

For current pricing, please see our website.

CHAPTERS

Fiber Patch Cables

Bare Fiber

Fiber Optomechanics

Fiber Components

Test and Measurement

SECTIONS

SM Fiber

PM Fiber

Doped Fiber

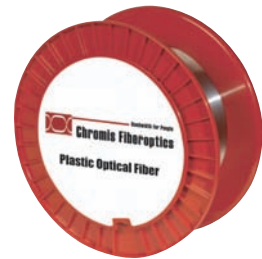
PCF

MM Fiber

Plastic Optical Fiber

## 0.19 NA Graded-Index MM Polymer Optical Fibers

Thorlabs offers a line of graded-index polymer optical fibers (GI-POFs) from Chromis Fiberoptics. These multimode fibers offer low attenuation and low material dispersion, thus allowing for high-speed Gigabit Ethernet and multi-gigabit applications at distances up to 100 meters or fast Ethernet up to 200 meters. These fibers feature the ease of use associated with plastic fibers while providing the low loss, low dispersion, and good transmission characteristics typical of glass fibers at 850 nm and 1300 nm. Please see pages 1063 - 1064 for detailed fiber specifications.



### GIPOF50, Ø50 µm Core, No Jacket, Ø490 µm

PRICE/m	\$	£	€	RMB
1 to 24 m	\$ 1.27	£ 0.92	€ 1.11	¥ 10.13
25 to 99 m	\$ 1.08	£ 0.78	€ 0.94	¥ 8.61
100 to 499 m	\$ 0.89	£ 0.65	€ 0.78	¥ 7.09
500 to 999 m	\$ 0.70	£ 0.51	€ 0.61	¥ 5.57
1000 to 1999 m	\$ 0.64	£ 0.46	€ 0.56	¥ 5.07

### GIPOF50-P, Ø50 µm Core, Jacketed, Ø2.9 mm

PRICE/m	\$	£	€	RMB
1 to 24 m	\$ 1.76	£ 1.27	€ 1.54	¥ 14.03
25 to 99 m	\$ 1.50	£ 1.08	€ 1.31	¥ 11.93
100 to 499 m	\$ 1.23	£ 0.89	€ 1.08	¥ 9.82
500 to 999 m	\$ 0.97	£ 0.70	€ 0.85	¥ 7.72
1000 to 1999 m	\$ 0.88	£ 0.64	€ 0.77	¥ 7.02

### GIPOF62, Ø62.5 µm Core, No Jacket, Ø490 µm

PRICE/m	\$	£	€	RMB
1 to 24 m	\$ 1.49	£ 1.08	€ 1.30	¥ 11.88
25 to 99 m	\$ 1.27	£ 0.92	€ 1.11	¥ 10.10
100 to 499 m	\$ 1.04	£ 0.76	€ 0.91	¥ 8.32
500 to 999 m	\$ 0.82	£ 0.60	€ 0.72	¥ 6.54
1000 to 1999 m	\$ 0.75	£ 0.54	€ 0.65	¥ 5.94

### GIPOF62-P, Ø62.5 µm Core, Jacketed, Ø2.9 mm

PRICE/m	\$	£	€	RMB
1 to 24 m	\$ 1.98	£ 1.43	€ 1.73	¥ 15.79
25 to 99 m	\$ 1.68	£ 1.22	€ 1.47	¥ 13.42
100 to 499 m	\$ 1.39	£ 1.00	€ 1.21	¥ 11.05
500 to 999 m	\$ 1.09	£ 0.79	€ 0.95	¥ 8.68
1000 to 1999 m	\$ 0.99	£ 0.72	€ 0.87	¥ 7.90

### GIPOF120, Ø120 µm Core, No Jacket, Ø490 µm

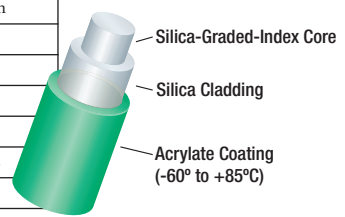
PRICE/m	\$	£	€	RMB
1 to 24 m	\$ 1.84	£ 1.33	€ 1.61	¥ 14.67
25 to 99 m	\$ 1.56	£ 1.13	€ 1.37	¥ 12.47
100 to 499 m	\$ 1.29	£ 0.93	€ 1.13	¥ 10.27
500 to 999 m	\$ 1.01	£ 0.73	€ 0.89	¥ 8.07
1000 to 1999 m	\$ 0.92	£ 0.67	€ 0.81	¥ 7.34

### GIPOF120-P, Ø120 µm Core, Jacketed, Ø2.9 mm

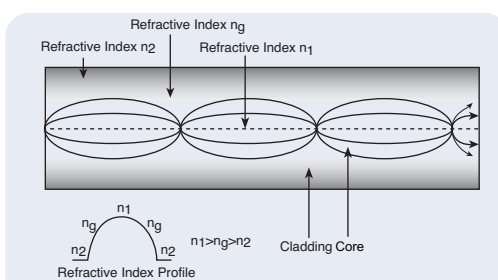
PRICE/m	\$	£	€	RMB
1 to 24 m	\$ 2.32	£ 1.68	€ 2.02	¥ 18.50
25 to 99 m	\$ 1.97	£ 1.42	€ 1.72	¥ 15.72
100 to 499 m	\$ 1.62	£ 1.17	€ 1.42	¥ 12.95
500 to 999 m	\$ 1.28	£ 0.92	€ 1.12	¥ 10.17
1000 to 1999 m	\$ 1.16	£ 0.84	€ 1.01	¥ 9.25

## 0.20 NA Graded-Index MM Fiber, 50 µm Core

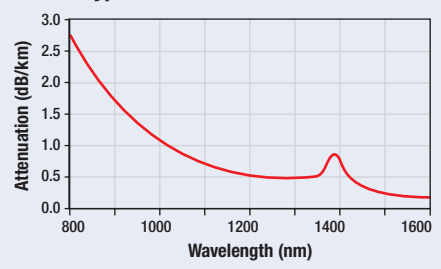
PRODUCT SPECIFICATIONS	
Operating Wavelength	750 - 1450 nm
Numerical Aperture	0.200 ± 0.015
Attenuation	≤2.3 dB/km @ 850 nm 0.6 dB/km @ 1300 nm
Bandwidth*	≥850 MHz-km @ 850 nm
Key Geometric Specifications	
Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125 ± 1 µm
Coating Diameter	245 ± 5 µm
Core-Clad Concentricity	≤1.5 µm
Coating Material	Acrylate
Operating Temperature	-60 to 85 °C
Proof Test	≥100 kpsi



Graded-index multimode fiber provides significantly less bend loss than traditional multimode fibers. The GIF50C graded-index multimode fiber has a Ø50 µm core with a mechanically strippable acrylate coating (245 µm outer diameter). GIF50C supports serial transmission rates of 10 Gb/s over distances of 300 m in the 850 nm window.



Typical Attenuation Plot for GIF50C



\*Laser source (for LED sources at 850 nm, the overfilled bandwidth is ≥1500 MHz-km, while at 1300 nm, the overfilled bandwidth is ≥500 MHz-km).

Popular Compatible Connectors  
(See Pages 1142 - 1143)

SMA	FC/PC
10125A	30128E2

### GIF50C, Ø50 µm Core\*

PRICE/m	\$	£	€	RMB
1 to 9 m	\$ 2.45	£ 1.77	€ 2.14	¥ 19.53
10 to 49 m	\$ 1.47	£ 1.06	€ 1.28	¥ 11.72
50 to 249 m	\$ 0.74	£ 0.53	€ 0.64	¥ 5.86

\*Suggested Stripping Tool: T08S13 (See Page 1154)

NEW version