



## opticalCON POWERSPLIT

Rugged hybrid multi-channel cable assembly consisting of power wires (240V AC / 16A / 1.5 or 2.5mm<sup>2</sup>) 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.

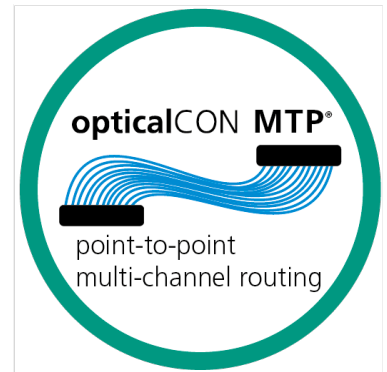
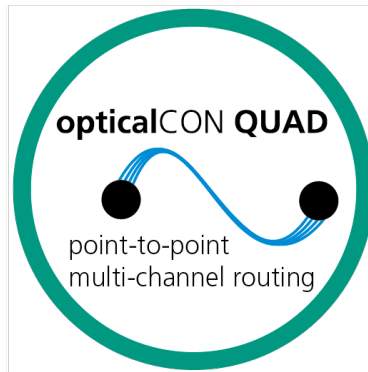
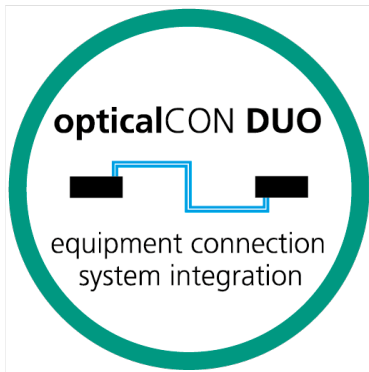
### Features & Benefits

- 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 2.5mm<sup>2</sup>) 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.



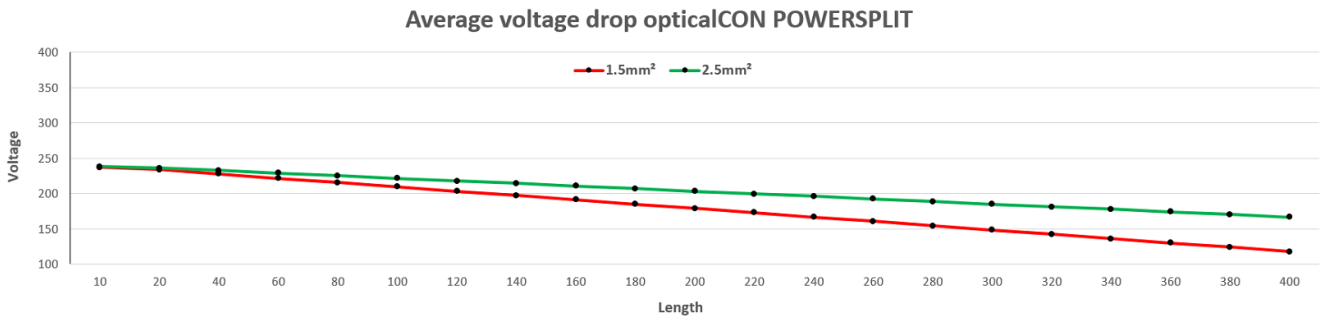
## Cable cross section 2.5mm<sup>2</sup>



## Cable cross section 1.5mm<sup>2</sup>



## 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
<b>Wide</b>	-	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"
<b>High</b>	-	<b>NOT AVAILABLE</b>	<b>NOT AVAILABLE</b>	<b>NOT AVAILABLE</b>	710 mm / 28.0"	555 mm / 21.8"	562 mm / 22.1"
<b>Depth</b>	-	150 mm / 5.9"	230 mm / 9.1"	303 mm / 11.9"	271 mm / 10.6"	312 mm / 12.2"	422 mm / 16.6"
<b>Weight</b>	-	1.5 kg	2.2 kg	4.7 kg	13.9 kg	5.4 kg	16.7 kg

## opticalCON Features

## Technical Information

Product		
<b>Title</b>	<b>POWERSPLIT 1.5mm<sup>2</sup></b>	<b>POWERSPLIT 2.5mm<sup>2</sup></b>

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

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

Environmental		
<b>Temperature range</b>	-30 °C to + 75 °C	-30 °C to + 75 °C

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

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

<b>Insertion loss</b>	< 0.9 dB
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## Mobile cable

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