AS ... IR FIBERS

Features

- · Higher transmission than PCS-Fibers between 1500 nm and 2600 nm
- · Broad useful spectral transmission range
- \cdot Specialty coatings available for high temperatures, high vacuum and harsh chemicals environments
- · Biocompatible materials
- · Sterilizaable by ETO, steam, e-beam, gamma radiation
- · Radiation resistant
- · Laser damage resistant

Fiber-Design

- · Pure fused silica core (low 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, 1.2, 1.4
Numerical aperture: 0.22 ± 0.02
Operation wavelength range: 350 nm to 2600 nm

· Proof test level (bend method): 70 kpsi

 \cdot Bend radius: momentary 100 times the fiber radius long term

600 times the fiber radius

· Laser damage threshold: > 5 J/mm2 (Nd:YAG, 1ms pulse at 1060 nm)

>1.3 kW/mm2 (Nd:YAG, cw at 1060 nm)

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)

Options

- · Core/clad ratios 1.15,1.30, 1,4 ... 2,5
- · Numerical apertures 0.07 to 0.28
- · Metal coating
- · Fiber bundles
- · Tapered fibers
- · Connectors (SMA, FC/PC, ST, DIN)
- · AS-Fiber cables
- · high temperatur acrylate -40°C to 200°C



buffer





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	NYLON BUFFERED FIBERS	Product code	Core (µm) ± 2%	Cladding(µm)±2%	% Buffer (μm) ± 5%	Buffer Material	Jacket (µm) ±5%
	(-40°C to 85°C)	AS 100/140 IRAN	100	140	200	Acrylate	500
ı		AS 200/220 IRAN	200	220	350	Acrylate	500
	NOTE	AS 200/280 IRAN	200	280	500	Acrylate	700
	For silicone buffer	AS 300/330 IRAN	300	330	500	Acrylate	700
	replace A with S in	AS 400/440 IRAN	400	440	550	Acrylate	700
	product code.	AS 600/660 IRAN	600	660	800	Acrylate	1000
		AS 800/880 IRAN	800	880	1000	Acrylate	1200
		AS 1000/1100 IRAN	1000	1100	1250	Acrylate	1500
		AS 1500/1650 IRAN	1500	1650	1800	Acrylate	2000
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	ETFE BUFFERED FIBERS	Product code	Core (µm) ± 2%	Cladding(µm)±2%	% Buffer(μm) ± 5%	Buffer Material	I Jacket (μm) ±5%
	(-40°C to 150°C)	AS 100/140 IRSE	100	110	180	silicone	300
		AS 200/220 IRSE	200	220	350	silicone	500
	NOTE	AS 200/280 IRSE	200	280	500	silicone	700
	For acrylate buffer	AS 300/330 IRSE	300	330	500	silicone	700
	replace S with A in	AS 400/440 IRSE	400	440	550	silicone	700
	product code.	AS 600/660 IRSE	600	660	800	silicone	1000
		AS 800/880 IRSE	800	880	1000	silicone	1200
		AS 1000/1100 IRSE	1000	1100	1250	silicone	1500
		AS 2000/2100 IRSE	2000	2100	2800	silicone	4000
	POLYIMIDE COATED FIBERS	Product code	Core (μm) ± 2%	Cladding (µm)	± 2% Jacket (µm)	1) + 3%	
	(-190°C to 385°C)				· · · · · · · · · · · · · · · · · · ·) ± 576	
	(133 5 15 555 5)	AS 100/140 IRPI	100	140	155		
		AS 200/220 IRPI	200	220	235		
		AS 200/280 IRPI	200	280	295		
		AS 300/330 IRPI	300	330	345		
		AS 400/440 IRPI	400	440	460		
		AS 600/660 IRPI	600	660	680		
	BUNDLES FIBER SPECIFICATION	NC Product code	Core (µm) ± 2%	Cladding(um)+2%	Coating (μ m) ± 3%	Coating Material	Wavelength Rng nm
	SUNDERS FIBER SPECIFICATION						
		AS 50/70 IRVV				Wet coating	350 to 2600
		AS 50/70 IRPI	50	70		Polyimide	350 to 2600
		AS 58/70 IRVV		70 7		Wet coating	350 to 1500
		AS 58/70 IRPI	58	70		Polyimide	350 to 1500
		AS 100/110 IRVV	100	110 1	120	Wet coating	350 to 1500
		AS 100/110 IRPI	100	110		Polyimide	350 to 1500
		AS 100/120 IRVV	100	120 1	120	Wet coating	350 to 2600
		AS 100/120 IRPI	100	120 1	160	Polyimide	350 to 2600
		AS 125/150 IRPI	125	150 1	180	Polyimide	350 to 2600

OTHER SPECIFICATIONS UPON REQUEST.

165

220

235

Polyimide

Polyimide

350 to 1800

350 to 2600

Fibers are delivered on spools, without CE marking.

150

200

AS 150/165 IRPI

AS 200/220 IRPI