

# 3M™ Active Optical Cable (AOC) Assemblies for SFP+ Applications

Using industry leading VCSEL technology and an advanced new light engine design, the 3M Active Optical Cable Assembly for SFP+ Applications provides exceptional cost/performance value. The SFP+ AOC delivers a single bi-directional channel operating at up to 10.3125 Gbps while using a subtle 240mW (typical) of energy per end.

## Features

- Low power @ 240mW typical
- 1 channel operating at up to 10.3125 Gbps
- Fiber link up to 100m
- BER @  $10^{-12}$
- Hot pluggable
- Bend insensitive fiber
- Full set of diagnostic features
- Supports to SFF-8431 Enhanced Small Form Factor Pluggable Module SFP+, Rev 4.1
- Supports to Fiber Channel Physical Interface – 5 (FC-PI-5) Rev 6.10 released
- Class 1 eye-safe per IEC 60825-1/CDRH
- FCC Class B and CE Emissions and Immunity (EN 61000 4-3)
- 3M 2-year active optical warranty
- RoHS Compliant\*

## Applications

- High-performance computing clusters
- 10G Ethernet applications (10GbE)
- 4G and 8G Fiber Channel Applications (4GFC/8GFC)
- 1x InfiniBand QDR, DDR, SDR
- Servers, switches, storage and host card adapters (NIC)

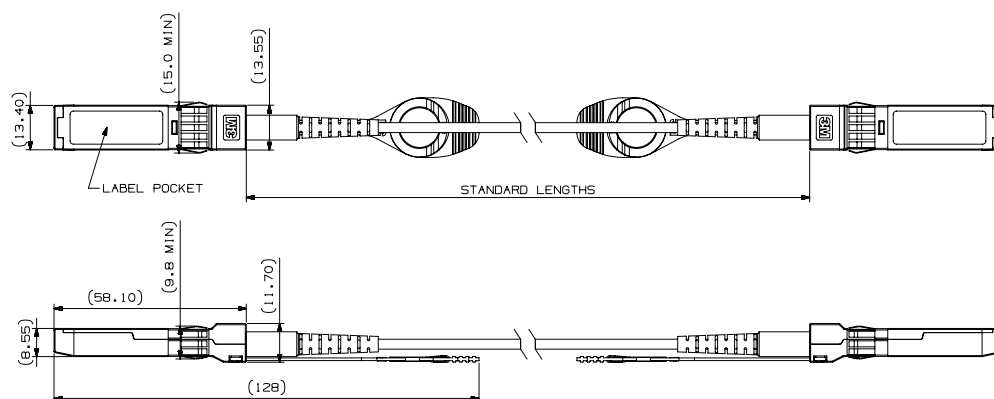


## AOC SFP+ Specifications

|                              |                                         |
|------------------------------|-----------------------------------------|
| Module Form Factor           | SFP+ (Supports SFF8431/SFF8432/SFF8472) |
| Protocols Supported          | InfiniBand, Ethernet, Fiber Channel     |
| Channels                     | 1 channel, bi-directional               |
| Channel Data Rate            | 1 to 10.3125 Gbps/channel               |
| Operating Optical Wavelength | 850 nm                                  |
| BER                          | <10 <sup>-12</sup>                      |
| Operating Case Temperature   | 0 to + 70°C                             |
| Storage Temperature          | -20 to + 85°C                           |
| Supply Voltage               | 3.3V nominal                            |
| Electrical Interface         | 20-pin edge connector                   |
| Power Consumption            | 240mW per end typical                   |
| Management Interface         | Serial, I2C (Supports SFF8472)          |



# 3M™ Active Optical Cable (AOC) Assemblies for SFP+ Applications



## Ordering Information

Customer drawing number 78-5100-2572-5

6A11 – A01x1 – xxx.x – 0

A = 10G GbE

Cable Jacket  
2 = Plenum  
4 = LSZH

Length in meters

Unless otherwise noted, references to industry specifications are intended to indicate substantial compliance to the material elements of the specification. Such references should not be construed as a guarantee of compliance to all requirements in a given specification.

“RoHS 2011/65/EU” means that the product or part does not contain any of the substances in excess of the maximum concentration values (“MCVs”) in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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