



Jumper

LightMax[®] MULTIMODE All Range

Simplex - Duplex | 2.0 mm

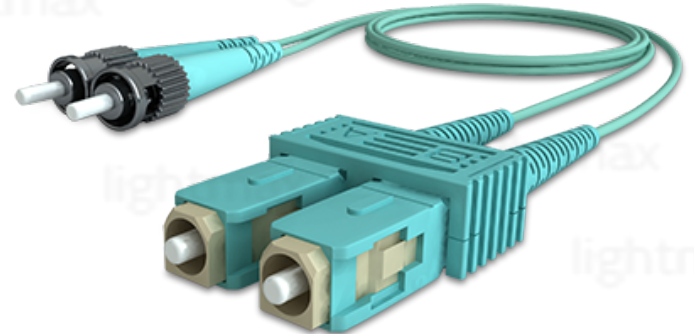
OM1 | OM2 | OM3 | OM4

SC | LC | ST | FC | E2000

LightMax[®] Multimode All Range Jumpers 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[®] Multimode Jumpers are 100% inspected during and after their production process in which the geometry of their components (fibre optic and connectors) may concern, with the only purpose of assuring the best performance and quality.

Applications:

- Local and Wide Area Networks (LANs & WANs)



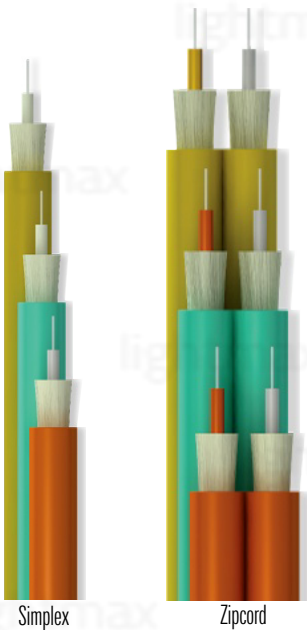
[Pictures only for reference purposes]

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 ±2.5 µm	
Cladding diameter	125 ±1.0 µm	
Coating diameter	245 ±7 µm	
Cladding non circularity	≤ 1.0 %	
Core/Cladding concentricity error	≤ 1.5 µm	
Coating non circularity	≤ 6.0 %	
Cladding/Coating concentricity error	≤ 10.0 µm	
Cromatic Dispersion	Zero dispersion wavelength	1320 ~ 1365 nm
	Zero dispersion slope	≤ 0.11 [ps/nm ² .km0]
Overfilled Modal Bandwidth	@850 nm	≥200 (MHZ*km)
	@1300 nm	≥200 (MHZ*km)
Attenuation	@850 nm	≤ 2.7 dB/km
	@1300 nm	≤ 0.6 dB/km
Standard IEC 60793-2-10		

OM2 FIBRE OPTIC SPECIFICATIONS		
Fibre type	OM2 Multimode	
Core diameter	50 ±2.5 µm	
Cladding diameter	125 ±1.0 µm	
Coating diameter	245 ±7 µm	
Cladding non circularity	≤ 1.0 %	
Core/Cladding concentricity error	≤ 1.0 µm	
Coating non circularity	≤ 6.0 %	
Cladding/Coating concentricity	≤ 12.0 µm	
Cromatic Dispersion	Zero dispersion wavelength	1295 ~ 1320 nm
	Zero dispersion slope	≤ 0.11 [ps/nm ² .km0]
Overfilled Modal Bandwidth	@850 nm	≥500 (MHZ*km)
	@1300 nm	≥500 (MHZ*km)
Attenuation	@850 nm	≤ 2.3 dB/km
	@1300 nm	≤ 0.6 dB/km
Standard IEC 60793-2-10		



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	
Cromatic Dispersion	Zero dispersion wavelength		1295 ~ 1340 nm
	Zero dispersion slope		≤ 0.105 [ps/nm².km0]
			≤ 0.000375 (1590-λ ₀) [ps/nm².km0]
Overfilled Modal Bandwidth	@850 nm	OM3	≥1500 (MHZ*km)
		OM4	≥3500 (MHZ*km)
	@1300 nm		≥500 (MHZ*km)
Attenuation	@850 nm	≤ 2.4 dB/km	
	@1300 nm	≤ 0.6 dB/km	
Standard			
IEC 60793-2-10			

CABLE SPECIFICATIONS

Type		Simplex		Duplex	
Diameter (D)	mm	1.9 ±0.1	2.8 ±5.7	2.0 X 4.1	2.8 X 5.7
Outer jacket material	—	LSZH			
Weigth	kg/km	3.5	7.0	7.0	14.0
Strength member	—	Aramid yarns			
Tight buffer	—	900µm PVC			
Temperature	°C	-20 ~ 60			
Bend radius	xD	20D (dynamic) 10D (static)			
Crush resistance	N/100mm	100 (Long term) 500 (Short term)			
Tensile	N	60 (Long term) 100 (Short term) ; 80 (Long term) 150 (Short term)			
Standards		IEC 60332-1 GR-326-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
	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