

Part No. 050502T5120003M	Fiber Type OM3 Multimode	Connector LC/UPC Duplex	Cable Jacket LSZH	Length 3 m	Jacket Color Aqua
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PRODUCT OVERVIEW

Corning's LC/LC Duplex OM3 Fiber Optic Patch Cord delivers industry-leading performance for high-speed multimode network applications. Built with genuine Corning® ClearCurve® OM3 laser-optimized multimode fiber (LOMMF), this 3-meter cord provides reliable 10/40/100 Gigabit Ethernet connectivity. The LSZH jacket ensures fire safety and minimal toxic gas emission, making it ideal for data centers, enterprise networks, and telecom rooms.

OPTICAL SPECIFICATIONS

Fiber Type	OM3 50/125 µm Multimode (LOMMF)
Fiber Standard	IEC 60793-2-10 Type A1a.2 / TIA-492AAAC
Core / Cladding	50 µm / 125 µm
Modal Bandwidth @ 850 nm	1,500 MHz·km (OFL) / 2,000 MHz·km (EMB)
Modal Bandwidth @ 1300 nm	500 MHz·km (OFL)
Attenuation @ 850 nm	≤ 3.0 dB/km
Attenuation @ 1300 nm	≤ 1.0 dB/km
Numerical Aperture	0.200 ± 0.015
Max Insertion Loss (connector)	≤ 0.4 dB per mated pair
Return Loss	≥ 26 dB (UPC finish)

CONNECTOR SPECIFICATIONS

Connector Type	LC UPC Duplex (IEC 61754-20)
Ferrule Material	Zirconia Ceramic (1.25 mm)
Ferrule Polish	UPC — Ultra Physical Contact
Ferrule Concentricity	≤ 0.5 µm
Housing Material	Thermoplastic (Duplex clip)
Mating Cycles	≥ 500 cycles (per GR-326)
Insertion Force	≤ 8.9 N
Extraction Force	≥ 8.9 N

CABLE SPECIFICATIONS

Cable Construction	2-Fiber Zipcord Tight-Buffered
Outer Diameter (each leg)	2.0 mm
Jacket Color	Aqua (per TIA-598-D)
Jacket Material	LSZH — Low Smoke Zero Halogen
Flame Rating	IEC 60332-1 / LSZH
Tensile Load (install)	≤ 220 N
Tensile Load (long-term)	≤ 110 N
Bend Radius (long-term)	≥ 30 mm
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C

SUPPORTED APPLICATIONS

Application	Speed	Distance
10GBase-SR (IEEE 802.3ae)	10 Gb/s	300 m
40GBase-SR4 (IEEE 802.3ba)	40 Gb/s	100 m
100GBase-SR10 (IEEE 802.3ba)	100 Gb/s	100 m
1GBase-SX (IEEE 802.3z)	1 Gb/s	550 m
Fibre Channel 4/8/16G	Up to 16G FC	380 m

STANDARDS & COMPLIANCE

IEC 61754-20	LC Connector interface standard
IEC 60793-2-10	Multimode optical fiber
TIA-568-C.3	Optical fiber cabling components
Telcordia GR-326	Connector performance & reliability
IEC 61300-3-4	Insertion loss measurement
IEC 60332-1	LSZH flame retardancy test
RoHS 2011/65/EU	Restriction of hazardous substances

- ✓ Corning ClearCurve® OM3 LOMMF fiber
- ✓ 100% factory-tested — insertion loss & return loss
- ✓ Ceramic ferrule for low loss & high durability
- ✓ LSZH jacket — suitable for restricted air spaces
- ✓ Individually serialized with test report included
- ✓ Compatible with LED & VCSEL laser sources

ORDERING INFORMATION

Part Number	Description	Connector	Fiber	Jacket	Length
050502T5120003M	LC-LC Duplex MM OM3 Patch Cord	LC/LC UPC Duplex	OM3 50/125 µm	Riser (OFNR) 2.0 mm	3 m
050502T5Z20003M	LC-LC Duplex MM OM3 LSZH Patch Cord	LC/LC UPC Duplex	OM3 50/125 µm	LSZH 2.0 mm	3 m
050502T5120001M	LC-LC Duplex MM OM3 Patch Cord	LC/LC UPC Duplex	OM3 50/125 µm	Riser (OFNR) 2.0 mm	1 m
050502T5120005M	LC-LC Duplex MM OM3 Patch Cord	LC/LC UPC Duplex	OM3 50/125 µm	Riser (OFNR) 2.0 mm	5 m

* Highlighted row (050502T5Z20003M) is the LSZH variant matching this datasheet.