

MC2207130-001-C

Mellanox® Compatible TAA Compliant 56GBase-CU QSFP+ Direct Attach Cable (Passive Twinax, 1m)

Features

- Up to 56 Gb/s bi-directional data links
- Compliant with QSFP+ MSA specifications
- Compliant with IEEE802.3ba and InfiniBand FDR specifications
- 4 independent duplex channels operating at 14Gbps, also support for 2.5Gbps, 5Gbps data rates
- AC coupled inputs and outputs
- 100 Ohm differential impedance
- 30AWG wire gauge
- All-metal housing for superior EMI performance
- Operating case temperature 0°C to +70°C
- 3.3V power supply voltage, low power consumption
- RoHS 6 compliant



Applications

- InfiniBand FDR
- Serial Data Transmission

Product Description

This is a Mellanox® MC2207130-001 compatible 56GBase-CU QSFP+ to QSFP+ direct attach cable that operates over passive copper with a maximum reach of 1.0m (3.3ft). It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. This direct attach cable is TAA (Trade Agreements Act) compliant, and is built to comply with MSA (Multi-Source Agreement) standards. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

ProLabs's QSFP+ direct attach cables 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."



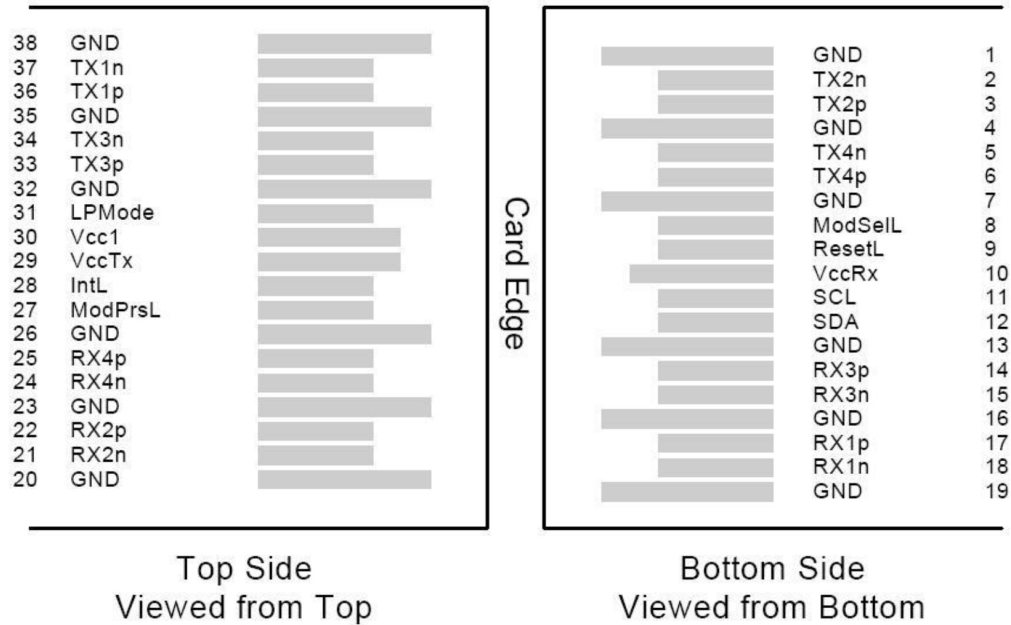
General Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Notes
Bit Error Rate	BER			10 ⁻¹²		
Operating Temperature	T _{OP}	0		70	°C	1
Storage Temperature	T _{STO}	-40		85	°C	2
Input Voltage	V _{CC}	3	3.3	3.6	V	
Maximum Voltage	V _{MAX}	-0.5		4	V	3
Cable Impedance	Z	95	100	105	Ohm	

Notes:

1. Case temperature
2. Ambient temperature
3. For electrical power interface

Electrical Pin-out Details



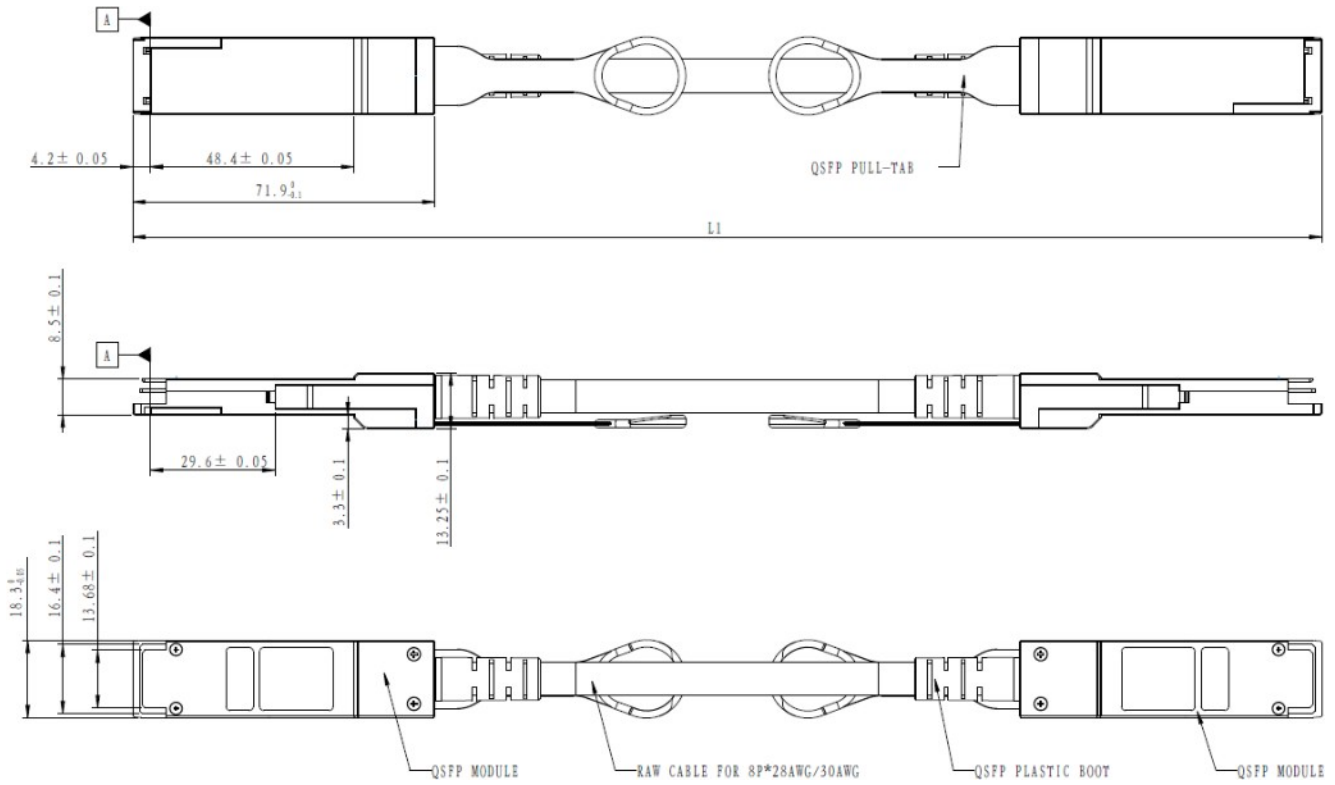
Pin Descriptions

Pin	Symbol	Name/Descriptions	Ref.
1	GND	Ground	
2	Tx2n	Transmitter Inverted Data Input	
3	Tx2p	Transmitter Non-Inverted Data Input	
4	GND	Ground	
5	Tx4n	Transmitter Inverted Data Input	
6	Tx4p	Transmitter Non-Inverted Data Input	
7	GND	Ground	
8	ModSelL	Module Select	
9	ResetL	Module Reset	
10	Vcc RX	+3.3V Power Supply Receiver	
11	SCL	2-wire serial interface clock	
12	SDA	2-wire serial interface data	
13	GND	Ground	
14	Rx3p	Receiver Non-Inverted Data Output	
15	Rx3n	Receiver Inverted Data Output	
16	GND	Ground	
17	Rx1p	Receiver Non-Inverted Data Output	
18	Rx1n	Receiver Inverted Data Output	
19	GND	Ground	
20	GND	Ground	
21	Rx2n	Receiver Inverted Data Output	
22	Rx2p	Receiver Non-Inverted Data Output	
23	GND	Ground	
24	Rx4n	Receiver Inverted Data Output	
25	Rx4p	Receiver Non-Inverted Data Output	
26	GND	Ground	
27	ModPrsL	Module Present	
28	IntL	Interrupt	
29	Vcc TX	+3.3V Power Supply transmitter	
30	Vcc1	+3.3V Power Supply	
31	LPMMode	Low Power Mode	
32	GND	Ground	
33	Tx3p	Transmitter Non-Inverted Data Input	
34	Tx3n	Transmitter Inverted Data Input	
35	GND	Ground	
36	Tx1p	Transmitter Non-Inverted Data Input	
37	Tx1n	Transmitter Inverted Data Input	
38	GND	Ground	

Notes:

- 1. InfiniBand FDR.
- 2. QSFP+ 10Gbps 4x PLUGGABLE TRANSCEIVER –SFF-8436

Mechanical Specifications



ALL DIMENSIONS ARE ± 0.2 mm UNLESS OTHERWISE SPECIFIED UNIT: mm