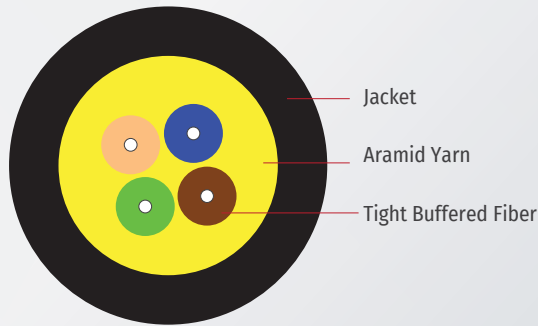


## Traveling Fiber Cable



### Features

- Cable : IEC 60794-2 and YD/T1258.4
- Fibre : SM G652D, MM 62.5/125um, MM 50/125um, OM3 50/125um, OM4 50/125um, OM5 50/125um, G657A1, G657A2(B)
- Quality assurance system : ISO9001, and cable product confirms to ROHS.

### General Specifications

General	
Dimension	Φ5.2 mm ( 4 core) / Φ6.0 mm ( 8 core)
Fiber	SM G652D, MM 62.5/125um, MM 50/125um, OM3 50/125um, OM4 50/125um, OM5 50/125um, G657A1, G657A2(B)
Strength Number	Aramid Yarn
Buffer	LSZH
Jacket	TPU

### Specifications

Stripping	Coating stripping	1.0 ~ 8.9N
	Buffer stripping	≤13.3N
Mechanical Characteristics	Tension Long Term	600N
	Tension Short Term	1500N
	Crush Long Term	700N
	Crush Short Term	1500N
	Imapct	1 N.m, fiber no damage , sheath no crack
	Repeating bending	40N,100cycles, fiber no damage.sheath no crack
	Torsion	20 N,10cycles, ±180°, fiber no damage , sheath no crack
Bending Radius	Load	20D(cable diameter)
	Unload	10D(cable diameter)
Additional att.(-40~85°C)		≤0.5dB/km
Flame resistance		IEC60332-1
Temperature range	Storage	-40~70°C
	Installation	-5~40°C
	Bending	-40~85°C

# Fiber Specifications (Singlemode)

Characteristics		G652D	G657A1	G657A2
Optical Characteristics *				
Attenuation	1310nm	≤ 0.40 dB/km	≤ 0.40 dB/km	≤ 0.40 dB/km
	1383nm	≤ 0.34 dB/km	≤ 0.35 dB/km	≤ 0.35 dB/km
	1460nm	-	≤ 0.25 dB/km	≤ 0.25 dB/km
	1490nm	-	-	≤ 0.23 dB/km
	1550nm	≤ 0.30 dB/km	≤ 0.30 dB/km	≤ 0.30 dB/km
	1625nm	≤ 0.23 dB/km	≤ 0.23 dB/km	≤ 0.23 dB/km
Attenuation vs. Wavelength	1285-1330nm	≤ 0.03 dB/km	≤ 0.03 dB/km	≤ 0.03 dB/km
Max. α difference	1525-1575nm	≤ 0.02 dB/km	≤ 0.02 dB/km	≤ 0.02 dB/km
Dispersion coefficient	1285-1340nm	≥ -3.4 ≤ 3.4 ps/(nm · km)	≥ -3.4 ≤ 3.4 ps/(nm · km)	-
	1550nm	≤ 18 ps/(nm · km)	≤ 18 ps/(nm · km)	-
	1625nm	≤ 22 ps/(nm · km)	≤ 22 ps/(nm · km)	-
Zero dispersion wavelength		1312±12 nm	1300-1324 nm	1300-1324 nm
Zero dispersion slope		≤ 0.091 ps/nm <sup>2</sup> · km	≤ 0.092 ps/nm <sup>2</sup> · km	≤ 0.092 ps/nm <sup>2</sup> · km
Typical value		0.086 ps/nm <sup>2</sup> · km	0.086 ps/nm <sup>2</sup> · km	0.04 ps/nm <sup>2</sup> · km
PMD				
Maximum Individual Fibre		≤ 0.1 ps/√km	≤ 0.1 ps/√km	≤ 0.1 ps/√km
Link Design Value(M=20,Q=0.01%)		≤ 0.06 ps/√km	≤ 0.06 ps/√km	≤ 0.06 ps/√km
Typical value		0.04 ps/√km	0.04 ps/√km	0.04 ps/√km
Cable cutoff wavelength λ <sub>cc</sub>		≤ 1260 nm	≤ 1260 nm	≤ 1260 nm
Mode field diameter(MFD)	1310nm	8.7-9.5 um	8.4-9.2um	8.4-9.2 um
	1550nm	9.9-10.9 um	9.3-10.3 um	9.3-10.3 um
Effective group index of refraction(N <sub>eff</sub> )	1310nm	1.466	1.466	1.466
	1550nm	1.467	1.467	1.467
Point discontinuities	1310nm	≤ 0.05 dB	≤ 0.05 dB	≤ 0.05 dB
	1550nm	≤ 0.05 dB	≤ 0.05 dB	≤ 0.05 dB
Geometrical Characteristics				
Cladding diameter		125.0±0.7 um	125.0±0.7 um	125.0±0.7 um
Cladding non-circularity		≤ 1.0 %	≤ 0.7 %	≤ 0.7 %
Coating diameter		245.0±7 um	245.0±5 um	245.0±5 um
Coating-cladding concentricity error		≤ 12.0 um	≤ 12.0 um	≤ 12.0 um
Coating non-circularity		≤ 6.0 %	≤ 6.0 %	≤ 6.0 %
Core-cladding concentricity error		≤ 0.6 um	≤ 0.5 um	≤ 0.5 um
CurI(radius)		≥ 4 m	≥ 4 m	≥ 4 m
Delivery length		2.1 to 50.4 km/reel	2.1 to 50.4 km/reel	2.1 to 50.4 km/reel

\*Attenuation loss of bare fiber

# Fiber Specifications (Multimode)

Characteristics		62.5/125 (OM1)	50/125 (OM2)	OM3/OM4	OM5
Geometry Characteristics					
Core Diameter		62.5±2.5 um	50±2.5 um	50±2.5 um	50±2.5 um
Core Non-circularity		≤ 5.0 %	≤ 5.0 %	≤ 5.0 %	≤ 5.0 %
Cladding Diameter		125.0±1.0 um	125.0±1.0 um	125.0±1.0 um	125.050±1.0 um
Cladding Non-circularity		≤ 1.0 %	≤ 1.0 %	≤ 0.6 %	≤ 0.6 %
Coating Diameter		245±7 um	245±7 um	245±7 um	245±7 um
Coating/Cladding Concentricity Error		≤ 10.0 um	≤ 10.0 um	≤ 10.0 um	≤ 10.0 um
Coating Non-circularity		≤ 6.0 %	≤ 6.0 %	≤ 6.0 %	≤ 6.0 %
Core/Cladding Concentricity Error		≤ 1.5 um	≤ 1.5 um	≤ 1.0 um	≤ 1.0 um
Delivery Length		up to 17.6 km/reel	up to 17.6 km/reel	up to 8.8 km/reel	up to 8.8 km/ reel
Optical Characteristics *					
Attenuation	850nm	≤ 3.5 dB/km	≤ 3.5 dB/km	≤ 3.5 dB/km	≤ 3.5 dB/km
	953nm	-	-	-	≤ 1.7 dB/km
	1300nm	≤ 1.5 dB/km	≤ 1.5 dB/km	≤ 1.5 dB/km	≤ 1.5 dB/km
Overfilled Modal Bandwidth	850nm	≥ 200 MHz · km	≥ 500 MHz · km	≥ 1500/ ≥ 3500 MHz · km	≥ 3500 MHz · km
	953nm	-	-	-	≥ 1850 MHz · km
	1300nm	≥ 500 MHz · km	≥ 500 MHz · km	≥ 500/ ≥ 500 MHz · km	≥ 500 MHz · km
Effective Modal Bandwidth	850nm	-	-	≥ 2000/ ≥ 4700 MHz · km	≥ 4700 MHz · km
	953nm	-	-	-	≥ 2470 MHz · km
10Gb/sWDM		-	-	-100/150 m	150 m
40Gb/sWDM		-	-	300/500 m	440 m
40GBASE-SR4 / 100GBASE SR10	850nm	-	-	1000/1100 m	200 m
10GBASE-SR	850nm	-	150 m	300 / 550 m	-
1000BASE-SR	850nm	-	750 m	1000/ 1100 m	-
DMD Specification					
Numerical Aperture		0.275±0.015	0.200±0.015	0.200±0.015	0.200±0.015
Group Refractive index		1,496	1,482	1,482	1,482
		1,491	1,477	1,477	1,477
Zero Dispersion Wavelength, λ <sub>0</sub>		1320-1365 nm	1295-1340 nm	1295-1340 nm	1297-1328 nm
Zero Dispersion Slope,S <sub>0</sub>		-	-	-	≤ 4(-103)/(840λ√840) <sup>4</sup> )
		-	-	-	ps/nm <sup>2</sup> · km
Zero Dispersion Slope,S <sub>0</sub> 1295nm ≤ λ <sub>0</sub> ≤ 1310nm		-	≤ 0.105 ps/nm <sup>2</sup> · km	≤ 0.105 ps/nm <sup>2</sup> · km	-
1310nm ≤ λ <sub>0</sub> ≤ 1340nm		-	≤ 0.000375(1590-λ <sub>0</sub> ) ps/nm <sup>2</sup> · km	-	-
1320nm ≤ λ <sub>0</sub> ≤ 1348nm		≤ 0.11 ps/nm <sup>2</sup> · km	-	≤ 0.000375(1590-λ <sub>0</sub> )ps/nm <sup>2</sup> · km	-
1348nm ≤ λ <sub>0</sub> ≤ 1365nm		≤ 0.001(1458-λ <sub>0</sub> ) ps/nm <sup>2</sup> · km	-	-	-

\*Attenuation loss of bare fiber

# Ordering Information

\* Ordering Code Example

