

# 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

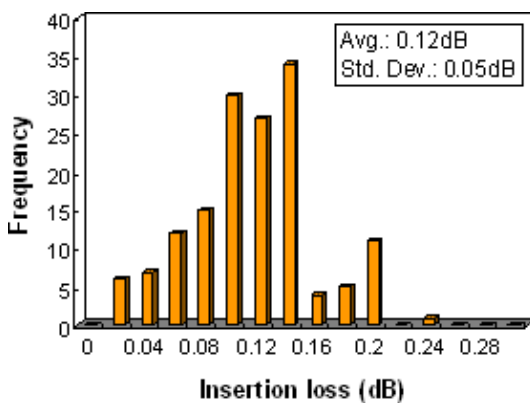
- RJ-45 form factor
- Duplex ferrule
- Increases density by 50%
- Low cost
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

## Applications

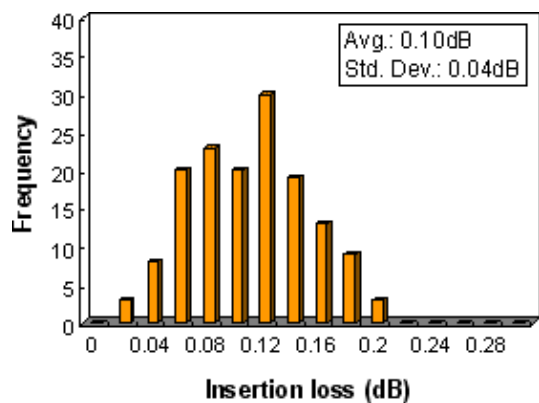
- Local Area Networks
- Fast Ethernet
- Fiber Channel
- ATM Networks
- Network cross-connect
- Fiber-to-the-desk

## Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um

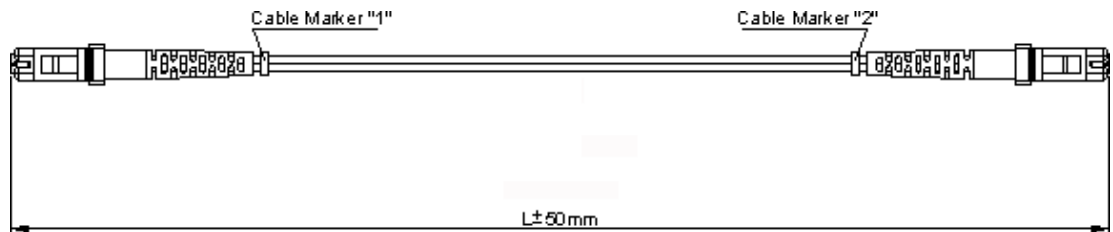


\* Typical performance charts and actual data may vary from lot to lot.

## Specifications

Characteristics	Unit	Value/Performance		Comments		
		SM	MM			
<b>Basic</b>						
Insertion Loss (IL)	dB	$\leq 0.5$				
Return Loss (RL)	dB	$\geq 35$	$\geq 20$			
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				
<b>Mechanical</b>						
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, $\pm 180$ degrees, 10 cycles for jacketed cable		
Pull Proof	dB	$\Delta IL \leq 0.2$		6.8kg at $0^\circ$ for jacketed cable		
<b>Environmental</b>						
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		
<b>Transmission</b>						
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 <sup>2</sup> *km	$\leq 3.0$ (1310nm)	-	-	-	-

## Dimensional Drawing



**Catalog Number**

Part# = S — 2 — 7U — 8U — S — 3 — R

**CABLE TYPE**  
 S=Simplex 3.0mm  
 D=Duplex 3.0mm  
 B=Breakout  
 C=Distribution  
 N=900um Buffered Fiber  
 Y=Simplex 2.0mm  
 V=Duplex 2.0mm  
 A=Armored Cable

**CORE SIZE**  
 1=G652D  
 2=G657A1  
 3=G657A2  
 4=G657B3  
 5=50/125um  
 6=62.5/125um  
 7=OM3  
 8=OM4  
 O=Other

**CONNECTORS**  
 7=FC/PC  
 7U=FC/UPC  
 7A=FC/APC  
 8=ST/PC  
 8U=ST/UPC  
 L=LC/PC  
 LU=LC/UPC  
 LA=LC/APC  
 Y=SC/PC  
 YU=SC/UPC  
 YA=SC/APC  
 MR=MTRJ  
 MU=MU  
 E2=E2000  
 MO=MPO, MP=MTP, MT=MT

**MODE**  
 S=SM  
 M=MM  
 H=Hybrid

LENGTH IN METERS

**Multi-Fiber Count Only**  
 04=4 Fiber  
 06=6 Fiber  
 12=12 Fiber  
 24=24 Fiber  
 48=48 Fiber  
 72=72 Fiber  
 96=96 Fiber

**Cable Jacket**  
 P=PVC  
 L=LSZH

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