



DUPLEX PATCHCORDS SC/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.



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 (ZrO2) Ø (inner) 126 μm	ceramic (ZrO2) Ø (inner) 126 μm	ceramic (ZrO2) 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

PART NUMBER

P/N	DESCRIPTION
GGM D3MTCxM	Duplex patchcord OS2 SC/ST
GGM D5MTCxM	Duplex patchcord OM4 SC/ST
GGM D4MTCxM	Duplex patchcord OM3 SC/ST
GGM D1MTCxM	Duplex patchcord OM2 SC/ST
GGM D2MTCxM	Duplex patchcord OM1 SC/ST

*x denotes the length



GGM SUPJN



GGM PGJ1N

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 GMT0 series patch panels