

## Super SFP 25Gbps Active Optical Cable

### OVERVIEW

Luxshare-TECH 25Gbps S-SFP active optical cable assembly can provide new generation performance by higher data transfer rate. At the same time, it's compatible with the port of SFP+, and need not to change the cage.

Luxshare-TECH 25Gbps S-SFP Active optical cable is designed for 25G Ethernet links with very high port density based on the electrical and mechanical specification for the SFF-8431 and SFF-8432 respectively. The high electrical specifications are compliant with IEEE802.3by for 25GBASE-SR. The S-SFP AOC cable length can be customized to various length. Each AOC module includes the Internal clock and data recovery circuits (CDRs) that will lock at 25.78125Gbps, and it also automatically detect to operate at both bit rates of 25.78125Gbps and 10.3125Gbps.



### FEATURES & BENEFITS

- ◆ Hot Pluggable SFP form factor in the cable ends
- ◆ Supports auto-rate detection for both 25.78125Gbps and 10.3125Gbps operation
- ◆ Low Power Dissipation, MAX 0.8W Each End
- ◆ Operating Case Temperature: 0°C to +70°C

### PRODUCT APPLICATIONS

Ethernet for 25/10GBASE-SR  
InfiniBand EDR, FDR, QDR  
Proprietary Interconnections

# Super SFP 25Gbps Active Optical Cable

## TECHNICAL INFORMATION

### MATERIAL

Nickel plated zinc die cast shells & latching  
Mechanism parts  
Thermoplastic cable pull tab  
Optical plastic lens  
Optical fibre cable

### ELECTRICAL PERFORMANCE

Power Supply Voltage: 3.3V (3.14 to 3.46V)  
Data rate per lane: 25.78125Gbps/10.3125Gbps  
Power Consumption: 0.8W(MAX)  
Transmitter Type: VCSEL  
Receiver Type: PIN

### SPECIFICATIONS

SFF-8419: Low Speed Electrical  
SFF-8432: Pluggable Module  
SFF-8472: Management Interface  
GR-468: Reliability Qualification  
IEEE 802.3by: Physical Layer Specifications and Management Parameters  
ROHS-6: Environment Safety  
ES-12-00-0006

### MECHANICAL PERFORMANCE

SFP Module Insertion: 18N(MAX)  
SFP Module Extraction: 12.5N(MAX)  
SFP Module Retention: 90N to 170N  
Insertion and removal cycles: 50Cycles  
Cable outer Diameter: 2.9 to 3.0mm

### ENVIRONMENTAL

Storage Temperature Range: -40°C to +85°C  
Operating Temperature Range: 0°C to +70°C  
Relative Humidity: 0 to 85%

### Partial PN Table

PN	Package	Description	Reach	Protocol Support	Data Rate	Temp	Power Consumption	Optical Connector	Transceiver	Receiver	WaveLength
PA0SS2102-SD-R	S-SFP	AOC	0.5m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2101-SD-R	S-SFP	AOC	1m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2201-SD-R	S-SFP	AOC	2m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2301-SD-R	S-SFP	AOC	3m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2401-SD-R	S-SFP	AOC	5m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2501-SD-R	S-SFP	AOC	7m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2601-SD-R	S-SFP	AOC	10m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2701-SD-R	S-SFP	AOC	15m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2801-SD-R	S-SFP	AOC	20m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2901-SD-R	S-SFP	AOC	30m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2902-SD-R	S-SFP	AOC	70m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm
PA0SS2903-SD-R	S-SFP	AOC	100m	Ethernet	25Gbps	0-70°C	0.8W	NA	VCSEL	PIN	850nm