



opticalCON® TRUE1 DUO LITE Ø 3.0 mm

2-channel fiber optic connection system designed for applications requiring high performance in a compact and lightweight format. Based on the proven LITE cable platform from the opticalCON® LITE series, it offers excellent bending performance and reliable handling.

The black, matte cable jacket ensures a robust yet flexible design and is available in multimode as well as singlemode (PC or APC).

Ideal for:

- patch applications
- device interconnections
- permanent or semi-permanent installations

Compact, cost-efficient fiber connectivity

For applications that do not require heavy-duty cable constructions but still demand reliable, professional fiber performance, the opticalCON® TRUE1 DUO with LITE Ø 3.0 mm cable provides the ideal solution.

It combines:

- compact and lightweight design
- high optical performance
- cost-efficient implementation

Features and Benefits

- ✓ Rugged 2-channel fiber optic connection system

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- Cost-optimized fiber solution for temporary and permanent installations
- IP65, 66 & 67 rated in mated condition for reliable outdoor use
- Lightweight housing
- New intuitive Latch-In locking mechanism for secure connections and better haptic feedback
- Easy to clean and inspect
- Compatible with the new opticalCON TRUE1 DUO chassis
- Flexible and tactile patch cable design for improved handling

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 / withdrawal 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	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	PVC
minimal bending radius	3 cm
Number of fibers	2
Cable retention	Aramid yam
Weigth	9kg/km
Overal diameter	3 mm

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