

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

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 8channels 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
- SFF-8679, SFF-8636
- IBTA
- OSFP MSA specification

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
LA0SQXXX-SD-R	OSFP 800G 26AWG 2.0M Passive cable assembly
LA0SQXXX-SD-R	OSFP 800G 28AWG 1.4M Passive cable assembly
LA0SQXXX-SD-R	OSFP 800G 30AWG 1.0M Passive cable assembly
LA0SQXXX-SD-R	OSFP 400G 26AWG 3.0M Passive cable assembly
LA0SQXXX-SD-R	OSFP 400G 28AWG 2.0M Passive cable assembly
LA0SQXXX-SD-R	OSFP 400G 30AWG 1.0M Passive cable assembly

Schematic

