

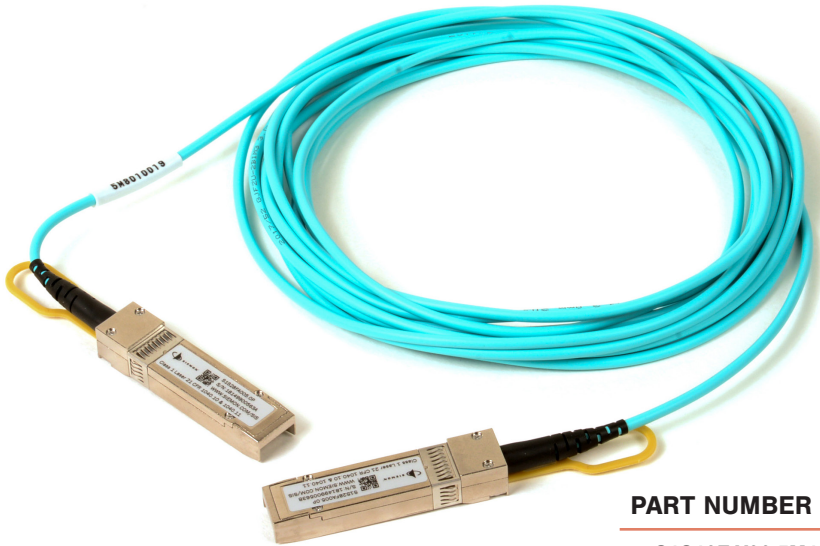
# Active Optical Cables

## SFP+ 10G

Siemon 10G SFP+ Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective alternative to transceiver assemblies available in lengths ranging from 0.5M to 100M, beyond the range of Direct Attach Copper Cables (DAC). These high performance and low power consumption AOCs are Ethernet, InfiniBand and MSA compliant with a robust construction, including a high-strength pull tab latching system which reduces plug loss and ensure more secure installations.

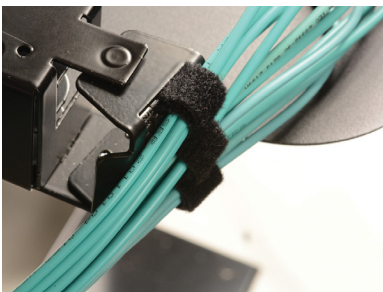
These 10G SFP+ assemblies are capable of transmitting data up to 10Gb/s, offering an easy installation with a flexible, multimode fiber cable. AOCs eliminate the interoperability issues of transceiver assemblies to achieve proper parameter optimization and are equipped with Digital Diagnostic Monitoring, allowing I2C real-time supervision of operating parameters and transmits warnings if those parameters exceed specification.

Typical AOC applications include point-to-point connections within data centers, high performance computing and storage racks. The versatile connections can be rack-to-rack within the same or another row, and their hot swappable and high-density design allows use within a wide range of top-of-rack and other data center architectures.



### STANDARDS COMPLIANCE

- SFP+ MSA
- SFF8431 Electrical
- SFF8432 Mechanical
- RoHS
- Infiniband
- TUV
- UL



#### Small Diameter Bundles

AOC's thin diameter allow for smaller bundles which promotes better airflow.

PART NUMBER (PVC)	PART NUMBER (LS0H)	LENGTH
S1S10F-Y00.5M13	S1S10F-V00.5M13	0.5m (1.64 ft.)
S1S10F-Y01.0M13	S1S10F-V01.0M13	1.0m (3.28 ft.)
S1S10F-Y01.5M13	S1S10F-V01.5M13	1.5m (4.92 ft.)
S1S10F-Y02.0M13	S1S10F-V02.0M13	2.0m (6.56 ft.)
S1S10F-Y03.0M13	S1S10F-V03.0M13	3.0m (9.87 ft.)
S1S10F-Y05.0M13	S1S10F-V05.0M13	5.0m (16.40 ft.)
S1S10F-Y07.0M13	S1S10F-V07.0M13	7.0m (22.97 ft.)
S1S10F-Y10.0M13	S1S10F-V10.0M13	10m (32.80 ft.)
S1S10F-Y15.0M13	S1S10F-V15.0M13	15m (49.21 ft.)
S1S10F-Y20.0M13	S1S10F-V20.0M13	20m (65.62 ft.)
S1S10F-Y25.0M13	S1S10F-V25.0M13	25m (82.02 ft.)
S1S10F-Y30.0M13	S1S10F-V30.0M13	30m (98.43 ft.)
S1S10F-Y40.0M13	S1S10F-V40.0M13	40m (131.23 ft.)
S1S10F-Y50.0M13	S1S10F-V50.0M13	50m (164.04 ft.)
S1S10F-Y0100M13	S1S10F-V0100M13	100m (328.08 ft.)

# Product Information

ABSOLUTE MAXIMUM RATINGS	MIN	MAX
Module Supply Voltage	0.5V	3.6V
Storage Temperature	-20°C (68°F)	85°C (185°F)
Relative Humidity - Storage	0%	85%
Relative Humidity - Operating	0%	85%

MECHANICAL SPECIFICATIONS	
Minimum Bend Radius	30mm
Cable Diameter	3.0mm ± 0.15
Fiber Type	OM3 multimode

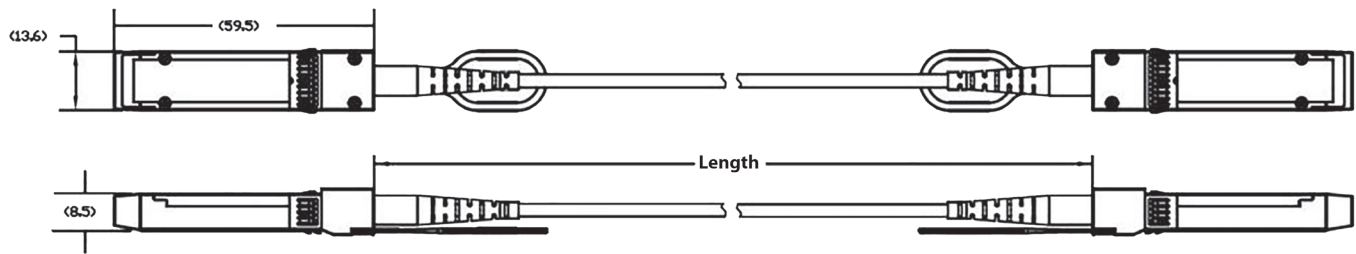
ELECTRICAL SPECIFICATIONS	
Module Supply Voltage	3.14V to 3.46V (3.3V typical)
Case Operating Temperature	0°C (32°F) to 70°C (158°F) 25°C (77°F) (typical)
Single Module Supply Current	240mA max.
Maximum Power Consumption Per End	0.83W
Bit Rate Per Channel	10.3125 Gb/s

TRANSMITTER ELECTRICAL INTERFACE	
Tx Data Differential Input Voltage	200mV to 1000mV
Tx Data Differential Input Impedance	90Ω to 110Ω (100Ω typical)
Transmitter Disable Voltage	2V to $V_{CC1}+0.3$
Transmitter Enable Voltage	0.3V to 0.8V

RECEIVER ELECTRICAL INTERFACE	
Rx Data Differential Output Voltage	300mV to 850mV
Rx Data Differential Output Impedance	90Ω to 110Ω (100Ω typical)
LOS Assert Voltage	2v to $V_{CC1}+0.3$
LOS De-assert Voltage	0.3V to 0.4V

CHANNEL PARAMETERS	
Channels	1 Lane, bi-directional
Data Rate	10.3125 Gbp/s per channel max
Operating Wavelength	850nm

## OVERALL DIMENSIONS



Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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