

## QSFP+ Copper Cable Assembly



### OVERVIEW

Luxshare-TECH 40/56Gbps QSFP+ copper cable is widely adopted in the interconnection between switch unit and computing nodes, the interconnection among switch units in datacenter based on Ethernet, and adopted in Supercomputing system based on IBTA. It is a high reliability, high aggregate data bandwidth and cost-saving solution.

Luxshare-TECH 40Gbps QSFP+ copper cable combines four channels operating at speeds up to 10Gbps per channel into one affordable high-density package (QSFP+). Luxshare-TECH QSFP+ cables integrate a standard 38-position gold finger interface and zinc die-cast backshells for superior EMI performance. Luxshare-TECH QSFP+ copper cable provides lower insertion loss, less skew, better mechanical and reliability performance by adopting excellent SI performance raw cable and reliable components. Luxshare-TECH's QSFP+ copper cable products show the diverse type and full range of length coverage with the customers in the industry, DAC up to 7 meter length, ACC up to 10 meter length.

### FEATURES & BENEFITS

- ◆ Compliant with SFF-8436
- ◆ Compliant with IEEE802.3ba
- ◆ Up to 10Gbps data rate per channel
- ◆ Mating with the standard 38-pin QSFP+ connector
- ◆ Copper link length up to 3m for 30AWG or 5m for 26AWG (DAC), 26AWG 10m(ACC)
- ◆ Single +3.3V power supply
- ◆ Low insertion loss, crosstalk
- ◆ 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 RoHS2.0

### PRODUCT APPLICATIONS

Server  
Network Storage  
HPC  
Router/Switch  
HPC  
Video Surveillance

### INDUSTRY STANDARDS

IEEE 802.3ba  
SFF-8436  
IBTA QDR  
SAS2.1

# QSFP+ Copper Cable Assembly

## TECHNICAL INFORMATION

### MATERIAL

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

### ELECTRICAL PERFORMANCE

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

### Partial PN Table

### 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-10-00-0007

Product Numbers	Product Description
LA0QF002-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 30AWG 1.0M
LA0QF003-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 30AWG 2.0M
LA0QF004-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 30AWG 3.0M
LA0QF008-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 28AWG 1.0M
LA0QF009-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 28AWG 2.0M
LA0QF010-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 28AWG 3.0M
LA0QF011-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 28AWG 5.0M
LA0QF014-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 26AWG 1.0M
LA0QF015-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 26AWG 2.0M
LA0QF016-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 26AWG 3.0M
LA0QF017-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 26AWG 5.0M
LA0QF018-SD-R	QSFP+ PASSIVE CABLE ASSEMBLY 26AWG 7.0M

### Schematic

