Mellanox
TECHNOLOGIES

56Gb/s Passive Copper Cables

Mellanox's passive copper cables provide robust connections for leading edge 56Gb/s systems. Passive copper cables require no additional power to ensure quality connectivity. The 56Gb/s passive copper cables are fully compliant with SFF-8436 specification and provide connectivity between devices using QSFP ports. Mellanox's 56Gb/s passive copper cables fill the need for short, cost-effective connectivity in the data center. Mellanox's high-quality solutions provide a power-efficient replacement for active power connectivity such as fiber optic cables for short distances.

Optimizing systems to operate with Mellanox's 56Gb/s passive copper cables significantly reduces power consumption and EMI emission, eliminating the use of EDC hosts.
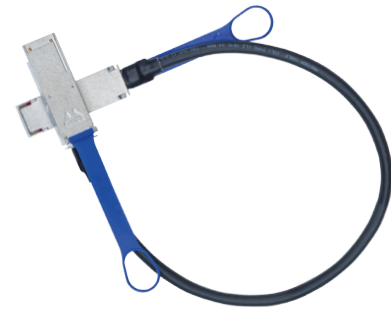
Table 1 - Cable Specifications and Ordering Information

Maximum Reach [m]	Gauge	Max Cable Diameter [mm]	Min Bend Radius [mm]	Weight [Grams/meter][2]	Length Tolerance [mm]	Part Number
0.5	30	6.2	31	55	+100	MC2207130-00A
1	30	6.2	31	55	+100	MC2207130-001
2	30	6.2	31	55	+100	MC2207130-002
3	28	7.1	36	79	+100	MC2207128-003
4		8.2	41			

1. See figure 1 for bend radius description
2. Weight is per raw cable meter, excluding connectors

Table 2 - Operating Conditions

Parameter	Minimum	Maximum	Units
Data Rate per Lane	1	14	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
– Compliant with IEEE 802.3ba
– Up to 3m 56Gb/s data rates
– Ultra low crosstalk for improved performance
– Low insertion loss
– BER better than 10^{-15}
– Serial numbers printed on each end
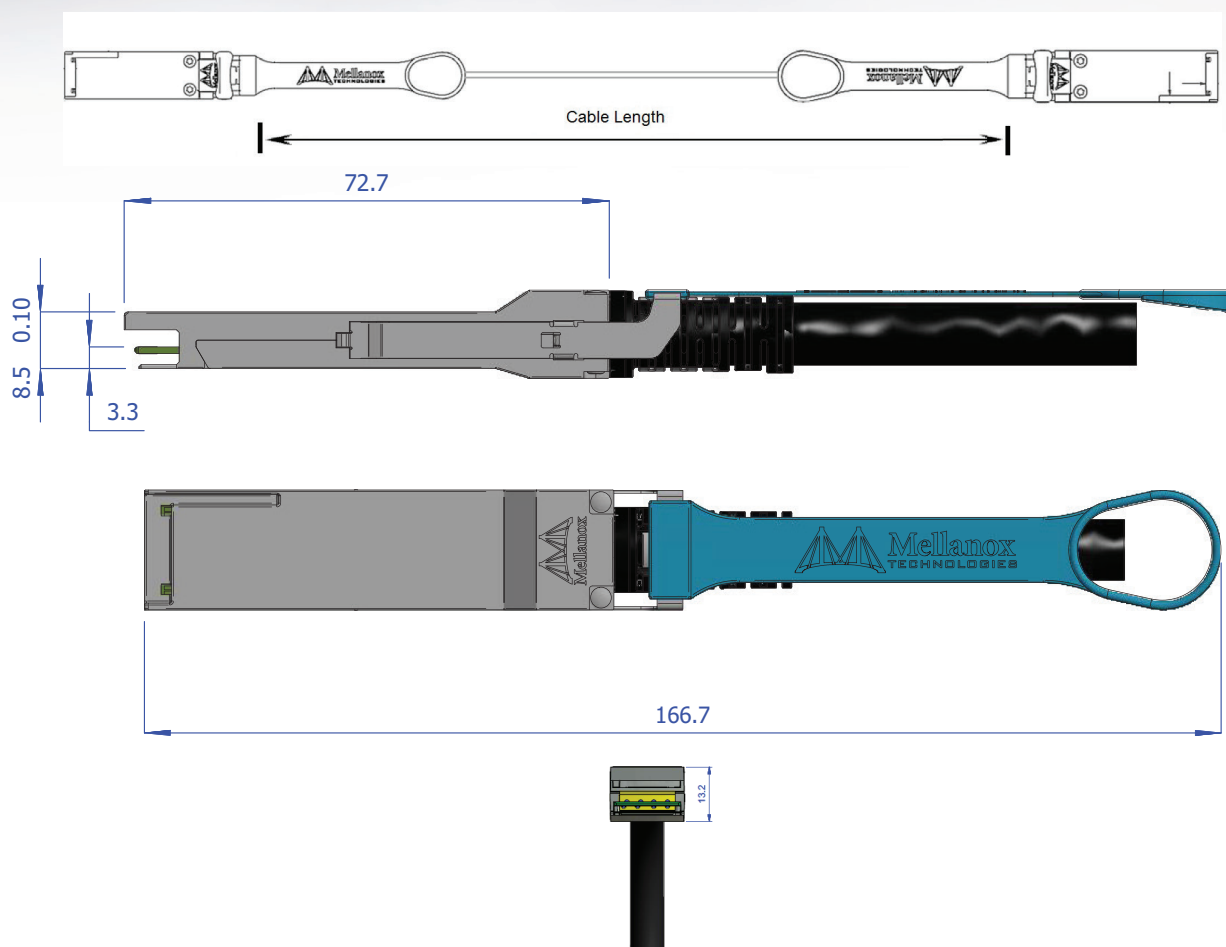– Tested in an end-to-end system
– RoHS Compliant

Figure 1. *Mechanical Drawings and Information*

Warranty Information

The Mellanox 56Gb/s Passive Copper 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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