

#### SFP-28G-PDAC3-5M-FT-PRO

Fortinet® SFP-28G-PDAC3-5M-FT Compatible TAA 25GBase-CU SFP28 to SFP28 Direct Attach Cable (Passive Twinax, 3.5m)

#### **Features**

- Up to 25Gbps bi-directional data links
- Hot-pluggable
- Compliant with SFF-8402
- 100 Ohm differential impedance
- Enhanced EMI design
- AC coupled inputs and outputs
- Operating Temperature: 0 to 70 Celsius
- Single power supply 3.3V
- RoHS Compliant and Lead-Free



#### **Applications:**

• 25GBase Ethernet

#### **Product Description**

This is a Fortinet® SFP-28G-PDAC3-5M-FT Compatible 25GBase-CU SFP28 to SFP28 direct attach cable that operates over passive copper with a maximum reach of 3.5m. It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. We stand behind the quality of our products and proudly offer a limited lifetime warranty. This cable is TAA (Trade Agreements Act) compliant and is built to comply with MSA (Multi-Source Agreement) standards.

Proline's transceivers are RoHS compliant and lead-free.

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products.



## **General Specifications**

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes
Data Rate	DR		25		Gbps	1
Bit Error Rate	BER			10-12		
Operating Temperature	Тс	0		70	°C	2
Storage Temperature	Tstg	-40		85	°C	3
Supply Current	Icc			4	mA	4
Input Voltage	Vcc	3.14	3.3	3.46	V	4
Cable Impedance	Z	90	100	110	Ω	
Product Weight	GD		84		g/PCS	5
Cable Weight	GC		38		G/M	
Dust Cap Weight	GS		0.80		g/PCS	

#### Notes:

- 1. IEEE 802.3by.
- 2. Case temperature.
- 3. Ambient temperature.
- 4. For electrical power interface.

### **Cable Dimensions and Insertion Loss Level**

Length	Standard Wire	Cable Diameter OD	Minimum Bending	Insertion Loss Level	Tolerance Range
	Gauge AWG	(mm)	Radius R (mm)	(Note 1)	(±cm)
3.5m	28AWG	5.0	28	CA-25G-S	4

### Notes:

1. Cable insertion loss classification standard IEEE 802.3by 110-10.

## **Pin Descriptions**

Pin	Symbol	Name/Description	Notes
1	VeeT	Transmitter Ground (Common with Receiver Ground).	
2	Tx_Fault	Transmitter Failure Alarm. Not Used.	
3	Tx_Disable	Not Used. The signal turns off the module transmitter when it is "high" or "open."	
4	SDA	Data Line for Serial ID.	
5	SCL	Clock Line for Serial ID.	
6	MOD_ABS	Module Absent. Grounded within the module.	
7	RS0	No Connection Required.	
8	LOS	Loss of Signal Indication. "Logic 0" indicates normal operation.	
9	RS1	No Connection Required.	
10	VeeR	Receiver Ground (Common with Transmitter Ground).	1
11	VeeR	Receiver Ground (Common with Transmitter Ground).	1
12	RD-	Receiver Inverted Data Out. AC Coupled.	
13	RD+	Receiver Non-Inverted Data Out. AC Coupled.	
14	VeeR	Receiver Ground (Common with Transmitter Ground).	1
15	VccR	Receiver Power Supply.	
16	VccT	Transmitter Power Supply.	
17	VeeT	Transmitter Ground (Common with Receiver Ground).	1
18	TD+	Transmitter Non-Inverted Data In. AC Coupled.	
19	TD-	Transmitter Inverted Data In. AC Coupled.	
20	VeeT	Transmitter Ground (Common with Receiver Ground).	1

## Notes:

- 1. The circuit ground is isolated from the chassis ground.
- 2. Should be pulled up with  $4.7k\Omega$  to  $10k\Omega$  on the host board to a voltage between 2V and 3.6V.

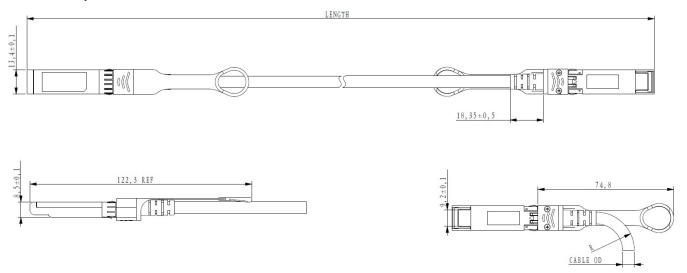
## **Electrical Pad Layout**



## **Block Diagram of Transceiver**



# **Mechanical Specifications**



Unmarked Tolerance <u>+</u>0.2 Unit: mm

#### **About Us:**

Proline Options is one of North America's leading providers of transceivers and high speed cabling. With a reputation for quality, tested products that cover the connectivity spectrum, Proline Options has a solution for you regardless of the specification.

At Proline Options, every product is tested in its intended application - never batch or spec tested only. We run bandwidth, distance and IOS network tests. We have documented an impressive 0.03% failure rate over the last 10 years. To continue this rate of success we invest millions annually in our own on-site testing lab.



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