

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

### OVERVIEW

Luxshare-TECH is the leading Super SFP-DD(50G)/Ultra SFP-DD(100G) solution provider in the industry by developing the end-to-end products including copper cable, the corresponding connector and cage.

Luxshare-TECH Super/Ultra SFP-DD copper cable assembly combines 2 channels(Double Density against SFP) operating at speeds up to 25Gbps(NRZ)/56Gbps(PAM4) per channel into one affordable high-density package(SFP-DD). The total port bandwidth is up to 50Gbps/100Gbps. Luxshare-TECH Super/Ultra SFP-DD copper cables integrate a standard 40-position gold finger interface and zinc die-cast backshells for superior EMI performance. Super/Ultra SFP-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 SFP-DD copper cable products provide the diverse type and full range of length coverage for the customers in the industry, 100G DAC length up to 3meter, ACC up to 5meter length. And all the design is based on the industry standard specifications, such as SFF-8432, SFF-8636 and SFP-DD MSA specification.



### FEATURES & BENEFITS

- ◆ Compliant with SFP-DD MSA Specification
- ◆ 2 independent full-duplex copper cable transceiver
- ◆ Compliant with IEEE802.3by, IEEE802.3cd Standard
- ◆ Support 28G(NRZ) and 56G (PAM4) electrical data rates/channel
- ◆ 100G DAC length up to 3meter, ACC length up to 5meter
- ◆ I2C for EEPROM communication
- ◆ Pull to Release latch design, straight pull tab design
- ◆ Operating temperature: 0°C~+70°C
- ◆ Excellent SI performance

### PRODUCT APPLICATIONS

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

### INDUSTRY STANDARDS

IEEE 802.3by, 802.3cd  
FF-8432, SFF-8636  
IBTA EDR, HDR  
SFP-DD MSA specification

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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: 100 ohm  
 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

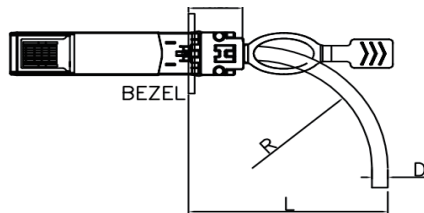
Storage temperature range: -40°C to +80°C  
 Operating temperature: 0°C to +70°C  
 RoHS compliant

### SPECIFICATION

ES-10-00-0015

### Partial PN Table

Product Numbers	Product Description
LA0SSXXX-SD-R	Passive Cable Assembly 30AWG 1M
LA0SSXXX-SD-R	Passive Cable Assembly 28AWG 2M
LA0SSXXX-SD-R	Passive Cable Assembly 26AWG 3M
LA0SSXXX-SD-R	Active Cable Assembly 30AWG 4M
LA0SSXXX-SD-R	Active Cable Assembly 28AWG 5M
LA0SSXXX-SD-R	Active Cable Assembly 26AWG 7M



SFP28			
CABLE GAUGE	DIAMETER "D"	MIN. BEND RADIUS "R"	MIN. BEND SPACE "L"
30AWG	4.9MM	24.5MM	45MM
28AWG	6.0MM	30.0MM	52MM

### Schematic

