

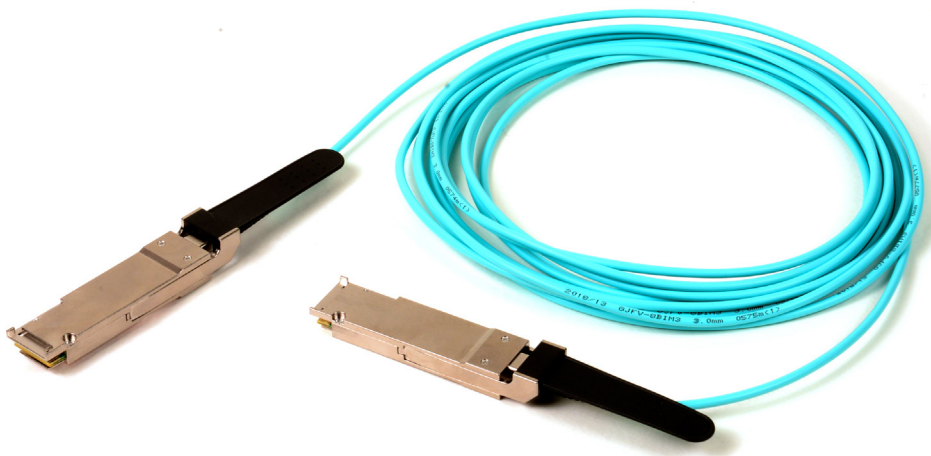
Active Optical Cables

QSFP28 100G

Siemon 100G QSFP28 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.

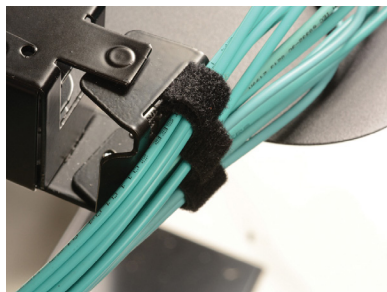
These 100G QSFP28 assemblies are capable of transmitting data up to 100Gb/s, offering an easy installation with a flexible, multimode fiber cable. AOCs eliminate the interoperability issues of transceiver assemblies to achieve proper parameter optimization and are equipped with Digital Diagnostic Monitoring, 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 row or another row, and their hot swappable and high-density design allows bi-directional use within a wide range of top-of-rack and other data center architectures.



STANDARDS COMPLIANCE

- QSFP28 MSA
- IEEE P802.3bm
- 100GBASE-SR4
- RoHS
- CML Compatible Electrical I/O



Small Diameter Bundles

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

| PART NUMBER (PVC) | PART NUMBER (LSOH) | LENGTH |
|-------------------|--------------------|-------------------|
| Q1Q28F-Y00.5M13 | Q1Q28F-V00.5M13 | 0.5m (1.64 ft.) |
| Q1Q28F-Y01.0M13 | Q1Q28F-V01.0M13 | 1.0m (3.28 ft.) |
| Q1Q28F-Y01.5M13 | Q1Q28F-V01.5M13 | 1.5m (4.92 ft.) |
| Q1Q28F-Y02.0M13 | Q1Q28F-V02.0M13 | 2.0m (6.56 ft.) |
| Q1Q28F-Y03.0M13 | Q1Q28F-V03.0M13 | 3.0m (9.87 ft.) |
| Q1Q28F-Y05.0M13 | Q1Q28F-V05.0M13 | 5.0m (16.40 ft.) |
| Q1Q28F-Y07.0M13 | Q1Q28F-V07.0M13 | 7.0m (22.97 ft.) |
| Q1Q28F-Y10.0M13 | Q1Q28F-V10.0M13 | 10m (32.80 ft.) |
| Q1Q28F-Y15.0M13 | Q1Q28F-V15.0M13 | 15m (49.21 ft.) |
| Q1Q28F-Y20.0M13 | Q1Q28F-V20.0M13 | 20m (65.62 ft.) |
| Q1Q28F-Y25.0M13 | Q1Q28F-V25.0M13 | 25m (82.02 ft.) |
| Q1Q28F-Y30.0M13 | Q1Q28F-V30.0M13 | 30m (98.43 ft.) |
| Q1Q28F-Y40.0M13 | Q1Q28F-V40.0M13 | 40m (131.23 ft.) |
| Q1Q28F-Y50.0M13 | Q1Q28F-V50.0M13 | 50m (164.04 ft.) |
| Q1Q28F-X0100M13 | Q1Q28F-T0100M13 | 100m (328.08 ft.) |

Product Information

| ABSOLUTE MAXIMUM RATINGS | MIN | MAX |
|-------------------------------|------------------|-----------------|
| Module Supply Voltage | 0.5V | 3.6V |
| Storage Temperature | -40°C (-40°F) | 85°C (185°F) |
| Relative Humidity - Storage | 0% | 95% |
| Relative Humidity - Operating | 0% | 85% |

| MECHANICAL SPECIFICATIONS | |
|---------------------------|--|
| Minimum Bend Radius | 30mm |
| Cable Diameter | 3.0mm ± 0.15 |
| Fiber Type | OM3 multimode <70m OM4 multimode ≥70m |

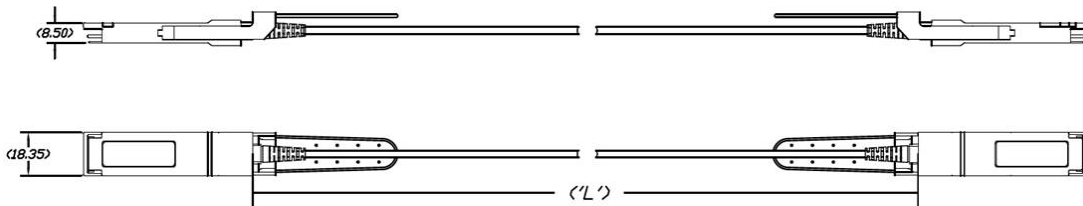
| ELECTRICAL SPECIFICATIONS | |
|-----------------------------------|--|
| Module Supply Voltage | 3.14V to 3.46V (3.3V typical) |
| Case Operating Temperature | 0°C (32°F) to 70° C (158°F) (25°C (77°F) typical) |
| Single Module Supply Current | 540mA (typical) |
| Maximum Power Consumption Per End | 1.78W |
| Bit Rate Per Channel | 25.78 Gb/s |

| TRANSMITTER ELECTRICAL INTERFACE | |
|--------------------------------------|----------------|
| Tx Data Differential Input Voltage | 200mV to 900mV |
| Tx Data Differential Input Impedance | 100Ω (typical) |

| RECEIVER ELECTRICAL INTERFACE | |
|---------------------------------------|----------------------------|
| Rx Data Differential Output Voltage | 440mV (typical) |
| Rx Data Differential Output Impedance | 90Ω to 110Ω (100Ω typical) |

| CHANNEL PARAMETERS | |
|----------------------|-------------------------|
| Channels | 4 Lanes, bi-directional |
| Data Rate | 25.78 Gbp/s 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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|---|--|---|--|-------------------------------------|--|
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