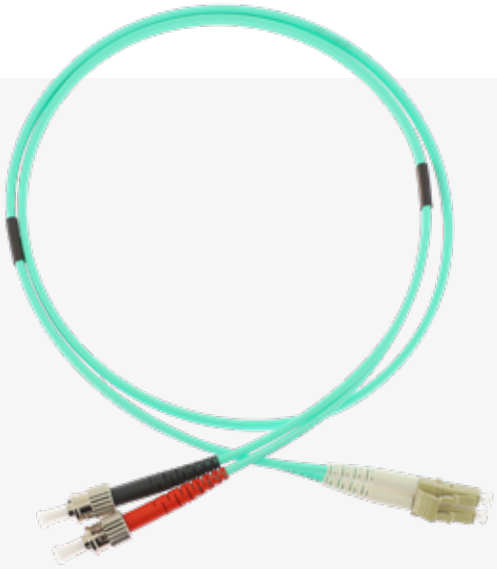
GIGAMEDIA
SMART BUILDING SOLUTIONS

DUPLEX PATCHCORDS LC/ST

Thanks to a stringent quality policy & individual inspection/ testing of each manufactured piece, GIGAMEDIA patchcords offer a high level of performance at a fair price. Each patchcord is packaged individually and delivered with a unique serial number & individual IL/RL test report.



RoHS COMPLIANT 2002 / 95 / EC

MECHANICAL PROPERTIES

	G657 A2	OS2	OM1	OM2	OM3	OM4/OM5
Connector body	plastic	plastic	plastic	plastic	plastic	plastic
Ferule surface	convex	convex	convex	convex	convex	convex
Core diameter	9.2 ±0.4 µm	9.2 ±0.4 µm	62.5 ± 2.5 µm	50 ± 2.5 µm	50 ± 2.5 µm	50 ± 2.5 µm
Cladding diameter	125 ±0.7 µm	125 ±1.0 µm				125 ± 2.0 µm
Cladding non-circularity	⩽ 0.7 %	⩽ 1.0 %	⩽ 1.0 %	⩽ 1.0 %	⩽ 1.0 %	⩽ 1.0 %
Core/cladding concentricity error	⩽ 0.5 µm	⩽ 0.6 µm	⩽ 6.0 µm			⩽ 1.5 µm
Ferule material	ceramic (Zr02) Ø (inner) 126 µm	ceramic (Zr02) Ø (inner) 126 µm	ceramic (Zr02) Ø (inner) 127 µm	ceramic (Zr02) Ø (inner) 127 µm	ceramic (Zr02) Ø (inner) 127 µm	ceramic (Zr02) Ø (inner) 127 µm
Polishing method	UPC or APC	UPC or APC	PC	PC	PC	PC

OPTICAL PROPERTIES

	OM5	OM4	OM3	OM2	OM1
Typical loss	⩽ 2.4 dB/km (850 nm) ⩽ 1.7 dB/km (953 nm) ⩽ 0.6 dB/km (1300 nm)	⩽ 2.7 dB/km (850 nm) ⩽ 0.8 dB/km (1300 nm)	⩽ 2.7 dB/km (850 nm) ⩽ 0.8 dB/km (1300 nm)	⩽ 2.8 dB/km (850 nm) ⩽ 0.8 dB/km (1300 nm)	⩽ 3 dB/km (850 nm) ⩽ 1 dB/km (1300 nm)
Bandwith (MHz/km)	⩾ 3500 MHz.km (850 nm - OFL) ⩾ 500MHz.km (1300 nm - OFL) ⩾ 4700 MHz.km (850 nm - EMBc*) ⩾ 2470 MHz.km (953 nm - EMBc*)	⩾ 3500 MHz.km (850 nm - OFL) ⩾ 500 MHz.km (1300 nm - OFL) ⩾ 4700 MHz.km (850 nm - EMBc*)	⩾ 1500 MHz.km (850 nm - OFL) ⩾ 500 MHz.km (1300 nm - OFL) ⩾ 2000 MHz.km (850 nm - EMBc*)	⩾ 500 MHz.km (850 nm - OFL) ⩾ 500 MHz.km (1300 nm - OFL)	⩾ 200 MHz.km (850 nm - OFL) ⩾ 500 MHz.km (1300 nm - OFL)
Typical Insertion Loss	⩽ 0.15 dB	⩽ 0.15 dB	⩽ 0.15 dB	⩽ 0.15 dB	⩽ 0.15 dB
Max. Insertion Loss	⩽ 0.25 dB	⩽ 0.25 dB	⩽ 0.25 dB	⩽ 0.25 dB	⩽ 0.25 dB
Typical Return Loss	⩾ 20 dB	⩾ 35 dB	⩾ 35 dB	⩾ 35 dB	⩾ 35 dB
Mating cycles	1000 (variation 0.2 dB)	1000 (variation 0.2 dB)	1000 (variation 0.2 dB)	1000 (variation 0.2 dB)	1000 (variation 0.2 dB)

**EMBC calculated thanks to the DMD mask Method*

Performances required by ISO 11801 OS1 & OS2 categories are both fully satisfied.

OTHER SPECIFICATIONS OF FIBER ON REQUEST

	G657 A2	OS2
Typical loss	⩽ 0.35 dB/km (1310 nm) ⩽ 0.20 dB/km (1550 nm)* ⩽ 0.21 dB/km (1625 nm)	⩽ 0.39 dB/km (1310-1625 nm) ⩽ 0.25 dB/km (1550 nm)
Typical Insertion Loss	⩽ 0.15 dB (SC/APC ⩽ 0.10 dB)	⩽ 0.15 dB (SC/APC ⩽ 0.10 dB)
Max. Insertion Loss	⩽ 0.25 dB (SC/APC ⩽ 0.20 dB)	⩽ 0.25 dB (SC/APC ⩽ 0.20 dB)
Typical Return Loss	⩾ 50 dB (SC/APC > 65 dB)	⩾ 50 dB (SC/APC > 65 dB)
Mating cycles	1000 (variation 0.2 dB)	1000 (variation 0.2 dB)

** Additionnal loss @ 1550 nm:*
- 10 turns (15 mm mandrel) ⩽ 0,03 dB
- 1 turn (10 mm mandrel) ⩽ 0,1 dB
- 1 turn (7.5 mm mandrel) ⩽ 0,5 dB

CABLE MECHANICAL PROPERTIES

	G657 A2	OM5	OM4	OS2	OM3	OM2	OM1
Construction	semi-tight buffer						
Reinforcement	aramid yarns						
Tensile strength	permanent 250 N; installation 450 N						
Crush resistance	2000 N/dm						
Cable diameter	3 mm						
Min. Bending radius during installation	10 mm						
Temperature range during operation	-5 °C to +60 °C						
Outer sheath material	LSHF						
Outer sheath colour	Yellow	Lime Green	Violet	Yellow	Aqua	Orange	Orange

COMPLIANCE

- IEC 61754-20; IEC 61754-4; Bellcore/telcordia GR-326; EIA/TIA 604-10A
- EIA/TIA 568; ISO/IEC 11801 2nd Ed, EN 50173; JIS C5973 F04; ITU-T G651; ITU-T G652D; ITU-T 652B ; ITU-T 657A+B
- IEEE 802.3

GGM SUPJN

GGM PGJ1N

PART NUMBER

P/N	DESCRIPTION
GGM D3MTLCxM	Duplex patchcord OS2 LC/ST
GGM D5MTLCxM	Duplex patchcord OM4 LC/ST
GGM D4MTLCxM	Duplex patchcord OM3 LC/ST
GGM D1MTLCxM	Duplex patchcord OM2 LC/ST
GGM D2MTLCxM	Duplex patchcord OM1 LC/ST

**x denotes the length*

ACCESSORIES

P/N	DESCRIPTION
GGM PGJ1N	1U patchcord management plate (black)
GGM SUPJN	Black patchcord management brackets (set of 2 pcs)

The patchcord management plates are compatible with GMTO series patch panels