

ACTIVE OPTICAL CABLE

10G SFP+ AOC



FEATURE

- SFF-8431 compliant SFP+ form-factor connectors
- Hot-pluggable electrical interface
- Transmission data rate up to 10.3Gbps
- 850nm VCSEL laser
- PIN photo-detector
- Low power consumption < 1W per end
- Length up to 300m using OM3 MMF
- All-metal housing for superior EMI performance
- Operating case temperature range 0°C to +70°C



APPLICATIONS

- 10 Gigabit Ethernet
- 4G and 8G Fibre Channel Applications
- 1x InfiniBand QDR, DDR, SDR
- High-performance computing clusters
- Servers, switches, storage and host card adapters

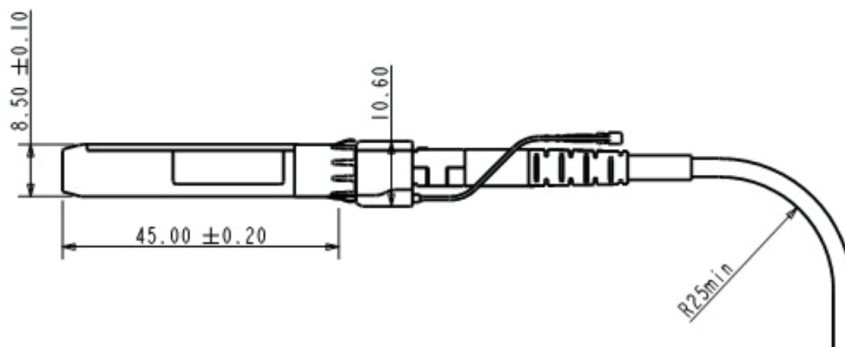
OVERVIEW

Focomm SFP+ Active Optical Cables are direct-attach fiber assemblies with SFP+ connectors. They are suitable for very short distances and offer a cost-effective way to connect within racks and across adjacent racks. Optone SFP+ Active Optical Cables's length is up to 300 meters on OM3 MMF.

SPECIFICATIONS

Parameter	Description
Module Form Factor	SFP+ (Supports SFF8431/SFF8432/SFF8472)
Protocols Supported	InfiniBand, Ethernet, Fiber Channel
Channel Data Rate	Rate 1 to 10.3125Gbps
BER	<10 ⁻¹²
Operating Case Temperature	0 to + 70°C
Storage Temperature	-20 to + 85°C
Supply Voltage	3.3V
Supply current	230mA per end typical

MECHANICAL SPECIFICATIONS



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OPTICAL CHARACTERISTICS

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Transmitter						
Center Wavelength	λ_t	840	850	860	Nm	
RMS spectral width	Pm				Nm	1
Average Optical Power	Pavg	-6.5		-1	dBm	2
Extinction Ratio	ER	3.5			dB	3
Transmitter Dispersion Penalty	TDP			3.9	dB	
Relative Intensity Noise	Rin			-128	dB/Hz	12dB reflection
Optical Return Loss Tolerance				-12	dB	
Receiver						
Center Wavelength	λ_r	840	850	860	nm	
Receiver Sensitivity	Psens			-11.1	dBm	4
Stressed Sensitivity in OMA				-7.5	dBm	4
Los function	Los	-30		-12	dBm	
Overload	Pin			-1.0	dBm	4
Receiver Reflectance				-12	dB	

Note:

1. Trade-offs are available between spectral width, center wavelength and minimum OMA, as shown in table 6.
2. The optical power is launched into MMF
3. Measured with a PRBS 231 -1 test pattern @10.3125Gbps
4. Measured with a PRBS 231 -1 test pattern @10.3125Gbps, BER \leq 10⁻¹².

ORDER INFORMATION

PRODUCT	PART NUMBER
1 meter 10G SFP+ ActiveOptical Cable	MC-OPT-SFP+-AOC-1
3 meter 10G SFP+ ActiveOptical Cable	MC-OPT-SFP+-AOC-3
5 meter 10G SFP+ ActiveOptical Cable	MC-OPT-SFP+-AOC-5
7 meter 10G SFP+ ActiveOptical Cable	MC-OPT-SFP+-AOC-7
10G SFP+ Active Optical Cable up to 300m on OM3 MMF	MC-OPT-SFP+-AOC-SR