

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 .

