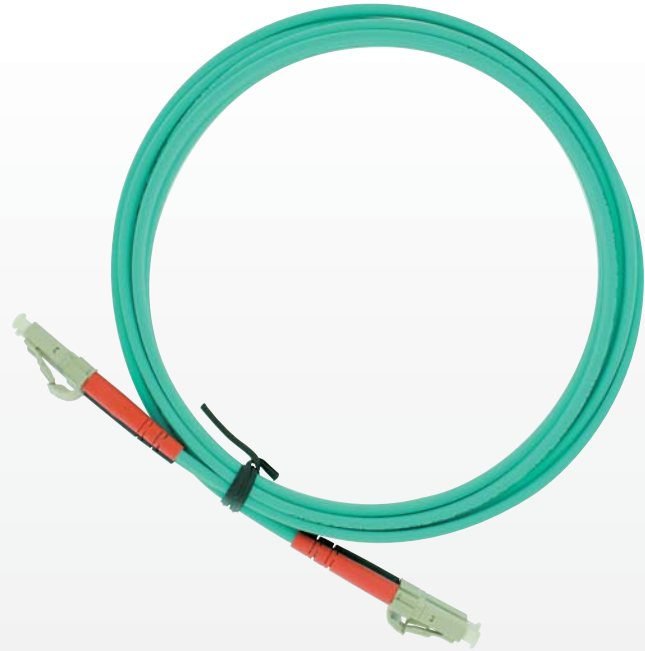


## DUPLEX PATCHCORDS LC/LC



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.

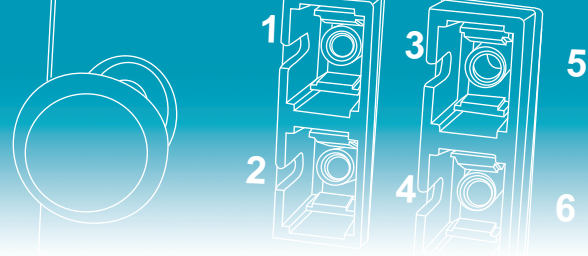
### MECHANICAL PROPERTIES

	OM4	OS2	OM1	OM2	OM3
<b>Connector body</b>	plastic	plastic	plastic	plastic	plastic
<b>Ferule surface</b>	convex	convex	convex	convex	convex
<b>Core Diameter</b>	50 ± 2,5 µm	9.2 ± 0.4µm	62,5 ± 2,5 µm	50 ± 2,5 µm	50 ± 2,5 µm
<b>Cladding diameter</b>	125 ± 2.0 µm	125 ± 1.0µm			
<b>Cladding non-circularity</b>	≤ 1.0%	≤ 1.0%	≤ 1.0%	≤ 1.0%	≤ 1.0%
<b>Core/cladding concentricity error</b>	≤ 1.5 µm	≤ 0.6µm	≤ 6.0µm		
<b>Ferule material</b>	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
<b>Polishing method</b>	PC	UPC	PC	PC	PC

### OPTICAL PROPERTIES

	OM4	OM3	OM2	OM1
<b>Typical loss</b>	≤ 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)
<b>Bandwith (MHz.km)</b>	≥ 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)
<b>Typical insertion loss</b>	≤ 0,15dB	≤ 0,15dB	≤ 0,15dB	≤ 0,15dB
<b>Max. insertion loss</b>	≤ 0,25dB	≤ 0,25dB	≤ 0,25dB	≤ 0,25dB
<b>Typical Return Loss</b>	≥ 35 dB	≥ 35 dB	≥ 35 dB	≥ 35 dB
<b>Mating cycles</b>	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	
Max. Insertion Loss	≤ 0,25dB	
Typical Return Loss	≥ 50dB	
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; 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 G652B
- 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 D5MLCLCxM	Duplex patchcord OM4 Lazer optimized LC/LC
GGM D3MLCLCxM	Duplex patchcord OS2 LC/LC
GGM D4MLCLCxM	Duplex patchcord OM3 LC/LC
GGM D1MLCLCxM	Duplex patchcord OM2 LC/LC
GGM D2MLCLCxM	Duplex patchcord OM1 LC/LC

x denotes the length

