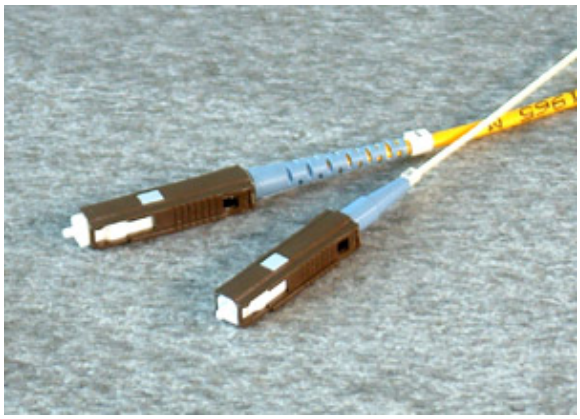
MU FIBER OPTIC PATCH CORDS

Description



MU connectors are half the size of SC connectors with push-pull function. The connectors are made of plastic housings and 1.25 mm zirconia ferrules. They are fully compatible with existing MU 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.

Features

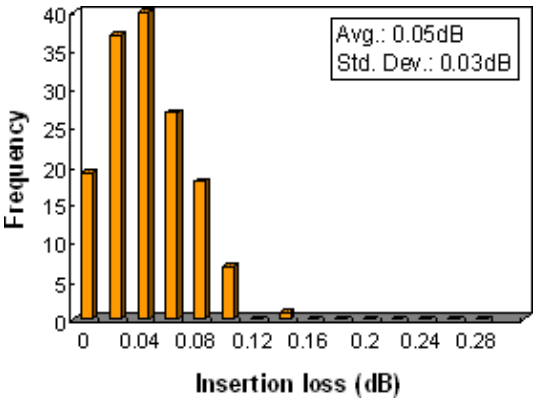
- Small size and light weight
- Push-pull operation
- High optical performance
- High quality zirconia ferrules
- Materials meet RoHS requirements
- Riser, Plenum, and LSZH cables available

Applications

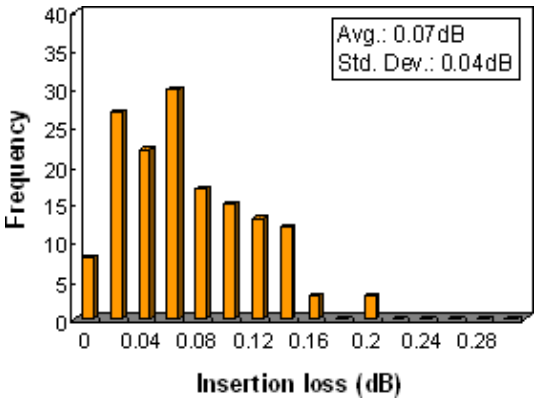
- Telecommunication
- Computer networks
- CATV networks
- Active device termination
- Instrumentation

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.

Specifications

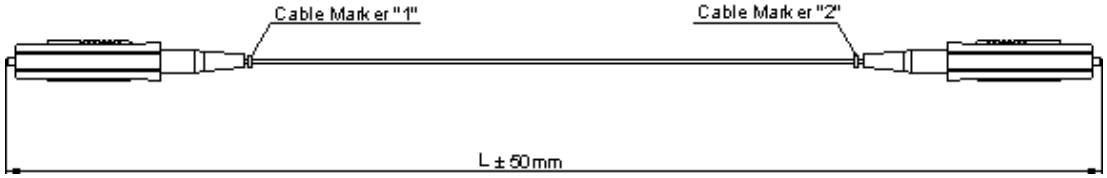
Characteristics	Unit	Value/Performance			Comments
		SM		MM	
		SPC	UPC		
Basic					
Insertion Loss (IL)	dB	≤0.3			IEC 61300-3-4
Return Loss (RL)	dB	≥45	≥50	≥23	IEC 61300-3-6
Endurance	dB	ΔIL≤0.2			IEC 61300-2-2, coupling and uncoupling 500 cycles, clean every 25 cycles
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +70			
Ferrule end-face geometry					
Radius of Curvature (R)	mm	7-25		NA	Telcordia GR326(4.4.5)
Apex Offset	um	≤50		NA	Telcordia GR325(4.4.5)
Fiber Protrusion	nm	≤50		NA	Telcordia GR326(4.4.5)
Fiber Under Cut	nm	≤125 @R=7-10		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≤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), 0.6kg, ±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), 2.3kg at 90°, 6.8kg at 0°, for 2mm or larger cable
Coupling strength	dB	ΔIL≤0.2			IEC 61300-2-6, 4.2kg, 2min
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
Environmental					
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

Transmission

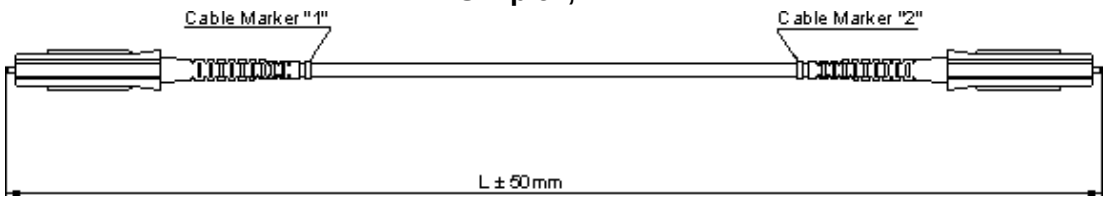
Characteristics	Unit	G652 SM	G655 SM	Std. 50um	62.5um	OM2	OM3
Max. Attenuation	dB/km (nm)	0.4/0.3 (1310/1550)	0.3 (1550)	2.8 (850)	3.0 (850)	2.8 (850)	2.8 (850)
Min. Bandwidth	MHz•km (nm)	-	-	500/500 (850/1300)	200/200 (850/1300)	750 (850)	2000 (850)
Dispersion Coefficient	ps/ nm^2•km	≤3.0 (1310nm)	2.6-6.0 (1550nm)	-	-	-	-

Dimensional Drawing

Simplex, 900um



Simplex, 2mm



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