

Super QSFP(100G) to 2x/4xSuper-SFP(25G) Fan-out Copper Cable Assembly



OVERVIEW

Luxshare-TECH Super QSFP to 2x/4xSFP fan-out copper cable assemblies provide a very flexible solution for telecom and data center customers to design the system architecture and topology of the interconnection among devices easily. It could resolve the data transmission well when 100G switch device is interconnected with new server nodes with 25G NIC or some racks are bridged for communication. Based on years of experience, Luxshare-TECH could provide the full range of DAC and ACC products to support 0.5m~10m transmission by a cost-saving method. Luxshare-TECH's S-QSFP to 2x/4xS-SFP has very excellent SI performance and high reliability that are adopted and assigned by the system customer and internet business customers all over the world.

Luxshare-TECH S-QSFP to 4xS-SFP copper cable assemblies consist of 8(100Ohm) differential pairs which are individually shielded. In the cable assembly each side transmits a group of 4 differential pairs each running at 25G. One end of the cable is a QSFP (28G) plug with the standard gold finger interface that complies with the mechanical dimensions of the QSFP MSA. The other end consists of 2x/4xSFP(28G) plugs that conform to SFP MSA. Each data lane will contain one DC blocking cap.

FEATURES & BENEFITS

- ◆ Compliant with SFF-8431/SFF-8436
- ◆ Compliant with IEEE802.3by
- ◆ 4 independent full-duplex passive copper cable transceiver
- ◆ Up to 28 Gbps data rate per channel
- ◆ Mating with the standard 38-pin QSFP(28G) and 20-pin SFP(28G) board connector
- ◆ DAC length from 0.5m~7m, ACC length up to 10m by 32AWG~26AWG high speed raw cable
- ◆ Very excellent SI performance and high reliability
- ◆ I2C based two-wire serial interface of EEPROM signal
- ◆ Operating temperature: 0°C~+70°C
- ◆ Storage Ambient Temperature: -40°C~+85°C
- ◆ Power level I: Less than 30mw
- ◆ All materials comply with RoHS

PRODUCT APPLICATIONS

Server
Network Storage
HPC
Router/Switch

INDUSTRY STANDARDS

IEEE 802.3bj
SFF-8436 & 8431
IBTA FDR EDR
Fiber Channel

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TECHNICAL INFORMATION

MATERIAL

- Contact gold plated 30u"
- Nickel plated zinc die cast shells & latching
- Mechanism parts
- Thermoplastic cable pull tab

ELECTRICAL PERFORMANCE

- Differential impedance: 100ohm
- Current : 0.5 A/contact
- Voltage: 30 V AC/contact

Partial PN Table

Product Numbers	Product Description
LA0QF056-SD-R	S-QSFP to 4xS-SFP 25G passive cable assembly 30AWG 1m
LA0QF057-SD-R	S-QSFP to 4xS-SFP 25G passive cable assembly 30AWG 2m
LA0QF058-SD-R	S-QSFP to 4xS-SFP 25G passive cable assembly 30AWG 3m
LA0QF059-SD-R	S-QSFP to 4xS-SFP 25G passive cable assembly 26AWG 5m
LA0QF060-SD-R	S-QSFP to 4xS-SFP 25G passive cable assembly 28AWG 3m
LA0QF061-SD-R	S-QSFP to 4xS-SFP 25G passive cable assembly 26AWG 3m

MECHANICAL PERFORMANCE

- Rated Durability Cycles 250
- Latch Pull Strength 90N MIN
- Cable Retention in Plug 90N MIN

ENVIRONMENTAL

- Storage temperature range: -40°C to +80°C
- Operating temperature: 0°C to +70°C
- RoHS compliant

SPECIFICATION

ES-10-00-0008

Schematic

