

Features

- QSFP Module compliant to SFF-8661
- SFP Module compliant to SFF-8431/8432, INF-8074i
- Transmission data rate up to 25.78Gbps per channel
- Enable 100Gb/s to 4x25Gb/s Transmission
- Link length up to 5m
- Built-in EEPROM functions



- Operating case temperature -40°C to +85°C
- RoHS2.0 compliant

1. Recommended Operation Condition

Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc	3.13	3.3	3.47	V
Storage temperature	Ts	-40		85	°C
Operating Case temperature	Tc	-40		85	°C
Humidity	Rh	5		85	%
Data Rate			100		Gbps

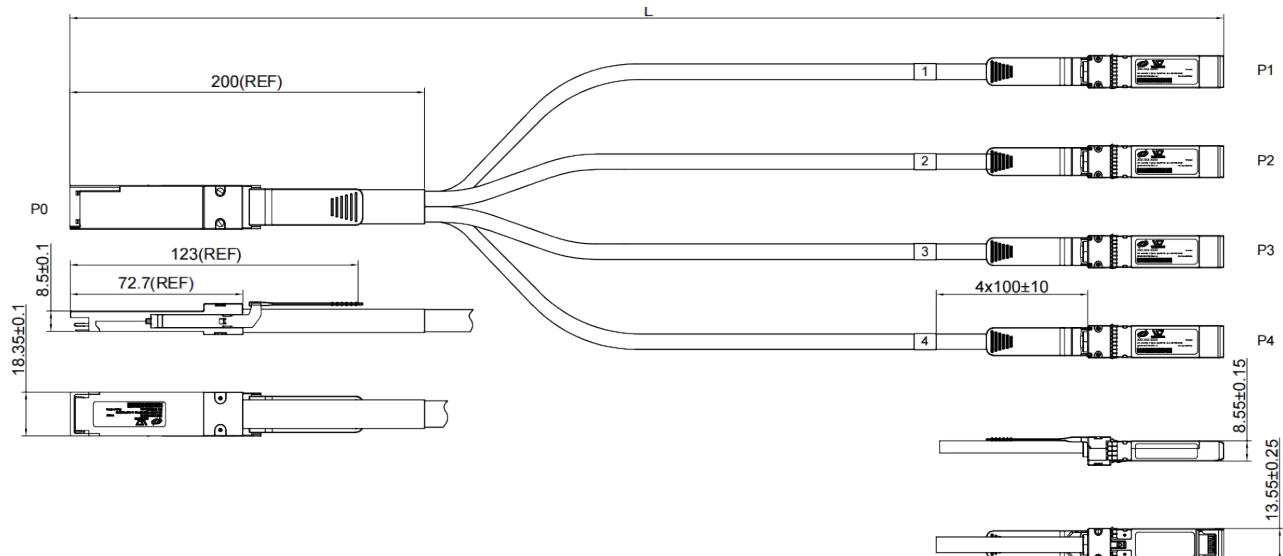
2. Physical Characteristics

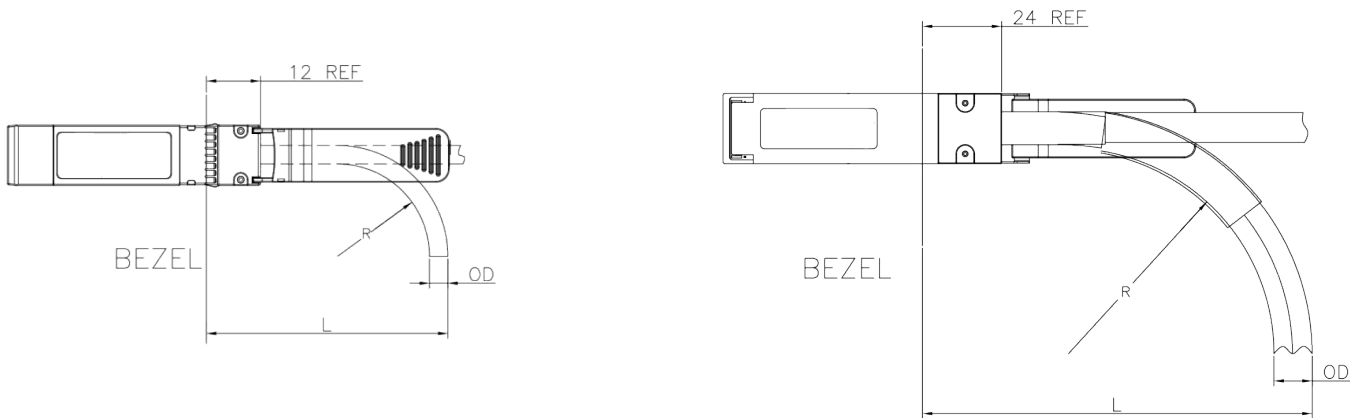
Parameter	Symbol	Min	Typical	Max	Unit
Length	L	0.5		5.0	M
AWG		30		26	AWG
Jacket material		PVC, Black (or Customization)			

3. Electrical Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Resistance	Rcon			3	ohm
Insulation Resistance	Rins			10	Mohm
Raw cable impedance	Zca	95	100	105	ohm
Mated connector Impedance	Zmated	85	100	115	ohm
Insertion loss at 12.89 GHz	SDD21	8		22.48	dB
Return loss	SDD11/22	$\text{Return_loss}(f) \geq \begin{cases} 16.5-2\sqrt{f} & 0.05 \leq f < 4.1 \\ 10.66-14\log_{10}(f/5.5) & 4.1 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode return loss	SCD11/22	$\text{Return_loss}(f) \geq \begin{cases} 122-(20/25.78)f & 0.01 \leq f < 12.89 \\ 15-(6/25.78)f & 12.89 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode conversion loss	SCD21-SDD21	$\text{Conversion_loss}(f) - \text{IL}(f) \geq \begin{cases} 10 & 0.01 \leq f < 12.89 \\ 27-(29/22)f & 12.89 \leq f < 15.7 \\ 6.3 & 15.7 \leq f \leq 19 \end{cases}$			dB
Minimum COM	COM	3			dB

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

OEM	Part Number	OEM	Part Number
MSA	CAB-QSFP28-4S25G-CU1M-I	MSA	CAB-QSFP28-4S25G-CU2M-I
MSA	CAB-QSFP28-4S25G-CU3M-I	MSA	CAB-QSFP28-4S25G-CU4M-I
MSA	CAB-QSFP28-4S25G-CU5M-I		

5. Contact Information

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