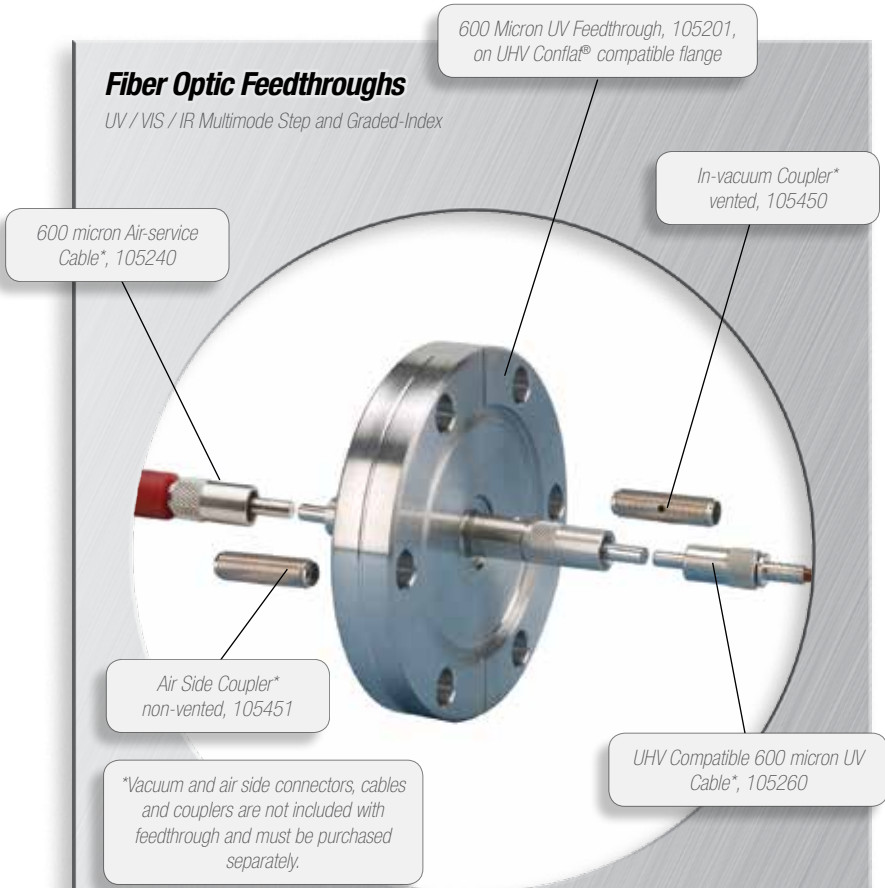




Fiber Optic Feedthroughs

UV / VIS / IR Multimode Step and Graded-Index



Fiber Optic Feedthroughs

Accu-Glass offers fiber optic feedthroughs with 62.5, 100, 200, 400, 600, and 1000 micron core diameters. These feedthroughs are ideally suited for industrial and/or scientific research applications requiring air-to-vacuum fiber optic transitions/connections. Multimode fibers (both Step and Graded Index types) are hermetically sealed into a stainless steel shell, using the latest in glass-ceramic-metal bonding technology. Standard fiber optic feedthroughs are terminated with premium SMA 905 connectors on both vacuum and air sides. FC and ST connections are also available.

Polyimide buffered optical fiber cable assemblies are offered to meet the rigorous demands of ultrahigh vacuum environments. These optical fibers are of a core-and-cladding composite construction. The core, or the filament that guides the light, consists of a thin strand of high-transmission fused silica. The cladding is an outer layer of doped, lower refractive-index fused silica. This dual-layer design tightly confines light to the fiber's central core, thus delivering the maximum amount of light possible at the fiber's destination. Fiber diameters are closely controlled during the drawing process, allowing fibers to center well in connectors and boast low loss rates.

Graded-index multimode fiber bridges the gap between singlemode and step-index multimode fibers, giving up some bandwidth for ease of termination and light launch. It's more economical than singlemode fiber, and primarily used for data communication (not as useful for power transmission) applications requiring medium run distances (2 to 15 km lengths).

Features

- UHV compatible construction
- 100, 200, 400, 600, and 1000µm UV, VIS and NIR Step Index fibers
- 62.5µm Graded Index fiber
- SMA 905 premium connector interface
- High temperature rated to 250°C
- Conflat® and ISO KF compatible mounts
- Polyimide buffered vacuum rated optical cables

Specifications

Material

304 Stainless Steel, Glass and Quartz

Vacuum Range

UHV, Ultrahigh vacuum	1x10 ⁻¹⁰ Torr
HV, High vacuum	1x10 ⁻⁸ Torr

Temperature Range ¹

Feedthrough	-200° to 250°C
Flange Mount, Conflat®	-200° to 450°C
Flange Mount, ISO	150°C
Thermal Gradient	25°C / Minute Maximum

Multimode Optical Fiber ²

Step Index Fiber, 100-1000µm UV/VIS or High-OH	
Operating Wavelength	200-800nm
Step Index Fiber, 100-1000µm VIS/IR or Ultra Low-OH	
Operating Wavelength	400-2200nm

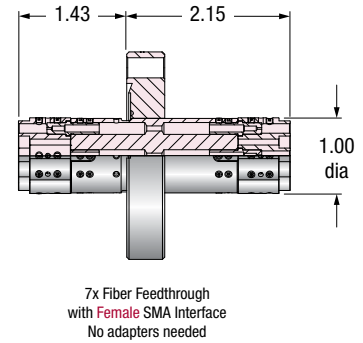
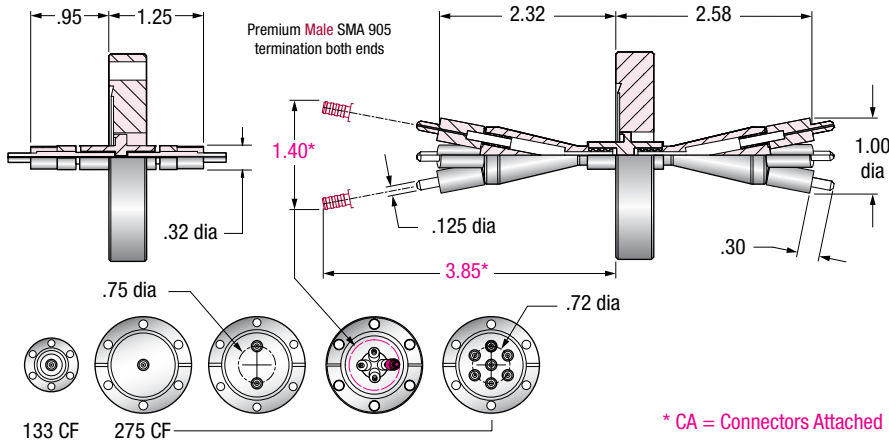
Numerical Aperture	0.22 ± 0.02 or 24.8°
Core / Cladding Ratio ³	1:1.1
Power	<1 W
Bend Radius ⁴ , Momentary / Long Term	200x / 400x
Insertion loss ⁵ , Interconnect	-0.8dB to -2.0dB

Graded-Index Fiber, 62.5µm Core / 125µm Clad

Operating Wavelength ⁶	850 and 1300nm
Numerical aperture	0.27 ± 0.02
Bend Radius ⁴ , Momentary / Long Term	400x / 800x
Attenuation at 850 / 1300nm	≤ 3.0dB / 0.8dB

Notes

1. Overall assembly ratings must be adjusted to that of its lowest rated component. For cryogenic service, the lowest recommended temperature is -80°C
 2. Bare fiber has a pure fused-silica core, fluorine-doped silica cladding, and polyimide buffer.
 3. Where core diameter is ≥ 200 µm
 4. xCore diameter
 5. Dependant on wavelength and fiber size.
 6. Optimized for these two specific wavelengths.
- § Unless specified otherwise, dimensional units in all sections of this catalog are expressed in inches.



CF Flange¹ — Step-Index Multimode Fiber / 450°C / UHV to 1x10⁻¹⁰ Torr

Fiber Size µm	Number Fibers	Flange OD	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
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UHV Feedthroughs²

UV / Ultraviolet 200-800nm

IR / Infrared 400-2200nm

100	1	1.33	F01UV-133	112424	665	F01IR-133	112553	665
	1	2.75	F01UV-275	112425	680	F01IR-275	112554	680
	2	2.75	F01UV-2-275	112426	1205	F01IR-2-275	112555	1205
	4	2.75	F01UV-4-275	112598	2200	F01IR-4-275	112606	2200
	7	2.75	F01UV-7-275	112814	3200	F01IR-7-275	112819	3200
200	1	1.33	F02UV-133	105000	455	F02IR-133	105020	455
	1	2.75	F02UV-275	105001	472	F02IR-275	105021	472
	2	2.75	F02UV-2-275	112300	830	F02IR-2-275	112308	830
	4	2.75	F02UV-4-275	112599	1950	F02IR-4-275	112607	1950
	7	2.75	F02UV-7-275	112815	2950	F02IR-7-275	112820	2950
400	1	1.33	F04UV-133	105100	460	F04IR-133	105120	460
	1	2.75	F04UV-275	105101	475	F04IR-275	105121	475
	2	2.75	F04UV-2-275	112301	835	F04IR-2-275	112309	835
	4	2.75	F04UV-4-275	112600	1850	F04IR-4-275	112608	1850
	7	2.75	F04UV-7-275	112816	2850	F04IR-7-275	112821	2850
600	1	1.33	F06UV-133	105200	465	F06IR-133	105220	465
	1	2.75	F06UV-275	105201	480	F06IR-275	105221	480
	2	2.75	F06UV-2-275	112302	840	F06IR-2-275	112310	840
	4	2.75	F06UV-4-275	112601	1750	F06IR-4-275	112609	1750
	7	2.75	F06UV-7-275	112817	2750	F06IR-7-275	112822	2750
1000	1	1.33	F010UV-133	105300	510	F010IR-133	105320	510
	1	2.75	F010UV-275	105301	525	F010IR-275	105321	525
	2	2.75	F010UV-2-275	112303	920	F010IR-2-275	112311	920
	7	2.75	F010UV-7-275	112818	2650	F010IR-7-275	112823	2650

Graded Index — Optimized for 850, and 1300nm Wavelengths

62.5	1	1.33		F0625-133	112340	555
	1	2.75		F0625-275	112341	565
	2	2.75		F0625-2-275	112342	995

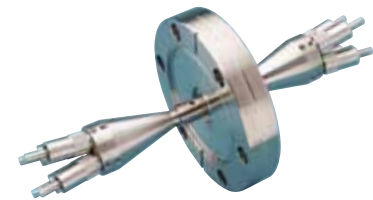
1. Compatible with Conflat® flanges and hardware. 2. See page 131 for attenuation curves



105000 / 1.33 CF Flange
1 x Feedthrough (Vacuum Side)



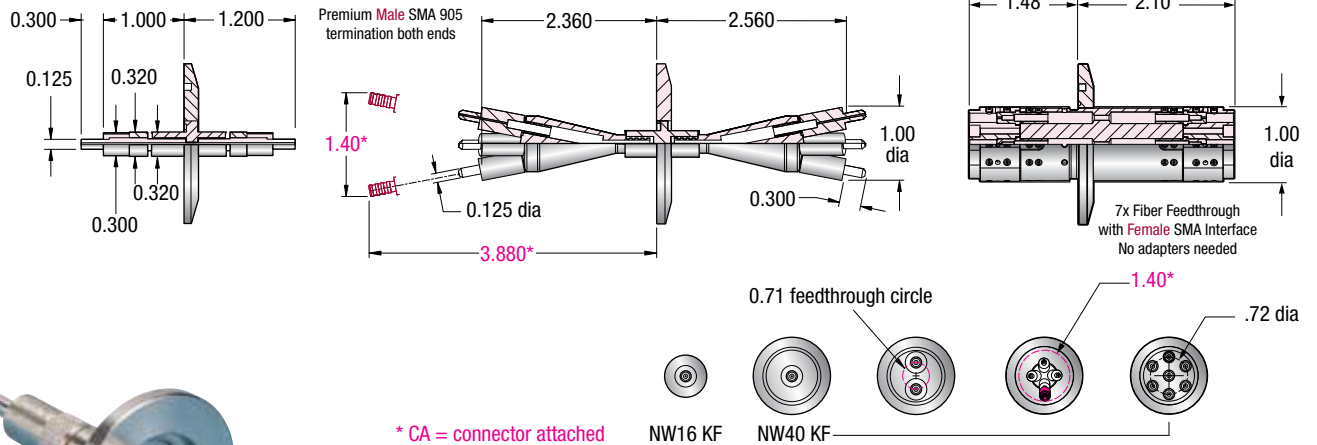
112301 / 2.75 CF Flange
2 x Feedthrough (Vacuum Side)



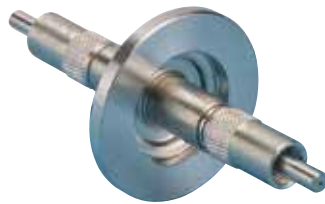
112598 / 2.75 CF Flange
4 x 1 Feedthrough (Vacuum Side)



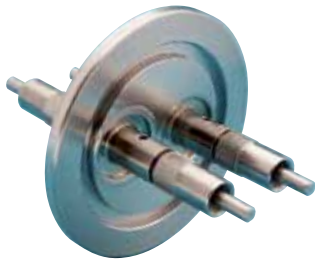
112814 / 2.75 CF Flange
7 x 1 Feedthrough (Vacuum Side)



* CA = connector attached



105210 / HV ISO KF Flange
1 x Feedthrough (Vacuum Side)



112304 / HV ISO KF Flange
2 x Feedthrough (Vacuum Side)



112602 / HV ISO KF Flange
4 x 1 Feedthrough
(Vacuum Side)



112804 / HV ISO KF Flange
7 x 1 Feedthrough
(Vacuum Side)

ISO KF Flange¹ — Step-Index Multimode Fiber / 150°C / HV to 1x10⁻⁸ Torr

Fiber Size µm	Number Fibers	Flange OD	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
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HV Feedthrough²

UV / Ultraviolet 200-800nm

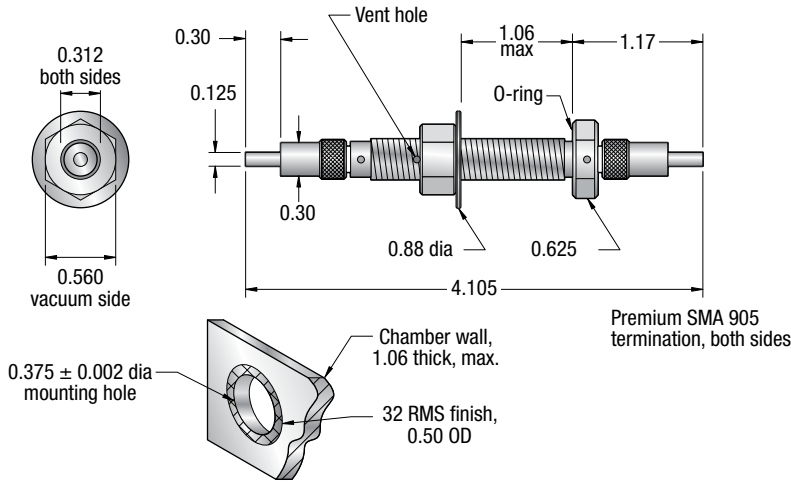
IR / Infrared 400-2200nm

100	1	1.18	F01UV-K16	112427	670	F01IR-K16	112556	670
	1	2.16	F01UV-K40	112428	680	F01IR-K40	112557	680
	2	2.16	F01UV-2-K40	112429	1215	F01IR-2-K40	112558	1215
	4	2.16	F01UV-4-K40	112602	2200	F01IR-4-K40	112610	2200
	7	2.16	F01UV-7-K40	112804	3200	F01IR-7-K40	112808	3200
200	1	1.18	F02UV-K16	105010	450	F02IR-K16	105030	450
	1	2.16	F02UV-K40	105011	470	F02IR-K40	105031	470
	2	2.16	F02UV-2-K40	112304	825	F02IR-2-K40	112312	825
	4	2.16	F02UV-4-K40	112603	1950	F02IR-4-K40	112611	1950
	7	2.16	F02UV-7-K40	112805	2950	F02IR-7-K40	112809	2950
400	1	1.18	F04UV-K16	105110	455	F04IR-K16	105130	455
	1	2.16	F04UV-K40	105111	475	F04IR-K40	105131	475
	2	2.16	F04UV-2-K40	112305	830	F04IR-2-K40	112313	830
	4	2.16	F04UV-4-K40	112604	1850	F04IR-4-K40	112612	1850
	7	2.16	F04UV-7-K40	112806	2580	F04IR-7-K40	112810	2850
600	1	1.18	F06UV-K16	105210	465	F06IR-K16	105230	465
	1	2.16	F06UV-K40	105211	485	F06IR-K40	105231	485
	2	2.16	F06UV-2-K40	112306	840	F06IR-2-K40	112314	840
	4	2.16	F06UV-4-K40	112605	1750	F06IR-4-K40	112613	1750
	7	2.16	F06UV-7-K40	112807	2750	F06IR-7-K40	112811	2750
1000	1	1.18	F010UV-K16	105310	505	F010IR-K16	105330	525
	1	2.16	F010UV-K40	105311	520	F010IR-K40	105331	520
	2	2.16	F010UV-2-K40	112307	915	F010IR-2-K40	112315	915
	7	2.16	F010UV-7-K40	112813	2650	F010IR-7-K40	112812	2650

Graded Index — Fiber is Optimized for 850 and 1300nm Wavelengths

62.5	1	1.18		F0625-K16	112343	545
	1	2.16		F0625-K40	112344	560
	2	2.16		F0625-2-K40	112345	990

1. Compatible with ISO 2861/1 specification flanges and hardware 2. See page 131 for attenuation curves



105410 / HV Bolt Feedthrough

Bolt Style Mount — Step-Index Multimode Fiber / 150°C / HV to 1x10⁻⁸ Torr

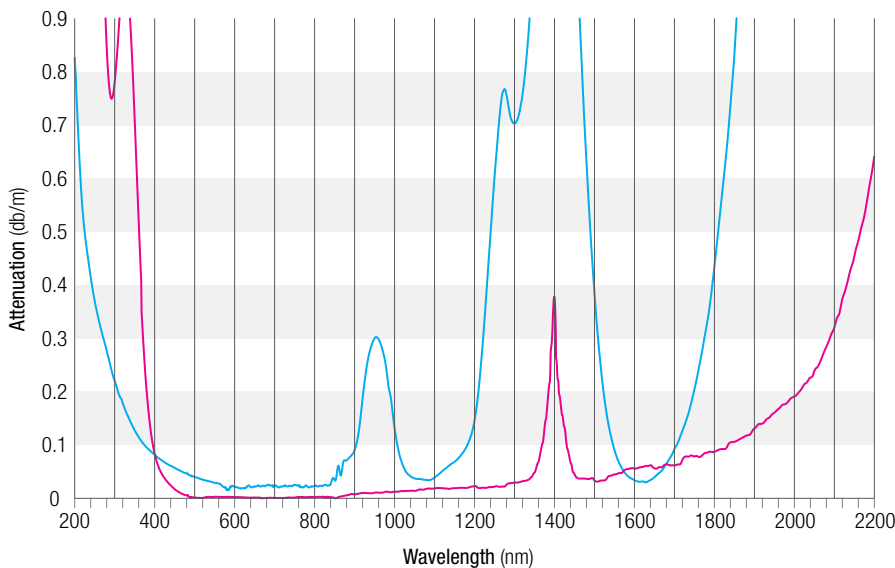
Fiber Size µm	Number Fibers	Thread Size	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
HV Feedthrough			UV / Ultraviolet 200-800nm			IR / Infrared 400-2200nm		
100	1	3/8-24	BOLT-1UV-3/8	112431	425	BOLT-1IR-3/8	112559	425
200	1	3/8-24	BOLT-2UV-3/8	105400	345	BOLT-2IR-3/8	105401	345
400	1	3/8-24	BOLT-4UV-3/8	105410	345	BOLT-4IR-3/8	105411	345
600	1	3/8-24	BOLT-6UV-3/8	105420	345	BOLT-6IR-3/8	105421	345
1000	1	3/8-24	BOLT-10UV-3/8	105430	345	BOLT-10IR-3/8	105431	345
Graded Index — Fiber is Optimized for 850 and 1300nm Wavelengths								
62.5	1	3/8-24				BOLT-F0625-3/8	112346	445

200-800nm UV / VIS or High-OH Fiber

For UV/VIS applications only. Use ≤ 15 meter lengths to avoid high attenuation.

400-2200nm VIS/NIR or Ultra Low-OH Fiber

For extremely long length VIS/NIR applications. Lowest possible light attenuation.

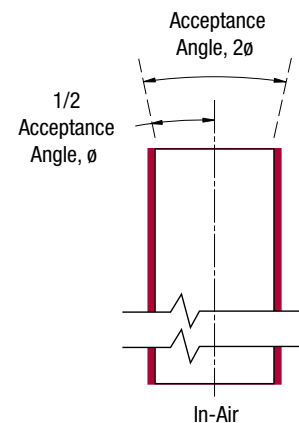


Optical Fiber Numerical Aperture

Numerical aperture is a relative measurement of how much light a fiber can gather. Numerical aperture is expressed as a result of Snell's law:

$$NA = (N_1^2 - N_2^2)^{1/2} = N \sin \theta_{max}$$

All Accu-Glass multimode fibers have a numerical aperture of 0.22, which equals a whole acceptance angle of 24.8°.





UV/VIS Multimode Fiber Optic UHV Cable Assemblies

Connector to Connector UHV fiber optic cable assemblies are fitted with premium SMA 905 connectors on both ends of a **“non-jacketed”** fiber optic fiber. NA = 0.22, Step-Index.

Connector to Cable UHV fiber optic cable assemblies are fitted with a premium SMA 905 connector on one end and a bare polished fiber on the other. NA = 0.22, Step-Index.

Note: In-Vacuum cables require a coupler to mate with corresponding feedthroughs.

Cable Assemblies — Step Index Multimode Fiber / – 65 to 200°C / UHV to 1x10⁻¹⁰ Torr

Fiber Size μm	Length	Buffer	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
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Connector to Connector

UV / Ultraviolet 200-800nm

IR / Infrared 400-2200nm

100 ¹	19	P	UVV1-19SMA2	112548	173	IRV1-19SMA2	112560	173
	39	P	UVV1-39SMA2	112549	199	IRV1-39SMA2	112561	199
200 ²	19	P	UVV2-19SMA2	105060	160	IRV2-19SMA2	105070	160
	39	P	UVV2-39SMA2	105061	175	IRV2-39SMA2	105071	175
400	19	P	UVV4-19SMA2	105160	165	IRV4-19SMA2	105170	165
	39	P	UVV4-39SMA2	105161	180	IRV4-39SMA2	105171	180
600	19	P	UVV6-19SMA2	105260	180	IRV6-19SMA2	105270	180
	39	P	UVV6-39SMA2	105261	210	IRV6-39SMA2	105271	210
1000	19	A	UVV10-19SMA2	105360	305	IRV10-19SMA2	105370	305
	39	A	UVV10-39SMA2	105361	410	IRV10-39SMA2	105371	410

Graded Index — Optimized for 850 and 1300nm Wavelengths

62.5	19	P				FOV625-19SMA2	112347	235
	39	P				FOV625-39SMA2	112348	260

Connector to Cable

UV / Ultraviolet 200-800nm

IR / Infrared 400-2200nm

100 ¹	19	P	UVV1-19SMA	112550	110	IRV1-19SMA	112562	110
	39	P	UVV1-39SMA	112551	115	IRV1-39SMA	112563	115
200 ²	19	P	UVV2-19SMA	111860	115	IRV2-19SMA	111870	115
	39	P	UVV2-39SMA	111861	125	IRV2-39SMA	111871	125
400	19	P	UVV4-19SMA	111862	125	IRV4-19SMA	111872	125
	39	P	UVV4-39SMA	111863	135	IRV4-39SMA	111873	135
600	19	P	UVV6-19SMA	111864	135	IRV6-19SMA	111874	135
	39	P	UVV6-39SMA	111865	160	IRV6-39SMA	111875	160
1000	19	A	UVV10-19SMA	111866	258	IRV10-19SMA	111876	258
	39	A	UVV10-39SMA	111867	362	IRV10-39SMA	111877	362

Graded-Index — Optimized for 850 and 1300nm Wavelengths

62.5	19	P				FOV625-19SMA	112349	190
	39	P				FOV625-39SMA	112350	220

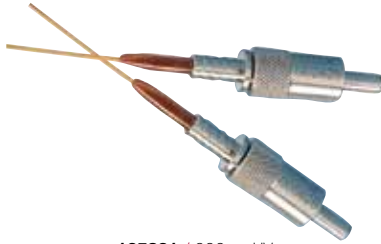
Jacket Options³ — Price for 19 and 39 Inch respectively →

	Part Extension	\$	\$
PEEK	Append extension to cable number	.60	30 50
Stainless Steel	Append extension to cable number	.61	30 50
Copper, Silver Plated	Append extension to cable number	.62	30 50

Coupler — Vented In-line SMA

In-Vacuum coupler, vented	FOVENT-C	105450	30
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1. This size comes with PEEK jacket. 2. Due to small fiber core size, we strongly recommend adding a 'Jacket Option'. Non-jacketed cables of this core size are not warranted. 3. Jacket is an optional addition to above cable assemblies and is only installed at the factory. Jacket price must be added to cable price. For example, Part Number 105061.60 would have a price of \$225.



105261 / 600μm UV
In-Vacuum Cable



105260.60 / 600μm UV
With PEEK Braid Jacketing



105260.61 / 600μm UV
With Stainless Steel Braid Jacketing



111866 / 1000μm UV
In-Vacuum Cable



105450 / In-Vacuum Coupler
With Vent Hole

Air-Service Multimode Fiber Optic Cable Assemblies

Connector to Connector assemblies are fitted with premium SMA connectors on both ends of a blue PVC jacketed fiber optic fiber. NA = 0.22, Step-Index.

Note: Air-Service cables require a coupler to mate with corresponding feedthroughs.



105240 / 600µm UV Air-Service Cable

Air-Service Cable Assemblies — Step Index Multimode Fiber / 80°C / Air Atmosphere

Fiber Size µm	Jacket Length Material	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
		UV / Ultraviolet 200-800nm			IR / Infrared 400-2200nm		
100	79 PVC	UVA1-79SMA2	112552	110	IRA1-79SMA2	112564	110
200	79 PVC	UVA2-79SMA2	105040	135	IRA2-79SMA2	105050	135
400	79 PVC	UVA4-79SMA2	105140	145	IRA4-79SMA2	105150	145
600	79 PVC	UVA6-79SMA2	105240	185	IRA6-79SMA2	105250	185
1000	79 PVC	UVA10-79SMA2	105340	325	IRA10-79SMA2	105350	325
Graded-Index — Optimized for 850 and 1300nm Wavelengths (Yellow Jacket)							
62.5	79 PVC				FOA625-79SMA2	112351	210

Coupler — In-line SMA

Air side coupler does not require venting	FO-C	105451	24
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Cable Rack

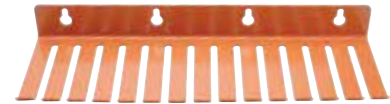
Electronic and fiber optic cable rack is great for hanging wires and cables. This keeps cables organized and off of already crowded workstations.

Cable Rack

Narrow Slot Cable Rack	CR-NS	111748	35
Wide Slot Cable Rack	CR-WS	111890	35



105451 / Air Side Coupler Without Vent Hole



111748 / Cable Rack



112580 / Air-Service Bifurcated Cable

Bifurcated Cables

Bifurcated Cables are Y-shaped assemblies with two fibers of the same diameter. The two fibers are side-by-side inside of the common Premium SMA 905 connector on one end. From the breakout point of the assembly, the two fibers diverge into two legs. UHV and Air-service versions are available where the UHV version is made from 100% UHV compatible materials including a PEEK weave jacket, the Air-Service assemblies are made with a PVC jacket.

Air-Service versions are split at 25-inches from the common end and the UHV versions are split at 12-inches from the common end.

Air-Service Bifurcated Cables — Step Index 79 Inch / PVC Jacket / 80°C / Air Atmosphere

Fiber Size μm	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
				Wavelength ▶		
				UV / Ultraviolet 200-800nm		IR / Infrared 400-2200nm
200	F02UVA-79BC	112580	300	F02IRA-79BC	112583	300
400	F04UVA-79BC	112581	330	F04IRA-79BC	112584	330
600	F06UVA-79BC	112582	370	F06IRA-79BC	112585	370



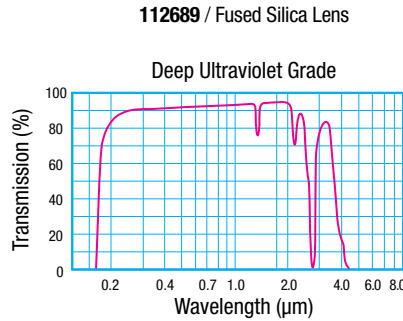
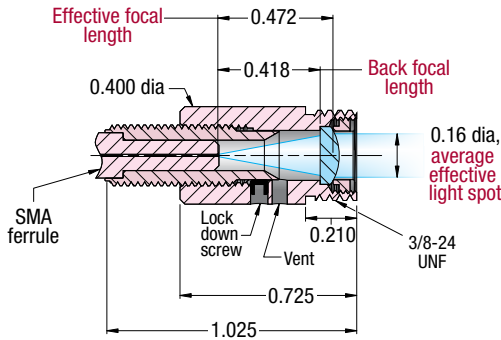
112640 / UHV Bifurcated Cable

UHV Bifurcated Cables — Step Index 39 Inch / PEEK Braid / 250°C / UHV to 1×10^{-10} Torr

Fiber Size μm	Model Number	Part Number	Unit Price \$	Model Number	Part Number	Unit Price \$
				Wavelength ▶		
				UV / Ultraviolet 200-800nm		IR / Infrared 400-2200nm
200	F02UWV-39BC	112640	250	F02IRV-39BC	112643	250
400	F04UWV-39BC	112641	275	F04IRV-39BC	112644	275
600	F06UWV-39BC	112642	300	F06IRV-39BC	112645	300

UHV Collimator, 1/4 Inch Lens

1/4 Inch Collimating Lenses use a high performance optical element (lens) manufactured using research-grade synthetic fused silica that has excellent transmission characteristics and higher operating temperatures than other elements. Collimating lenses come set to standard effective focal length distances. However, a means of adjustment is built into the body to allow precision adjustments.



112689 / 1/4" Collimator Lens
Fused Silica

UHV Collimator — 1/4 Inch Lens / 250°C / Air Atmosphere or UHV to 1x10⁻¹⁰ Torr

Connector Style	Lens Material	Lens Diameter	Operating Wavelength	Model Number	Part Number	Unit Price \$
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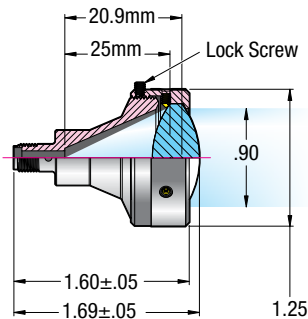
Collimator — SMA .250-36 to .375-24 Threads

SMA	Sapphire	0.24	150nm – 5500nm	SAP-COLL4-SS	112720	475
SMA	Fused Silica	0.24	190nm – 2500nm	FS-COLL2-SS	112689	225

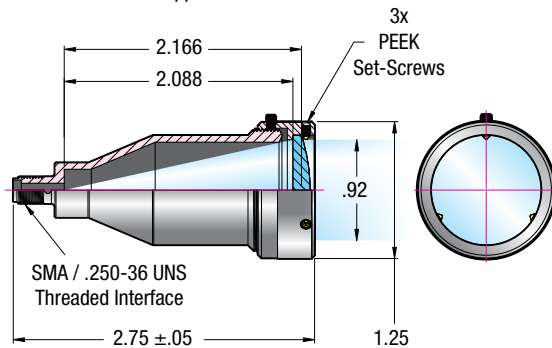
UHV Collimator, 1 Inch Lens

1 Inch Collimating Lenses use a high performance optical element (lens) manufactured using research-grade synthetic fused silica that has excellent transmission characteristics and higher operating temperatures than other elements. Collimating lenses come set to standard effective focal length distances. However, a means of adjustment is built into the body to allow precision adjustments.

113161 / Fused Silica Lens



112699 / Sapphire Lens



112699 / 1" Collimator Lens
Sapphire



113161 / 1" Collimator Lens
Fused Silica

UHV Collimator — 1 Inch Lens / 250°C / Air Atmosphere or UHV to 1x10⁻¹⁰ Torr

Connector Style	Lens Material	Lens Diameter	Operating Wavelength	Model Number	Part Number	Unit Price \$
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Collimator — SMA .250-36 Threads

SMA	Sapphire	1.00	150nm – 5500nm	SAP-COLL1-SS	112699	550
SMA	Fused Silica	1.00	190nm – 2500nm	FS-COLL4-SS-LP	113161	485



112694 / Filter Holder Kit
Includes Fused Silica Collimators



113006 / Filter Holder
Table / Breadboard Mount



112737 / In-Line Bayonet
Filter Holder
Collimator Lenses Sold Separately



112321 / 400µm Bare Fiber Adapter



111116 / .250-36 SMA Mount
Fits 1" or 25mm Centers



112686 / .375-24 Collimator Mount
Fits 1" or 25mm Centers

Filter Holders

Filter Holders... Table mount in-line 1/2 inch optical filter holder. Fits standard inch or metric optical tables and breadboards. Mounting bracket is fitted with two elongated holes to accommodate 1 inch or 25mm center grid mounting hole patterns. Fasten with vented 1/4-20 or M6 socket-head cap screws. Accepts 0.50 inch diameter by 0.12 inch thick optical filters. Bayonet / Barrel Mount in-line, 1 inch optical filter holder employs a 1/4 twist bayonet style interface. Accepts 1.00 inch diameter by 0.20 inch thick optical filters. Note that 1/2 and 1 inch filters are sold separately.

Filter Holders — Fiber Optic / 250°C / Air Atmosphere or UHV to 1x10⁻¹⁰ Torr

Type	Qty.	Model Number	Part Number	Unit Price \$
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UHV Filter Holder — Table / Breadboard Mount Type

Kit, Fused Silica Collimator and In-line Filter Holder	1	FO-FHC	112694	589
In-line Filter Holder	1	FO-FH	113006	140

Air Service Filter Holder — Bayonet / Barrel Mount Type

In-line Filter Holder	1	FO-FH2	112737	99
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Bare Fiber Adapters — Multi-Use

Bare Fiber Adapters can be used as the following devices: SMA adapter, Ferrule, or as a Bulkhead Mount. Simply insert the bare fiber end into the collet and tighten until snug. Bare fiber adapters are designed to fit on our polyimide buffered fiber only.

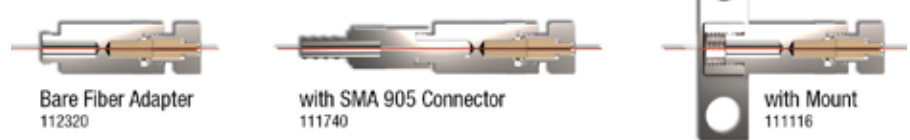
UHV Adapters — 250°C / Air Atmosphere or UHV to 1x10⁻¹⁰ Torr

Fiber Size	Qty.	Material	Model Number	Part Number	Unit Price \$
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Adapter — Only for use with AG Polyimide buffered fiber

200µm	1	SS/PEEK	FO200-BFFA	112320	165
400µm	1	SS/PEEK	FO400-BFFA	112321	165
600µm	1	SS/PEEK	FO600-BFFA	112322	165

Bare Fiber Adapter Usage



UHV Mounts

Mounts are made from 304 stainless steel and compatible with UHV and/or Air-Service applications. They have slightly elongated clearance holes for 1/4-20 inch or M6 vented socket-head cap screws, compatible with standard 1 inch or 25mm center spaced optical table / breadboard mounting grids.

Mounts — 250°C / Air Atmosphere or UHV to 1x10⁻¹⁰ Torr

Type	Qty.	Material	Model Number	Part Number	Unit Price \$
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Mounts — Bare Fiber and Collimator Adapters

SMA Mount, .250-36 Thread	1	SS	FO-SMA/BFA-MNT	111116	65
Collimator Mount, .375-24 Thread	1	SS	FO-COLL-MNT	112686	65

Couplers

Couplers are used to connect two similar connector types. Accu-Glass couplers are manufactured from 304 stainless steel and are available for vacuum or air service applications. Vacuum rated couplers include a vent hole, which provides a path for trapped gases to escape. The SMA coupler mates with our standard SMA 905 precision connectors.

Couplers — 250°C or 80°C / UHV or Air Atmosphere

Type	Service	Material	Model Number	Part Number	Unit Price \$
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Couplers — 250°C / UHV to 1x10⁻¹⁰ Torr

SMA to SMA	UHV	SS	FOVENT-C	105450	30
SMA to SMA - Bulkhead mount	UHV	SS	FOVENT-C-BM	111115	42

Couplers — 80°C / Air Atmosphere

SMA to SMA	Air	SS	FO-C	105451	24
SMA to SMA - Bulkhead mount	Air	SS/Teflon	FO-C-BM	112646	24

Between Series Adapters

Between Series Adapters are devices used to connect two dissimilar fiber optic connector types. Accu-Glass offers two adapter types, SMA-to-FC and SMA-to-ST. FC, ferrule connector or fixed connection type, was one of the most popular singlemode connectors for many years. It also uses a 2.5 mm ferrule. It uses a secure threaded and keyed interface, but you must make sure you have the key aligned in the slot properly before tightening. ST connectors were one of the first connector types implemented in fiber optic networking applications. ST stands for Straight Tip connector. ST connections use a 2.5mm ferrule with a round plastic or metal body. ST connectors stay in place with a twist-on / twist-off bayonet-style mechanism.

Between Series Adapters — 250°C or 80°C / UHV or Air Atmosphere

Type	Service	Material	Model Number	Part Number	Unit Price \$
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Adapters — 250°C / UHV to 1x10⁻¹⁰ Torr

SMA to FC	UHV	SS	FOV-SMA-FC-ADP	112241	50
SMA to ST	UHV	Zirconia	FOV-SMA-ST-ADP	112242	70

Adapters — 80°C / Air Atmosphere

SMA to FC	Air	SS/Teflon	FO-SMA-FC-ADP	112648	40
SMA to ST	Air	SS/Teflon	FO-SMA-ST-ADP	112649	55



105450 / In-Vacuum Coupler With Vent Hole



112241 / SMA to FC Adapter



112242 / SMA to ST Adapter