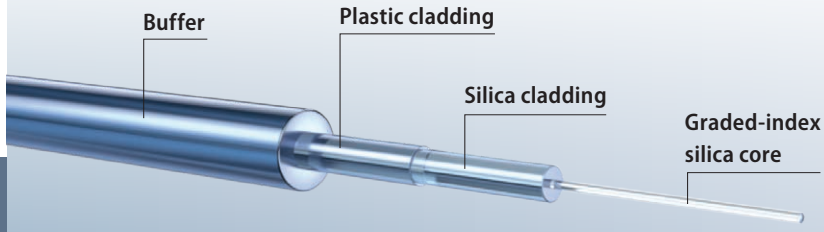
FiberTech® Graded-index polymer clad fiber

GIPC (Graded Index Polymer Clad) fiber series – multimode fiber

with OM1 & OM2 performance



The GIPC fiber series was developed particularly for applications under the demanding environmental conditions of short and medium distance communications.

GIPC50 and GIPC62 meet the requirements concerning robust fiber design while offering the bandwidth performance of a standard telecommunications fiber according to OM2 (GIPC 50) or OM1 (GIPC 62). The 200 µm-form factor enables the fiber to withstand a threefold higher mechanical load compared to a 125 µm diameter standard fiber (30 N instead of 10 N).

Equipped with our special coating, the fiber offers optimum performance characteristics concerning thermal properties. Due to their easily removable 500 µm ETFE buffer material and excellent fiber geometry, GIPC fibers enable quick, cost-efficient and simple handling with crimp-and-cleave assembly.

	GIPC50 – 50/200/230/500	GIPC62 – 62.5/200/230/500
Fiber properties and measurements acc. to IEC 60793-2-10	specific values	
Core material	Ge-doped fused silica	
Core Ø	50 ±2.5 µm	62.5 ±2.5 µm
Core non-circularity	≤ 5 %	
Core-cladding concentricity error	≤ 1.5 µm	
Cladding material	Fused silica	
Jacket Ø	200 ±3 µm	
Cladding non-circularity	≤ 1 %	
Coating material (others on request)	UV-cured acrylate	
Coating Ø (others on request)	232 (+0 /–4) µm	
Core-coating concentricity error	≤ 3 µm	
Buffer material	ETFE	
Buffer Ø	500 ±30 µm	

Optical properties		specific values	
Attenuation	**at 850 nm**	≤ 2.4 dB/km	≤ 3.2 dB/km
	at 1300 nm	≤ 0.8 dB/km	≤ 1.0 dB/km
Bandwidth	**at 850 nm**	> 500 MHz × km	> 200 MHz × km
	at 1300 nm	> 500 MHz × km	> 500 MHz × km
Link length at 1 Gb/s	**850 nm**	> 600 µm	> 350 µm
	1300 nm	> 600 µm	> 550 µm
Numerical aperture		0.200 ±0.015	0.275 ±0.015

* The specified attenuation values apply to undyed fibers

** Bend-induced attenuation at 850 nm and 1300 nm; 100 turns around a mandrel with 75 mm diameter