

## Super QSFP-DD/Ultra QSFP-DD Copper Cable Assembly

### OVERVIEW

Luxshare-TECH is the leading Super QSFP-DD(200G)/Ultra QSFP-DD(400G) solution provider in the industry by developing the end-to-end products including copper cable, the corresponding connector and cage.

Luxshare-TECH Super-/Ultra-QSFP-DD copper cable assembly combines 8 channels(Double Density against QSFP) operating at speeds up to 25Gbps(NRZ)/56Gbps(PAM4) per channel into one affordable high-density package(QSFP-DD). The total port bandwidth is up to 200Gbps/400Gbps.

Luxshare-TECH Super-/Ultra-QSFP-DD copper cables integrate a standard 76-position gold finger interface and zinc die-cast backshells for superior EMI performance. Luxshare-TECH Super-/Ultra-QSFP-DD copper cable provides excellent SI performance and reliability performance by adopting excellent SI performance raw cable and reliable components. Luxshare-TECH's Super-/Ultra-QSFP-DD copper cable products provide the diverse type and full range of length coverage for the customers in the industry, 400G DAC length up to 3meter, ACC up to 7meter length. And all the design is based on the industry standard specifications, such as SFF-8679, SFF-8636 and QSFP-DD MSA specification.



### FEATURES & BENEFITS

- Compliant with QSFP-DD MSA Specification
- SFF-8679 electrical interface compliant
- SFF-8636 management interface support
- Compliant with IEEE802.3Bj, By, IEEE802.3CD Standard
- Support 25G and 50G (PAM4) electrical data rates/channel
- I2C for EEPROM communication
- Pull to Release latch design
- 30~26AWG Cable Optional
- Excellent EMI/EMC performance 360 degree cable shield termination
- Advantage dual side pre-solder automated assembly technologies
- Excellent SI performance
- Ultra QSFP-DD and Super QSFP-DD both are backward compatible with the QSFP(Qual Small Form Factor)

### PRODUCT APPLICATIONS

Data center & Networking Equipment  
Servers/Storage Devices  
High Performance Computing (HPC)  
Switches/Routers

### INDUSTRY STANDARDS

IEEE 802.3bj  
IEEE802.3cd  
SFF-8071/8419  
IBTA EDR, HDR

## 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

### 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: -20°C to +80°C  
RoHS compliant

### SPECIFICATION

ES-10-00-0013

### Partial PN Table

Product Numbers	Product Description
LA0DDXXX-SD-R	QSFP-DD 800G 26AWG 1.5M Passive cable assembly
LA0DDXXX-SD-R	QSFP-DD 800G 30AWG 1.0M Passive cable assembly
LA0DDXXX-SD-R	QSFP-DD 800G 30AWG 0.5M Passive cable assembly
LA0DDXXX-SD-R	QSFP-DD 400G 26AWG 3.0M Passive cable assembly
LA0DDXXX-SD-R	QSFP-DD 400G 28AWG 2.0M Passive cable assembly
LA0DDXXX-SD-R	QSFP-DD 400G 30AWG 1.0M Passive cable assembly

### Schematic

