

SFP-10G-AOCXM-C  
Cisco 10GBase-AOC SFP+  
850nm, OM3, Up to 101m Length



### **SFP-10G-AOCxM-C**

10GBase-AOC SFP+ Active Optical Cable

#### **Features**

- Electrical interface compliant to SFF-8431
- Hot Pluggable
- Up to 101m Length
- 850nm VCSEL transmitter, PIN photo-detector receiver
- Operating case temperature: 0°C to 70°C
- All-metal housing for superior EMI performance
- RoHS compliant (lead free)

#### **Product Description**

This is a Cisco® compatible 10GBase-AOC SFP+ to SFP+ active optical cable that operates over multi-mode fiber. At a wavelength of 850nm, it has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. This active optical cable is TAA (Trade Agreements Act) compliant, and is built to comply with MSA (Multi-Source Agreement) standards. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

ProLabs' SFP+ active optical cables are RoHS compliant and lead free.

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products."



## SFP+AOC 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°C to 70°C
Storage Temperature	-20 to + 85°C
Supply Voltage	3.3V
Supply Current (typical)	230mA per end
Management Interface Serial	I <sup>2</sup> C (Supports SFF8472)

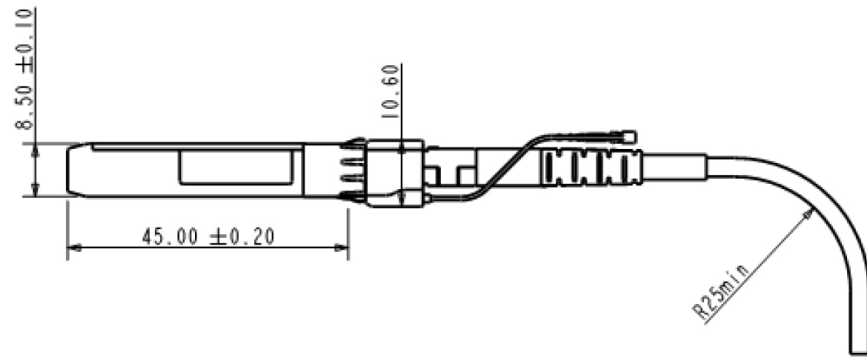
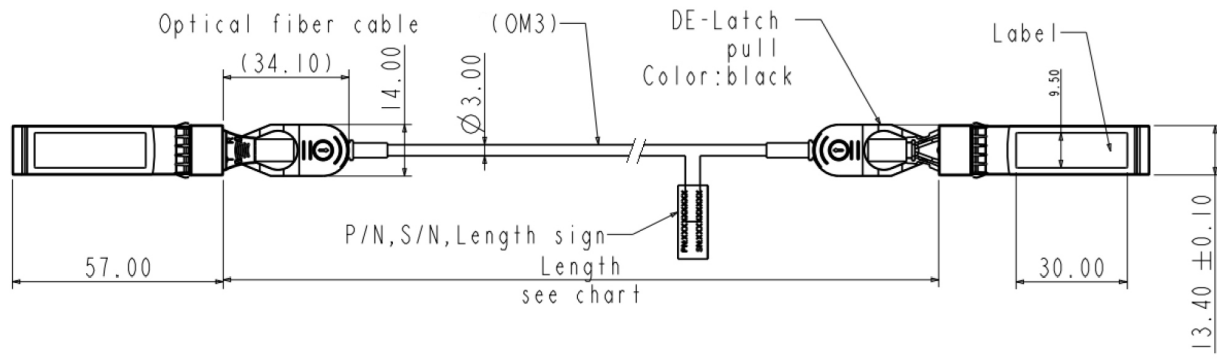
## Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
<b>Transmitter</b>						
Centre Wavelength	$\lambda_C$	840	850	860	nm	
RMS spectral width	$\Delta\lambda$				nm	1
Average launch power, each lane	P <sub>out</sub>	-6.5		-1	dBm	2
Extinction Ratio	ER	3.5			dB	3
Transmitter Dispersion Penalty	TDP			3.9	dB	
Relative Intensity Noise	R <sub>in</sub>			-128	dB/Hz	4
Optical Return Loss Tolerance				12	dB	
<b>Receiver</b>						
Center Wavelength	$\lambda_C$	840	850	860	nm	
Receiver Sensitivity	P <sub>sens</sub>			-11.1	dBm	5
Stress Sensitivity in OMA				-7.5	dBm	5
Los function	Los	-30		-12	dBm	
Overload	P <sub>in</sub>			-1.0	dBm	5
Receiver Reflectance				-12	dB	

### Note:

1. Tradeoffs are available between spectral width, center wavelength and minimum OMA.
2. The optical power is launched into MMF
3. Measured with PRBS 2<sup>31</sup>-1 test pattern @10.3125Gbps
4. 12dB reflection
5. Measured with PRBS 2<sup>31</sup>-1 test pattern @10.3125Gbps, BER $\leq 10^{-12}$

### Mechanical Specification



Cable Color: Aqua