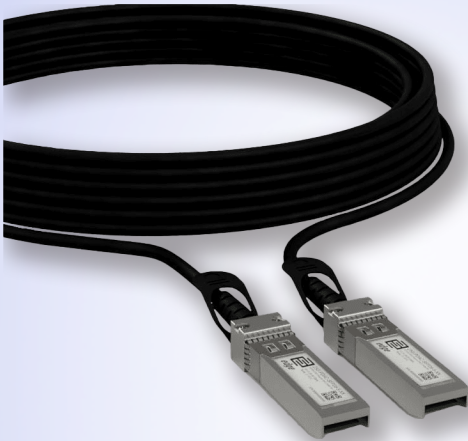


## 25G-PDAC-SFP28

Copper DAC Cable



### Key Features

- Cable Type: **Passive Direct Attach Cable (PDAC)**
- Cable Configuration: **Point-to-Point**
- Connector Type: **SFP28 to SFP28**
- Supported Data Rate: **1.25 Gbps - 25.78 Gbps**
- Maximum Distance: **7 m**
- AWG (Wire Gauge): **AWG30 (0.5-3m) | AWG26 (3.5-5m) | AWG24 (7m)**
- Fiber Type: **N/A**
- DDM/DOM: **Supported**

## Product Description

Our EDGEOPTIC 25G-PDAC-SFP28 is a multi-vendor compatible 25G SFP28 passive direct attach copper cable designed for high-performance 25 Gigabit Ethernet and 32G Fiber Channel applications within modern data center environments. The 25G-PDAC-SFP28 cable features point-to-point configuration with SFP28 connectors on both ends, delivering reliable high-bandwidth connectivity for server-to-switch interconnects, storage connections, and leaf-spine network architectures where 25G has become the standard server connectivity speed.

The cable supports multi-rate operation from 1.25 to 25.78 Gbps, accommodating both current and legacy network protocols. For Ethernet deployments, the cable handles 10G Ethernet at 10.31 Gbps and 25G Ethernet at 25.78 Gbps, providing backward compatibility for mixed-speed network environments during infrastructure transitions. Fiber Channel support includes 32G FC at 28.05 Gbps, making the cable well-suited for next-generation storage area network connectivity where 32G FC is becoming the dominant SAN speed for high-performance enterprise storage systems.

As a passive DAC solution, the 25G-PDAC-SFP28 requires no external power and introduces zero latency to signal transmission, making it ideal for latency-sensitive applications such as financial trading platforms, real-time analytics, and distributed computing workloads. The cable construction utilizes high-quality twinax copper with optimized wire gauges for each length range: AWG30 for 0.5 to 3 meters, AWG26 for 3.5 to 5 meters, and AWG24 for the 7-meter variant. This progressive wire gauge selection ensures optimal signal integrity at 25 Gbps NRZ signaling while maintaining practical cable flexibility for installation in high-density server environments.



The electrical interface conforms to SFP28 MSA, SFF-8402, and SFF-8431 specifications, ensuring broad compatibility with standard SFP28 host systems from multiple equipment vendors. Our 25G SFP28 DAC cables can be encoded for compatibility with over 80 different equipment brands including major server, networking, and storage vendors. The cable incorporates DDM/DOM (Digital Diagnostic Monitoring) functionality, providing real-time diagnostic data including module temperature and supply voltage through the MSA-compatible interface for proactive network monitoring.

The cable operates within a 0 to 70°C temperature range, suitable for controlled data center environments. With an MTBF rating of 1,000,000 hours, the cable delivers long-term reliability for mission-critical infrastructure deployments.

Typical deployment scenarios include server NIC to ToR switch connectivity, storage array connections, and high-density blade server interconnects. The 25G speed tier offers an optimal balance between bandwidth and cost, providing 2.5× the throughput of 10G while utilizing the same SFP form factor footprint, making upgrades straightforward and economical.

Our 25G SFP28 passive DAC is CE/RoHS certified and compliant with product safety standards. Because our focus is providing top quality service, we perform comprehensive quality checks before delivery including electrical parameter measurements, connector inspection tests, and SFP28 EEPROM memory data validation tests.

## Technical Specifications

Specification	Value
Cable Type	Passive Direct Attach Cable (PDAC)
Cable Configuration	Point-to-Point
Connector Type	SFP28 to SFP28
Supported Data Rate	1.25 Gbps - 25.78 Gbps
Supported Ethernet Applications	10G Ethernet (10.31Gbps), 25G Ethernet (25.78Gbps)
Supported Fiber Channel Applications	32G Fiber Channel (28.05 Gbps)
Maximum Distance	7 m
Media Type	Twinax Copper Cable



AWG (Wire Gauge)	AWG30 (0.5-3m)   AWG26 (3.5-5m)   AWG24 (7m)
DDM/DOM	Supported
Temperature Range	Standard 0°-70°C
MTBF	1000000 hours
Compliance	CE, RoHS, SFP28 MSA, SFF-8402, SFF-8431

## Ordering Info

SKU	Description
25G-PDAC-SFP28-0.5	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 0.5m, AWG30, 0-70°C)
25G-PDAC-SFP28-1	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 1m, AWG30, 0-70°C)
25G-PDAC-SFP28-1.5	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 1.5m, AWG30, 0-70°C)
25G-PDAC-SFP28-2	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 2m, AWG30, 0-70°C)
25G-PDAC-SFP28-2.5	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 2.5m, AWG30, 0-70°C)
25G-PDAC-SFP28-3	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 3m, AWG30, 0-70°C)
25G-PDAC-SFP28-3.5	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 3.5m, AWG26, 0-70°C)
25G-PDAC-SFP28-4	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 4m, AWG26, 0-70°C)
25G-PDAC-SFP28-4.5	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 4.5m, AWG26, 0-70°C)
25G-PDAC-SFP28-5	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 5m, AWG26, 0-70°C)
25G-PDAC-SFP28-7	25G SFP28 to SFP28 Passive DAC Twinax Cable (1.25-25.78 Gbps, 7m, AWG24, 0-70°C)



## Warranty

EDGE Optic's provides a limited warranty for **sixty (60) months** from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.

## Compatibility

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 100 vendor brands in data and telecom communications industry:

MS - General MSA	MS - EdgeWare	MS - KyLand	MS - Ruijie Networks
MS - Advantech	MS - Eltex	LN - Lenovo	MS - Sandvine
MS - Allied Telesis	MS - Emulex	ML - Mellanox (NVIDIA)	MS - Silicom
AR - Arista	MS - Enterasys	ME - Meraki (Cisco)	MS - SolarFlare
MS - Arris	ER - Ericsson	MS - MikroTik	SW - Sonicwall
AG - Avago	EX - Extreme Networks	MS - MRV	MS - Sophos
AV - Avaya	F5 - F5 Networks	NC - NEC	MS - Sumitomo
MS - Barracuda	MS - Finisar	MS - NetApp	MS - Supermicro
BR - Broadcom	FO - Fortinet	MS - Netgear	MS - Synology
QL - Cavium (Qlogic)	MS - Fujitsu	MS - Netinsight	MS - Telco Systems
MS - Ceragon	HI - Hirschmann	NK - Nokia (Alcatel)	MS - TP-LINK
CH - Checkpoint	HP - HP	MS - Nortel	TM - Transmode
MS - Chelsio	AU - HP Aruba	NS - NSN	MS - Trendnet
CN - Ciena	HU - Huawei	MS - OE Solutions	MS - Ubiquiti Networks
CI - Cisco	IB - IBM	MS - Oracle	MS - WatchGuard
MS - Comnet	IF - Infinera	MS - Palo Alto Network	WS - Waystream
MS - D-link	MS - Innolight	MS - Planet	WT - Westermo
MS - Dahua	IN - Intel	QL - Qlogic (Oracle)	MS - ZTE
MS - DCN	MS - Ixia	MS - QNAP	MS - Zyxel
DL - Dell	MS - JDSU	RD - RAD	XX - Other
MS - DZS(Dasan-Zhone)	JU - Juniper	MS - RadWare	
MS - EdgeCore	MS - KeyMile	MS - Ruckus	

## Version Control

Version: 2.0

Updated: December 17, 2025

CERTIFIED  
ISO 9001



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