

Direct Attach Copper (DAC) Cable

50G SFP56



Key Features

- Support 53.125 G PAM4
- Single Wire Size: 26AWG~30AWG
- Maximum power consumption:<0.05W each end
- Case temperature range: 0°C to 70°C
- 3.3V Power Supply
- Hot Pluggable
- BER < 10⁻¹⁵
- RoHS Compliance

Applications

- Data center & Networking Equipment
- Servers/Storage Devices
- High Performance Computing (HPC)
- Switches/Routers



Supported Standards

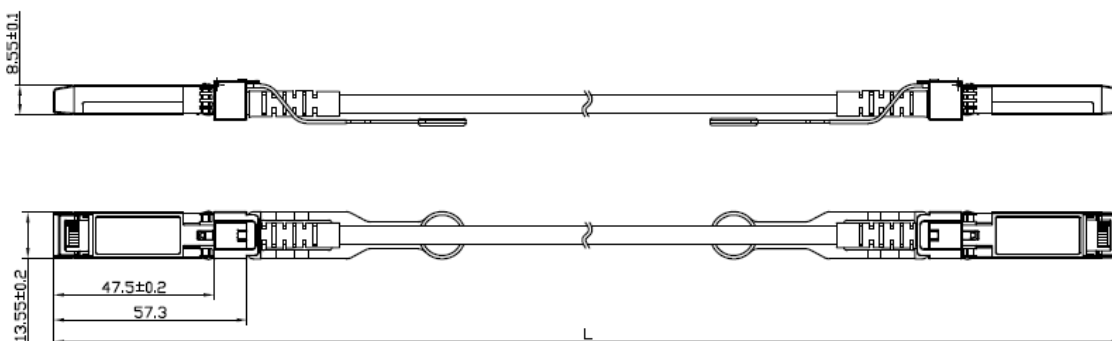
- SFP28 MSA
- SFF 8432,SFF 8402
- IEEE 802.3by
- IEEE 802.3bj

Ordering Information

LEPP-KK1xxxC		50G SFP56 to 50G SFP56 DAC (0.5m~3m)		
Ordering P/Ns	Description	Length	AWG	Cable
LEPP-KK1005C	50G SFP56 to 50G SFP56 DAC	0.5m	30AWG	PVC Black
LEPP-KK1020C	50G SFP56 to 50G SFP56 DAC	2m	26AWG	PVC Black
LEPP-KK1030C	50G SFP56 to 50G SFP56 DAC	3m	26AWG	PVC Black

xxx define DAC cable length

Mechanical Outline



Absolute Maximum Ratings

Parameter	Symbol	Unit	Min.	Typ.	Max.	Notes
Supply Voltage	Vcc	V	-0.4	-	+3.6	
Storage Temperature	TS	°C	-40	-	85	
Operating Case temperature	TOP	°C	0	-	70	
Operating Humidity	RH	%	5	-	85	

Recommended Operating Conditions

Parameter	Unit	Min.	Typ.	Max.	Notes
Operating Case Temperature	°C	0		70	
Supply Voltage	V	3.135	3.3	3.465	
Bit Rate	Gb/s		50		

SFP56 PIN Function Definitions

Pin	Logic	Symbol	Description
1		VeeT	Module Transmitter Ground
2	LVTTL-O	Tx_Fault	Module Transmitter Fault
3	LVTTL-I	Tx_DIS	Transmitter Disable; Active High Disable Transmitter Output
4	LVTTL-I/O	SDA	2-Wire Serial Interface Data
5	LVTTL-I/O	SCL	2-Wire Serial Interface Clock
6		Mod_ABS	Module Absent, connected to VeeT or VeeR in the module
7	LVTTL-I	RS0	Rate Select0, optionally controls SFP+ module receiver
8	LVTTL-O	RX_LOS	Receiver Loss of Signal Indication
9	LVTTL-I	RS1	Rate Select1, optionally controls SFP+ module transmitter
10		VeeR	Module Receiver Ground
11		VeeR	Module Receiver Ground
12	CML-O	RD-	Receiver Inverted Data Output
13	CML-O	RD+	Receiver Non-Inverted Data Output
14		VeeR	Module Receiver Ground
15		VccR	Module Receiver 3.3V Supply
16		VccT	Module Transmitter 3.3V Supply
17		VeeT	Module Transmitter Ground
18	CML-I	TD+	Transmitter Non-Inverted Data Input
19	CML-I	TD-	Transmitter Inverted Data Input
20		VeeT	Module Transmitter Ground

SFP56 Electrical Pad Layout

