

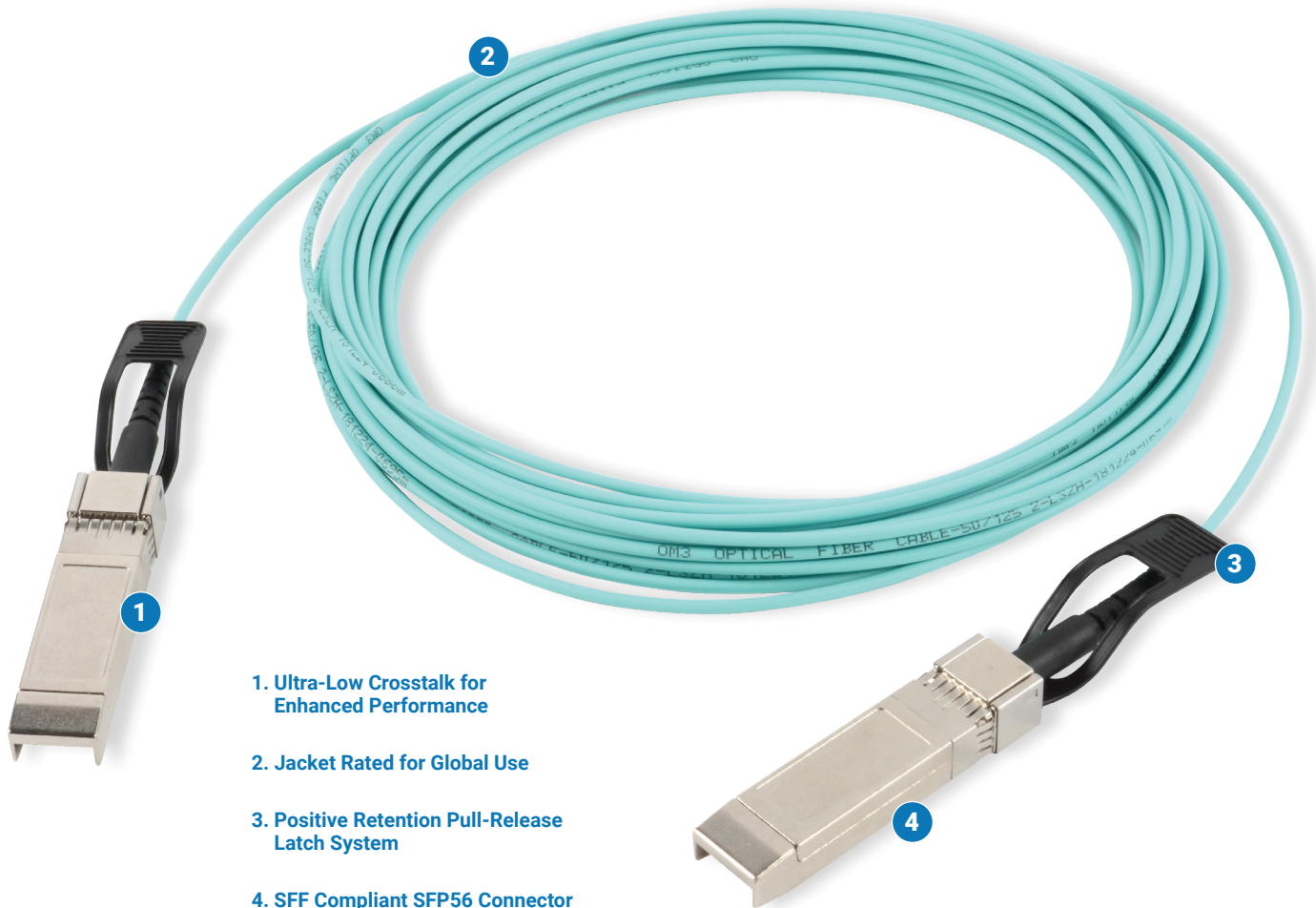
# Active Optical Cables

## 50G PAM4 SFP56 Straight Through

Regional Availability – Global



Siemon's 50G per lane PAM4 Ethernet SFP56 Active Optical Cable assemblies (AOCs) are designed to exceed industry standard performance offering a cost-effective, low latency, low-power option for high-speed data center interconnects. The Active Optical Cables support 50G PAM4 applications and are available in standard lengths up to 100 meters.



1. Ultra-Low Crosstalk for Enhanced Performance

2. Jacket Rated for Global Use

3. Positive Retention Pull-Release Latch System

4. SFF Compliant SFP56 Connector

### Applications

- Ethernet 50GBASE CR1
- Top-of-Rack
- Rack-to-Rack
- Switch-to-Switch
- Switch-to-Server
- Network Interface Adapter
- Accelerator Cards
- Storage
- Routers
- Servers

### Standards Compliance

#### SFP

- IEEE 802.3cd
- SFF-8402
- SFF-8071
- SFF-8419
- SFF-8472

## PHYSICAL PROPERTIES – CONNECTOR

CONNECTOR TYPE		SFP
LANES UTILIZED		SR1
CONNECTOR SIDE(S)		A/B
CABLE ASSEMBLY TYPE		1:1
50G PER LANE ETHERNET	Application Speed	50G PAM4
	Power Supply Current Per End (Max)	220 mA
	Power Consumption Per End (Max)	0.80 W
SUPPLY VOLTAGE		3.13V
INSERTION FORCE (Max)		18N
EXTRACTION FORCE (Max)		12.5N
RETENTION FORCE (Max)		90N
DURABILITY (Min)		250 cycles
OPERATING TEMPERATURE		0 to 70°C (32 to 158°F)
STORAGE TEMPERATURE		-40 to 85°C (-40 to 185°F)

## PHYSICAL PROPERTIES – FIBER

CONSTRUCTION	LSZH/OFNR OM3	LSZH/OFNR OM4	OFNP OM3	OFNP OM4
FLAMMABILITY RATING	Riser	Riser	Plenum	Plenum
CABLE O.D. (mm)	3.0 mm	3.0 mm	3.0 mm	3.0 mm
BEND RADIUS (mm) SINGLE	30.0 mm	30.0 mm	30.0 mm	30.0 mm
BEND RADIUS (mm) REPEATED	60.0 mm	60.0 mm	60.0 mm	60.0 mm
SR(X) MAX LENGTH	70 m	100 m	70 m	100 m

# Ordering Information

## 50G PAM4 SFP56 AOC

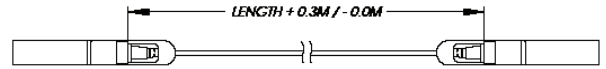
(XXX) -56 (X) (XX.X) -2 (X) Q

CONNECTOR TYPE	Side A	Side B	CABLE STYLE	LENGTH (meters)	FIBER TYPE
S1S	SFP (SR1)	SFP (SR1)	F = AOC (Active Optical Cable)	00.5 = 0.5 m 01.0 = 1.0 m 50.0 = 50 m 100 = 100 m	Y = OM3 Plenum (OFNP) X = OM4 Plenum (OFNP) V = OM3 LSZH Riser (LSZH/OFNR) T = OM4 LSZH Riser (LSZH/OFNR)

Please contact our Technical Sales Group if you require connectivity or cable configurations that are not listed above.

Part Number Example:	
Part Number	Description
S1S-56F72.5-2YQ	AOC, 50G PAM4, SR1/SR1, SFP56, OM3, 72.5m, OFNP, Aqua

**Notes:**  
 SFP is not supported by InfiniBand™  
 RS-544 FEC



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