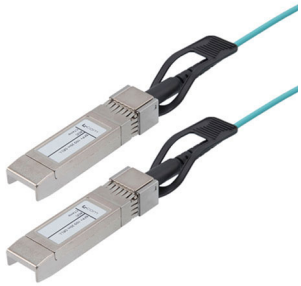
Active Optical Cable SFP+ to SFP+, 10G, 1 to 20 Meters
Riser Rated (OFNR), Universal Compatibility



AOC-SPP-ER-RRR-PPP

Pin	Symbol	Name/Description	NOTE
1	V_{EET}	Transmitter Ground (Common with Receiver Ground)	1
2	T_{FAULT}	Transmitter Fault.	2
3	T_{DIS}	Transmitter Disable. Laser output disabled on high or open.	3
4	SDA	2-wire Serial Interface Data Line	4
5	SCL	2-wire Serial Interface Clock Line	4
6	MOD_ABS	Module Absent. Grounded within the module	4
7	RS0	Rate Select 0	5
8	LOS	Loss of Signal indication. Logic 0 indicates normal operation.	6
9	RS1	No connection required	1
10	V_{EER}	Receiver Ground (Common with Transmitter Ground)	1
11	V_{EER}	Receiver Ground (Common with Transmitter Ground)	1
12	RD-	Receiver Inverted DATA out. AC Coupled	
13	RD+	Receiver Non-inverted DATA out. AC Coupled	
14	V_{EER}	Receiver Ground (Common with Transmitter Ground)	1
15	V_{CCR}	Receiver Power Supply	
16	V_{CCT}	Transmitter Power Supply	
17	V_{EET}	Transmitter Ground (Common with Receiver Ground)	1
18	TD+	Transmitter Non-Inverted DATA in. AC Coupled.	
19	TD-	Transmitter Inverted DATA in. AC Coupled.	
20	V_{EET}	Transmitter Ground (Common with Receiver Ground)	1

Notes:

1. Circuit ground is internally isolated from chassis ground.
2. T_{FAULT} is an open collector/drain output, which should be pulled up with a 4.7k – 10k Ohms resistor on the host board if intended for use. Pull up voltage should be between 2.0V to Vcc + 0.3V.A high output indicates a transmitter fault caused by either the TX bias current or the TX output power exceeding the preset alarm thresholds. A low output indicates normal operation. In the low state, the output is pulled to <0.8V.
3. Laser output disabled on T_{DIS} >2.0V or open, enabled on T_{DIS} <0.8V.
4. Should be pulled up with 4.7kΩ- 10kΩ host board to a voltage between 2.0V and 3.6V. MOD_ABS pulls line low to indicate module is plugged in.
5. Internally pulled down per SFF-8431 Rev 4.1.
6. LOS is open collector output. It should be pulled up with 4.7kΩ – 10kΩ on host board to a voltage between 2.0V and 3.6V. Logic 0 indicates normal operation; logic 1 indicates loss of signal.

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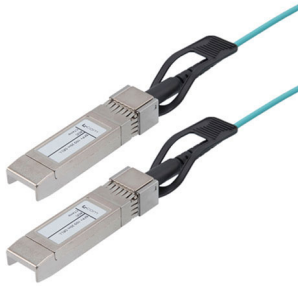

AOC-SPP-ER-RRR-PPP

Available Platforms			
OEM/Designations			
A10 Networks	A1N	Force10	F10
Accedian	ACC	Fortinet	FOR
Adtran	ADT	Fujitsu	FUJ
Adva	ADV	Fujitsu 4100	F41
Alcatel 73XX	A73	Fujitsu 7120	F71
Alcatel 7x50	A7x	Fujitsu CDS	FCD
Alcatel TSS-100	ATS	Fujitsu 9500	F95
Alcatel DMX	ADM	Gigamon	GIG
Alcatel LambdaUnite	ALU	Hewlett Packard	HPP
Alcatel OMNI	AOM	Huawei	HWI
Alcatel PSS 1830	A83	IBM	IBM
Allied Telesis	ATE	Infinera	INF
Arista	ARI	Ixia	IXA
Arista/Dell	ARD	Juniper	JUN
Arris	ARS	Mellanox	MEL
Avaya/Nortel Passport	ANP	Meraki	MER
Brocade/Foundry	BFO	MikroTik	MTK
BTI	BTI	MOXA	MOX
Calix	CLX	MRV	MRV
Check Point	CHP	MSA	MSA
Ciena	CAN	NetApp	NTA
Ciena/Nortel OM6500	CNO	NetScout	NTS
Canoga Perkins	CGP	Nokia	NOK
Cisco	CSC	Nokia 7xxx	N7x
Cisco ONS	ONS	Occam	OCM
Coriant	CRN	Optelian	OPT
Cyan	CYN	Palo Alto Networks	PAN
Dasan Networks	DAN	RAD	RAD
Dell	DLL	Raisecom	RAI
Edgecore Networks	ECN	Tejas Network	TEN
Ekinops	EKS	Telco	TEL
Enterasys	ENT	Tellabs	TLB
Ericsson	ERC	Transmode	TSM
Extreme	EXT	Ubiquiti Networks	UBI
F5	F5	Zhone	ZHO

Cable Lengths	
Meters	Designations
1	001
2	002
3	003
5	005
7	007
10	010
15	015
20	020
25	025
30	030

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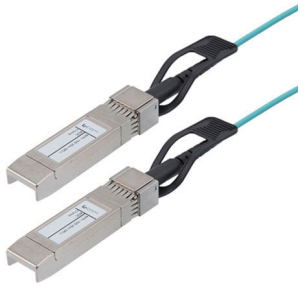

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