY combines all the advantages of lens technology and makes it competitive with physical contact connectivity.

The DRAGONFLY connector offers long life with very low maintenance. It can also withstand harsh and demanding environments and is dust and moisture insensitive. Additionally, DRAGONFLY is robust against vibration and therefore has low potential for damage. And if there ever is a problem, DRAGONFLY is field repairable. With this new technology, DRAGONFLY provides a complete solution for the Broadcast and AV Market.

CORE TECHNOLOGY EXPANDED BEAM

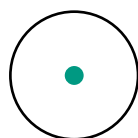


DRAGONFLY is based on the patented XB2-Technology. Its innovative fusion splice high-performance lens transmits UHD 4K and 8K signals with very low loss as the signal surface

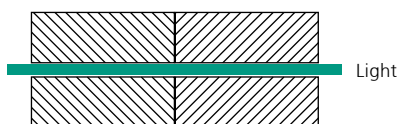
of the XB2 lens is 322 times bigger than physical contact surfaces. This further results in low insensitivity against dust and dirt.

STANDARD PHYSICAL CONTACT

Single Mode

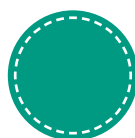


$\varnothing = 9 \mu\text{m}$
 $A = 64 \mu\text{m}^2$
 Factor A = 1



XB2 LENSED SOLUTION

Single Mode



$\varnothing = 162 \mu\text{m}$
 $A = 20.612 \mu\text{m}^2$
 Factor A = 322



DRAGONFLY is a ruggedized and low maintenance hybrid cable connector for indoor and outdoor use.

INNOVATIVE AND FUTURE PROOF

- fusion splice technology – field repairable
- High performance – low loss
- Consistent quality
- 100% reliable even at extreme temperature fluctuations
- Permanent connection

SIMPLE AND EFFICIENT

- hybrid connection – power and data over one connection
- Low maintenance interval
- Easy switching to DRAGONFLY – fits into standardized cutouts
- Easy cleaning with compressed air and water
- Competitive price

ROBUST AND RELIABLE

- Extremely robust system
- Reliable push/pull locking mechanism
- Dust and waterproof according to IP68
- Proven anti-kink boot design
- Long life – 10.000 mating cycles



FEATURES AND BENEFITS

Low maintenance and
easy to clean

High performance – low loss



Fusion splice technology –
field repairable

hybrid connection –
power and data



Dust and waterproof according
to IP68 in mated condition

Reliable push/pull
locking mechanism



Long life – 10 000 mating cycles

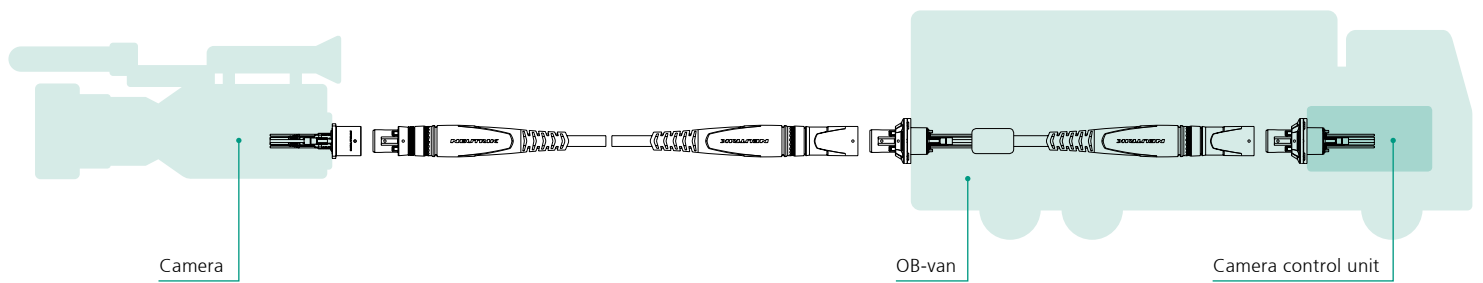
Proven anti-kink boot design



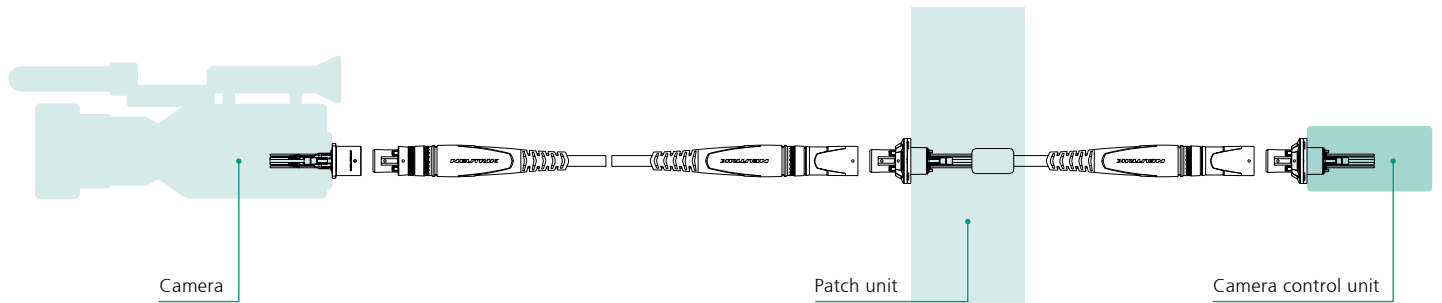
APPLICATION

The opticalCON DRAGONFLY system is the perfect solution for live broadcast productions.

OB CONFIGURATION



STUDIO CONFIGURATION

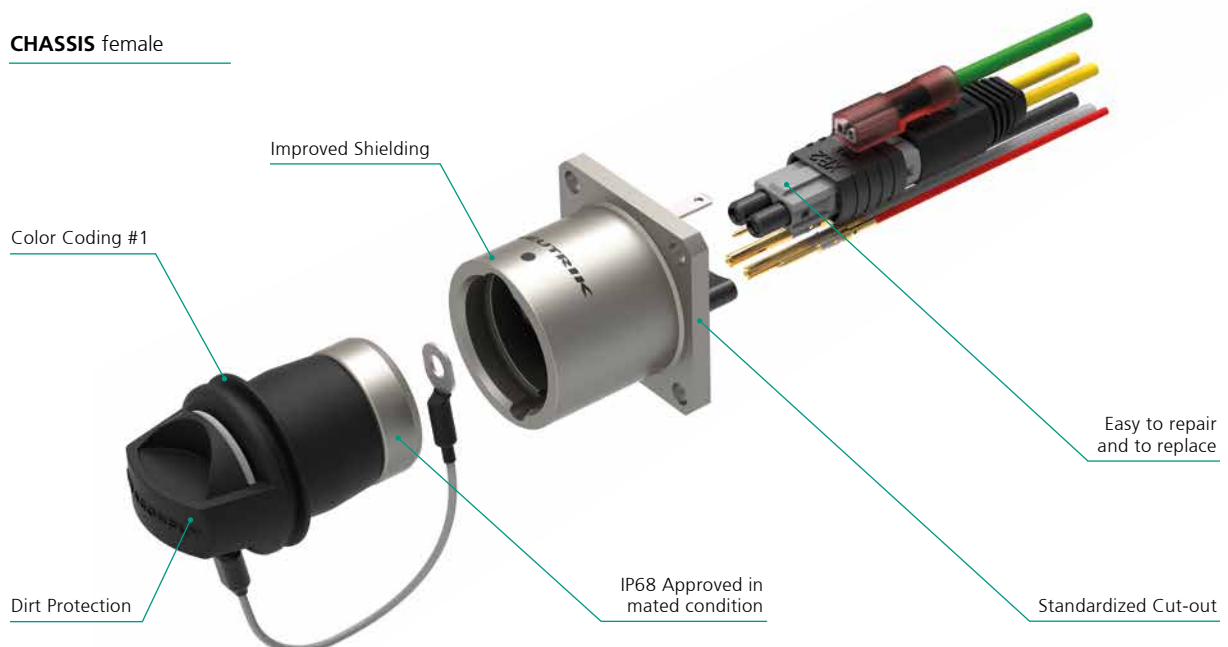


CONCEPT AND DESIGN

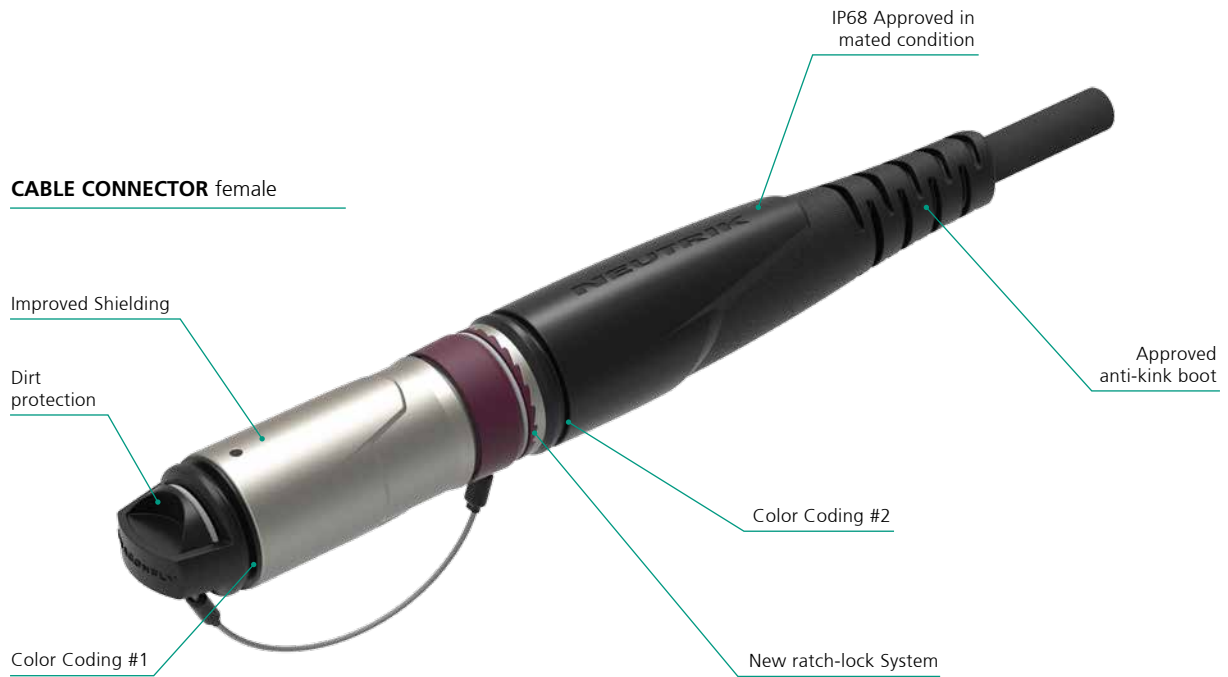
CABLE CONNECTOR male



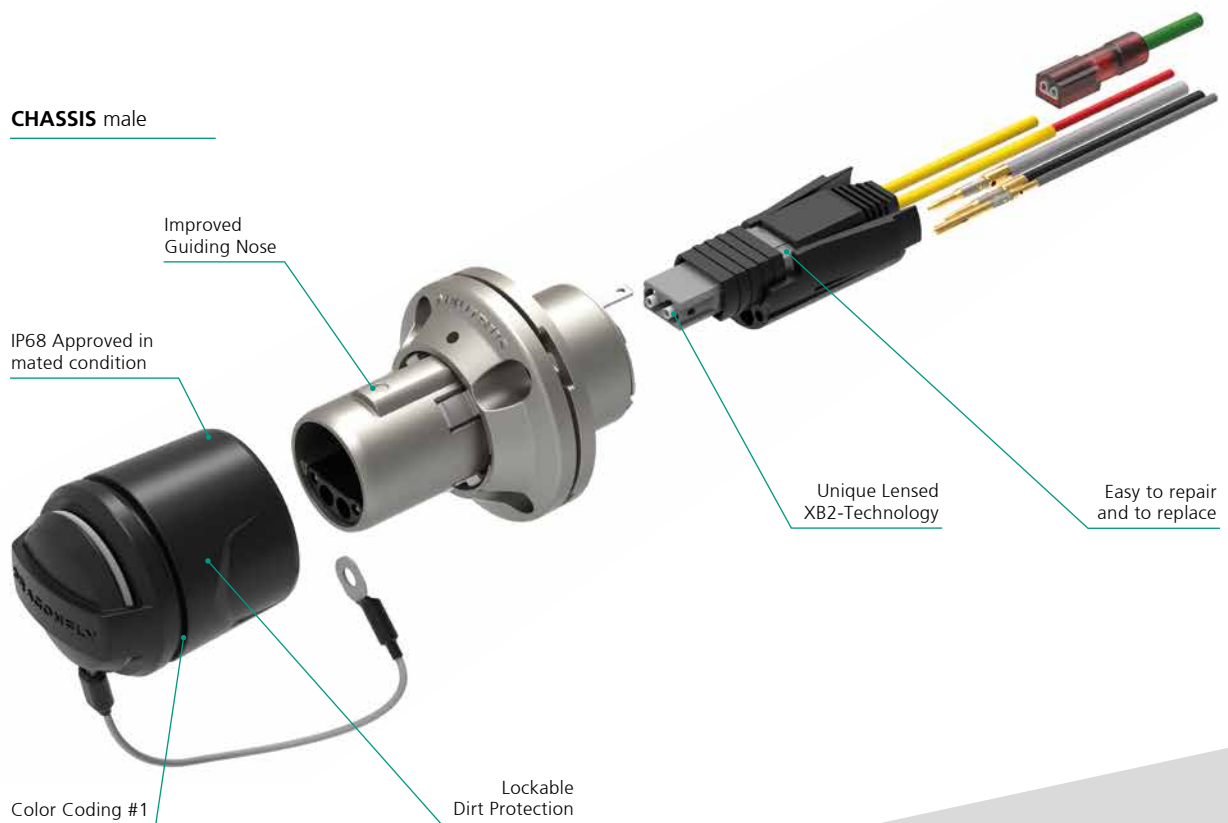
CHASSIS female



CABLE CONNECTOR female



CHASSIS male



TECHNICAL DATA

OPTICAL SPECIFICATIONS

Insertion Loss	Typical 0.6dB per connection / Maximum 1dB per connection
Return Loss	Typical 45 dB / Minimum 40dB
Wavelengths	SM: 1310 nm / 1550 nm
Compatible fiber types	SM: 9/125-G657A2
Operation Temperature	-40 °C to +75 °C
Termination	Fusion Splice
WDM Compatibility	Yes

MECHANICAL SPECIFICATIONS – DRAGONFLY

Strain relief	> 500 N
Insertion force	< 45 N
Withdrawal force	< 45 N
Locking device	Push / Pull
Locking force	> 900 N
Lifetime	10.000 mating cycles
Anti-King protection	Identical like approved opticalCON ADVANCED
IP Rating	IP68 (with Sealing Kit SCXP-*) in mated condition
Wiresize	2 x 24AWG + 4 x 20AWG
Cable	Standard SMPTE 311 Cable ø 9.2 mm

ELECTRICAL SPECIFICATIONS – DRAGONFLY

Rated Current – power	10A
Rated Current – sense	1A
Rated Voltage – power	600 V
Rated Voltage – sense	42 V ac / 62 V dc
Contact resistance	< 7 mΩ
Transfer resistance ground	< 10 mΩ
Insulation Resistance	> 10 GΩ



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