

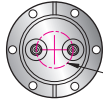
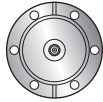


**Ultrahigh Vacuum  
CF Flange Feedthrough**

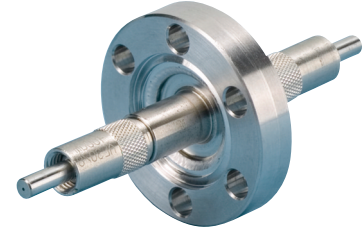
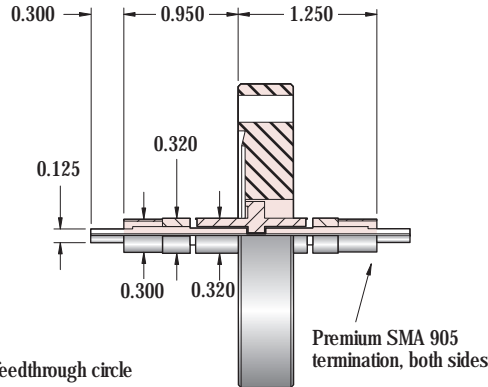
133 CF



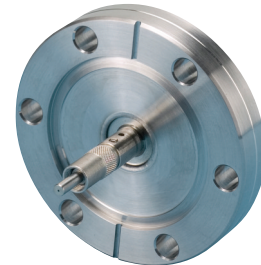
275 CF



0.85 feedthrough circle



105000, UHV CF Flange  
(Vacuum Side)

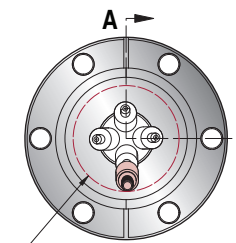


105001, UHV CF Flange  
(Vacuum Side)

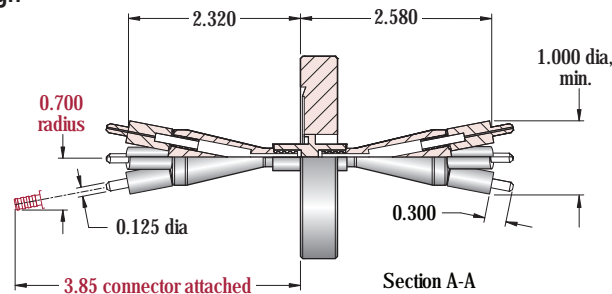
112301, UHV CF Flange  
(Vacuum Side)

| Number<br>F'thrus | Fiber<br>UV / VIS | Connector<br>Type | CF Flange |      | Model<br>Number | Part<br>Number | Unit<br>Price<br>\$ |
|-------------------|-------------------|-------------------|-----------|------|-----------------|----------------|---------------------|
|                   |                   |                   | Model     | OD   |                 |                |                     |
| 1                 | 100µm UV          | SMA               | 133 CF    | 1.33 | FO1UV-133       | 112424         | 635                 |
| 1                 | 100µm UV          | SMA               | 275 CF    | 2.73 | FO1UV-275       | 112425         | 650                 |
| 2                 | 100µm UV          | SMA               | 275 CF    | 2.73 | FO1UV-2-275     | 112426         | 1150                |
| 1                 | 200µm UV          | SMA               | 133 CF    | 1.33 | FO2UV-133       | 105000         | 435                 |
| 1                 | 200µm UV          | SMA               | 275 CF    | 2.73 | FO2UV-275       | 105001         | 450                 |
| 2                 | 200µm UV          | SMA               | 275 CF    | 2.73 | FO2UV-2-275     | 112300         | 790                 |
| 1                 | 400µm UV          | SMA               | 133 CF    | 1.33 | FO4UV-133       | 105100         | 440                 |
| 1                 | 400µm UV          | SMA               | 275 CF    | 2.73 | FO4UV-275       | 105101         | 455                 |
| 2                 | 400µm UV          | SMA               | 275 CF    | 2.73 | FO4UV-2-275     | 112301         | 795                 |
| 1                 | 600µm UV          | SMA               | 133 CF    | 1.33 | FO6UV-133       | 105200         | 450                 |
| 1                 | 600µm UV          | SMA               | 275 CF    | 2.73 | FO6UV-275       | 105201         | 465                 |
| 2                 | 600µm UV          | SMA               | 275 CF    | 2.73 | FO6UV-2-275     | 112302         | 805                 |
| 1                 | 1000µm UV         | SMA               | 133 CF    | 1.33 | FO10UV-133      | 105300         | 485                 |
| 1                 | 1000µm UV         | SMA               | 275 CF    | 2.73 | FO10UV-275      | 105301         | 499                 |
| 2                 | 1000µm UV         | SMA               | 275 CF    | 2.73 | FO10UV-2-275    | 112303         | 875                 |

**Ultrahigh Vacuum  
4 x 1 CF Flange Feedthrough**

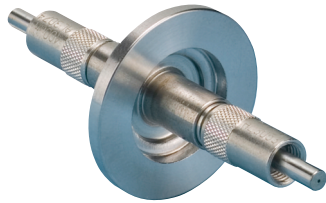
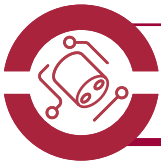


connector attached

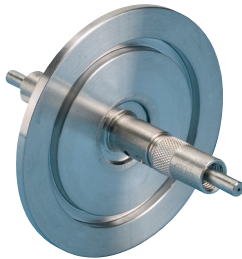


112598, UHV CF Flange  
4 x 1 Feedthrough

| Number<br>F'thrus | Fiber<br>UV / VIS | Connector<br>Type | CF Flange |      | Model<br>Number | Part<br>Number | Unit<br>Price<br>\$ |
|-------------------|-------------------|-------------------|-----------|------|-----------------|----------------|---------------------|
|                   |                   |                   | Model     | OD   |                 |                |                     |
| 4 x 1             | 100µm UV          | SMA               | 275 CF    | 2.73 | FO1UV-4-275     | 112598         | 2200                |
| 4 x 1             | 200µm UV          | SMA               | 275 CF    | 2.73 | FO2UV-4-275     | 112599         | 1950                |
| 4 x 1             | 400µm UV          | SMA               | 275 CF    | 2.73 | FO4UV-4-275     | 112600         | 1850                |
| 4 x 1             | 600µm UV          | SMA               | 275 CF    | 2.73 | FO6UV-4-275     | 112601         | 1750                |



105210, HV ISO KF Flange  
(Vacuum Side)



105211, HV ISO KF Flange  
(Vacuum Side)

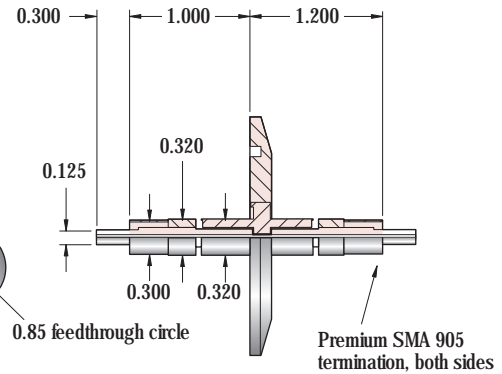
112304, HV ISO KF Flange  
(Vacuum Side)

### High Vacuum ISO Flange Feedthrough

NW16 KF



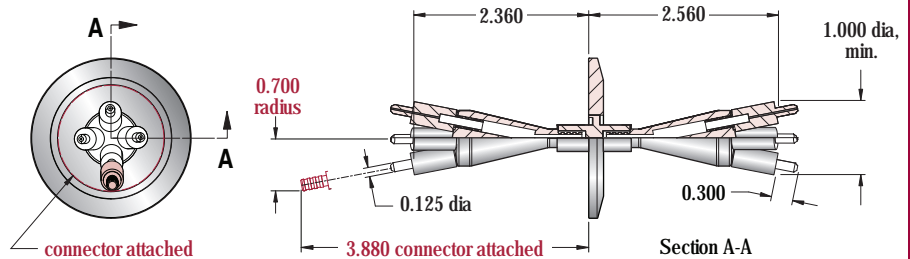
NW40 KF



| Number<br>F'thrus | Fiber<br>UV / VIS | Connector<br>Type | ISO Flange |      | Model<br>Number | Part<br>Number | Unit<br>Price<br>\$ |
|-------------------|-------------------|-------------------|------------|------|-----------------|----------------|---------------------|
|                   |                   |                   | Model      | OD   |                 |                |                     |
| 1                 | 100µm UV          | SMA               | NW16 KF    | 1.18 | FO1UV-K16       | 112427         | 630                 |
| 1                 | 100µm UV          | SMA               | NW40 KF    | 2.16 | FO1UV-K40       | 112428         | 645                 |
| 2                 | 100µm UV          | SMA               | NW40 KF    | 2.16 | FO1UV-2-K40     | 112429         | 1140                |
| 1                 | 200µm UV          | SMA               | NW16 KF    | 1.18 | FO2UV-K16       | 105010         | 430                 |
| 1                 | 200µm UV          | SMA               | NW40 KF    | 2.16 | FO2UV-K40       | 105011         | 445                 |
| 2                 | 200µm UV          | SMA               | NW40 KF    | 2.16 | FO2UV-2-K40     | 112304         | 785                 |
| 1                 | 400µm UV          | SMA               | NW16 KF    | 1.18 | FO4UV-K16       | 105110         | 435                 |
| 1                 | 400µm UV          | SMA               | NW40 KF    | 2.16 | FO4UV-K40       | 105111         | 450                 |
| 2                 | 400µm UV          | SMA               | NW40 KF    | 2.16 | FO4UV-2-K40     | 112305         | 790                 |
| 1                 | 600µm UV          | SMA               | NW16 KF    | 1.18 | FO6UV-K16       | 105210         | 445                 |
| 1                 | 600µm UV          | SMA               | NW40 KF    | 2.16 | FO6UV-K40       | 105211         | 460                 |
| 2                 | 600µm UV          | SMA               | NW40 KF    | 2.16 | FO6UV-2-K40     | 112306         | 800                 |
| 1                 | 1000µm UV         | SMA               | NW16 KF    | 1.18 | FO10UV-K16      | 105310         | 480                 |
| 1                 | 1000µm UV         | SMA               | NW40 KF    | 2.16 | FO10UV-K40      | 105311         | 495                 |
| 2                 | 1000µm UV         | SMA               | NW40 KF    | 2.16 | FO10UV-2-K40    | 112307         | 870                 |

### High Vacuum 4 x 1 ISO Flange Feedthrough

112602, HV ISO KF Flange  
4 x 1 Feedthrough



| Number<br>F'thrus | Fiber<br>UV / VIS | Connector<br>Type | ISO Flange |      | Model<br>Number | Part<br>Number | Unit<br>Price<br>\$ |
|-------------------|-------------------|-------------------|------------|------|-----------------|----------------|---------------------|
|                   |                   |                   | Model      | OD   |                 |                |                     |
| 4 x 1             | 100µm UV          | SMA               | NW40 KF    | 2.16 | FO1UV-4-K40     | 112602         | 2200                |
| 4 x 1             | 200µm UV          | SMA               | NW40 KF    | 2.16 | FO2UV-4-K40     | 112603         | 1950                |
| 4 x 1             | 400µm UV          | SMA               | NW40 KF    | 2.16 | FO4UV-4-K40     | 112604         | 1850                |
| 4 x 1             | 600µm UV          | SMA               | NW40 KF    | 2.16 | FO6UV-4-K40     | 112605         | 1750                |





### UV / VIS Multimode Fiber Optic 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.

105261, 600µm UV  
In-Vacuum Cable

111866, 1000µm UV  
In-Vacuum Cable



105450, In-Vacuum Coupler  
with vent hole

105261.60, 600µm UV  
with PEEK Braid Jacketing

105261.61, 600µm UV  
with Stainless Steel Braid Jacketing

Operating: -65°C to 200°C, Intermittent 300°C

Service: UHV

1 x 10<sup>-10</sup> Torr

| Core & Type                   | Length (inches) | Operating Wavelength Range | Buffer    | Type       | Model Number | Part Number | Unit Price \$ |
|-------------------------------|-----------------|----------------------------|-----------|------------|--------------|-------------|---------------|
| <b>Connector to Connector</b> |                 |                            |           |            |              |             |               |
| 100µm UV                      | 19              | 200–800 nm                 | Polyimide | Step-Index | UVV1-19SMA2  | 112548      | 145           |
| 100µm UV                      | 39              | 200–800 nm                 | Polyimide | Step-Index | UVV1-39SMA2  | 112549      | 153           |
| 200µm UV                      | 19              | 200–800 nm                 | Polyimide | Step-Index | UVV2-19SMA2  | 105060      | 151           |
| 200µm UV                      | 39              | 200–800 nm                 | Polyimide | Step-Index | UVV2-39SMA2  | 105061      | 155           |
| 400µm UV                      | 19              | 200–800 nm                 | Polyimide | Step-Index | UVV4-19SMA2  | 105160      | 156           |
| 400µm UV                      | 39              | 200–800 nm                 | Polyimide | Step-Index | UVV4-39SMA2  | 105161      | 167           |
| 600µm UV                      | 19              | 200–800 nm                 | Polyimide | Step-Index | UVV6-19SMA2  | 105260      | 172           |
| 600µm UV                      | 39              | 200–800 nm                 | Polyimide | Step-Index | UVV6-39SMA2  | 105261      | 197           |
| 1000µm UV                     | 19              | 200–800 nm                 | Aluminum  | Step-Index | UVV10-19SMA2 | 105360      | 291           |
| 1000µm UV                     | 39              | 200–800 nm                 | Aluminum  | Step-Index | UVV10-39SMA2 | 105361      | 390           |

#### Connector to Cable

|           |    |            |           |            |             |        |     |
|-----------|----|------------|-----------|------------|-------------|--------|-----|
| 100µm UV  | 19 | 200–800 nm | Polyimide | Step-Index | UVV1-19SMA  | 112550 | 105 |
| 100µm UV  | 39 | 200–800 nm | Polyimide | Step-Index | UVV1-39SMA  | 112551 | 108 |
| 200µm UV  | 19 | 200–800 nm | Polyimide | Step-Index | UVV2-19SMA  | 111860 | 106 |
| 200µm UV  | 39 | 200–800 nm | Polyimide | Step-Index | UVV2-39SMA  | 111861 | 110 |
| 400µm UV  | 19 | 200–800 nm | Polyimide | Step-Index | UVV4-19SMA  | 111862 | 111 |
| 400µm UV  | 39 | 200–800 nm | Polyimide | Step-Index | UVV4-39SMA  | 111863 | 122 |
| 600µm UV  | 19 | 200–800 nm | Polyimide | Step-Index | UVV6-19SMA  | 111864 | 127 |
| 600µm UV  | 39 | 200–800 nm | Polyimide | Step-Index | UVV6-39SMA  | 111865 | 152 |
| 1000µm UV | 19 | 200–800 nm | Aluminum  | Step-Index | UVV10-19SMA | 111866 | 246 |
| 1000µm UV | 39 | 200–800 nm | Aluminum  | Step-Index | UVV10-39SMA | 111867 | 345 |

In-Vacuum coupler with vent hole

FOVENT-C

105450

28

### Cable Assembly Jacketing Options

#### Jacketing

|                                      |                       | 19" price | 39" price |
|--------------------------------------|-----------------------|-----------|-----------|
| PEEK braid jacketing                 | append to Part Number | .60       | 28        |
| Stainless steel braid jacketing      | append to Part Number | .61       | 28        |
| Silver plated copper braid jacketing | append to Part Number | .62       | 28        |

These are sold as additions to the above cable assemblies and are added at the factory only. Price is added to Unit Price. For example, Part Number 105060.60 would have a price of \$179. Part Number 105061.60 would have a price of \$201.



### Air-service Multimode Fiber Optic Cable Assemblies

Air-service Cable 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.

Operating: 80°C

Service: Air

Atmos.

| Core & Type                        | Length (inches) | Operating Wavelength Range | Jacketing | Type       | Model Number | Part Number | Unit Price \$ |
|------------------------------------|-----------------|----------------------------|-----------|------------|--------------|-------------|---------------|
| <b>Air-service Cable</b>           |                 |                            |           |            |              |             |               |
| 100µm UV                           | 79              | 200–800 nm                 | PVC       | Step-Index | UVA1-79SMA2  | 112552      | 105           |
| 200µm UV                           | 79              | 200–800 nm                 | PVC       | Step-Index | UVA2-79SMA2  | 105040      | 125           |
| 400µm UV                           | 79              | 200–800 nm                 | PVC       | Step-Index | UVA4-79SMA2  | 105140      | 135           |
| 600µm UV                           | 79              | 200–800 nm                 | PVC       | Step-Index | UVA6-79SMA2  | 105240      | 175           |
| 1000µm UV                          | 79              | 200–800 nm                 | PVC       | Step-Index | UVA10-79SMA2 | 105340      | 315           |
| Air side coupler without vent hole |                 |                            |           |            | FO-C         | 105451      | 24            |

105240, 600µm UV Air-service Cable



105451, Air side Coupler without vent hole

### 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 | 30 |
| Wide Slot Cable Rack   | CR-WS | 111890 | 30 |

111748, Cable Rack