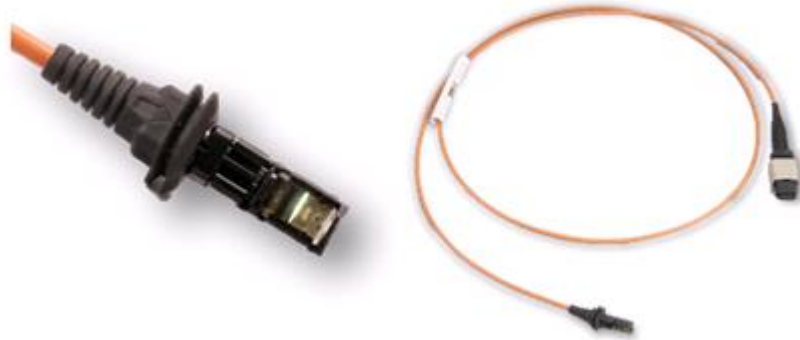


PRIZM[®] LightTurn[®]



Description:

Fibernet manufactures custom-designed assemblies using the PRIZM[®] LightTurn[®] connector in combination with the MTP connector or any other optical connector per customer request to provide a significant increase in card edge port density compared to conventionally used QSFP modules or parallel active optical cables on the card edge.

The low profile design of the PRIZM[®] LightTurn[®] provides excellent coupling to high bandwidth mini-parallel optic modules.

Consists of a multi-fiber ferrule with a photonic turn TIR (total internal reflection) lens array
Fibernet is an assembly partner of [USCONEC](#) and provides a complete solution with Avago Mini/Micro Pod chip.

Features:

- > Low profile and low foot print to save PCB space
- > Comply with Avago Mini/Micro Pod
- > Comply with MTP[®] by [USCONEC](#)

Benefits:

- > Customized assembly as per request
- > Support up to 150Gbps (12 lanes x12.5 per lane)
- > Replace QSFP technology

Applications:

- > Datacom industry
- > Data Racks

Specifications and Dimensions:

- > Optical Parameters for PRIZM[®] connector

<i>Parameter</i>	<i>Value</i>
Insertion Loss	< 2.0dB @ 850nm
Durability	≤1dB change, 20 mating (per EIA-455-21A)
Operating Temperature	-40°C ~ +80°C

- > Specification for optical cable

<i>Parameter</i>	<i>Value</i>
Tension short term	44.5N
Tension long term	44.5N
Bend radius	32mm
Diameter	1.76mm
Operating temperature.	0°C ~ +70°C
Storage temperature.	-20°C ~ +70°C
Installation temperature.	0°C ~ +70°C
Weight	3 kg/km
Flammability rating	LSZH

Ordering Information:

FPRZM- _ _ _ _ _

Cable type		Fiber Type		Fiber Count		Connector Type Side 2		Polish Type Side 2		Cable Length		Fan out Side 2		Housing	
1	Bare Ribbon	O	OM3 B.I	12	12F	0	None	0	No fiber	Cxxx	xxx cm	xxx	xxx cm	1	Jacket housing
2	Round 1.8mm	G	OM4 B.I	24	24F	F	MTP Female	N	Normal	xxxx	xxxx m			2	bare ribbon housing
				48	48F	M	MTP Male	U	UPC					3	mini housing
				72	72F	P	Prizm	A	APC						
				2X	2X12F										
				nX	nX12F										

Example: **FPRZM-1O24MUC0500103**

[Cable Type= Ribbon, Fiber Type=OM3 B.I, Fiber Count =24, Connector Side 2= MTP Male, Polish Type Side 2= UPC, Cable Length= 50cm, Fan Out Side 2 = 10cm, Housing = mini housing]

PRIZM[®] LightTurn[®] Recommended Cable Assembly Partners

Americas

Timbercon

Cindy Wolcott
Key Account Manager
503.827.8141
cindyw@timbercon.com

Tyco (TE Connectivity)

Dennis Hess
717.986.7591
dennis.hess@te.com

Computer Crafts

John Fox
973.423.3500 (ext. 120)
jfox@computer-crafts.com

Molex

Tom Schiltz
630.512.8771
tom.schiltz@molex.com

Amphenol Fiber Optics

Dennis Thomas
800.944.6446
sales@amphenol-fiberoptics.com

Optical Cabling Systems

Kieran McGrath
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Wave-2-Wave Solutions

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