

Features

- 100GbE to 4x25GbE data rate
- SFF-8402 SFP28 compliant
- SFF-8665 QSFP28 compliant
- Single 3.3V supply voltage
- Hot pluggable
- RoHS compliant
- SFF-8432 compliant
- IEEE P802.3bj compliant



Applications

- Low EMI radiation Switches, servers and router
- Data Center networks
- Storage area networks
- High performance computing
- Telecommunication and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment

1. Recommended Operation Condition

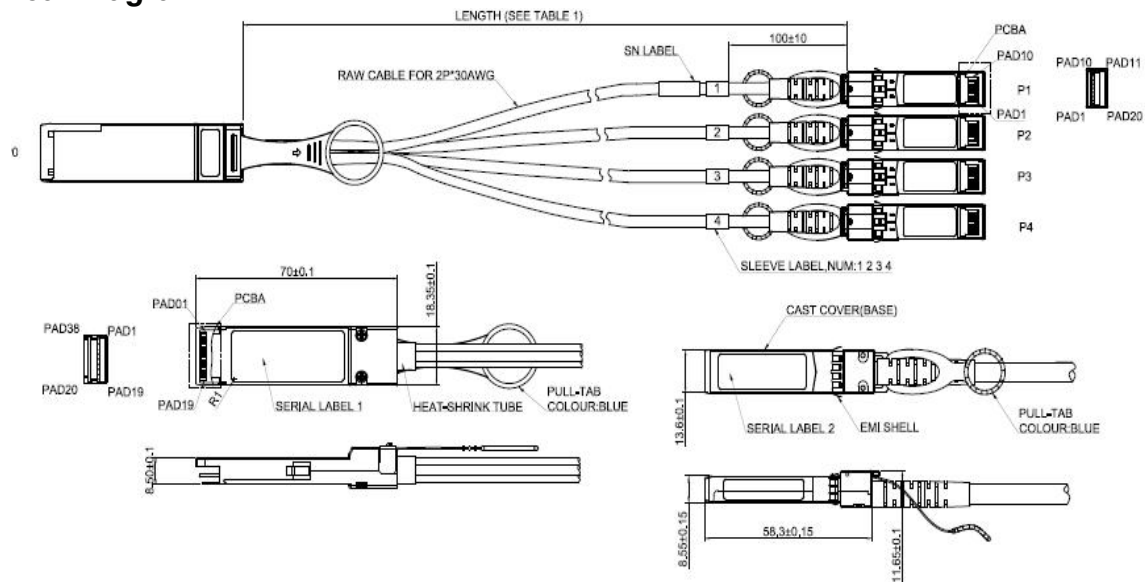
Stress or conditions exceed the above range may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those listed in the operational sections of this specification is not applied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Parameter	Symbol	Min	Max	Unit
Operating Case Temperature	Topc	-20	85	°C
Storage Temperature	Tst	-40	85	°C
Relative Humidity (non-condensation)	RS	35	60	%
Supply Voltage	VCC3	3.35	3.465	V
Voltage on LVTTTL Input	Vilvttl	-0.3	VCC3+0.2	V
Power Supply Current	ICC3		15	mA
Total Power Consumption	Pd	-	0.05	W

2. Mechanical Specifications

Parameter	Minimum	Typical	Maximum	Unit
Cable Diameter (26 AWG)		QSFP28: 0.4409 SFP28: 0.2204		
Bend Radius (26 AWG)	QSFP28: 2.204 SFP28: 1.102			
Cable Diameter (28 AWG)		QSFP28: 0.3897 SFP28: 0.195		Inches
Bend Radius (28 AWG)	QSFP28: 1.948 SFP28: 0.9750			Inches
Cable Diameter (30 AWG)		QSFP28: 0.3622 SFP28: 0.181		Inches
Bend Radius (30 AWG)	QSFP28: 1.811 SFP28: 0.905			Inches
Within Pair Skew			60	ps/5m
Cable Insertion Loss		15.34		dB/5m
Bulk Cable Time Delay			5.2	ns/m
Bulk Cable Impedance	95	100	105	Ohms
Insertion Force	/		QSFP28: 40 SFP28: 18	N
Withdrawal Force	/		QSFP28: 30 SFP28: 12.5	N
Retention Force	90		/	N
Durability	QSFP28: 250 Cycles SFP28: 250 Cycles		/	/

3. Mechanical Diagram



Note: External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.

4. Ordering Information

PNY P/N	Mellanox Legacy P/N	Nvidia P/N	Product Description
PCP7F00-A001R30N	MCP7F00-A001R30N	980-9I486-00C001	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 1m, Colored, 30AWG, CA-N 5 Year Warranty
PCP7F00-A001R30N-10	MCP7F00-A001R30N	980-9I486-00C001	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 1m, Colored, 30AWG, CA-N 10 Year Warranty
PCP7F00-A002R30N	MCP7F00-A002R30N	980-9I48B-00C002	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 2m, Colored, 30AWG, CA-N 5 Year Warranty
PCP7F00-A002R30N-10	MCP7F00-A002R30N	980-9I48B-00C002	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 2m, Colored, 30AWG, CA-N 10 Year Warranty
PCP7F00-A003R26N	MCP7F00-A003R26N	980-9I48G-00C003	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 3m, Colored, 26AWG, CA-N 5 Year Warranty

PCP7F00-A003R26N-10	MCP7F00-A003R26N	980-9I48G-00C003	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 3m, Colored, 26AWG, CA-N 10 Year Warranty
PCP7F00-A003R30L	MCP7F00-A003R30L	980-9I48H-00C003	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 3m, Colored, 30AWG, CA-L 5 Year Warranty
PCP7F00-A003R30L-10	MCP7F00-A003R30L	980-9I48H-00C003	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 3m, Colored, 30AWG, CA-L 10 Year Warranty
PCP7F00-A005R26L	MCP7F00-A005R26L	980-9I48J-00C005	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 5m, Colored, 26AWG, CA-L 5 Year Warranty
PCP7F00-A005R26L-10	MCP7F00-A005R26L	980-9I48J-00C005	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 5m, Colored, 26AWG, CA-L 10 Year Warranty
PCP7F00-A01AR30N	MCP7F00-A01AR30N	980-9I48N-00C01A	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 1.5m, Colored, 30AWG, CA-N 5 Year Warranty
PCP7F00-A01AR30N-10	MCP7F00-A01AR30N	980-9I48N-00C01A	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 1.5m, Colored, 30AWG, CA-N 10 Year Warranty
PCP7F00-A02AR26N	MCP7F00-A02AR26N	980-9I48S-00C02A	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 2.5m, Colored, 26AWG, CA-N 5 Year Warranty
PCP7F00-A02AR26N-10	MCP7F00-A02AR26N	980-9I48S-00C02A	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 2.5m, Colored, 26AWG, CA-N 10 Year Warranty
PCP7F00-A02AR30L	MCP7F00-A02AR30L	980-9I48T-00C02A	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 2.5m, Colored, 30AWG, CA-L 5 Year Warranty
PCP7F00-A02AR30L-10	MCP7F00-A02AR30L	980-9I48T-00C02A	100% Mellanox Compatible passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4 xSFP28, 2.5m, Colored, 30AWG, CA-L 10 Year Warranty

5. Contact Information

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