

# 50G SFP56 Direct Attach Copper Cable

The SFP56 direct attach copper cable is engineered for high-density cable interconnections. It supports a 50G PAM-4 transmission rate, ideal for data centers and high-performance computing.



## Product Overview

### High-Performance 50G Interconnect Solution

The SFP56 Copper-assembly is a high-density interconnection system designed to meet the rigorous demands of modern data centers and high-performance computing. It supports a transmission rate of 56G PAM-4, providing a reliable and low-latency solution for short-reach data communication. These cables are engineered for efficiency with low power consumption and full compliance with industry-standard protocols.

## Performance Highlights

### Key Performance Metrics

**50 Gbps**

Data Rate

**0.5 W**

Power Consumption

**56 G PAM-4**

Transmission Rate

## Technical Specifications

Data Rate	50 Gbit/s (PAM-4)
Supported Wire AWG	32 AWG, 30 AWG, 28 AWG, 26 AWG
Form Factor	SFP56 (Small Form-Factor 56)
Customization	EEPROM signature can be customized

## Configuration Options

### Available Cable Types

Type	Supported Length
Passive DAC	0.5 - 3.5 Meters
Redriver ACC	1.0 - 6.0 Meters

## Compliance & Standards

### Industry Standards

- SFF 8402 Standard
- IEEE 802.3cd (50 Gbit/s per channel)
- IEEE 802.3by (25 Ethernet)
- Backward compatible to SFP28 25G Ethernet

## Target Applications

### Target Markets & Applications

50G/25G Ethernet • InfiniBand QDR/FDR/EDR • Fibre Channel • Storage & RAID Systems • High-Performance Computing (HPC) • Network Interface Cards (NICs) • Telecommunication Equipment • Data Center Storage