

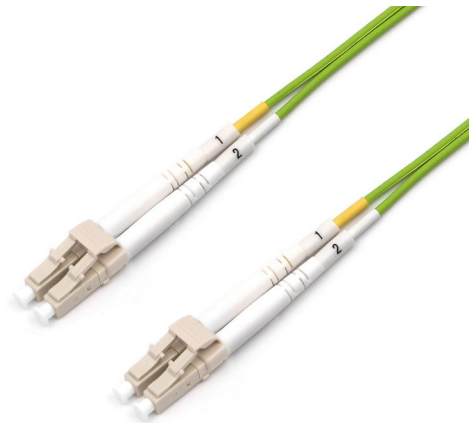
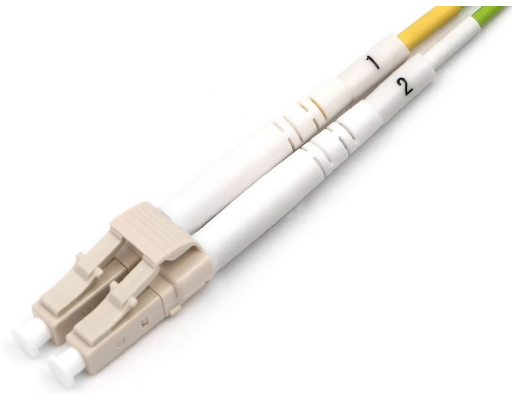
OM5 LC/LC DUPLEX MULTI-MODE FIBRE LEADS

DESCRIPTION

The DYNAMIX OM5 bend-sensitive multi-mode fibre optic cable features a 50µm laser-optimized core for SWDM applications, extending OM4-equivalent performance from 850nm to 950nm. It supports future 100Gbps and 400Gbps multi-wavelength systems, complying with ISO/IEC 11801 OM5, IEC 607793-2-10 Type A1a.4, and TIA/EIA-492AAAE specifications, ideal for high-speed data centre and network environments.

FEATURES

- Designed for multi-wavelength systems
- Maintaining compatibility with current OM4 multi-mode optical fibre
- Very low macro-bending sensitivity
- Supports 100Gbps Ethernet
- Duplex transmission of 40/100/400Gbps using SWDM technology
- LSZH Outer jacket
- 900µm Optical fibre
- Lime green colour



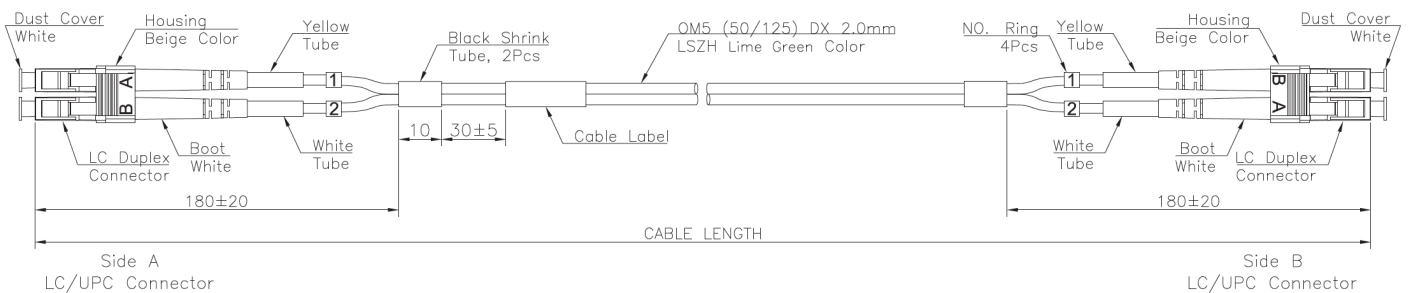
PRODUCT CODE	TYPE	LENGTH
FL-LCLCOM5-0	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	0.5m
FL-LCLCOM5-1	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	1m
FL-LCLCOM5-1H	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	1.5m
FL-LCLCOM5-2	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	2m
FL-LCLCOM5-3	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	3m
FL-LCLCOM5-5	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	5m
FL-LCLCOM5-7H	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	7.5m
FL-LCLCOM5-10	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	10m
FL-LCLCOM5-15	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	15m
FL-LCLCOM5-20	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	20m
FL-LCLCOM5-30	50µm LC/LC Duplex, Multi-Mode Fibre Lead. Lime Green	30m

Multi-Mode Fibre Type	100MbE	1GbE	10GbE	25 GbE	40/100GbE	40G SWDM4	100G SWDM4	400G-BD4.2
OM1	2000m	275m	33m	-	-			
OM2		550m	82m	-	-			
OM3			300m	70m	100m	240m	75m	70m
OM4			400m	100m	150m	350m	100m	100m
OM5						440m	150m	150m



SPECIFICATIONS

	CONDITIONS	SPECIFIED VALUES
Attenuation	850nm	≤2.4dB/km
	953nm	≤1.7dB/km
	1300nm	≤0.6dB/km
Core Diameter	50±2.5µm	
Core Non-Circularity	≤5.0%	
Cladding Diameter	125.0±0.8µm	
Cladding Non-Circularity	≤0.6%	
Coating Diameter	245±7µm	
Overfilled Modal Bandwidth	850nm	≥3500MHz + km
	953nm	≥1850MHz + km
	1300nm	≥500MHz + km
Effective Modal Bandwidth	850nm	≥4700MHz + km
	953nm	≥2470MHz + km
40Gbs Multi-Wavelength Transceivers	850~950nm	150m
40 & 100 Gigabit Ethernet	850nm	200m
10GBASE-SR	850nm	600m
10GBASE-SX	850nm	1100m
Numerical Aperture		0.200±0.015
Group Refractive Index	850nm	600m
	1300nm	1100m
Zero Dispersion Wavelength, λ ₀		1297~1328nm
Zero Dispersion Slope, S ₀		≤4 (-103)/(840(1-(λ ₀ /840) ⁴))ps/nm ² km
Macrobending loss		@850nm, @1300nm
2 turns @15mm radius		≤0.1dB, ≤0.3dB
2 turns @7.5mm radius		≤0.2dB, ≤0.5dB
ENVIRONMENTAL CHARACTERISTIC	850nm & 1300nm	
Temperature Cycling	-60°C~+85°C	≤0.10dB/km
Temperature Humidity Cycling	-10°C~+85°C & 4% ~98% RH	≤0.10dB/km
Water Immersion	23°C for 30 days	≤0.10dB/km
Dry Heat	85°C for 30 days	≤0.10dB/km
Damp Heat	85°C & 85% RH for 30 days	≤0.10dB/km
Proof Test		≥9.0N
		≥1.0% ≥100kpsi



Please note we took the up-most care to compile the information in this datasheet. To the best of our knowledge all info provided were correct at the time of creation. Should any specs change we try to update info accordingly. Information are subject to change without notice. In the case that you find any irregularity please inform our team at contactus@dynamix.co.nz

Last updated: 20 June 2024

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