



MTRJ FIBER OPTIC PATCH CORDS

Description

Pacific Interconnections' MTRJ patch cords are designed to meet EIA/TIA 568B.3 and EIA/TIA 604 standards. These products offer excellent performance with high repeatability and low levels of insertion loss. They are fully intermatable with standard MTRJ products and provide long term stability under a wide range of conditions.

MTRJ connectors are low cost and small form factor connectors with RJ-45 latching mechanism making them ideal for fiber-to-the-desk applications. The connectors are made with plastic housings and composite ferrules meeting demands for cost effectiveness. Their duplex ferrules and push-pull mechanism ensure easy connectivity.

Other than standard single mode and multimode fibers, OM2, and OM3 fibers are also available upon request. Flame retardant grade cable sheathing options are offered. Riser rated cable will be provided as standard. LSZH and Plenum can be provided upon request.



Features

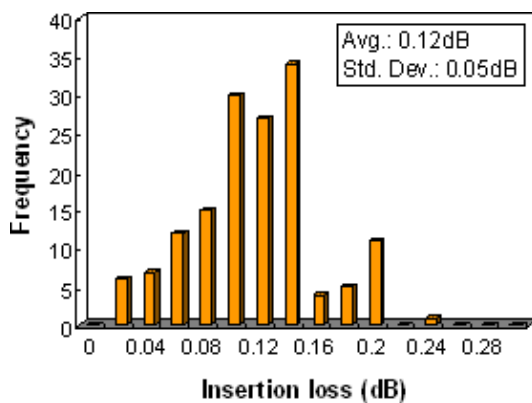
- RJ-45 form factor
- Duplex ferrule
- Increases density by 50%
- Low cost
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

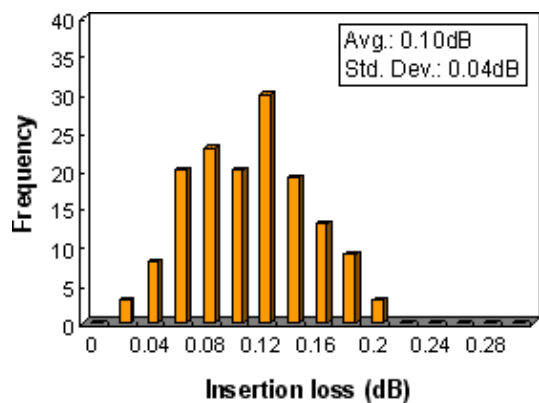
- Local Area Networks
- Fast Ethernet
- Fiber Channel
- ATM Networks
- Network cross-connect
- Fiber-to-the-desk

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um

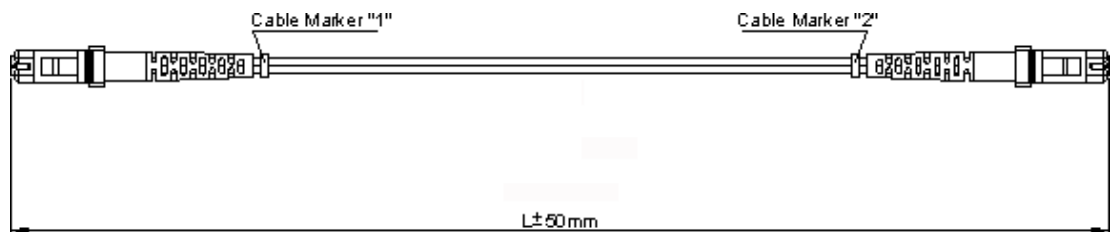


* Typical performance charts and actual data may vary from lot to lot.

Specifications

Characteristics	Unit	Value/Performance		Comments		
		SM	MM			
Basic						
Insertion Loss (IL)	dB	≤ 0.5				
Return Loss (RL)	dB	≥ 35	≥ 20			
Endurance	dB	$\Delta IL \leq 0.2$		Coupling and uncoupling 500 cycles, clean every 25 cycles		
Exchangeability	dB	$\Delta IL \leq 0.2$		Randomly		
Operating Temperature	°C	-10 ~ +60				
Storage Temperature	°C	-40 ~ +70				
Mechanical						
Impact	dB	$\Delta IL \leq 0.2$		1.5m, 5 drops, no damage		
Vibration	dB	$\Delta IL \leq 0.2$		10-55Hz, 0.75mm amplitude, 0.5 hrs/axis		
Flex	dB	$\Delta IL \leq 0.2$		0.9kg, $\pm 90^\circ$, 100cycles for jacketed cable		
Twist	dB	$\Delta IL \leq 0.2$		1.5kg load, ± 180 degrees, 10 cycles for jacketed cable		
Pull Proof	dB	$\Delta IL \leq 0.2$		6.8kg at 0° for jacketed cable		
Environmental						
Cold	dB	$\Delta IL \leq 0.2$		-10°C, 96 hrs		
Dry Heat	dB	$\Delta IL \leq 0.2$		+60°C, 96 hrs		
Damp Heat	dB	$\Delta IL \leq 0.2$		+40°C, 95%RH, 96 hrs		
Transmission						
Characteristics	Unit	G652 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz*km (nm)	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm ² *km	≤ 3.0 (1310nm)	-	-	-	-

Dimensional Drawing



Ordering Information

Part Number: **PC-MR M T P D K R 2.0- 5**

1 2 3 4 5 6 7 8 9

1	Connector #1	MR=MTRJ, S=SC, F=FC, T=ST, L=LC, etc.
2	Gender 1 or Finish 1	F=Female, M=Male; for others, S=SPC, U=UPC, A=APC, P=PC
3	Connector #2	P=Pigtail (no connector at this end), MR=MTRJ, S=SC, T=ST, L=LC, etc.
4	Gender 2 or Finish 2	F=Female, M=Male; for others, S=SPC, U=UPC, A=APC, P=PC, T=Pigtail
5	Cable Type	D=Duplex Straight, X=Duplex Reverse
6	Fiber	R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3
7	Cable Jacket	R=Riser, P=Plenum, L=LSZH
8	Cable Diameter	2.0=Ø2.0mm, etc.
9	Cable Length	Length in meter, i.e. 5=5m

Products manufactured in
ISO 9001 certified facilities



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