

40Gb/s Passive Copper Cables

Mellanox's 40Gb/s passive copper cables provide robust connections and require no power from the connector. The 40Gb/s passive copper cables are compliant with the InfiniBand Architecture, SFF-8436 specifications and provide connectivity between devices using QSFP ports. 40Gb/s passive copper cables fill the need for short, cost-effective connectivity in the data center. Mellanox's high-quality passive copper cable solutions provide a power-efficient replacement for active power connectivity such as fiber optic cables.

Optimizing systems to operate with Mellanox's 40Gb/s passive copper cables significantly reduces power consumption and EMI emission, eliminating the use of EDC hosts.

Table 1 - Cable Specifications and Ordering Information

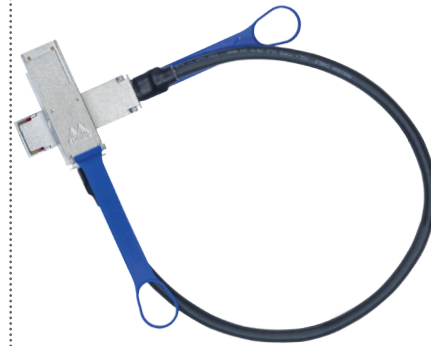
Maximum Reach [m] ¹	Gauge	Max Cable Diameter [mm]	Min Bend Radius [mm]	Assembly Min Bend Radius [mm]	Weight [Grams/meter] ²	Part Number	Application
0.5	30	6.2	30	61	55	MC2206130-00A	IB QDR/FDR10, 40GbE
1	30	6.2	30	61	55	MC2206130-001	IB QDR/FDR10, 40GbE
2	30	6.2	30	61	55	MC2206130-002	IB QDR/FDR10, 40GbE
3	30	6.2	30	61	76	MC2206130-003	IB QDR/FDR10, 40GbE
4	28	7.8	40	71	94	MC2206128-004	IB QDR/FDR10, 40GbE
5	28	7.8	40	71	94	MC2206128-005	IB QDR/FDR10, 40GbE
6	26	9.8	50	82	114	MC2206126-006	IB QDR
7	25	9.8	50	95	119	MC2206125-007	IB QDR

1. Cable length tolerance is 0.1m

2. Weight is per raw cable meter, including connectors, tolerance of +/-10%

Table 2 - Operating Conditions

Parameter	Minimum	Maximum	Units
Data Rate per Lane	1	10	Gb/s
Input Voltage	-0.3	3.6	V
Humidity (RH)	5	85	%
Operating Case Temperature	0°C	70°C	
Storage Ambient Temperature	-10°C	75°C	



HIGHLIGHTS

- Compliant with SFF-8436
- Up to 7m 40Gb/s data rates
- Ultra low crosstalk for improved performance
- Low insertion loss
- BER better than 10⁻¹⁵
- Serial numbers printed on each end
- Tested in an end-to-end system
- RoHS 6 Compliant

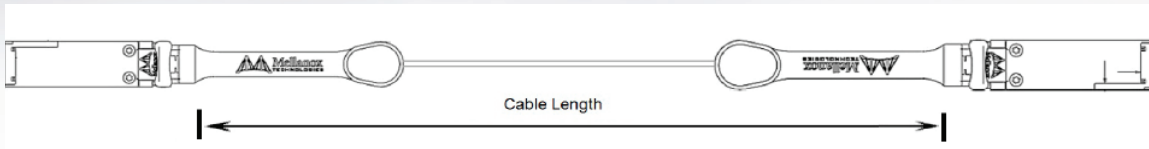


Figure 1. Mechanical Drawings and Information

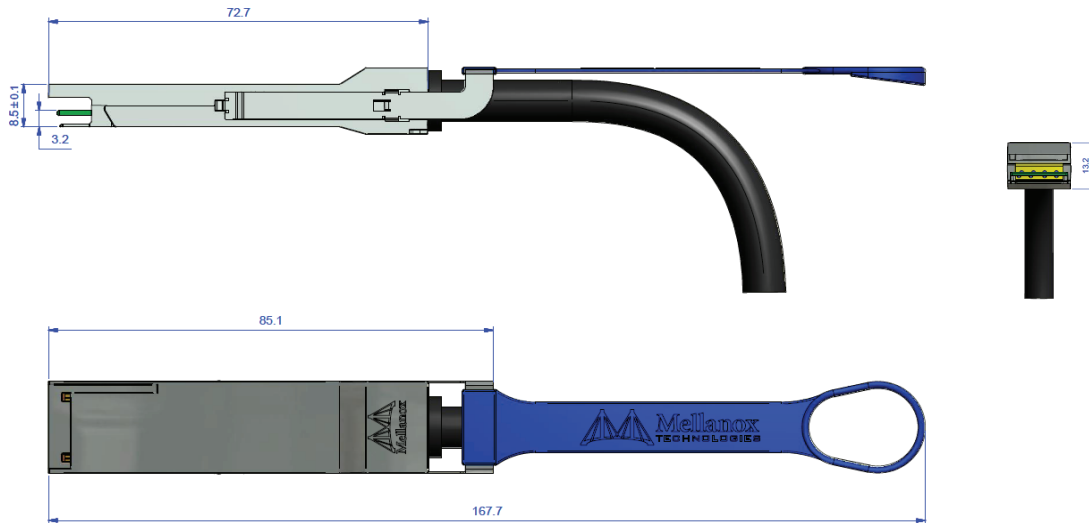


Figure 2. Mechanical Drawings and Information

Warranty Information

The Mellanox Passive Copper 40Gb/s QSFP cables include a 1-year limited hardware warranty, which covers repair or replacement.

Additional Information

For more information about Mellanox QSFP cable solutions, please contact your Mellanox Technologies sales representative or visit: <http://www.mellanox.com=>Products=>Cables=>Cables Overview>



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