

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

NGSFP External Cable Assembly

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

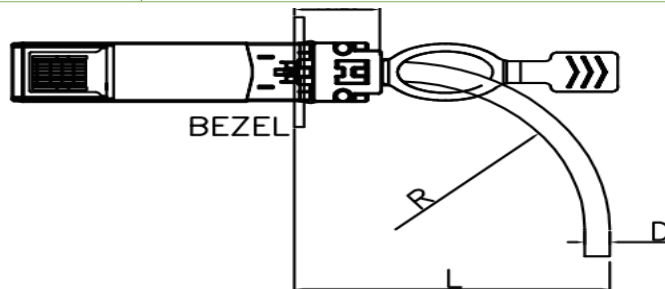
Storage temperature range: -40°C to +80°C
 Operating Temperature: 0°C to +70°C
 RoHS compliant

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

