

TECHNICAL DATA SHEET

FOR

Simplex Optical Patchcord

Single Mode G652D

LC/UPC-LC/UPC

Product: Optical Fiber Patchcord

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1. Structure

1.1 Drawing :



1.2 Length :

1m, 2m, 3m, 5m, 10m, 15m, 20m, 30m, 50m,

1.3 polarity:

Simplex : Straight

1.4 connector heat shrink :

For LC Connector 2mm is White

2. Specification of patchcord :

2.1. termination :

Connector type	LC/UPC	LC/UPC
Insertion Loss <	<0.3dB	<0.3dB
Return Loss	>45db	>45db
Repeatability	≤0.2	
Durability	≤0.2 dB / 1000 mating	
Interchangeability	≤0.2dB / 500 mating	
Tensile Strength	>50N	
Operating Temperature	-40 to + 80°C	

2.2 Mechanical :

Drop	ΔIL<0.2db	IEC 61300-2-12, 1.5m, 5 drops, no damage
Vibration	ΔIL<0.2db	IEC 61300-2-1, 10-55Hz, 0.75mm amplitude, 0.5 hrs/axis
Twist	ΔIL<0.2db	Telcordia GR326(4.4.3.3), 1.35kg load, +2.5 turns, 10 cycles, for 2mm or larger cable
Pull Proof	ΔIL<0.2db	Telcordia GR326(4.4.3.4), 2.3kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Crushing	ΔIL<0.2db	IEC 794-1-2, 102kg for 2mm or larger cable, 10.2kg for 900m cable

2.3. specification of cable :

Cable type	Simplex 2mm
Tensile strength	>120N
Attenuation variation	<0.2 db
Crush	>500 N/100mm

2.4 specification of fiber :

Single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	≤ 0.35 dB/km ≤ 0.35 dB/km ≤ 0.21 dB/km ≤ 0.30 dB/km
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.090 ps/(nm ² .km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	≤3.5 ps/(nm. km) ≤5.3 ps/(nm. km) ≤18 ps/(nm. km) ≤22 ps/(nm. km)
PMD	≤0.1 ps/km ^{1/2}
Mode field diameter @ 1310 nm @ 1550 nm	9.2±0.4μm 10.4±0.8μm
Core / Clad concentricity error	≤ 0.8μm
Cladding diameter	125.0 ± 1μm
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0°C~ +70°C @ 1310 & 1550nm	≤ 0.1 dB/km

3. color coding :

Cable	Single mode	
Simplex	Yellow	
connector	LC/UPC	LC/UPC
Housing	Blue	Blue
Clip	Blue	Blue
Boot	white	white
Dust cap	white	White
Cable marker	Dark yellow 1/2	
Serial number	transparent	

4. serial number :

Sticker on each single patchcord cable

5.. Packing and Marking

5.1 Each patchcord in individual poly bag with test report of each termination and serial number on test report .

