

DUPLEX PATCHCORDS LC/SC



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.

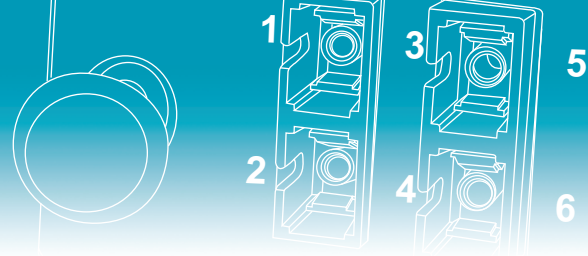
MECHANICAL PROPERTIES

	OM4	OS2	OM1	OM2	OM3
Connector body	plastic	plastic	plastic	plastic	plastic
Ferule surface	convex	convex	convex	convex	convex
Core Diameter	50 ± 2,5 µm	9.2 ± 0.4µm	62,5 ± 2,5 µm	50 ± 2,5 µm	50 ± 2,5 µm
Cladding diameter	125 ± 2.0 µm	125 ± 1.0µm			
Cladding non-circularity	≤ 1.0%	≤ 1.0%	≤ 1.0%	≤ 1.0%	≤ 1.0%
Core/cladding concentricity error	≤ 1.5 µm	≤ 0.6µm	≤ 6.0µm		
Ferule material	ceramic (ZrO2) inner diameter 127µm	ceramic (ZrO2) inner diameter 126µm	ceramic (ZrO2) inner diameter 127µm	ceramic (ZrO2) inner diameter 127µm	ceramic (ZrO2) inner diameter 127µm
Polishing method	PC	UPC or APC	PC	PC	PC

OPTICAL PROPERTIES

	OM4	OM3	OM2	OM1
Typical loss	≤ 2,7dB/km (850nm) ≤ 0,8dB/km (1300nm)	≤ 2,7dB/km (850nm) ≤ 0,8dB/km (1300nm)	≤ 2,8dB/km (850nm) ≤ 0,8dB/km (1300nm)	≤ 3dB/km (850nm) ≤ 1dB/km (1300nm)
Bandwith (MHz.km)	≥ 3500MHz.km (850nm - OFL) ≥ 500MHz.km (1300nm - OFL) ≥ 4700MHz.km (850nm - EMBC*)	≥ 1500MHz.km (850nm - OFL) ≥ 500MHz.km (1300nm - OFL) ≥ 2000MHz.km(850nm - EMBC*)	≥ 500MHz.km (850nm - OFL) ≥ 500MHz.km (1300nm - OFL)	≥ 200MHz.km (850nm - OFL) ≥ 500MHz.km (1300nm - OFL)
Typical insertion loss	≤ 0,15dB	≤ 0,15dB	≤ 0,15dB	≤ 0,15dB
Max. insertion loss	≤ 0,25dB	≤ 0,25dB	≤ 0,25dB	≤ 0,25dB
Typical Return Loss	≥ 35 dB	≥ 35 dB	≥ 35 dB	≥ 35 dB
Mating cycles	1000 (variation 0,2dB)	1000 (variation 0,2dB)	1000 (variation 0,2dB)	1000 (variation 0,2dB)

*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

	OS2	
Typical cable Loss	≤ 0.39dB/km (1310-1625nm)	≤ 0.25dB/km (1550nm)
Chromatic dispersion	≤ 3 ps/nm*km(1285-1330nm)	≤ 6 ps/nm*km (1270-1340nm) ≤ 18ps/nm*km (1550nm)
Typical Insertion Loss	≤ 0,15dB (SC/APC ≤ 0,10dB)	
Max. Insertion Loss	≤ 0,25dB (SC/APC ≤ 0,20dB)	
Typical Return Loss	≥ 50dB (SC/APC > 85dB)	
Mating cycles	1000 (variation 0,2dB)	

CABLE MECHANICAL PROPERTIES

	OM4	OS2	OM3	OM2	OM1
Construction			semi-tight buffer		
Reinforcement			aramid yarns		
Tensile strength			permanent 250N; installation 450N		
Crush resistance			2000N/dm		
Min. Bending radius during installation			40mm		
Temperature range during operation			-5°C à +60°C		
Outer sheath material			LSHF		
Outer sheath colour	Aqua	Yellow	Grey	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
- IEEE 802.3

ACCESSORIES



P/N	DESCRIPTION
GGM PGJ1N	1U Patchcord management plate (black)
GGM PGJ1G	1U Patchcord management plate (grey)
GGM SUPJN	Black patchcord management brackets (set of 2 pces)
GGM SUPJG	Grey patchcord management brackets (set of 2 pces)

The patchcord management plates are compatible with GMT0 series patch panels

PART NUMBER

P/N	DESCRIPTION
GGM D5MCLCxM	Duplex patchcord OM4 Lazer optimized LC/SC
GGM D3MCLCxM	Duplex patchcord OS2 LC/SC
GGM D4MCLCxM	Duplex patchcord OM3 LC/SC
GGM D1MCLCxM	Duplex patchcord OM2 LC/SC
GGM D2MCLCxM	Duplex patchcord OM1 LC/SC
GGM D3MSCALCxM	Duplex patchcord OS2 LC/SCAPC

x denotes the length

