



opticalCON POWERSPLIT

Rugged hybrid multi-channel cable assembly consisting of power wires (240V AC / 16A / 1.5 or 2.5mm²) and fiber lines (up to 12 channels). Perfect solution for harsh environments and mobile applications requiring both AC power and multiple fiber strands. Optimized for ENG/SNG.

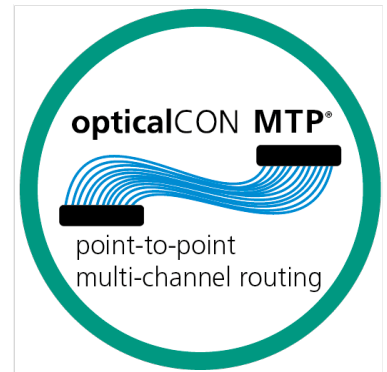
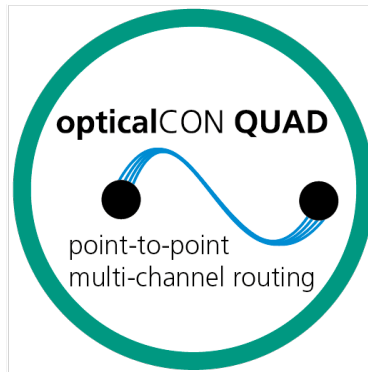
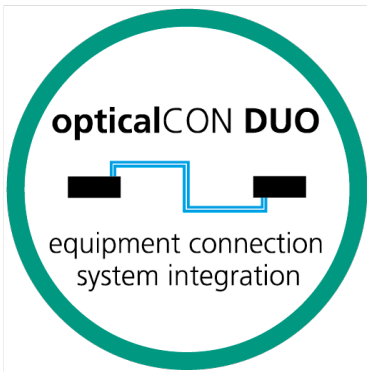
Features & Benefits

- Multi-channel solution based on the opticalCON and powerCON TURE1 TOP connectors
- Perfect solution for applications where high volume of cabling is required. Optimized for point-to-point multi-channel routing and ENG/SNG applications
- One hybrid cable can replace up to 7 standard cables, reducing spooling efforts, weight and space requirements
- POWERSPLIT hybrid multi-channel cable consists of power wires (240V AC / 16A / 1.5 or 2.5mm²) and multi-channel fiber lines (up to 12 channels)
- Ideal for harsh outdoor environments and mobile applications due to innovative rugged design of powerCON TRUE1 TOP and opticalCON ADVANCED DUO/QUAD/MTP connectors
- Extremely long lifetime (up to 5000 mating cycles)
- Lockable powerCON / opticalCON connectors ensure safe and uninterrupted power and data transmission
- Complete solution is IP65 protected in mated condition
- Innovative opticalCON spherical shutter protects fiber connection from dust even in unmated conditions and reduces required maintenance
- Custom split configuration possible

The opticalCON DUO/QUAD/MTP cable connector accommodates up to 12 PC/APC optical channels based on conventional and proven LC/MTP connectivity protected by a ruggedized and durable all-metal housing. It features a spring loaded push-pull locking mechanism and an excellent cable retention utilizing aramid yarn. The optical connection is exceptionally well protected against dirt and dust by an automatically operated sealing cover. The cable is available in different lengths and is packed either on a drum or air spooled.

The powerCON TRUE1 TOP is a locking 16A rms (USA: 20A) true mains connector. It replaces appliance couplers wherever a very rugged solution in combination with a locking device is needed in order to guarantee a safe power connection.

ATTENTION: The powerCON TRUE1 TOP is a connector with IP65 rating and breaking capacity (CBC), i.e. it can be connected or disconnected under load or live.



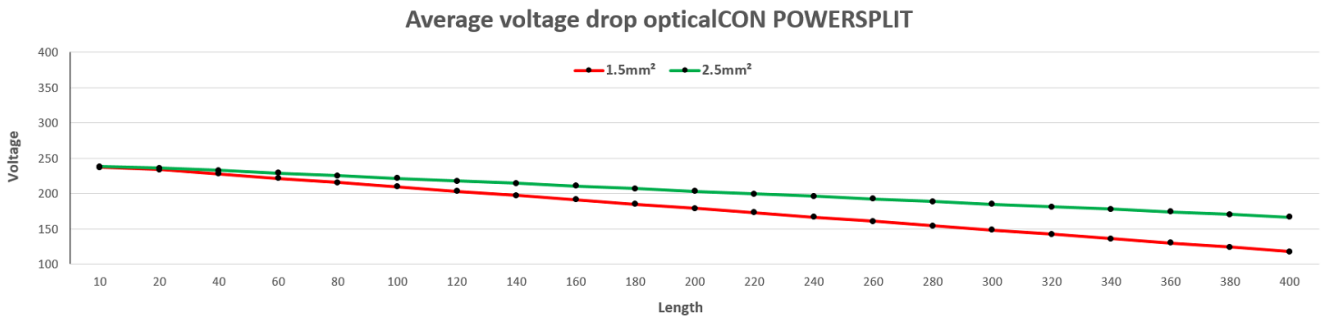
Cable cross section 2.5mm²



Cable cross section 1.5mm²



Average voltage drop



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	-	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	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

opticalCON Features

Technical Information

Product		
Title	POWERSPLIT 1.5mm²	POWERSPLIT 2.5mm²

Mechanical		
Cable retention	500 N	400 N
Insertion force	< 45 N	< 45 N
Withdrawal force	< 45 N	< 45 N
Lifetime	opticalCON DUO / QUAD > 5000	opticalCON DUO / QUAD >5000, MTP >2500
Locking device	Push-Pull	Push-Pull

Material		
Boot	Rubber (EPDM)	Rubber (EPDM)
Bushing	Zinc diecast (ZnAl4Cu1)	Zinc diecast (ZnAl4Cu1)
Insert	Polyamide (PA 6, PBT 30 % GR, PBT 50 % GR)	Polyamide (PA 6, PBT 30 % GR, PBT 50 % GR)
Shell	Zinc diecast (ZnAl4Cu1)	Zinc diecast (ZnAl4Cu1)
Shell plating	Black chromium	Black chromium
Strain relief	Brass (CuZn39Pb3) + PU, Ni	Brass (CuZn39Pb3) + PU, Ni

Environmental		
Temperature range	-30 °C to + 75 °C	-30 °C to + 75 °C

Optical		
Insertion loss	opticalCON DUO / QUAD <0.45 dB	opticalCON DUO / QUAD <0.45 dB
		MTP < 0.9 dB

Mobile cable		
Colour	black, matte	black, matte
Core diameter	Singlemode 9 µm (G.657A)	Singlemode 9 µm (G.657A)
	Multimode 50 µm (OM3)	Multimode 50 µm (OM3)
Cladding diameter	125 µm	125 µm
Minimal bending radius	23.4 cm	26.4 cm
Number of fibers	8	12
Weight	114 kg/km	220 kg/km
Cable diameter	11.7 mm	13.2 mm

Technical Information

Product	
Title	opticalCON POWER SPLIT

Mechanical	
Cable retention	500 N
Insertion force	< 45 N
Withdrawal force	< 45 N
Lifetime (typ.)	opticalCON DUO/QUAD: 5000 mating cycles
Lifetime (typ.)	opticalCON MTP: 2500 mating cycles
Wiresize	
Locking device	Push-Pull

Material	
Boot	Rubber (EPDM)
Bushing	Zinc diecast (ZnAl4Cu1)
Insert	Polyamide (PA 6, PBT 30 % GR, PBT 50 % GR)
Shell	Zinc diecast (ZnAl4Cu1)
Shell plating	Black chromium
Strain relief	Brass (CuZn39Pb3) + PU, Ni

Environmental	
Temperature range	-40 °C to + 70 °C

Optical

Insertion loss	< 0.9 dB
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Mobile cable

Colour	black, matte
Core diameter	Singlemode 9 µm (G.657A), Multimode 50 µm µm (OM3)
Cladding diameter	125 µm
minimal bending radius	24.2 cm
Number of fibers	8
Weigth	114 kg/km
Cable diameter	11.7 mm