

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
SFF-8432, SFF-8636
IBTA EDR, HDR
SFP-DD 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

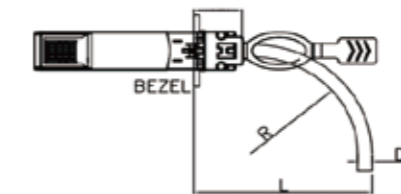
Storage temperature range: -40°C to +80°C
Operating temperature: 0°C to +70°C
RoHS compliant

SPECIFICATION

ES-10-00-0015

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



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

