

FC FIBER OPTIC PATCH CORDS

Description

The FC* connectors used in our patch cords are designed to NTT-FC* standards with high quality zirconia ferrules and non-optical disconnect performance. They are fully compatible with existing FC hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality. For standard patch cords, sampling check is performed on ferrule geometry to ensure high percentage of polished connectors meeting GR-326



requirements. For premium grade, ferrule geometry is tested on all patch cords to meet these GR-326 requirements.

Other than standard single mode and multimode fibers, G655, 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.

*NTT-FC is a trademark of NTT Advanced Technology Corp.

Features

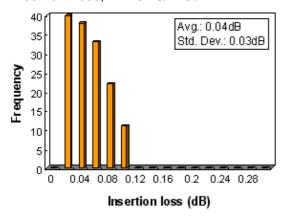
- Non-optical disconnect performance
- High quality zirconia ferrules
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

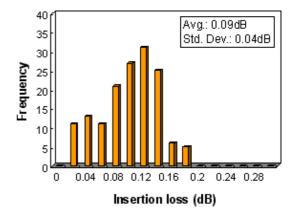
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

Optical Performance Distribution

Insertion Loss, MM 62.5/125um



Insertion Loss, SM 9/125um PC



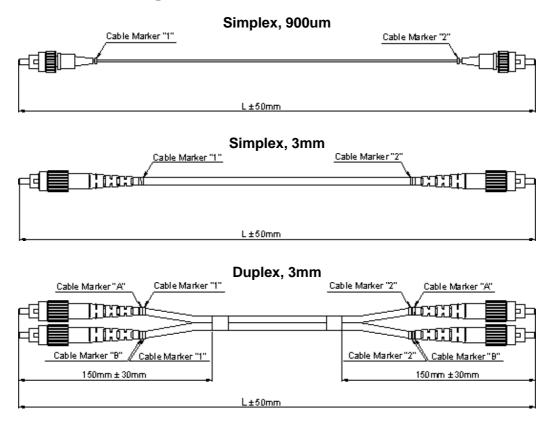
^{*} Typical performance charts and actual data may vary from lot to lot.

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Specifications

Characteristics	Unit	Value/Performance			Co	omments			
		SM		ММ					
		PC	APC						
Basic									
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4				
Return Loss (RL)	dB	SPC <u>></u> 45 UPC <u>></u> 50	<u>></u> 60	≥23	IE	C 61300-3-6			
Endurance	dB	ΔIL <u><</u> 0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles				
Operating Temperature	°C	-20 ~ +70							
Storage Temperature	°C	-40 ~ +70							
Ferrule end-face geom	etry								
Radius of Curvature (R)	mm	7-25	5-12	NA	Telcordia GR326(4.4.5)				
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)				
Fiber Protrusion	nm	≤50	≤100	NA	Telcordia GR326(4.4.5)				
Fiber Under Cut	nm	≤125@ R=7-10	<u><</u> 100	NA	Telcordia GR326(4.4.5). For PC, Under Cut ≤-0.02R ³ +1.3R ² -31R+325 when R=10-25mm				
Mechanical									
Drop	dB	ΔIL <u><</u> 0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage				
Vibration	dB	∆IL <u><</u> 0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis				
Flex	dB	ΔIL <u><</u> 0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable				
Twist	dB	ΔIL <u><</u> 0.2			Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns, 10 cycles, for 2mm or larger cable				
Pull Proof	dB	ΔIL <u><</u> 0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable				
Static Bending	dB	∆IL <u><</u> 0.2			IEC 794-1-2, 60mm diameter 10 turns				
Crushing	dB	∆IL <u><</u> 0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable				
Environmental									
Salt mist		No sign of corrosion			IEC 61300-2-26, 5% NaC1, 30°C, 7 days				
Cold	dB	∆IL <u><</u> 0.2		IEC 61300-2-17, -20°C, 96 hrs					
Dry Heat	dB	∆IL <u><</u> 0.2		IEC 61300-2-18, 70°C, 96 hrs					
Damp Heat	dB	ΔIL <u><</u> 0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs				
Transmission									
Characteristics	Unit	G652 SI	VI G	655 S	M	Std. 50um	62.5um	OM2	ОМЗ
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/15		0.3 (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/ nm²•km	<u><</u> 3.0 (1310nm		2.6-6.0 (1550nm		-	-	-	-

Dimensional Drawing



Ordering Information

Part Number: PC-F U F U S R P 3.0-5

1 2 3 4 5 6 7 8 9

Connector #1 F=FC, S=SC, T=ST, L=LC, E2=E2000, DN=DIN, M=MU, MR=MTRJ, etc.

Finish 1 or Gender 1 S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male

Connector #2 P=Pigtail (no connector at this end), F=FC, S=SC, T=ST, L=LC, etc.

In this is a finish 2 or Gender 2 S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail

5 Cable Type S=Simplex, D=Duplex

Fiber R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)

Cable Jacket R=Riser, P=Plenum, L=LSZH

8 Cable Diameter 3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.

Oable Length Cable Length in meter, i.e. 5=5m

Products manufactured in ISO 9001 certified facilities



