



200Gb/s HDR QSFP56 Active Optical Cable

MFS1S00-HxxxE

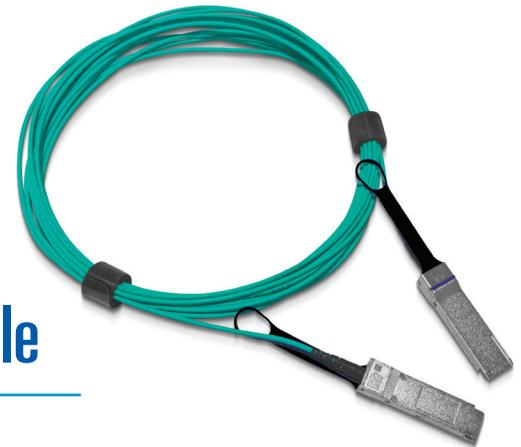
Mellanox® MFS1S00-HxxE active optical cables for InfiniBand HDR are a cost-effective solution for high bandwidth fabrics, extending the benefits of Mellanox's high-performance InfiniBand adapters and switches.

The QSFP56 cable is an assembly of 4 full-duplex lanes, where each lane is capable of transmitting data at rates up to 50Gb/s per direction, using 50Gb/s PAM4 modulation, providing an aggregated rate of 200Gb/s. Mellanox certified cables are 100% tested on Mellanox's equipment to ensure interoperability and the best end-to-end performance. Mellanox's active optical cables are designed to create the smallest environmental footprint.

Mellanox optical solutions provide short, medium and long range scalability for all topologies, utilizing innovative optical technologies to enable extremely high signal integrity and reliability. Rigorous cable production testing ensures best out-of-the-box installation experience, performance and durability.

Table 1 - Part Numbers and Descriptions

Part Number	Description
MFS1S00-H003E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 3m
MFS1S00-H005E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 5m
MFS1S00-H010E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 10m
MFS1S00-H015E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 15m
MFS1S00-H020E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 20m
MFS1S00-H030E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 30m
MFS1S00-H050E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 50m
MFS1S00-H100E	Mellanox® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 100m



HIGHLIGHTS

- Supports IBTA IB HDR
- Compliant with SFF-8665
- Up to 200Gb/s data rate
- 4x 50Gb/s PAM4 modulation
- Ultra low crosstalk for improved performance
- Low insertion loss
- BER better than 1E-15
- RoHS6 compliant
- Laser Safety Class 1
- Power dissipation 5W typ. each end
- Halogen free

Warranty Information

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