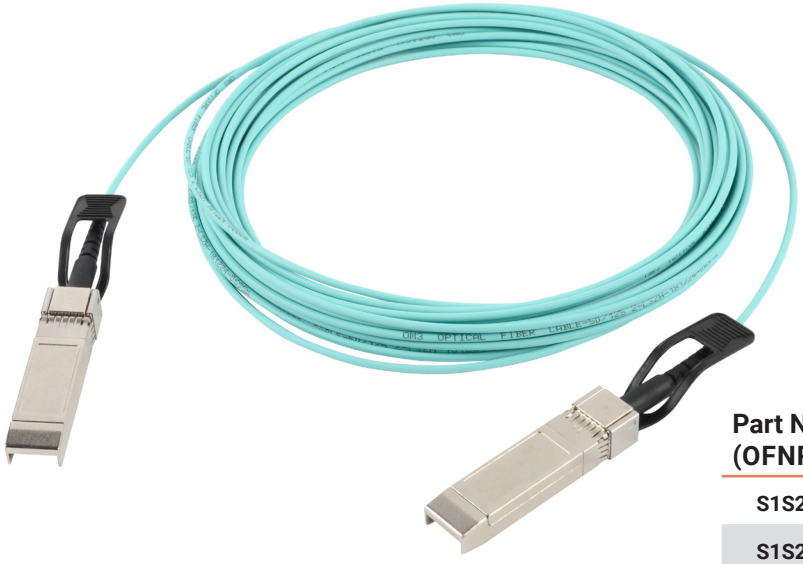
Active Optical Cables
25G SFP28

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.

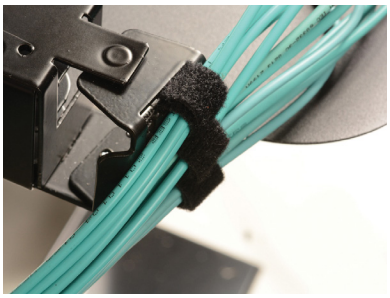
These 25G SFP28 assemblies are capable of transmitting data up to 25Gb/s, offering an easy installation with a flexible, multimode fiber cable. AOCs eliminate the interoperability issues of transceiver assemblies to achieve proper parameter optimization and are equipped with Digital Diagnostic Monitoring, 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



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

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.)

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%

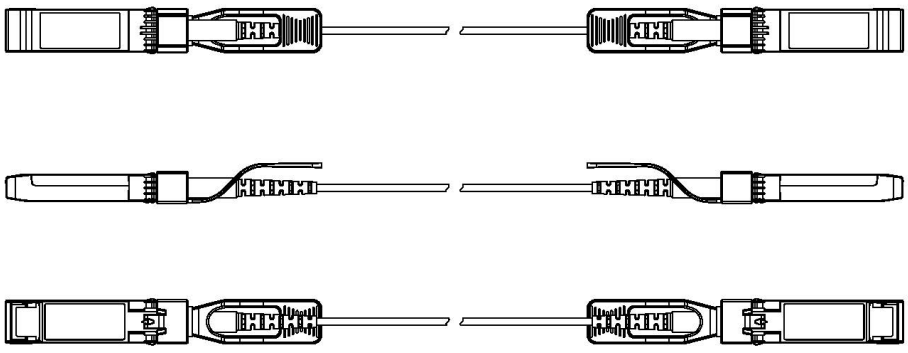
Mechanical Specifications	
Minimum Bend Radius	20 × OD mm (without tension) 10 × OD mm (with max tension)
Cable Diameter (OD)	3.0mm ±0.20
Fiber Type	OM3 multimode

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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