



200Gb/s HDR to 2x100Gb/s HDR100 (QSFP56 to 2xQSFP56) Active Optical Splitter Cable

MFS1S50-HxxxE

Mellanox® MFS1S50-HxxxE active optical splitter 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.

This QSFP56 to 2xQSFP56 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. The 200G HDR end is configured as 4-channels x 50G PAM4 in a QSFP56 shell. The HDR100 side splits off 2 channels x 50G PAM4 into two separate QSFP56 ends operating at 100G.

Each QSFP56 cage comprises an EEPROM providing product information that can be read by the host system. 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 the best out-of-the-box installation experience, performance and durability.



Part Number	Description
MFS1S50-H003E	Mellanox® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 3m
MFS1S50-H005E	Mellanox® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 5m
MFS1S50-H010E	Mellanox® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 10m
MFS1S50-H015E	Mellanox® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 15m
MFS1S50-H020E	Mellanox® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 20m
MFS1S50-H030E	Mellanox® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 30m





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
- Serial numbers printed on each end
- Tested in an end-to-end system
- RoHS-6 compliant
- Using Laser Class 4
- Halogen free



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Warranty Information

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