



### Features

- ✧ Support for multi-gigabit data rates up to 10.5Gbps
- ✧ Data rates backward compatible to 1Gbps
- ✧ Hot-pluggable SFP 20 PIN footprint
- ✧ Copper link length up to x (x=0.5~7m)
- ✧ I/O Connector designed for high speed

- differential signal applications
- ✧ Improved Pluggable Form Factor (IPF) compliant for enhanced EMI/EMC performance
- ✧ Compatible to SFP+ MSA
- ✧ Temperature Range: 0~70°C
- ✧ RoHS compliant

### Applications

- ✧ High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers
- ✧ Switched fabric I/O such as ultra high bandwidth switches and routers
- ✧ Data center cabling infrastructure
- ✧ High density connections between networking equipment

### Ordering Information

Part Number	Description	Wiregauge (AWG)
OP39Tx	SFP+ Passive Direct Attach Copper Cable Assembly, x (x=0.5~3.5m)	30
OP39Tx	SFP+ Passive Direct Attach Copper Cable Assembly, x (x=4~7m)	24

### Description

The SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fibre Channel applications. SFP+ copper modules allow hardware manufactures to achieve high port density, configurability and utilization at a very low cast and reduced power budget. The high speed cable assemblies meet and exceed Gigabit Ethernet and Fibre Channel industry standard requirements for performance and reliability.

### ● Recommended Operating Environment

Parameter	Symbol	Min.	Typical	Max.	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	Tc	0		+70	°C
Relative Humidity	RH	0		85	%

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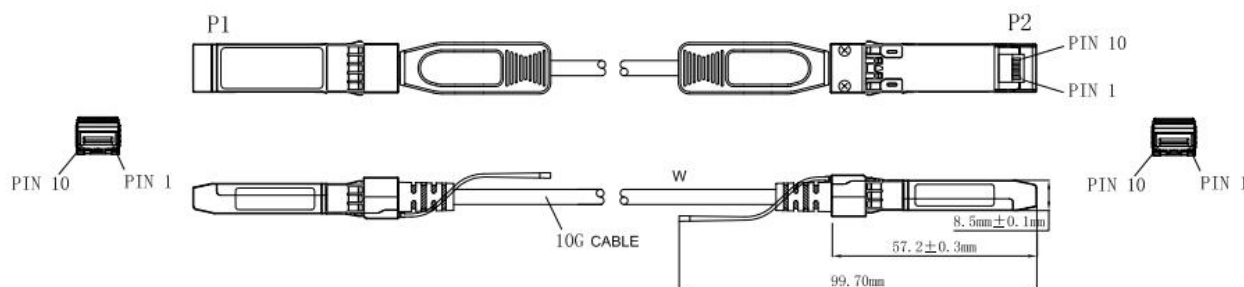
### ● Pin Function Definitions

PIN #	Name	Function	Notes
1	VeeT	Module transmitter ground	
2	Tx Fault	N/A	Note 1
3	Tx Disable	Transmitter Disable	Note 2
4	SDL	2 wire serial interface data input/output (SDA)	
5	SCL	2 wire serial interface clock input (SCL)	
6	MOD-ABS	Module present, connect to VeeT	
7	RS0	N/A	Note 1
8	LOS	Receiver Loss of Signal Indication	Note 2
9	RS1	N/A	Note 1
10	VeeR	Module receiver ground	
11	VeeR	Module receiver ground	
12	RD-	Receiver inverted data out put	
13	RD+	Receiver non-inverted data out put	
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	TD+	Transmitter inverted data out put	
19	TD-	Transmitter non-inverted data out put	
20	VeeT	Module transmitter ground	

Note 1) Signals not supported in SFP+ Copper pulled-down to VeeT with 30K ohms resistor

Note 2) Passive cable assemblies do not support LOS and TX\_DIS

### ● Mechanical Dimensions



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