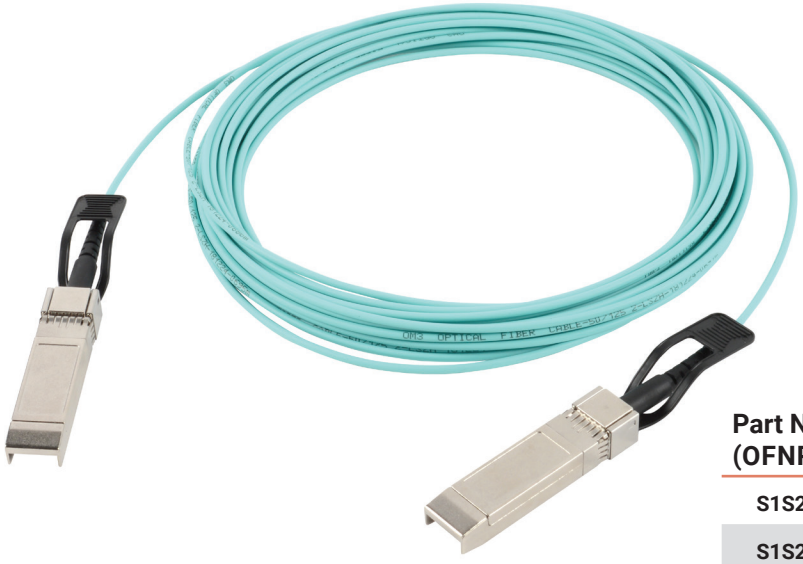
Active Optical Cables
25G SFP28

Regional Availability - Global

Siemon 25G SFP28 Active Optical Cable (AOC) assemblies offer a highly reliable and cost-effective alternative to transceiver assemblies available in lengths ranging from 0.5 m to 100 m, 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 ensures more secure installations.

These 25G SFP28 assemblies are capable of transmitting data up to 25Gb/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 I^2C (Inter-integrated circuit) real-time supervision of operating parameters and transmits warnings if those parameters exceed specification.

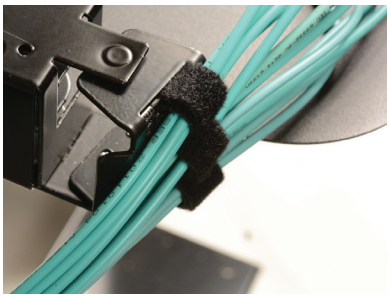
Typical AOC applications include point-to-point connections within data centers, high performance computing and storage racks. The versatile connections can be rack-to-rack within the same row or another row, and their hot swappable and high-density design allows use within a wide range of top-of-rack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



Standards Compliance

- SFP+ MSA
- SFF8431 Electrical
- SFF8432 Mechanical
- RoHS/REACH compliant
- TUV/UL certified
- 25GBASE-SR

Part Number (OFNP)	Part Number (LSZH/OFNR)	Length
S1S28F-Y00.5B13	S1S28F-V00.5B13	0.5m (1.64 ft.)
S1S28F-Y01.0B13	S1S28F-V01.0B13	1.0m (3.28 ft.)
S1S28F-Y01.5B13	S1S28F-V01.5B13	1.5m (4.92 ft.)
S1S28F-Y02.0B13	S1S28F-V02.0B13	2.0m (6.56 ft.)
SIS28F-Y03.0B13	S1S28F-V03.0B13	3.0m (9.87 ft.)
S1S28F-Y05.0B13	S1S28F-V05.0B13	5.0m (16.40 ft.)
S1S28F-Y07.0B13	S1S28F-V07.0B13	7.0m (22.97 ft.)
SIS28F-Y10.0B13	S1S28F-V10.0B13	10m (32.80 ft.)
S1S28F-Y15.0B13	S1S28F-V15.0B13	15m (49.21 ft.)
S1S28F-Y20.0B13	S1S28F-V20.0B13	20m (65.62 ft.)
S1S28F-Y25.0B13	S1S28F-V25.0B13	25m (82.02 ft.)
S1S28F-Y30.0B13	S1S28F-V30.0B13	30m (98.43 ft.)
S1S28F-Y40.0B13	S1S28F-V40.0B13	40m (131.23 ft.)
S1S28F-Y50.0B13	S1S28F-V50.0B13	50m (164.04 ft.)
S1S28F-X0100B13	S1S28F-T0100B13	100m (328.08 ft.)



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

Product Information

Absolute Maximum Ratings	Min	Max
Module Supply Voltage	0.0V	4.0V
Storage Temperature	-40°C (-40°F)	85°C (185°F)
Relative Humidity - Storage	0%	85%
Relative Humidity - Operating	0%	85%

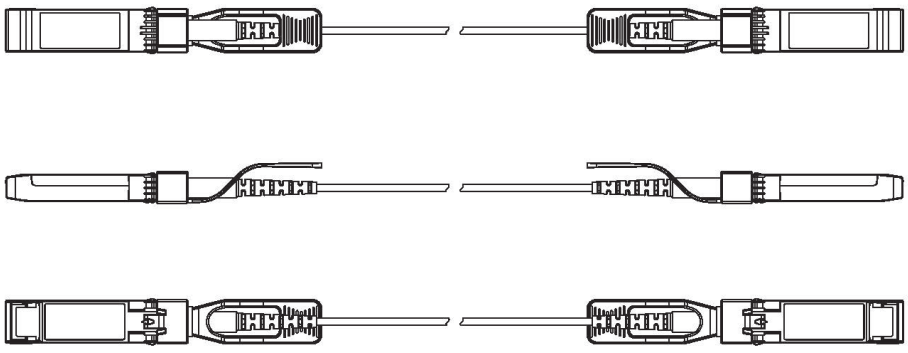
Mechanical Specifications	
Minimum Bend Radius	20 × OD mm (without tension) 10 × OD mm (with max tension)
Cable Diameter (OD)	3.0mm ±0.20
Fiber Type	OM3 multimode

Electrical Specifications	
Module Supply Voltage	3.13V to 3.47V (3.3V typical)
Case Operating Temperature	0°C (32°F) to 70°C (158°F) 25°C (77°F) (typical)
Single Module Supply Current	220 mA (typical)
Maximum Power Consumption Per End	0.8W
Covered in Channel Parameters	Covered in Channel Parameters

Channel Parameters	
Channels	1 Lane, bi-directional
Data Rate per Channel	25.78 Gb/s (max)
Operating Wavelength	850nm

Receiver Electrical Interface	
Rx Data Differential Output Voltage	800mV (max)
Rx Data Differential Output Impedance	100Ω (typical)
LOS Assert Voltage	2V to V_{CCT}+0.3V
LOS De-assert Voltage	0.3V to 0.4V

Transmitter Electrical Interface	
Tx DataDifferential Input Voltage	200mV to 900mV
Tx Data Differential Input Impedance	100Ω (typical)
Transmitter Disable Voltage	2V to V_{CCT}+0.3V
Transmitter Enable Voltage	0.3V to 0.8V



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