

330-5970-2.5M-AO

Dell® Compatible TAA Compliant 10GBase-CU SFP+ Direct Attach Cable (Passive Twinax, 2.5m)

Features

- Up to 10 Gbps bi-directional data links
- Compliant with SFF-8431
- Compliant with 10GFC
- 100 Ohm differential impedance
- Enhanced EMI design
- AC coupled inputs and outputs
- Operating Temperature Range: 0 to 70 Celsius
- Single 3.3V power supply
- RoHS Compliant and Lead-Free



Applications

- 10G Fibre Channel
- 10G Ethernet
- Serial Data Transmission

Product Description

This is a Dell® Compatible 10GBase-CU SFP+ to SFP+ direct attach cable that operates over passive copper with a maximum reach of 2.5m. 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.

AddOn'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. | Typ. | Max. | Unit | Notes |
|-----------------------|--------|------|---------|------------|------|-------|
| Data Rate | DR | | 10.3125 | | Gbps | 1 |
| Bit Error Rate | BER | | | 10^{-12} | | |
| Operating Temperature | Tc | 0 | | 70 | °C | 2 |
| Storage Temperature | Tstg | -40 | | 85 | °C | 3 |
| Power Supply Voltage | Vcc | 3.14 | 3.30 | 3.46 | V | 4 |

Notes:

1. IEEE 802.3ae.
2. Case Temperature.
3. Ambient Temperature.
4. For the electrical power interface.

Cable Specifications

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|------------------------|--------|------|-------|------|----------|
| Wire Gauge | | | 30AWG | | AWG |
| Cable Impedance | Z | 90 | 100 | 110 | Ω |
| Cable Diameter | OD | | 4.2 | | mm |
| Minimum Bending Radius | R | | 25 | | mm |
| Tolerance Range \pm | | | 2 | | cm |

Pin Descriptions

| Pin | Symbol | Name/Description | Notes |
|-----|------------|--|-------|
| 1 | VeeT | Transmitter Ground (Common with Receiver Ground). | 1 |
| 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. | 2 |
| 5 | SCL | Clock Line for Serial ID. | 2 |
| 6 | MOD_ABS | Module Absent. Grounded within the module. | 2 |
| 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 Ω to 10k Ω on the host board to a voltage between 2V and 3.6V.

Electrical Pad Layout



Top of Board



Bottom of Board



Block Diagram of Transceiver



Weight

| Parameter | Symbol | Typ. | Unit | Notes |
|----------------------|--------|------|-------|-------|
| 30AWG Product Weight | GD30 | 72 | g/PCS | 1 |
| 30AWG Cable Weight | GC30 | 26 | g/M | |
| Dust Cap Weight | GS | 0.80 | g/PCS | |

Notes:

- For example, the weight of a 6m cable with 30AWG is: $72+26*(6-1) + 0.80*2=203.6g$.

Mechanical Specifications



All Dimensions are $\pm 0.2\text{mm}$ Unless Otherwise Specified
Unit: mm

About AddOn Networks

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is engrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.



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