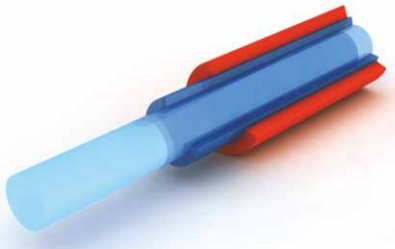
GRADED-INDEX FIBERS

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 (Communiction 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)

fiberware

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ACRYLATE COATED FIBERS (-40°C to 85°C)	Product code	Core (µm) ± 2 %	Cladding(µm) ±2%	Coating (µm) ± 5 %	Coating Material	NA ± 0.015
	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 (-190°C to 385°C)	Product code	Core (µm) ± 3 µm	Cladding (µm) ± 3	Coating (µm) ± 3 µm	NA ± 0.015	Attenuation 850/ 1300 nm (dB/km)	Bandwidth 850/ 1300 nm (MHz*km)
	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 (-190°C to 385°C)	Product code	Core (µm) ± 3 µm	Cladding (µm) ± 3	Coating (µm) ± 3 µm	NA ± 0.015	Attenuation 850/1300 nm	Bandwidth 850/ 1300 nm (MHz*km)
	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.

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