



## D4 FIBER OPTIC PATCH CORDS

### Description

The D4 connectors used in our patch cords belong to an older generation of connectors that are keyed and spring-loaded. The zirconia ferrules are 2mm in diameter and fully compatible with existing D4 hardware.

In addition to basic testing, some mechanical and environmental tests per IEC or Telcordia are also performed periodically to guarantee the best quality.

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.



### Features

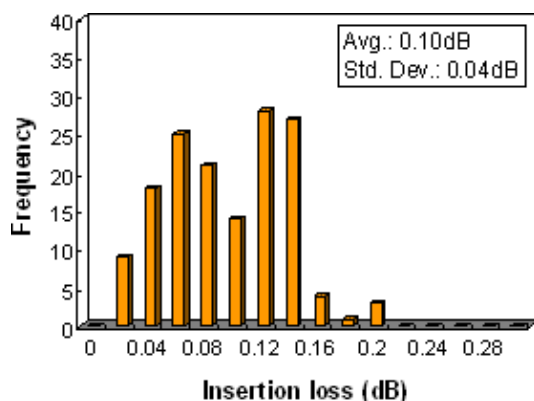
- Non-optical disconnect performance
- 2mm zirconia ferrules diameter
- Low insertion loss and high return loss
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

### Applications

- Telecommunication
- Computer networks
- Instrumentation

### Optical Performance Distribution

Insertion Loss, SM 9/125um PC

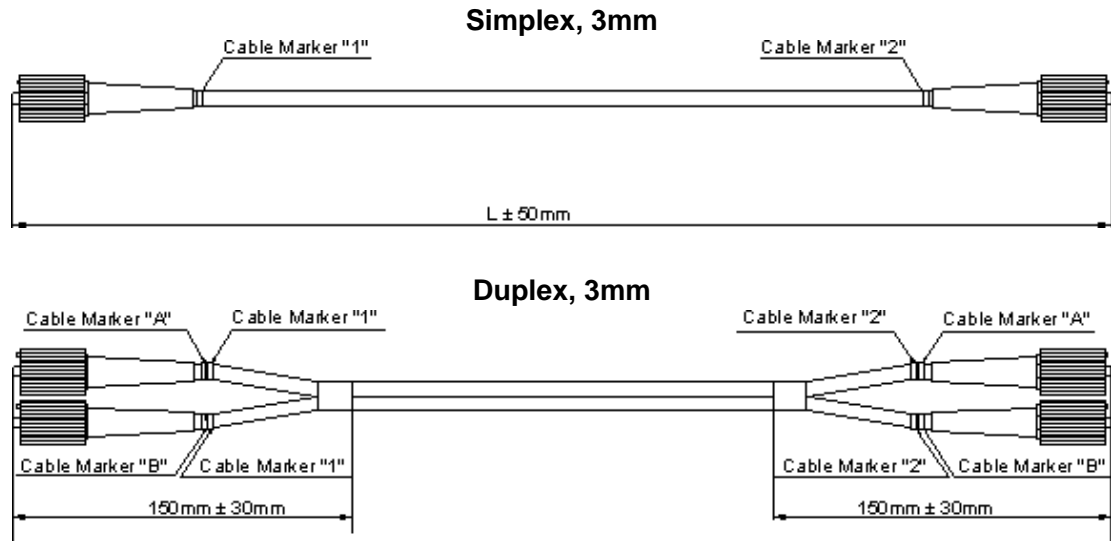


\* Typical performance chart and actual data may vary from lot to lot.

## Specifications

Characteristics	Unit	Value/Performance			Comments		
		SM		MM			
		SPC	UPC				
<b>Basic</b>							
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4		
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6		
Endurance	dB	ΔIL≤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					
<b>Mechanical</b>							
Drop	dB	ΔIL≤0.2			IEC 61300-2-12, 1.5m, 5 drops, no damage		
Vibration	dB	ΔIL≤0.2			IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis		
Flex	dB	ΔIL≤0.2			Telcordia GR326(4.4.3.2), 0.9kg, ±90°, 100cycles, for 2mm or larger cable		
Twist	dB	ΔIL≤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≤0.2			Telcordia GR326(4.4.3.4), 3.4kg at 90°, 6.8kg at 0°, for 2mm or larger cable		
Static Bending	dB	ΔIL≤0.2			IEC 794-1-2, 60mm diameter 10 turns		
Crushing	dB	ΔIL≤0.2			IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable		
<b>Environmental</b>							
Salt mist		No sign of corrosion			IEC 61300-2-26, 5% NaCl, 30°C, 7 days		
Cold	dB	ΔIL≤0.2			IEC 61300-2-17, -20°C, 96 hrs		
Dry Heat	dB	ΔIL≤0.2			IEC 61300-2-18, 70°C, 96 hrs		
Damp Heat	dB	ΔIL≤0.2			IEC 61300-2-19, 40°C, 95%RH, 96 hrs		
<b>Transmission</b>							
Characteristics	Unit	G652 SM	G655 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	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/ nm <sup>2</sup> •km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

## Dimensional Drawing



## Ordering Information

Part Number: **PC-D4 S D4 S S R L 3.0- 5**

**1 2 3 4 5 6 7 8 9**

- |                               |   |
|-------------------------------|---|
| <b>1</b> Connector #1         | D4=D4, F=FC, S=SC, T=ST, L=LC, E2=E2000, DN=DIN, MR=MTRJ, etc.      |
| <b>2</b> Finish 1 or Gender 1 | S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male               |
| <b>3</b> Connector #2         | P=Pigtail (no connector at this end), D4=D4, F=FC, S=SC, T=ST, etc. |
| <b>4</b> Finish 2 or Gender 2 | S=SPC, U=UPC, A=APC, P=PC; for MTRJ, F=Female, M=Male, T=Pigtail    |
| <b>5</b> Cable Type           | S=Simplex, D=Duplex   |
| <b>6</b> Fiber                | R=SM(G652), K=62.5um, C=50um, B=OM2, A=OM3, W=SM(G655)              |
| <b>7</b> Cable Jacket         | R=Riser, P=Plenum, L=LSZH   |
| <b>8</b> Cable Diameter       | 3.0=Ø3.0mm, 2.0=Ø2.0mm, 0.9=Ø0.9mm, etc.                            |
| <b>9</b> Cable Length         | Length in meter, i.e. 5=5m  |

Products manufactured in ISO 9001 certified facilities



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