

MEDICAL FIBER OPTIC CONNECTOR SYSTEM

INNOVATIVE SOLUTIONS



HYBRID MED

opticalCON®



NEUTRIK®

MEDICAL CONNECTOR

CORE TECHNOLOGY EXPANDED BEAM

NEUTRIK's new fiber optic connector solution offers advanced lens technology for the Medical Market. HYBRID MED is more robust, reliable and easier to maintain than common fiber transmission solutions. The HYBRID MED solutions offer up to 16 fiber channels and 2 power contacts. It reduces trap hazards in the surgical room and is already future proofed for 4K and even 8K transmission signals. The smooth connector design is very easy to handle and to clean with marginal



openings. Additionally, HYBRID MED offers a special glove-protected push/pull ring which makes the use of the connector a breeze for everyone. The HYBRID MED offers long life with very low maintenance and is a complete solution for the Medical Market.

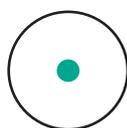
Core Technology Expanded Beam

HYBRID MED is based on the PRIZM® MT lensed Technology. Its innovative high-performance lens transmits UHD 4K and 8K signals with very low loss as the signal surface of the PRIZM® MT

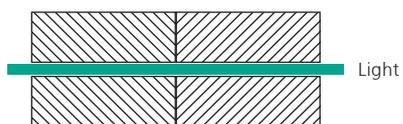
lens is 13 times bigger than physical contact surfaces. This results in high insensitivity against dust and dirt.

STANDARD PHYSICAL CONTACT

Multimode



$\varnothing = 50 \mu\text{m}$
 $A = 1963.5 \mu\text{m}^2$
 Factor A = 1



LENSED SOLUTION

Multimode



$\varnothing = 180 \mu\text{m}$
 $A = 25'446 \mu\text{m}^2$
 Factor A = 13



FEATURES AND BENEFITS

High performance – low loss

Glove protection Design

Reliable push/pull locking mechanism

D-shape Design for easy integration



Hybrid connection - Power and Data

Up to 16 fibers available

Long life – 10'000 mating cycles

Easy to clean and flat surface

Proven anti-kink boot design



TECHNICAL DATA

OPTICAL SPECIFICATIONS – HYBRID MED

Insertion Loss	Typical 0.65 dB per connection Maximum 0.90 dB per connection
Return Loss	Typical 28 dB / Minimum 25 dB
Wavelength	MM: 850 nm / 1300 nm
Compatible fiber types	MM: F-G50/125 Corning ClearCurve OM4 (Accor. IEC 60793-2-10)
Fiber channels	16 fibers

MECHANICAL SPECIFICATIONS – HYBRID MED

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
Cable	Multi fiber hybrid Cable ø 9.5 mm

ELECTRICAL SPECIFICATIONS – HYBRID MED

Wire size (power)	max. 16 AWG
Rated Current - power	Max. 10 A
Rated Voltage – power	12 V AC @50 Hz
Contact resistance	< 7 mΩ
Transfer resistance ground	< 10 mΩ
Insulation Resistance	> 10 GΩ
Insulation resistance after damp heat	> 1 GΩ

ENVIRONMENTAL

Flammability	UL94 V-0
Operation Temperature	0° C to +40° C
Storage Temperature	-20° C to +60° C

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