



Pigtail

LightMax[®] SINGLE MODE All Range

900 μm

SM - G.652.D | G.657.A2

SC | LC | ST | FC | E2000 | MU



[Pictures for reference only]

LightMax[®] Single Mode All Range Pigtails are available in several options and configurations in terms of optical fibre and connectors types. Being made in compliance with ANSI/TIA/EIA-568.C.3 about material specifications LightMax[®] Single Mode Pigtails are 100% inspected during and after their production process, with the only purpose of assuring the best performance and quality.

[Pictures for reference only]

Applications:

- Local and Wide Area Networks (LANs & WANs)
- Fibre Optic CATV, FTTH
- Fibre Optic telecommunications systems
- Fibre Optic Backbone infrastructure

Features:

- Low insertion loss and high return loss
- Free-floating ceramic ferrule
- UL-rated plastic housing and boot
- Boot available in a variety of colours
- High precision alignment
- RoHS 3 compliance

G.652.D FIBRE OPTIC SPECIFICATIONS

Fibre type		G.652.D
Core diameter		9 μm
MFD	@1310 nm	8.7 ~ 9.5 (μm)
	@1550 nm	9.9 ~ 10.9 (μm)
Cladding diameter		125 ±1 μm
Coating diameter	Before colour	245 ±7 μm
	After colour	250 ±15 μm
Cladding non circularity		≤ 1.0 %
Coating/Cladding concentricity error		≤ 12 μm
Chromatic Dispersion	@1285 ~ 1340 (nm)	≥ -3.4 ≤ 3.4 ps/(nm.km)
	@1550 nm	≤ 18 ps/(nm.km)
	@1625 nm	≤ 22 ps/(nm.km)
	Zero-Dispersion wavelength	1312 nm ±12 nm
PMD	Zero-Dispersion slope	≤ 0.091 ps/(nm ² .km)
	Max. (fibre on the reel)	≤ 0.1 ps/√km
	Max. (link designed value)	≤ 0.06 ps/√km
Attenuation	@1310 nm	≤ 0.32 dB/km
	@1383 nm	≤ 0.32 dB/km
	@1550 nm	≤ 0.18 dB/km
	@1625 nm	≤ 0.20 dB/km
Macro-bend loss	[100 turns, 50mm radius, 1550/1625nm]	≤ 0.05 dB
Cable Cut-Off wavelength		≤ 1260nm
Standard		
ITU-T		G.652.D

G.657.A2 FIBRE OPTIC SPECIFICATIONS

Fibre type		Single Mode
Core diameter		9 μm
MFD	@1310 nm	8.8 ±0.4 μm
	@1550 nm	9.8 ±0.5 μm
Cladding diameter		125 ±1.0 μm
Coating diameter		250 ±15 μm
Cladding non circularity		≤ 0.1 %
Coating/Cladding concentricity error		≤ 12 μm
Attenuation	@1310 nm	≤ 0.34 dB/km
	@1550 nm	≤ 0.21 dB/km
Chromatic Dispersion	@1288 ~ 1339 nm	3.5 ps/(nm.km)
	@1571 ~ 1360 nm	≤ 5.3 ps/(nm.km)
	@1550 nm	≤ 18 ps/(nm.km)
	Zero-Dispersion wavelength	1300 nm ~ 1324 nm
PMD	Zero-Dispersion slope	≤ 0.092 ps/(nm ² .km)
	Max. (fibre on the reel)	0.20 ps/√km
	Max. (link designed value)	0.10 ps/√km
Macrobend loss	30 mm radius, 100 turns, @1550 nm	≤ 0.10 dB/km
	30 mm radius, 100 turns, @1625 nm	≤ 0.10 dB/km
Standard		
ITU-T		G.657.A2



[Pictures for reference only]

CABLE SPECIFICATIONS			
Type	Simplex		
Semi Loose tube	Diameter	mm	0.85 ±0.05
	Material	-	LSZH
	Colour	-	Yellow
Bend radius	Dynamic	mm	20D
	Static	-	10D
Temperature	Storage	°C	-20 ~ 60
	Operation	-	-20 ~ 60
Tensile	N	60 (Long term) 100 (Short term)	
Crush resistance	N/100	100 (Long term) 500 (Short term)	
Standards			
IEC 60794			
GR-409-CORE			
RoHS 3.0 (Directive 2015/863/EU)			

CONNECTORS SPECIFICATIONS									
CONNECTOR		SC		LC		ST	FC	E2000	MU
		Sx	Dx	Sx	Dx				
Coupling mechanism		Push-pull		Push-pull		Bayonet	Screw in	Push-pull	Push-pull
Housing / Coupling	Material	Plastic		Plastic		Metallic	Metallic	Plastic	Plastic
	Ferrule	Material	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
IL [Insertion Loss]	Diameter	2.5 mm		1.25 mm		2.5 mm	2.5 mm	2.5 mm	1.25 mm
	Polish type	UPC APC		UPC APC		UPC	UPC APC	UPC APC	UPC
	UPC	≤0.25 dB		≤0.25 dB		≤0.25 dB	≤0.25 dB	≤0.25 dB	≤0.25 dB
RL [Return Loss]	APC	≤0.20 dB		≤0.20 dB		N/A	≤0.20 dB	≤0.20 dB	N/A
	UPC	≥ 50 dB		≥ 50 dB		≥ 50 dB	≥ 50 dB	≥ 50 dB	≥ 50 dB
Boot colours	APC	≥ 65 dB		≥ 65 dB		N/A	≥ 65 dB	≥ 65 dB	N/A
	UPC	Blue		Blue		-	Blue	Blue	Blue
Operating Temperature	APC	-40°C ~ 70°C		-40°C ~ 70°C		-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C
	UPC	Green		Green		N/A	Green	Green	N/A

Rel. 5-EN/JUN22

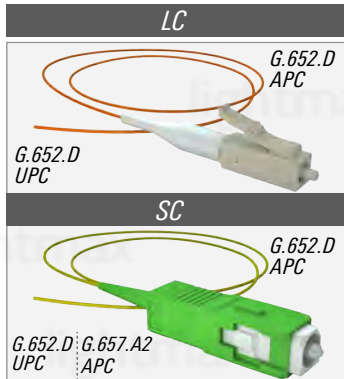


SINGLE MODE

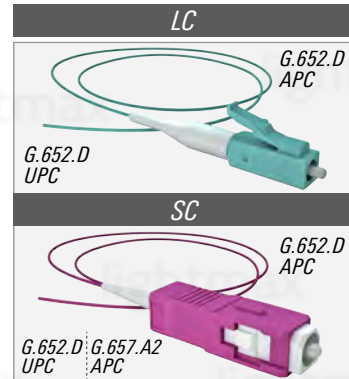
PIGTAILS

Catalogue [PAG. 30]

Loose Tube | LSZH | Ø900µm



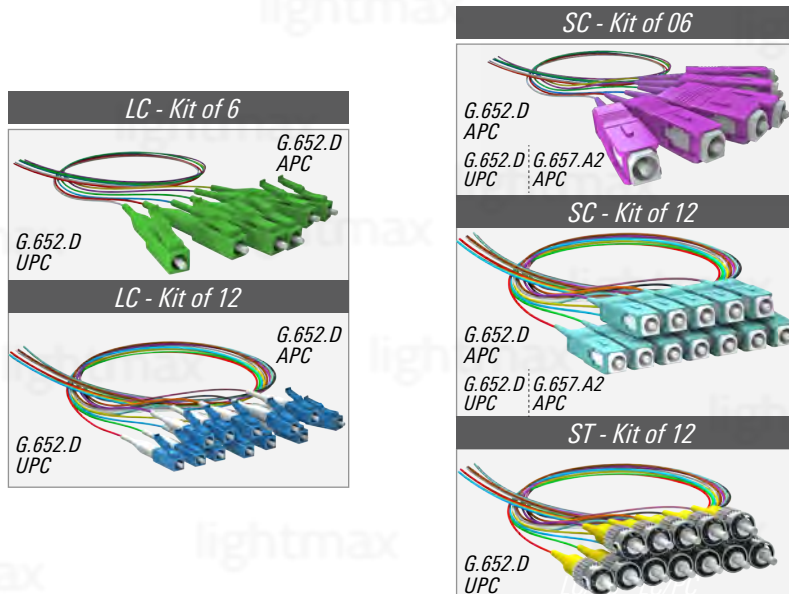
Tight Buffer | LSZH | Ø900µm



KITS

Catalogue [PAG. 31]

Loose Tube | LSZH | Ø900µm



COLOUR CODED

FOTAG [TIA 598]

FRANCE TELECOM

FOTAG [TIA 598]	FRANCE TELECOM
1 Blue	1 Red
2 Orange	2 Blue
3 Green	3 Green
4 Brown	4 Yellow
5 Grey	5 Violet
6 White	6 White
7 Red	7 Orange
8 Black	8 Grey
9 Yellow	9 Brown
10 Violet	10 Black
11 Pink	11 Aqua
12 Aqua	12 Pink

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