



## 25G SFP28 Passive DAC Twinax Cable, 3 ft.

**SFP28 to SFP28, Cisco Compatible, MSA-compliant for Maximum Compatibility, Direct Attach Copper, AWG 30, Black**

Part No.: **509251**

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### 3 ft. (1 m) 25G SFP28 Cisco Compatible DAC Cable - the benefits of Passive Direct Attach Copper cable over fiber optic and RJ45 cables

The Direct Attach Copper (DAC) cable is becoming increasingly popular in the network industry. Our passive SFP28 25G DAC Twinax cable is an energy-efficient, low-latency and cost-effective alternative to fiber optic and RJ45 cabling. It's an excellent choice for short-distance structured cabling between switches and routers on one end and servers or storage on the other, be it in Top of Rack (ToR), adjacent rack, stacking of 25GbE switches or similar applications.

### Close to zero power consumption and a wide temperature range

SFP28 DAC is comprised of a twinax copper cable terminated with SFP28 connectors on both ends, which can provide an electrical connection directly into active equipment. Consuming less than 0.15 W due to its thermal design, this passive cable helps decrease your operating expenses. Its zero-heat production during operation makes it more versatile and usable in wider temperature ranges up to 70°C (158°F), which is particularly valuable in data centers.

## Lower cost and simpler to deploy than fiber optics

DAC cabling has a relatively simple internal structure with fewer components than fiber cables. This cable structure helps lower the purchase price for applications in high-bandwidth data transmission and saves you from having to buy separate transceivers. This, in turn, makes DAC cables a lot simpler to deploy since there are fewer parts to match to complete setup. Used versions of this cable are also more convenient to keep on hand because you do not have to clean and inspect them before plugging them in again. When you make upgrades or replacements to your network, the cable's seamless Hot Swapping capability makes quick work of connecting new equipment (note that passive DAC cables are not suitable for long-range applications; at 7 m (23 ft.), they reach their transmission limit).

## Lower latency than RJ45 twisted-pair patch cables

This Direct Attach Copper twinax cable supports data transfer rates up to 25 Gbps, and its unique structure and signal transmission offers lower latency.

Please note: This 25G SFP28 Passive DAC Twinax Cable is MSA-compliant and therefore designed, programmed and tested to work with compatible switches and routers from Cisco, Intellinet Network Solutions, ZyXEL, TP-Link, Ubiquiti, D-Link, Edimax, Allnet, Allied Telesis, Digitus, KTI Networks, LevelOne, PLANET, Tenda, TRENDnet, ZTE, Avaya, Mikrotik, Enterasys, Finisar, Dell Force10, Riverstone, Fortinet and more.

### Features:

- Passive Direct Attach Copper (DAC) twinax cable for cost-effective, low-latency, power-saving connections
- MSA-compliant for compatibility with leading switch manufacturers such as Cisco, Intellinet Network Solutions, ZyXEL, TP-Link, Ubiquiti and more (see specs)
- Two SFP28 connectors for data transfer rates up to 25 Gbps
- Equivalent to the Cisco DAC Cable SFP-H25G-CU1M
- Significantly lower power consumption and price point than fiber optic cables
- Lower signal latency than RJ45 connections
- Simpler deployment than cables in optical transceivers with fewer components having to match
- Passive DAC as an ideal option in structured cabling for many short-

distance applications

- Produces zero heat and can be used in high operating temperatures up to 70°C (158°F)
- Hot-swappable for seamless network upgrades or replacements
- Fully NDAA-compliant
- Three-year warranty

## **Specifications:**

### Standards and Certifications

- CE
- UKCA
- FCC
- RoHS
- REACH
- IEEE 802.3by
- SFF-8472

### General

- Power consumption: <0.1 W (per end)
- Power requirement: 3.3 V
- Applications: 25 Gigabit Ethernet
- Maximum data transfer rate: 25 Gbps
- Minimum bend radius: 33 mm (1.3 in.)
- Impedance: 100 Ohm
- Length: 1 m (3 ft.)
- Net weight: 70 g (0.15 lbs.)
- Gross weight: 82 g (0.18 lbs.)

### Compatible Brands

• Cisco, Intellinet Network Solutions, ZyXEL, TP-Link, Ubiquiti, D-Link, Edimax, Allnet, Allied Telesis, Digitus, KTI Networks, LevelOne, PLANET, Tenda, TRENDnet, ZTE, Avaya, Mikrotik, Enterasys, Finisar, Dell Force10, Riverstone, Fortinet and more

### Connectors

- Two SFP28 male

### Cable

- 30 AWG
- Type: passive copper, twinaxial
- Jacket material: PVC

### Operating Environment

- Operation temperature: 0 - 70°C (32 - 158°F)
- Storage temperature: -40 - 80°C (-40 - 176°F)

## Package Contents

- Passive DAC Twinax Cable

