

## NGSFP External Cable Assembly

### OVERVIEW

NGSFP is a new pluggable Small Form Factor for Next Generation external high-port interconnection. Luxshare-TECH designs such NGSFP external cable assembly of high-lane density, higher rate interface and lowest cost. NGSFP is compatible with SFP+, DSFP and assign two lanes with one SFP space, it has full function of electrical interface including pin-out, data, control, power and ground signal. Luxshare-TECH provides end-to-end solution in NGSFP including the diverse DAC/ACC passive cable and the mated connector and cages. Based on excellent performance, Luxshare-TECH NGSFP external cable assembly could support 28Gbps(NRZ), 56Gbps(PAM4), and evolved 112Gbps in future.



### FEATURES & BENEFITS

- Compliant with NGSFP MSA 1.0
- Compliant with IEEE802.3cd, supports 28Gbps(NRZ), 56Gbps(PAM4), and evolved 112Gbps per lane in future
- Mating with 22-pin NGSFP board connector, backward compatible with SFP+, DSFP
- Latching mechanism compatible with SFP+, DSFP
- Cable length up to 3.5 meters
- Ultra low insertion loss and excellent SI performance
- I2C based two-wire serial interface of EEPROM signal
- Operating temperature: 0°C~+70°C
- All materials comply with RoHS2.0

### PRODUCT APPLICATIONS

- Data center & Networking Equipment
- Servers/Storage Devices
- High Performance Computing (HPC)
- Switches/Routers
- Edge computing device
- AI architecture

### INDUSTRY STANDARDS

- IEEE 802.3cd
- IBTA
- NGSFP 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

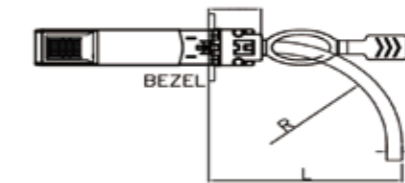
- Storage temperature range: -40°C to +80°C
- Operating Temperature: 0°C to +70°C
- RoHS compliant

### SPECIFICATION

ES-10-00-0002

### Partial PN Table

Product Numbers	Product Description
LA0XXXXX-SD-R	Passive Cable Assembly 30AWG 1M
LA0XXXXX-SD-R	Passive Cable Assembly 28AWG 2M
LA0XXXXX-SD-R	Passive Cable Assembly 26AWG 3M
LA0XXXXX-SD-R	Active Cable Assembly 30AWG 4M
LA0XXXXX-SD-R	Active Cable Assembly 28AWG 5M
LA0XXXXX-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

