



## Pigtail

### LightMax<sup>®</sup> MULTIMODE All Range

900  $\mu$ m

OM1 | OM2 | OM3 | OM4

SC | LC | ST | FC | E2000 | MU



LightMax<sup>®</sup> Multimode 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<sup>®</sup> Multimode 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, FTTX
- Fibre Optic telecommunications systems
- Fibre Optic Backbone infrastructure.

#### Features:

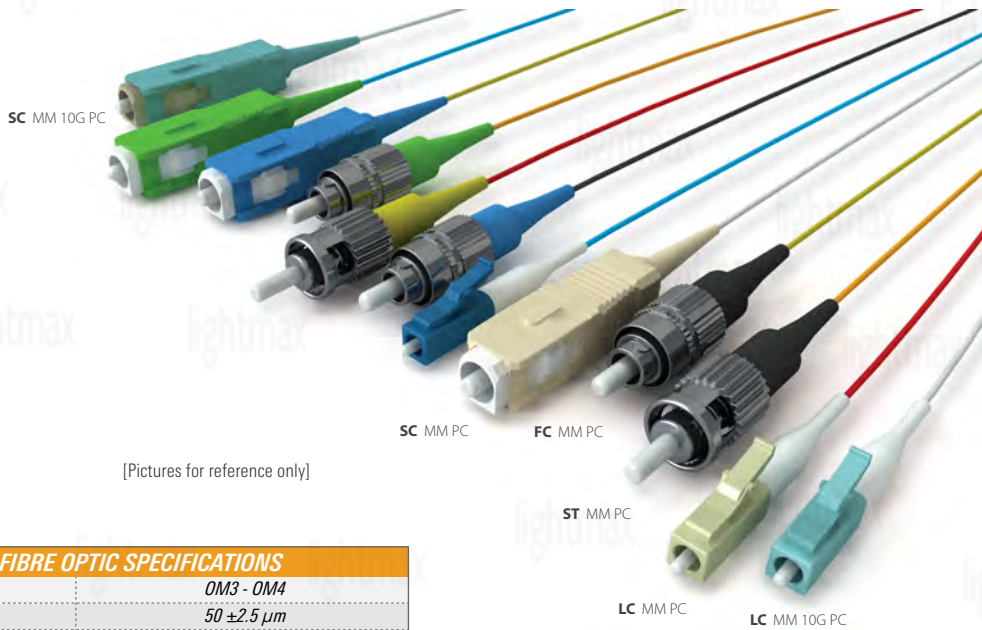
- Low insertion loss and high return loss
- Free-floating ceramic ferrule
- UL-rated plastic housing and boot
- Boot available in a variety of colours
- High precision alignment
- RoHS 3 compliance

#### OM1 FIBRE OPTIC SPECIFICATIONS

Fibre type		OM1 Multimode
Core diameter		62.5 $\pm$ 2.5 $\mu$ m
Cladding diameter		125 $\pm$ 1.0 $\mu$ m
Coating diameter		245 $\pm$ 7 $\mu$ m
Cladding non circularity		$\leq$ 1.0 %
Core/Cladding concentricity error		$\leq$ 1.5 $\mu$ m
Coating non circularity		$\leq$ 6.0 %
Cladding/Coating concentricity error		$\leq$ 10.0 $\mu$ m
Cromatic Dispersion	Zero dispersion wavelength	1320 ~ 1365 nm
	Zero dispersion slope	$\leq$ 0.11 [ps/nm <sup>2</sup> .km0]
Overfilled Modal Bandwidth	@850 nm	$\geq$ 200 (MHZ*km)
	@1300 nm	$\geq$ 200 (MHZ*km)
Attenuation	@850 nm	$\leq$ 2.7 dB/km
	@1300 nm	$\leq$ 0.6 dB/km
Standard		IEC 60793-2-10

#### OM2 FIBRE OPTIC SPECIFICATIONS

Fibre type		OM2 Multimode
Core diameter		50 $\pm$ 2.5 $\mu$ m
Cladding diameter		125 $\pm$ 1.0 $\mu$ m
Coating diameter		245 $\pm$ 7 $\mu$ m
Cladding non circularity		$\leq$ 1.0 %
Core/Cladding concentricity error		$\leq$ 1.0 $\mu$ m
Coating non circularity		$\leq$ 6.0 %
Cladding/Coating concentricity		$\leq$ 12.0 $\mu$ m
Cromatic Dispersion	Zero dispersion wavelength	1295 ~ 1320 nm
	Zero dispersion slope	$\leq$ 0.11 [ps/nm <sup>2</sup> .km0]
Overfilled Modal Bandwidth	@850 nm	$\geq$ 500 (MHZ*km)
	@1300 nm	$\geq$ 500 (MHZ*km)
Attenuation	@850 nm	$\leq$ 2.3 dB/km
	@1300 nm	$\leq$ 0.6 dB/km
Standard		IEC 60793-2-10



[Pictures for reference only]

OM3 & OM4 FIBRE OPTIC SPECIFICATIONS			
Fibre type		OM3 - OM4	
Core diameter		50 ±2.5 µm	
Cladding diameter		125.0 ±1.0 µm	
Coating diameter		245 ±7 µm	
Cladding non circularity		≤ 1.0 %	
Core/Cladding concentricity error		≤ 1.0 µm	
Core non-circularity		≤ 5.0 %	
Cladding/Coating concentricity error		≤ 12.0 µm	
Chromatic Dispersion	Zero dispersion wavelength	1295 ~ 1340 nm	
	Zero dispersion slope @1295 ±λ <sub>0</sub> ≤1310 (nm)	≤ 0.105 [ps/nm <sup>2</sup> .km0]	
	@1310 ±λ <sub>0</sub> ≤1340 (nm)	≤ 0.000375 (1590-λ <sub>0</sub> ) [ps/nm <sup>2</sup> .km0]	
Overfilled Modal Bandwidth	@850 nm	OM3	≥ 1500 (MHZ*km)
	@1300 nm	OM4	≥ 3500 (MHZ*km)
Attenuation	@850 nm	≤ 2.4 dB/km	
	@1300 nm	≤ 0.6 dB/km	
Standard IEC 60793-2-10			

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
Standards			IEC 60794 GR-326-CORE RoHS 3.0 [Directive 2015/863/EU]

CONNECTORS SPECIFICATIONS									
CONNECTOR		SC		LC		ST	FC	E 2 0 0 0	M U
		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
	Diameter	2.5 mm		1.25 mm		2.5 mm	2.5 mm	2.5 mm	1.25 mm
	Polish type	PC		PC		PC	PC	PC	PC
IL [Insertion Loss]	PC	≤ 0.25 dB		≤ 0.25 dB		≤ 0.25 dB	≤ 0.25 dB	≤ 0.25 dB	≤ 0.25 dB
RL [Return Loss]	PC	≥ 35 dB		≥ 35 dB		≥ 35 dB	≥ 35 dB	≥ 35 dB	≥ 35 dB
Boot colours	PC	White		White		Red+Black	Red+Black	Blue	Blue
Operating Temperature		-40°C ~ 70°C		-40°C ~ 70°C		-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C	-40°C ~ 70°C

Rel. 5-EN/JUN22

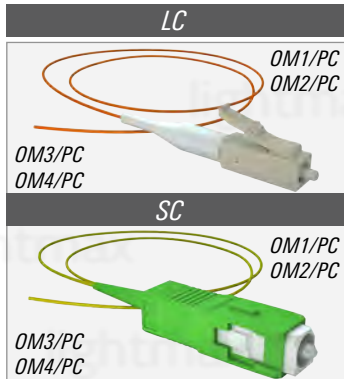


# MULTIMODE

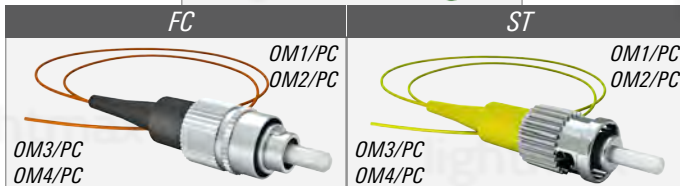
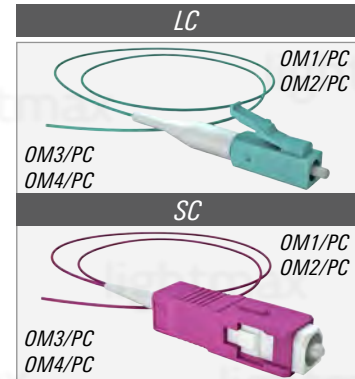
## PIGTAILS

Catalogue [PAG. 30]

**Loose Tube | LSZH | Ø900µm**



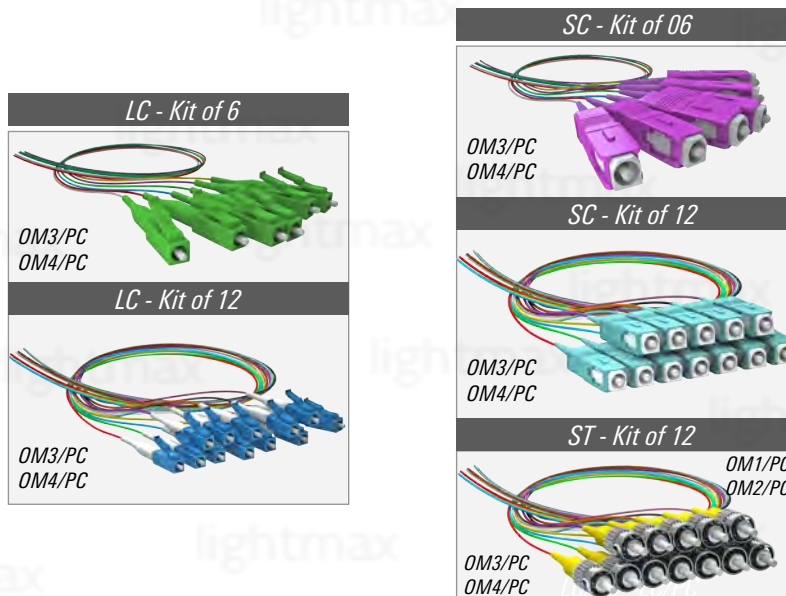
**Tight Buffer | LSZH | Ø900µm**



## 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

[Pictures for reference only]

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