



Jumper

LightMax[®] SINGLE MODE All Range

Simplex - Duplex | 2.0 mm & 3.0 mm

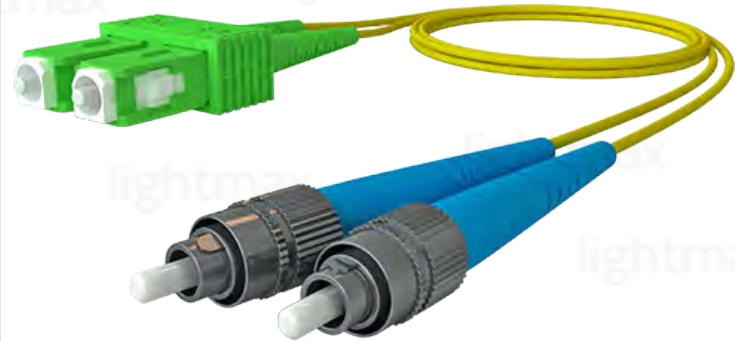
SM G.652.D | G.657.A2

SC | LC | ST | FC | E2000

LightMax[®] Single Mode 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[®] Single Mode 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)
- Fibre optic CATV, FTTH, FTTB, FTTP, etc.
- Fibre optic telecommunication systems
- Fibre optic backbone
- Optical devices and equipments



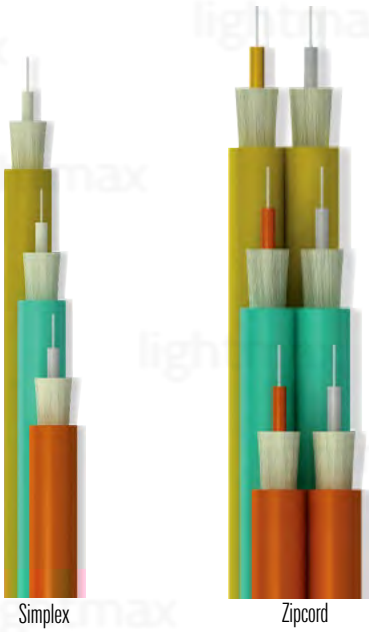
[Pictures only for reference purposes]

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

G.652.D FIBRE OPTIC SPECIFICATIONS	
Fibre type	Single Mode
Core diameter	9 μm
MFD	9.2 ±0.4 μm
	10.4 ±0.5 μm
Cladding diameter	125 ±1.0 μm
Coating diameter	245 ±7 μm
Cladding non circularity	≤ 1.0 %
Core/Cladding concentricity error	≤ 0.6 μm
Coating non-circularity	≤ 6 μm
	≥ -3.4 ± 3.4 ps/(nm.km)
Chromatic Dispersion	≤ 18 ps/(nm.km)
	≤ 22 ps/(nm.km)
Zero-Dispersion wavelength	1312 ±12 nm
Zero-Dispersion slope	≤ 0.091 ps/(nm ² .km)
PMD	≤ 0.10 ps/√km
	≤ 0.06 ps/√km
Attenuation	≤ 0.32 dB/km
	≤ 0.32 dB/km
	≤ 0.18 dB/km
	≤ 0.20 dB/km
Standard	ITU-T G.652.D

G.657.A2 FIBRE OPTIC SPECIFICATIONS	
Fibre type	Single Mode
Core diameter	9 μm
MFD	8.9 ~ 9.2 (μm)
	9.3 ~ 10.3 (μm)
Cladding diameter	125 ±0.7 μm
Coating diameter	245 ±5 μm
Cladding non circularity	≤ 0.7%
Core/Cladding concentricity error	≤ 0.5 μm
	≤ 0.35 dB/km
Attenuation	≤ 0.35 dB/km
	≤ 0.21 dB/km
	≤ 0.23 dB/km
	≤ 0.03 dB/km
	≤ 0.1 dB/km
Macrobend loss	≤ 0.1 dB/km
	≤ 0.1 dB/km
	≤ 0.2 dB/km
Standard	ITU-T G.657.A2



Simplex

Zipcord

[Pictures only for reference purposes]

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		Plastic		Plastic		Metallic	Metallic	Plastic	Plastic
Ferrule		Material		Zirconia ceramic		Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
		Diameter		2.5 mm		1.25 mm	2.5 mm	2.5 mm	1.25 mm
		Polish type		UPC APC		UPC APC	UPC	UPC APC	UPC APC
IL [Insertion Loss]		UPC		≤0.25 dB		≤0.25 dB	≤0.25 dB	≤0.25 dB	≤0.25 dB
		APC		≤0.20 dB		≤0.20 dB	N/A	≤0.20 dB	≤0.20 dB
RL [Return Loss]		UPC		≥ 55 dB		≥ 55 dB	≥ 55 dB	≥ 55 dB	≥ 55 dB
		APC		≥ 65 dB		≥ 65 dB	N/A	≥ 65 dB	≥ 65 dB
Boot colours		UPC		Blue		Blue	-	Blue	Blue
		APC		Green		Green	N/A	Green	Green
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

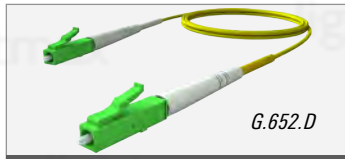
Rel. 4-EN/APR22



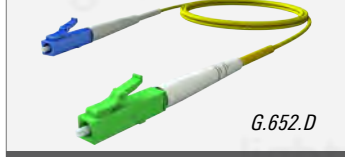
SINGLE MODE

Catalogue [PAG. 24]

SIMPLEX
LC/APC - LC/APC



LC/APC - LC/UPC



LC/APC - SC/APC



LC/APC - SC/UPC



SC/APC - SC/APC



SC/APC - SC/UPC



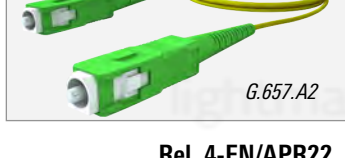
FC/APC - FC/APC



SC/APC - SC/UPC

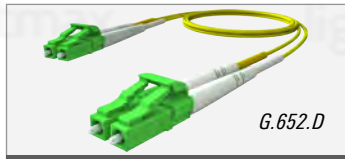


SC/APC - SC/APC



Catalogue [PAG. 25]

DUPLEX
LC/APC - LC/APC



LC/APC - LC/UPC



LC/APC - SC/APC



LC/APC - SC/UPC



SC/APC - SC/APC



SC/APC - SC/UPC



FC/APC - FC/APC



FC/UPC - FC/UPC



ST/UPC - ST/UPC

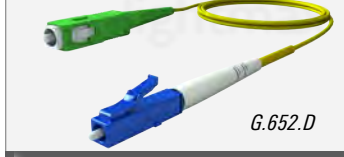


Catalogue [PAG. 26]

SIMPLEX [LSZH]
LC/UPC - LC/UPC



LC/UPC - SC/APC



LC/UPC - SC/UPC



SC/UPC - SC/UPC



LC/UPC - FC/UPC



LC/UPC - ST/UPC



SC/UPC - FC/UPC



SC/UPC - ST/UPC

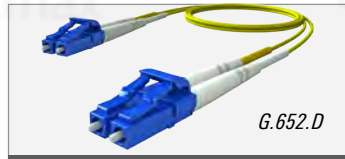


ST/UPC - ST/UPC



Catalogue [PAG. 27]

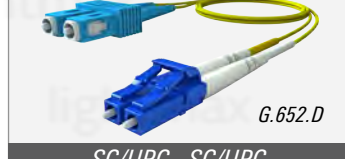
DUPLEX [LSZH]
LC/UPC - LC/UPC



LC/UPC - SC/APC



LC/UPC - SC/UPC



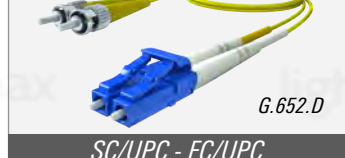
SC/UPC - SC/UPC



LC/UPC - FC/UPC



LC/UPC - ST/UPC



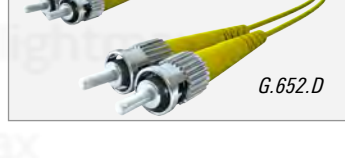
SC/UPC - FC/UPC



SC/UPC - ST/UPC



ST/UPC - ST/UPC



Rel. 4-EN/APR22