

## Ultra OSFP(400G)/Extreme OSFP(800G) Copper Cable Assembly



### OVERVIEW

Luxshare-TECH is the leading Ultra OSFP(400G)/Extreme OSFP(800G) solution provider in the industry by developing the end-to-end products including copper cable, the corresponding connector and cage.

Luxshare-TECH Ultra-/Extreme-OSFP copper cable assembly combines 8 channels operating at speeds up to 56Gbps/112Gbps per channel into one affordable high-density package(OSFP). The total port bandwidth is up to 400Gbps/800Gbps.

Luxshare-TECH Ultra-/Extreme-OSFP copper cables integrate a standard 60-position gold finger interface and zinc die-cast backshells for superior EMI performance. Luxshare-TECH Ultra-/Extreme-OSFP copper cable provides excellent SI performance and reliability performance by adopting excellent SI performance raw cable and reliable components. Luxshare-TECH's Ultra-/Extreme-OSFP copper cable products show the diverse type and full range of length coverage with the customers in the industry, DAC up to 3meter length, ACC up to 7meter length. And all the design is based on the industry standard specifications, such as SFF-8679, SFF-8636 and OSFP MSA specification.

### FEATURES & BENEFITS

- ◆ Compliant with OSFP MSA Specification
- ◆ 8 independent full-duplex passive copper cable transceiver
- ◆ Compliant with IEEE802.3ck, IEEE802.3cd Standard
- ◆ Support 56G (PAM4) and 112G (PAM4) electrical data rates/channel
- ◆ I2C for EEPROM communication; Applications
- ◆ Pull to Release latch design
- ◆ Excellent EMI/EMC performance 360 degree cable shield termination
- ◆ Advantage dual side pre-solder automated assembly technologies
- ◆ Excellent SI performance

### PRODUCT APPLICATIONS

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

### INDUSTRY STANDARDS

IEEE 802.3cd, IEEE802.3ck  
FF-8679, SFF-8636  
IBTA  
OSFP 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

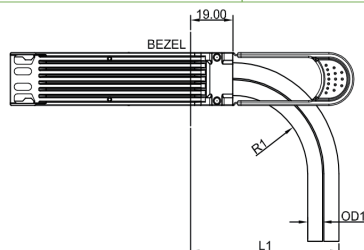
Storage temperature range: -40°C to +80°C  
Operating temperature: 0°C to +70°C  
RoHS compliant

### SPECIFICATION

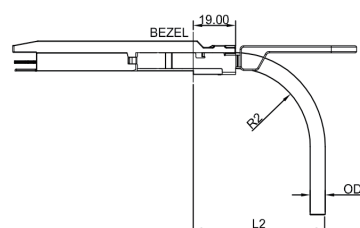
ES-10-00-0001

### Partial PN Table

Product Numbers	Product Description
LA0SQ020-SD-R	E-OSFP 26AWG 2.0M 800G cable assembly
LA0SQ021-SD-R	E-OSFP 30AWG 1.0M 800G cable assembly
LA0SQ022-SD-R	E-OSFP 32AWG 1.0M 800G cable assembly
LA0SQ023-SD-R	E-OSFP 28AWG 1.5M 800G cable assembly
LA0SQ024-SD-R	E-OSFP 32AWG 0.5M 800G cable assembly
LA0SQ025-SD-R	E-OSFP 30AWG 1.5M 800G cable assembly
LA0SQ026-SD-R	E-OSFP 28AWG 2.0M 800G cable assembly
LA0SQ027-SD-R	E-OSFP 26AWG 2.5M 800G cable assembly



OSFP			
CABLE GAUGE	DIAMETER "OD1"	MIN.BEND RADIUS "R1"	MIN.BEND SPACE "L1"
30AWG	6.7MM	34MM	66MM
28AWG	7.9MM	40MM	75MM



OSFP			
CABLE GAUGE	DIAMETER "OD2"	MIN.BEND RADIUS "R2"	MIN.BEND SPACE "L2"
30AWG	6.7MM	34MM	60MM
28AWG	7.9MM	40MM	67MM

### Schematic

