

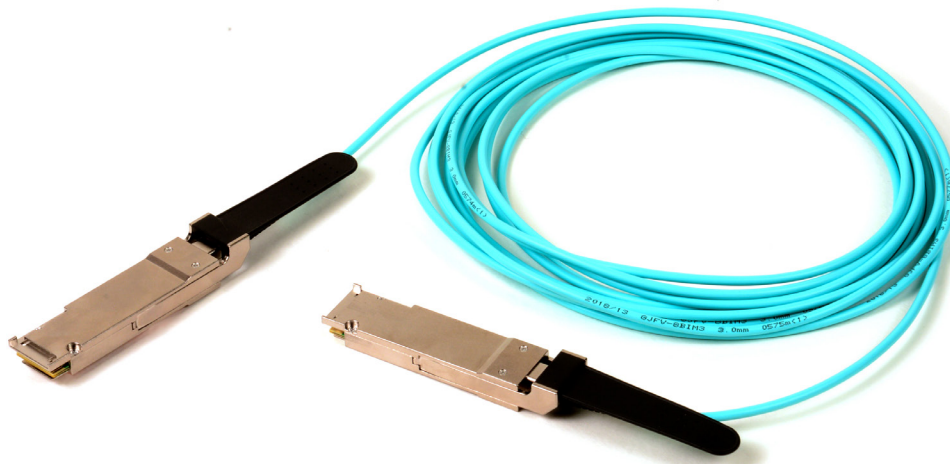
Active Optical Cables

QSFP+ 40G

Siemon 40G QSFP+ 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 ensures and more secure installations.

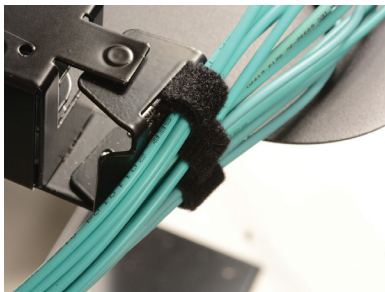
These 40G QSFP+ assemblies are capable of transmitting data up to 40Gb/s, offering an easy installation with a flexible, multimode fiber cable. AOCs eliminate the interoperability issues of transceiver assemblies to achieve proper parameter optimization and are equipped with Digital Diagnostic Monitoring, 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 use within a wide range of top-of-rack and other data center architectures.



STANDARDS COMPLIANCE

- QSFP+ MSA
- IEEE P802.3bm
- 40GBASE-SR4
- RoHS
- CML Compatible Electrical I/O
- 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
Q1Q10F-Y00.5M13	Q1Q10F-V00.5M13	0.5m (1.64 ft.)
Q1Q10F-Y01.0M13	Q1Q10F-V01.0M13	1.0m (3.28 ft.)
Q1Q10F-Y01.5M13	Q1Q10F-V01.5M13	1.5m (4.92 ft.)
Q1Q10F-Y02.0M13	Q1Q10F-V02.0M13	2.0m (6.56 ft.)
Q1Q10F-Y03.0M13	Q1Q10F-V03.0M13	3.0m (9.87 ft.)
Q1Q10F-Y05.0M13	Q1Q10F-V05.0M13	5.0m (16.40 ft.)
Q1Q10F-Y07.0M13	Q1Q10F-V07.0M13	7.0m (22.97 ft.)
Q1Q10F-Y10.0M13	Q1Q10F-V10.0M13	10m (32.80 ft.)
Q1Q10F-Y15.0M13	Q1Q10F-V15.0M13	15m (49.21 ft.)
Q1Q10F-Y20.0M13	Q1Q10F-V20.0M13	20m (65.62 ft.)
Q1Q10F-Y25.0M13	Q1Q10F-V25.0M13	25m (82.02 ft.)
Q1Q10F-Y30.0M13	Q1Q10F-V30.0M13	30m (98.43 ft.)
Q1Q10F-Y40.0M13	Q1Q10F-V40.0M13	40m (131.23 ft.)
Q1Q10F-Y50.0M13	Q1Q10F-V50.0M13	50m (164.04 ft.)
Q1Q10F-Y0100M13	Q1Q10F-V0100M13	100m (328.08 ft.)

Product Information

ABSOLUTE MAXIMUM RATINGS	MIN	MAX
Module Supply Voltage	0.5V	3.6V
Storage Temperature	-40°C (-40°F)	100°C
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

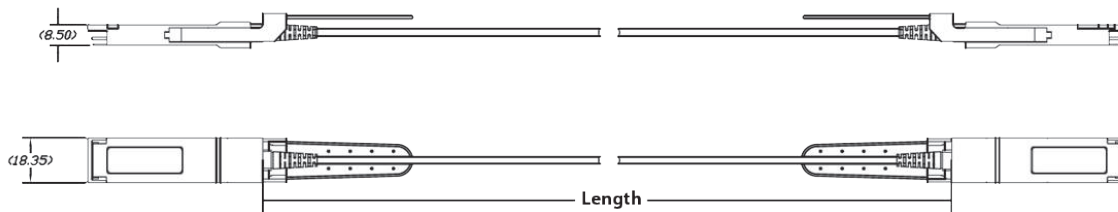
ELECTRICAL SPECIFICATIONS	
Module Supply Voltage	3.14V to 3.46V (3.3V typical)
Case Operating Temperature	0°C (32°F) to 70°C (158°F) 25°C (77°F) (typical)
Single Module Supply Current	350mA max.
Maximum Power Consumption Per End	1.21W
Bit Rate Per Channel	10.3125Gb/s

TRANSMITTER ELECTRICAL INTERFACE	
Tx Data Differential Input Voltage	200mV to 1600mV
Tx Data Differential Input Impedance	100Ω (typical)

RECEIVER ELECTRICAL INTERFACE	
Rx Data Differential Output Voltage	500mV (typical)
Rx Data Differential Output Impedance	90Ω to 110Ω (100Ω typical)

CHANNEL PARAMETERS	
Channels	4 Lanes, bi-directional
Data Rate	10.3125 Gpb/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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