NEUTRIK





opticalCON® TRUE1 DUO Standard Ø 5.0 mm

2-channel fiber optic connection system designed for professional mobile applications. The STANDARD Ø 5.0 mm cable offers an ideal balance between ruggedness, flexibility and handling, making it the perfect choice for touring, broadcast and live production environments.

The cable features a durable PUR outer jacket with excellent cable retention based on aramid strength members, ensuring reliable performance under mechanical stress. Available in multimode and singlemode (PC or APC).

It combines:

- high mechanical stability
- proven field performance
- easy handling in setup and teardown

Ideal for:

- mobile field applications
- touring and rental
- broadcast and event production

Features & Benefits

- ✓ Rugged 2-channel fiber optic connection system
- ✓ Professional mobile field cable (Ø 5.0 mm) with excellent durability
- ✓ IP65 / IP66 / IP67 protection in mated condition for outdoor use
- ✓ Robust cable retention with aramid yarn for high mechanical reliability
- ✓ Reliable push-pull locking mechanism for fast and secure handling

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- Integrated sealing shutter protecting against dust and contamination
- Easy to clean and inspect
- Available in multimode and singlemode (PC / APC)

Technical Information

Product	
Optical Connector	MDC (Miniaturized Duplex Connector)
Number of Fibers	2
Fiber	Multimode, Single Mode PC / APC
Insertion loss	< 0,45 dB per Connection (acc. IEC61300-3-4:2023)
min. Return Loss	MM PC > 25 dB SM PC > 50 dB SM APC > 60 dB

Mechanical	
Insertion force	< 45 N
Lifetime (mating cycles)	5'000
Cable Retention Force	> 500 N (5.0 mm cable) > 250N (3.0 mm cable)

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Material	
Shell	Zinc diecast (ZnAl4Cu1)
Insert	PC; PA66 + PA 25% GR
Shutter	Zinc diecast (ZnAl4Cu1)
Slider Colour	PC MM:black SM PC: blue SM APC: green
Strain Relief	PA66+ PA6 25% GR; PC; Brass
Bushing	PK
Boot	TPE
Sealing Cap	EPDM; PA66 + PA6 25% GR; Stainless Steel Rope

Environmental	
Operating Temperature	-40°C to +85°C
Flammability	UL 94 V0 (chassis)
Protection class	In mated condition IP65, 66 & 67
Corrosion Resistance	1440 h

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Mobile cable	
Colour	black, matte
Core diameter	Singlemode 9 µm, Multimode 50 µm
Cladding diameter	125 µm
Commet	PUR
minimal bending radius	5 cm
Number of fibers	2
Cable retention	Aramid yam
Weight	23 kg/km
Overal diameter	5 mm

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