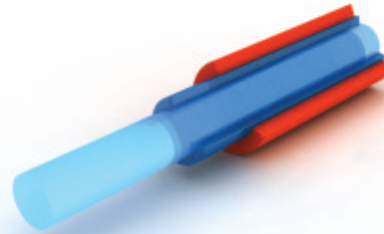
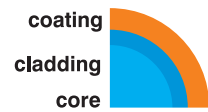


GRADED-INDEX FIBERS

Features

- Standard communication fibers for 850 nm and 1300 nm
- Low loss, high bandwidth
- Laser power transmission fibers up to 600 μm core diameter
- Better beam profile than step index fibers
- Specialty coatings for high temperatures, high vacuum and harsh chemicals environments
- Radiation resistant type



Fiber-Design

- Communication fibers:
 - Doped fused silica core (graded-index)
 - Pure fused silica cladding
 - Dual layer Acrylate coating (-40°C to 85°C)
- Power transmission fibers:
 - Doped fused silica core (graded-index)
 - Pure fused silica cladding
 - Acrylate coating (-40°C to 85°C)
 - Silicone resin coating (-40°C to 150°C)
 - Polyimide coating (-190°C to 385°C)

Properties

- Proof test level (Screen test): 50 kpsi (Communication fibers)
- Proof test level (Bend method): 70 kpsi (Fiber diameter > 200 μm)
- Bend radius: momentary 100 times the fiber radius long term 600 times the fiber radius

Options

- Core/clad ratios 1.4 ... 2,5
- Metal coating
- Buffer:
 - Nylon (-40°C to 100°C)
 - ETFE (-200°C to 150°C)
- Connectors (DIN, FC/PC, ST, SMA)
- Graded-index fiber cables
- high temperatur acrylate (-40°C to 200°C)

GRADED-INDEX FIBERS

ACRYLATE COATED FIBERS		Product code	Core (μm) $\pm 2\%$	Cladding (μm) $\pm 2\%$	Coating (μm) $\pm 5\%$	Coating Material	NA ± 0.015
(-40°C to 85°C)		G 100/140 A	100	140	200	Acrylate	0.290
		G 200/280 A	200	280	450	Acrylate	0.290
		G 400/560 A	400	560	700	Acrylate	0.290
		G 600/840 A	600	840	1000	Acrylate	0.290

POLYIMIDE COATED FIBERS		Product code	Core (μm) $\pm 3\mu\text{m}$	Cladding (μm) ± 3	Coating (μm) $\pm 3\mu\text{m}$	NA ± 0.015	Attenuation 850/1300 nm (dB/km)	Bandwidth 850/1300 nm (MHz*km)
(-190°C to 385°C)		G 50/125 PI	50	125	140	0.200	<2.8/0.9	>400/1200
		G 62.5/125 PI	62.5	125	140	0.275	<3.3/1.0	>200/600
		G 85/125 PI	85	125	140	0.260	<3.3/1.0	>200/200
		G 100/140 PI	100	140	155	0.290	<4.0/1.5	>200/200
		G 200/280 PI	200	280	300	0.290		
		G 400/560 PI	400	560	580	0.290		

COMMUNICATION FIBERS		Product code	Core (μm) $\pm 3\mu\text{m}$	Cladding (μm) ± 3	Coating (μm) $\pm 3\mu\text{m}$	NA ± 0.015	Attenuation 850/1300 nm	Bandwidth 850/1300 nm (MHz*km)
(-190°C to 385°C)		G 50/125	50	125	250	0.200	<2.5/0.6	>400/1200
		G 62.5/125	62.5	125	250	0.275	<3.0/0.7	>200/600
		G 85/125	85	125	250	0.260	<3.0/0.7	>200/200
		G 100/140	100	140	250	0.290	<3.5/1.0	>200/200

Other specifications upon request.