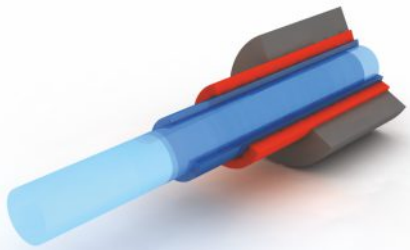
AS ... UV / VIS QUARTZ / QUARTZ FIBERS

All Silica ... UltraViolet

FEATURES

· Higher transmission than PCS-Fibers between 180 nm and 300 nm
· High core to clad ratio availale for high efficiency bundles
· Specialty coatings available for high temperatures, high vacuum and harsh chemicals environments
· Biocompatible materials
· Sterilizable by ETO, steam, e-beam, gamma radiation
· Radiation resistant
· Laser damage resistant



FIBER-DESIGN

· Pure fused silica core (high OH-)
· Fluorine doped fused silica cladding
· Acrylate coating (-40°C to 85°C)
· Silicone resin coating (-40°C to 180°C)
· Polyimide coating (-190°C to 385°C)

Properties

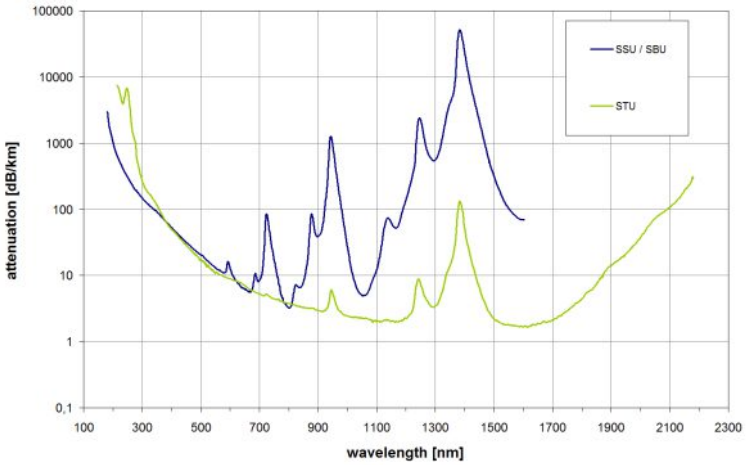
· Core/clad ratio: 1.1
· Numerical aperture: 0.22 ± 0.02
· Operation wavelength range: 180 nm to 1100 nm
· Proof test level (bend method): 70 kpsi
· Bend radius: momentary 100 times the fiber radius long term 600 times the fiber radius
· Laser damage threshold: > 50 mJ/mm2 (XeCl, 25 ns pulse at 248 nm)
  >150 mJ/mm2 (XeCl, 30 ns pulse at 308 nm)
· Radiation induced attenuation: < 10 dB/km at dose values above 1 Mrad

Buffer

· Nylon (-40°C to 100°C)
· ETFE (-200°C to 150°C)
· Acrylate (-40°C to 85°C)
· Polyimide (-190°C to 385°C)

Optional

· Core/clad ratios 1.05, 1.07, 1.15, 1.20, 1.30, 1.40
· Numerical apertures 0.07 to 0.28
· Metal coating
· Fiber bundles
· Tapered fibers
· Connectors (SMA, FC/PC, ST, DIN)
· AS-Fiber cables



fiberware

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NYLON BUFFERED FIBERS

(-40°C to 85°C)

NOTE
For silicone coating replace A with S in product code.

Product code	Core (µm) ± 2%	Cladding(µm)±2%	Coating (µm) ± 5%	Coating Material	Buffer (µm) ± 5%
AS 100/110 UVAN	100	110	180	Acrylate	300
AS 200/220 UVAN	200	220	350	Acrylate	500
AS 300/330 UVAN	300	330	500	Acrylate	700
AS 400/440 UVAN	400	440	550	Acrylate	700
AS 600/660 UVAN	600	660	800	Acrylate	1000
AS 800/880 UVAN	800	880	1000	Acrylate	1200
AS 1000/1100 UVAN	1000	1100	1250	Acrylate	1500
AS 1500/1650 UVAN	1500	1650	1800	Acrylate	2000

ETFE BUFFERED FIBERS

(-40°C to 150°C)

NOTE
For acrylate coating replace S with A in product code.

Product code	Core (µm) ± 2%	Cladding(µm)±2%	Coating (µm) ± 5%	Coating Material	Buffer (µm) ± 5%
AS 100/110 UVSE	100	110	180	Silicone	300
AS 200/220 UVSE	200	220	350	Silicone	500
AS 300/330 UVSE	300	330	500	Silicone	700
AS 400/440 UVSE	400	440	550	Silicone	700
AS 600/660 UVSE	600	660	800	Silicone	1000
AS 800/880 UVSE	800	880	1000	Silicone	1200
AS 1000/1100 UVSE	1000	1100	1250	Silicone	1500
AS 2000/2100 UVSE	2000	2100	2800	Silicone	4000

POLYIMIDE COATED FIBERS

(-190°C to 385°C)

Product code	Core (µm) ± 2%	Cladding (µm) ± 2%	Coating (µm) ± 3%
AS 100/110 UVPI	100	110	120
AS 200/220 UVPI	200	220	235
AS 300/330 UVPI	300	330	345
AS 400/440 UVPI	400	440	460
AS 600/660 UVPI	600	660	680

BUNDLES FIBER SPECIFICATIONS

Product code	Core (µm) ± 2%	Cladding (µm) ± 2%	Coating (µm) ± 3%	Coating Material
AS 27/30 UVVV	27	30		Wet coating
AS 46/50 UVPI	46	50	58	Polyimide
AS 46/50 UVVV	46	50		Wet coating
AS 64/70 UVPI	64	70	78	Polyimide
AS 64/70 UVVV	64	70		Wet coating
AS 100/110 UVPI	100	110	120	Polyimide
AS 100/110 UVVV	100	110		Wet coating
AS 200/220 UVPI	200	220	235	Polyimide

Other specifications upon request.

Low Attenuation

α (λ = 313nm) = 99dB/km
α (λ = 400nm) = 36dB/km
α (λ = 660nm) = 5,4dB/km

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