

▼ CHAPTERS

Fiber Patch Cables

Bare Fiber

Fiber Optomechanics

Fiber Components

Test and Measurement

▼ SECTIONS

SM Fiber

PM Fiber

Doped Fiber

PCF

MM Fiber

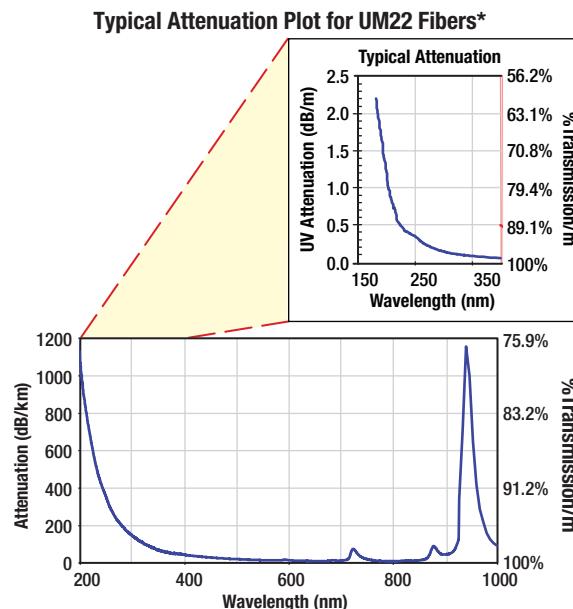
Plastic Optical Fiber

0.22 NA Step-Index MM Fibers, Solarization-Resistant**NEW**
products

- Broad UV to NIR Spectral Range: 180 – 1150 nm
- Pure Silica Core, Doped-Silica Cladding, Polyimide Buffer
- Can be used at Temperatures up to 300 °C

Our 0.22 NA solarization-resistant, multimode fiber exhibits impressive performance and transmission from the UV to the NIR (180 to 1150 nm). With exceptional UV radiation resistance compared to standard fibers, these multimode fibers are ideal for use in applications such as spectroscopy for pollution analysis and chemical processing, UV photolithography, and medical diagnostics. The polyimide buffer allows this fiber to be used at temperatures up to 300 °C.

Because of the polyimide buffer, it is not possible to mechanically strip these fibers. Please contact tech support for assistance.



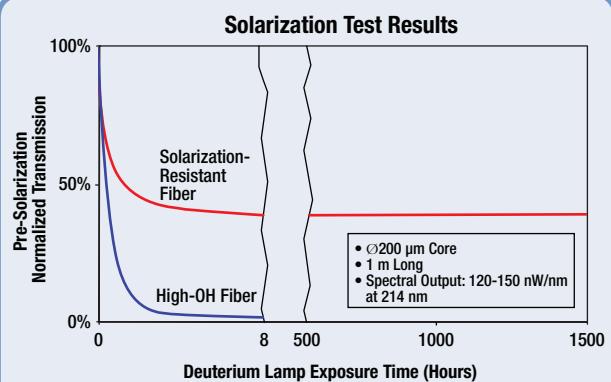
*Attenuation was measured using new fiber. If your application is in the UV spectral region see the Solarization Test Results to the right for information on the long-term transmission performance of the fiber.

Solarization-Resistant Patch Cables

See page XXX

Popular Compatible Connectors (See Pages XXX - XXX)

FIBER CLAD DIAMETER	SMA	FC/PC
110 µm	10125A	30128E2
220 µm	10230A	30126G2-230
330 µm	10340A	30126G2-340
440 µm	10450A	30126G2-450
660 µm	10670A	30126G2-670



In this plot the transmission through a standard High-OH MM fiber and a UM22-200 fiber are normalized to 100% at the beginning of the test. The output of a Deuterium lamp is coupled into both fibers and transmitted intensity is measured as a function of time. As the plot indicates, UM22 fibers are resistant to solarization and thus maintain a much higher level of transmission after prolonged exposure to UV light. Please note that any transmission loss due to solarization of the fiber is permanent.

UV to NIR, Solarization-Resistant, Multimode Fibers

ITEM #	CORE DIAMETER	CLADDING DIAMETER	COATING DIAMETER	NUMERICAL APERTURE	PROOF TEST	BEND RADIUS SHORT TERM/LONG TERM			
						1-9 m	10-49 m	50-249 m	1-9 m
UM22-100	100 ± 3 µm	110 ± 3 µm	124 ± 3 µm	0.22 ± 0.02	>100 kpsi				11 mm / 33 mm
UM22-200	200 ± 4 µm	220 ± 4 µm	239 ± 5 µm	0.22 ± 0.02	>100 kpsi				22 mm / 66 mm
UM22-300	300 ± 6 µm	330 ± 7 µm	370 ± 10 µm	0.22 ± 0.02	>100 kpsi				33 mm / 99 mm
UM22-400	400 ± 8 µm	440 ± 9 µm	480 ± 7 µm	0.22 ± 0.02	>100 kpsi				44 mm / 132 mm
UM22-600	600 ± 10 µm	660 ± 10 µm	710 ± 10 µm	0.22 ± 0.02	>100 kpsi				66 mm / 167 mm

ITEM #*	\$** 1-9 m	\$** 10-49 m	\$** 50-249 m	£** 1-9 m	£** 10-49 m	£** 50-249 m	€** 1-9 m	€** 10-49 m	€** 50-249 m	RMB** 1-9 m	RMB** 10-49 m	RMB** 50-249 m
UM22-100	\$ 12.20	\$ 10.37	\$ 8.54	£ 8.79	£ 7.47	£ 6.15	€ 10,62	€ 9,03	€ 7,43	¥ 97.24	¥ 82.65	¥ 68.07
UM22-200	\$ 13.40	\$ 11.39	\$ 9.38	£ 9.65	£ 8.21	£ 6.76	€ 11,66	€ 9,91	€ 8,17	¥ 106.80	¥ 90.78	¥ 74.76
UM22-300	\$ 24.00	\$ 20.40	\$ 16.80	£ 17.28	£ 14.69	£ 12.10	€ 20,88	€ 17,75	€ 14,62	¥ 191.28	¥ 162.59	¥ 133.90
UM22-400	\$ 39.80	\$ 33.83	\$ 27.86	£ 28.66	£ 24.36	£ 20.06	€ 34,63	€ 29,44	€ 24,24	¥ 317.21	¥ 269.63	¥ 222.05
UM22-600	\$ 71.00	\$ 60.35	\$ 49.70	£ 51.12	£ 43.46	£ 35.79	€ 61,77	€ 52,51	€ 43,24	¥ 565.87	¥ 480.99	¥ 396.11

*Call for Quantities Over 250 m

**Prices are given per meter