







40Gb/s QSFP+ Active Optical Cable

MC2206310-xxx

The Mellanox® QSFP+ Active Optical Cable (AOC) contains four fiber optic transceivers per end, each operating at data rates of up to 10.325Gb/s. This integrated cable solution provides reliable transport for aggregate data rates of up to 40Gb/s Virtual Port Interconnect (VPI). This SFF-8685 compliant cable can be used for either Ethernet or InfiniBand link protocols.

Rigorous production testing ensures the best out-of-the-box installation experience, performance and durability.

Table 1 - Absolute Maximum Ratings

Parameter	Minimum	Maximum	Units
Supply voltage	-0.5	3.63	V
Data input voltage	-0.3	Vcc+0.3	V
Control input voltage	-0.3	Vcc+0.3	V
Storage temperature	-10	75	°C

Table 2 - Operational Specifications

Parameter	Minimum	Typical	Maximum	Units
Supply voltage (Vcc)	3.15	3.3	3.45	V
Power consumption		0.8	1	W
Supply noise tolerance	66			mV
Operating case temperature	0		70	°C
Operating relative humidity	0		85	%

Table 3 - Cable Mechanical Specifications

Parameter	Value		Units
Diameter	3.3		mm
Minimum bend radius	25		mm
Faceplate to outer-radius	75		mm
Length tolerance	Length < 5m: 5m < Length < 50m: 50m < Length:	+300mm /-0 +500mm / -0 +1000mm /-0	m
Cable color	Length < 30m: Length > 30m:	(OM2) Orange (OM3) Aqua	m

Note 1. See Figure 1 for the cable length definition.

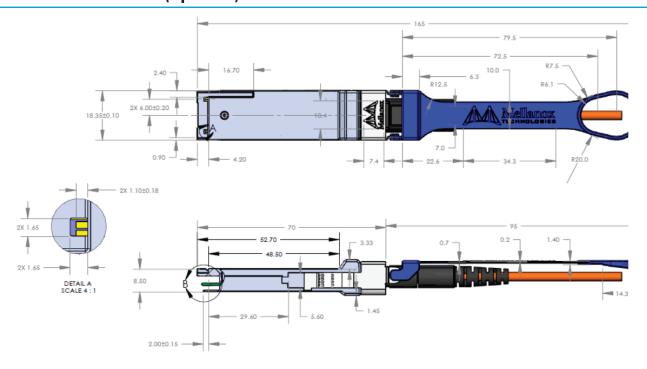
HIGHLIGHTS

- Up to 40Gb/s data rate
- 0.8W typical power consumption
- SFF-8685 compliant
- Operating case temperature of 0-70°C
- 3.3V power supply
- BER better than 1E-15
- Hot pluggable
- Class 1 laser safety
- Up to 100 meters in length
- Standard multimode fiber
- RoHS compliant
- Plenum rated (OFNP)

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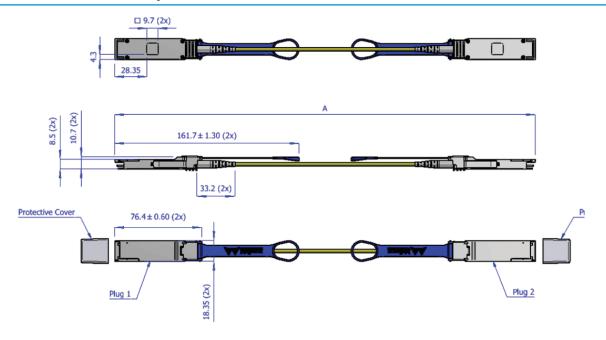


Mechanical Schematics (Option 1)



Note: Multiple options are specified to ensure supply chain robustness. The provided option depends on availability and may change from shipment to shipment.

Mechanical Schematics (Option 2)



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Mechanical Schematics (Option 3)

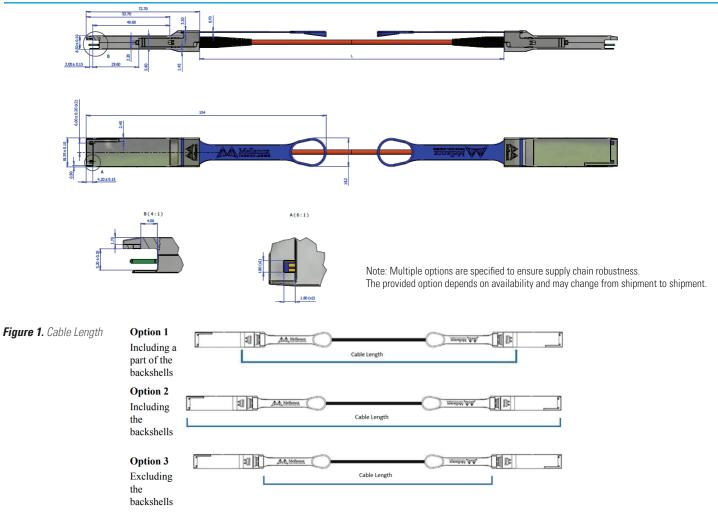


Table 4 - Part Numbers and Descriptions

OPN	Description
MC2206310-003	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 3m
MC2206310-005	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 5m
MC2206310-010	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 10m
MC2206310-015	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 15m
MC2206310-020	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 20m
MC2206310-030	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 30m
MC2206310-050	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 50m
MC2206310-100	Mellanox® active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 100m

Warranty Information

Mellanox LinkX optical transceivers include a 1-year limited hardware warranty, which covers parts repair or replacement.



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