4L-Q40C

QSFP+ 40GBASE, Passive Direct Attach Cooper Twinax Cable

Applications

- 40GBASE Ethernet
- InfiniBand QDR (4 x 10G), DDR (4 x 5G) and SDR (4 x 2.5G) interconnects
- Enterprise and Datacenter Networks
- Infiniband EDR
- Fibre Channel over Ethernet
- Other optical links

Features

- QSFP+ 40G SFF8436 Compliant
- 4-Channel Full-Duplex Passive Copper Cable Transceiver
- QSFP MSA Compliant
- Up to 10.3Gbps (per channel)
- IEEE 802.3ba 40GBASE-CR4
- Digital Diagnostic Monitoring
- RoHS and Lead Free
- Operating temperature: 0°C ~ +70°C

Description

The 4L-Q40C series are a passive Direct Attach Cables (DAC) with QSFP+ 40Gbps transceivers for data communications such as 40GBASE-CR4 defined by IEEE 802.3ba. 4LAN's DAC cables are designed to connect switches, routers, servers or storage with high performance in a cost effective way.
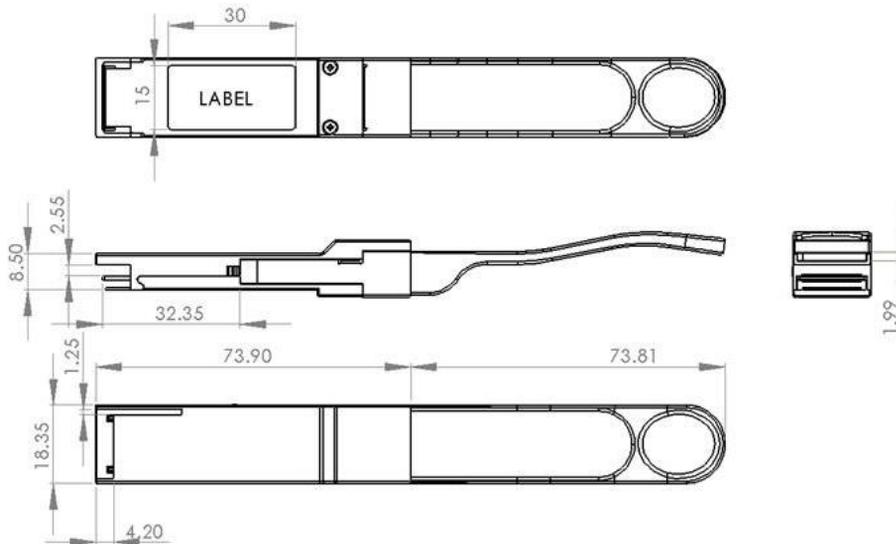
Absolute Maximum Ratings

Parameter	Symbol	Min	Recommended	Max
Max. Link Length	Lmax			1M, 2M, 3M, 4M , 5M and 7M
Data Rate Per Lane	Gbps			10.3Gbps
Storage Temperature	Tc	-40°C		+85°C
Operating Case Temperature	Tc	0°C		+70°C
Supply Voltage	Vcc	3.14V	3.3V	3.47V

Mechanical Specifications

Cable Gauge	Diameter	Minimum Bend Radius (R)	Minimum Bend Space (L)
30 AWG	4.2mm	33mm	72.5mm
26 AWG	5.2mm	46mm	72.5mm
24 AWG	6.0mm	42mm	85.25mm

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Mechanical Specifications

Plug	
Backshell Material	Nickel-Plated Zinc Diecast
Contact Material	PCB with Gold-Plated Pads
Latch	Positive Latching w/Pull
Insertion Force	30N Max
Withdrawal Force	20N Max
Retention Force	90N Max
Durability	50 Cycles Min
Cable	
Conductor	Solid
Wire Gauge	AWG30, AWG28, AWG26, AWG24
Impedance	100±5 ohms
Cable OD	AWG 30 :4.2mm
	AWG 28 :4.7mm
	AWG 26:5.2mm
	AWG 24: 6.0mm
Jacket Type	PVC
Bend Radius	5X Cable OD

General Specifications

Electrical	
Min. Dielectric Withstand Voltage	300 VDC
Insulation Resistance	1000 Mohms
Current Rating	0.5 Amp Min/Signal Contact
General	
Operating Temperature	0 to 70°C
Flammability Rating	UL 94 V-0
Green Features	RoHS, Lead-Free
Shield	Braid/Foil

Ordering Information

Part Number	Description
4L-Q40C1	QSFP+ 40G DAC Passive Cable, AWG30, 1m
4L-Q40C2	QSFP+ 40G DAC Passive Cable, AWG30, 2m
4L-Q40C3	QSFP+ 40G DAC Passive Cable, AWG30, 3m
4L-Q40C4	QSFP+ 40G DAC Passive Cable, AWG30, 4m
4L-Q40C5	QSFP+ 40G DAC Passive Cable, AWG26, 5m
4L-Q40C6	QSFP+ 40G DAC Passive Cable, AWG24, 6m
4L-Q40C7	QSFP+ 40G DAC Passive Cable, AWG24, 7m

Note

This modules have been tested by 4LAN on equipments like Cisco, Juniper, Dell, HP, Mikrotik, Huawei, and other brands. The equipment brand must be informed before shipping the order, so the transceivers are reprogrammed to the corresponding brand.

Contact Information

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