



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 error	≤ 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	
Chromatic Dispersion	Zero dispersion wavelength	1295 ~ 1340 nm
	Zero dispersion slope	≤ 0.105 [ps/nm ² .km0]
		≤ 0.000375 (1590-λ ₀) [ps/nm ² .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			
Weight	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

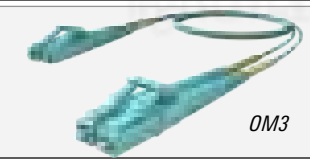



CONNECTOR	SC		LC		ST	FC	E2000	MU
	Sx	Dx	Sx	Dx				
Coupling mechanism	Push-pull		Push-pull		Bayonet	Screw in	Push-pull	Push-pull
Housing / Coupling	Material: Plastic		Material: Plastic		Material: Metallic	Material: Metallic	Material: Plastic	Material: Plastic
Ferrule	Material: Zirconia ceramic		Material: Zirconia ceramic		Material: Zirconia ceramic	Material: Zirconia ceramic	Material: Zirconia ceramic	Material: Zirconia ceramic
	Diameter: 2.5 mm		Diameter: 1.25 mm		2.5 mm	2.5 mm	2.5 mm	1.25 mm
	Polish type: PC		Polish type: PC		PC	PC	PC	PC
IL [Insertion Loss]	PC ≤0.25 dB		PC ≤0.25 dB		PC ≤0.25 dB	PC ≤0.25 dB	PC ≤0.25 dB	PC ≤0.25 dB
RL [Return Loss]	PC ≥ 35 dB		PC ≥ 35 dB		PC ≥ 35 dB	PC ≥ 35 dB	PC ≥ 35 dB	PC ≥ 35 dB
Boot colours	PC White		PC White		PC Red+Black	PC Red+Black	PC Blue	PC 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/APR22



MULTIMODE

Catalogue [PAG. 28]	
DUPLEX LSZH Ø2mm	
	OM1
LC/PC - LC/PC	
	OM1
LC/PC - SC/PC	
	OM1
SC/PC - SC/PC	
	OM2
LC/PC - LC/PC	
	OM2
LC/PC - SC/PC	
	OM2
SC/PC - SC/PC	
	OM2
LC/PC - ST/PC	
	OM2
SC/PC - ST/PC	
	OM2
ST/PC - ST/PC	

Catalogue [PAG. 29]	
DUPLEX LSZH Ø2mm	
	OM3
LC/PC - LC/PC	
	OM3
LC/PC - SC/PC	
	OM3
SC/PC - SC/PC	
	OM3
LC/PC - ST/PC	
	OM3
SC/PC - ST/PC	
	OM3
ST/PC - ST/PC	
	OM4
LC/PC - SC/PC	
	OM4
SC/PC - SC/PC	
	OM4
ST/PC - ST/PC	

Rel. 5-EN/APR22