# COAXIAL

Coaxial is the description for electrical feedthroughs with parallel and concentric conductor paths, and with the inner most conductor path electrically isolated from the vacuum flange. Grounded Shield versions have one isolated path, and Floating Shield versions have two. Coaxial feedthroughs are single-ended or double-ended, and all types include air-side connectors.

MPF offers several mounting options for coaxial feedthroughs: Weldable, Quick Flange (QF), and Conflat Flange (CF). Most designs are also configured for Baseplate and NPT style adapters. Custom adapters, plates and flange configurations are available by request.

#### **BNC** and MHV

Bayonet Naval Connector (BNC) feedthroughs are very popular due to their quick connect coupling and compact overall size. BNC series are commonly used for low power transmission and are rated to 500 Volts DC.

Miniature High Voltage (MHV) feedthroughs are very similar to the BNC series, but the MHV series is capable of handling much higher power transmission. Although they are very similar in design, MHV and BNC connectors are not compatible. MHV feedthroughs and mating connectors are rated to 5000 Volts DC.



#### SHV-5 and SHV-10

Safe High Voltage (SHV) feedthroughs are like the MHV series, with the primary difference being the pin and contact configuration. SHV cable connectors have a recessed female contact which helps prevent shock hazards when the connector is disengaged.

This recessed contact design is an improvement over the MHV design, and becomes increasingly important in higher power applications. The SHV-5 and SHV-10 series are rated for up to 5 Amps and 5000 or 10,000 Volts DC respectively. Both are offered in single and double-ended versions.



#### SHV-20 and SHV-B

SHV-20 feedthroughs are rated for 20,000 Volts DC and up to 15 Amps. These specially designed interfaces incorporate standard high voltage contacts, and are designed for increased performance in pulsed high voltage applications.

SHV-B feedthroughs are designed for bakeout at higher temperatures than the other SHV series. The air-side cable connectors included with these feedthroughs utilize a ceramic dielectric material. SHV-B feedthroughs and connectors are rated for 7500 Volts DC and up to 3 Amps.



















Type N feedthroughs combine the most popular medium-sized high frequency connector with a feedthrough designed to perform in high and ultra-high vacuum applications. The standard Type N series is suitable for use to 1 GHz. Type N feedthroughs and mating connectors are rated for 500 Volts DC and up to 3 Amps.

Subminiature Type-A (SMA) feedthroughs are compact designs suited for medium-to-high frequency applications. Similar to the Type N series, the standard SMA series is suitable for use to 1 GHz. SMA feedthroughs and connectors are rated for 700 Volts DC and up to 1 Amp. The floating shield version is rated to 2500 Volts DC.



#### Type N and SMA - 50 Ohm - Matched Impedance

Both Type N and SMA feedthroughs are also offered with increased signal transmission performance. These high-vacuum feedthrough designs have been engineered for improved RF performance in high frequency applications up to 8 GHz.

Unlike the standard Type N and SMA feedthroughs which are intended for UHV applications, these matched impedance versions utilize a Teflon dielectric spacer. This design parameter optimizes electrical performance but requires consideration in some vacuum environments.

High Performance SMA rated to 18 Ghz also available.



#### Microdot and Between Series

Microdot style feedthroughs are the smallest UHV design with a threaded connector interface. This connector style is commonly used in vacuum coating applications, particularly in the construction of crystal sensor deposition monitors.

Crystal Sensor assemblies often utilize a BNC-Microdot 'between series' feedthrough, which is designed with a BNC connection on the air-side and a Microdot connection on the vacuum-side. Standard configurations available.

Type N to SMA feedthroughs are typically used in Beam Position Monitor (BPM) applications. Single, double, and custom configurations are available.



#### **Operating Conditions**

The electrical and thermal ratings specified are safe operating limits determined by various factors including material properties, mechanical design, and the intended operating environment. All electrical ratings are based on operation with one side in dry atmosphere and the other side in vacuum of 1 x  $10^{-4}$  Torr maximum pressure. Temperature ratings for various mounting options may reduce the operating range of an assembly. All assemblies have a maximum thermal gradient of  $25^{\circ}$ C per minute and may be damaged if this limit is exceeded.







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# COAXIAL

# Section 5:

Section	Туре	Sub-type	Grounded / Floating Shield	Single / Double Ended
5.1	BNC		Grounded	Single / Double
5.1	DIVC		Floating	Single / Double
5.2	MHV		Grounded	Single / Double
5.2	IVITIV		Floating	Single / Double
		SHV-5	Grounded	Single / Double
	•	SHV-5	Floating	Single
5.3	SHV	SHV-10	Grounded	Single / Double
		SHV-20	Grounded	Single
		SHV-B	Grounded	Single
5.4	Turno Ni	Standard	Grounded	Single
<b>5.4</b>	Type N	High Frequency	Grounded	Single / Double
		Standard	Grounded	Single
5.5	SMA	Standard	Floating	Single
		High Frequency	Grounded	Single / Double
5.6	Microdot		Grounded	Single
E 7	Between	BNC to Microdot	Grounded	Double
5.7	Series	Type N to SMA	Grounded	Double









# **Contents**

Electrical Rating	Thermal Rating	Conductor	Impedance	Pages
Voltage: 500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	124-135
Voltage: 2500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	124-135
Voltage: 5000 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	136-146
Voltage: 2500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	130-140
Voltage: 5000 Volts DC Current: 5 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant	
Voltage: 2500 Volts DC Current: 5 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant	
Voltage: 10,000 Volts DC Current: 5 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant	147-163
Voltage: 20,000 Volts DC Current: 15 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant	
Voltage: 7500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -200 to 300°C	304 Stainless Steel	Non-constant	•
Voltage: 500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	164-166
Voltage: 500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	50 Ohms	104-100
Voltage: 700 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	
Voltage: 2500 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	167-171
Voltage: 700 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	50 Ohms	·
Voltage: 500 Volts DC Current: 2 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Molybdenum	Non-constant	172
Voltage: 500 Volts DC Current: 2 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	173-177
Voltage: 500 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	1/3-1//

CHARLES

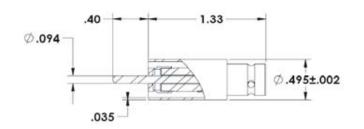






# **500 Volts DC / 3 Amps** Air-side Connector Included

### **Grounded Shield — Single-ended WELDABLE**

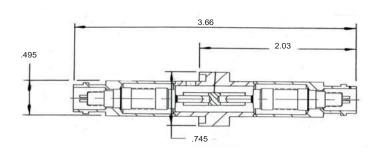




PAR	T#	PRICE
A0059-1-W		32.00
A0059-2-W	(w/o connector)	25.00

# **Grounded Shield — Double-ended**

#### **WELDABLE**





PART #	PRICE
A0471-1-W	165.00







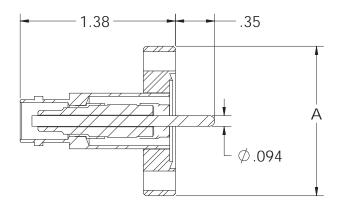




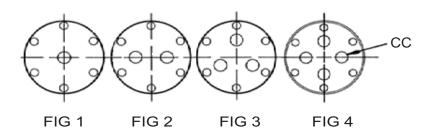


# **500 Volts DC / 3 Amps** Air-side Connector Included

# Grounded Shield — Single-ended CONFLAT FLANGE







PINS	FIG	CF FLANGE	Α	CC	PART #	PRICE
1	1	CF16	1.33		A0237-1-CF	70.00
1	1	CF40	2.75		A0289-1-CF	90.00
2	2	CF40	2.75	.75	A0291-1-CF	135.00
3	3	CF40	2.75	.95	A0293-1-CF	180.00
4	4	CF40	2.75	.95	A0295-1-CF	225.00







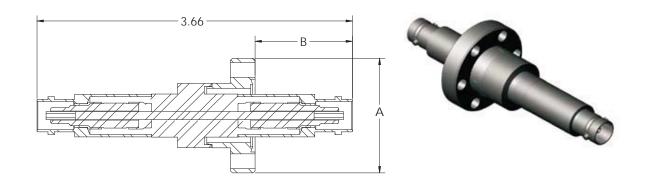


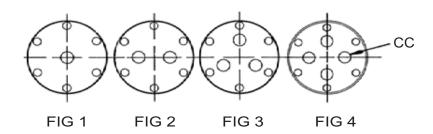


# **500 Volts DC / 3 Amps** Air-side Connector Included

### **Grounded Shield — Double-ended**

**CONFLAT FLANGE** 





PINS	FIG	CF FLANGE	Α	В	CC	PART #	PRICE
1	1	CF16	1.33	1.14		A0472-1-CF	220.00
1	1	CF40	2.75	1.58		A0473-1-CF	230.00
2	2	CF40	2.75	1.58	.75	A0473-3-CF	400.00
3	3	CF50	3.38	1.58	.95	A0473-5-CF	580.00
4	4	CF63	4.50	1.58	.95	A7231-1-CF	740.00



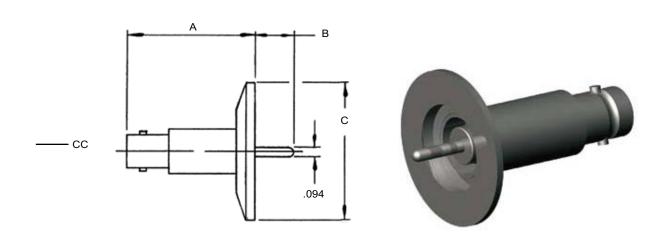


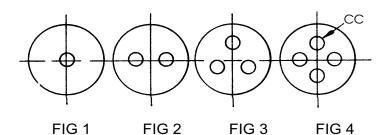




# **500 Volts DC / 3 Amps** Air-side Connector Included

# Grounded Shield — Single-ended QUICK FLANGE





PINS	FIG	Α	В	С	CC	PART #	PRICE
1	1	1.43	.30	1.18		A0476-1-QF	70.00
1	1	1.33	.40	2.16		A0476-2-QF	90.00
2	2	1.33	.40	2.16	.75	A0476-3-QF	125.00
3	3	1.33	.40	2.95	.95	A0476-4-QF	180.00
4	4	1.33	.40	2.16	.75	A6984-1-QF	225.00
4	4	1.33	.40	2.95	.95	A0476-5-QF	225.00



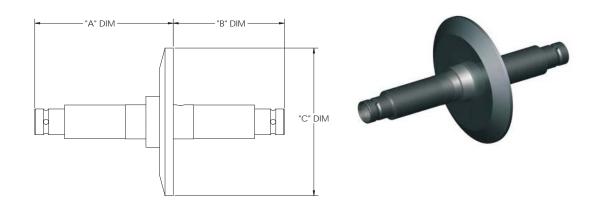


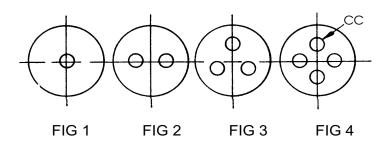


# **500 Volts DC / 3 Amps** Air-side Connector Included

# **Grounded Shield — Double-ended**

**QUICK FLANGE** 





PINS	FIG	Α	В	С	CC	PART #	PRICE
1	1	1.13	2.53	1.18		A0479-1-QF	220.00
1	1	2.03	1.63	2.16		A0478-3-QF	230.00
2	2	2.03	1.63	2.95	.75	A0478-5-QF	400.00
3	3	2.03	1.63	2.95	.95	A0478-7-QF	580.00
4	4	2.03	1.63	2.95	.95	A7111-1-QF	740.00





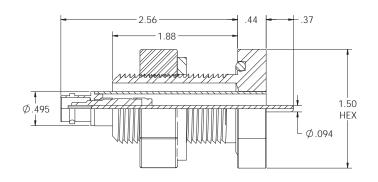




# **500 Volts DC / 3 Amps** Air-side Connector Included

#### **Grounded Shield**

#### 1" BASEPLATE

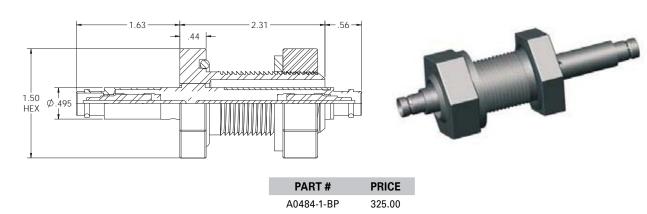




PART #	PRICE
A0482-2-BP	175.00

# **Grounded Shield — Double-ended**

#### 1" BASEPLATE







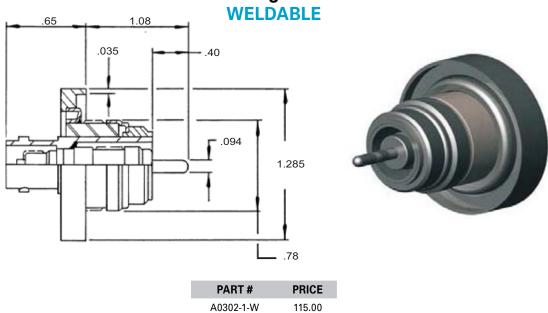






# **500 Volts DC / 3 Amps** Air-side Connector Included

## **Floating Shield**



# **Floating Shield**

#### **WELDABLE**







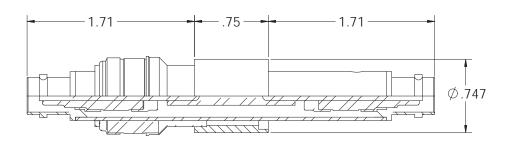




# **500 Volts DC / 3 Amps** Air-side Connector Included

### Floating Shield — Double-ended **WELDABLE**





PART #	PRICE
A0466-1-W	270.00





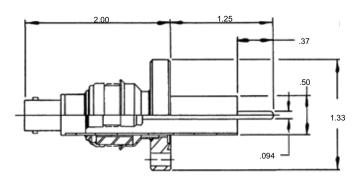






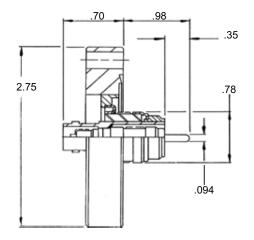
# **500 Volts DC / 3 Amps** *Air-side Connector Included*

# Floating Shield — Single-ended CONFLAT FLANGE





PART #	PRICE
A0310-1-CF	160.00





PART #	PRICE
A0304-1-CF	160.00





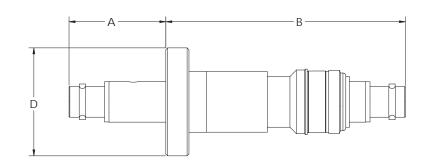




# **500 Volts DC / 3 Amps** *Air-side Connector Included*

# Floating Shield — Double-ended CONFLAT FLANGE





PINS	CF FLANGE	Α	В	D	PART #	PRICE
1	CF16	1.21	2.96	1.33	A0474-1-CF	320.00
1	CF40	1.66	2.51	2.75	A0475-1-CF	325.00





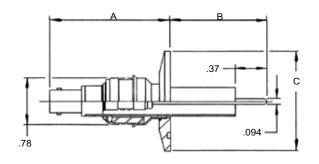






# **500 Volts DC / 3 Amps** Air-side Connector Included

# Floating Shield — Single-ended QUICK FLANGE

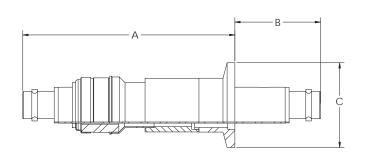




PINS	Α	В	С	PART #	PRICE
1	2.59	0.67	1.18	A0315-1-QF	160.00
1	2.09	1.17	2.16	A0315-3-QF	160.00

# Floating Shield — Double-ended

**QUICK FLANGE** 





PINS	Α	В	С	PART #	PRICE
1	2.96	1.21	1.18	A0480-1-QF	320.00
1	2.46	1.71	2.16	A0481-1-QF	325.00

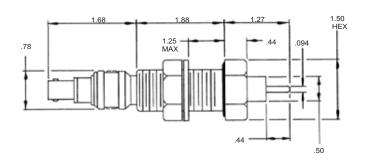






# **500 Volts DC / 3 Amps** Air-side Connector Included

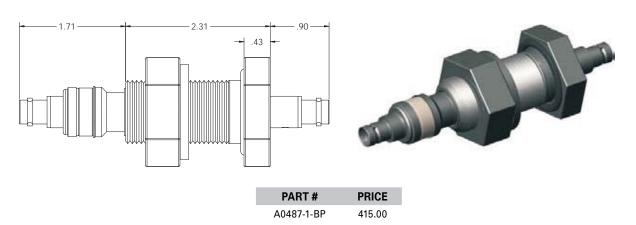
# Floating Shield 1" BASEPLATE





PART #	PRICE
Δ0485-1-RP	260.00

# Floating Shield — Double-ended 1" BASEPLATE









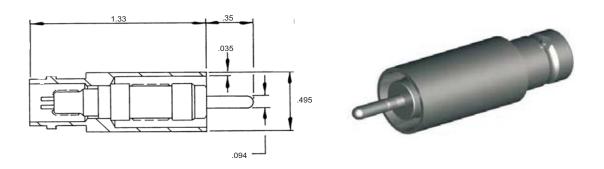




# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

### **Grounded Shield**

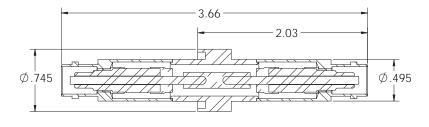
**WELDABLE** 



PART #	PRICE
A0058-1-W	32.00
A0058-2-W (w/o connector)	25.00

# **Grounded Shield — Double-ended**

#### **WELDABLE**





PART #	PRICE
A0471-2-W	170.00





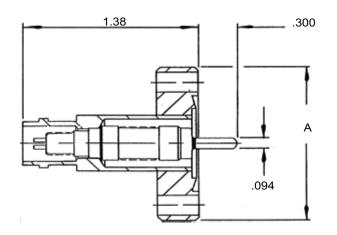




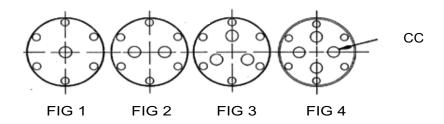


# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

# Grounded Shield — Single-ended CONFLAT FLANGE







PINS	CF FLANGE	Α	CC	PART#	PRICE
1	CF16	1.33		A0238-1-CF	80.00
1	CF40	2.75		A0290-1-CF	90.00
2	CF40	2.75	.75	A0292-1-CF	135.00
3	CF40	2.75	.95	A0294-1-CF	190.00
4	CF40	2.75	.95	A0296-1-CF	245.00







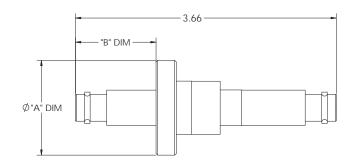




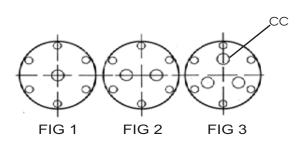
# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

### **Grounded Shield — Double-ended**

**CONFLAT FLANGE** 







PINS	FIG	CF FLANGE	Α	В	CC	PART #	PRICE
1	1	CF16	1.33	1.13		A0472-2-CF	225.00
1	1	CF40	2.75	1.58		A0473-2-CF	235.00
2	2	CF40	2.75	1.58	.75	A0473-4-CF	425.00
3	3	CF50	3.38	1.58	.95	A0473-6-CF	615.00





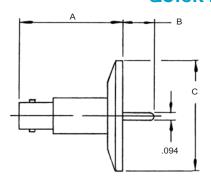






# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

# Grounded Shield — Single-ended QUICK FLANGE

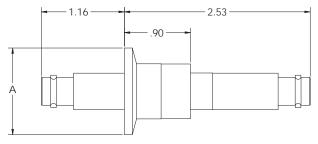




PINS	Α	В	С	CC	PART #	PRICE
1	1.43	.25	1.18		A0477-1-QF	85.00
1	1.33	.35	2.16		A0477-2-QF	90.00
2	1.33	.35	2.16	.75	A0477-3-QF	135.00
3	1.33	.35	2.95	.95	A0477-4-QF	190.00
4	1.33	.35	2.16	.75	A6984-2-QF	245.00
4	1.33	.35	2.95	.95	A0477-5-QF	245.00

# **Grounded Shield — Double-ended**

### **QUICK FLANGE**





PINS	Α	CC	PART #	PRICE
1	1.18		A0479-2-QF	225.00
1	2.16		A0478-4-QF	235.00
2	2.16	.75	A0478-10-QF	425.00
3	2.95	.95	A0478-8-QF	615.00





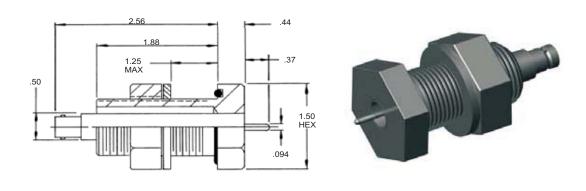






# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

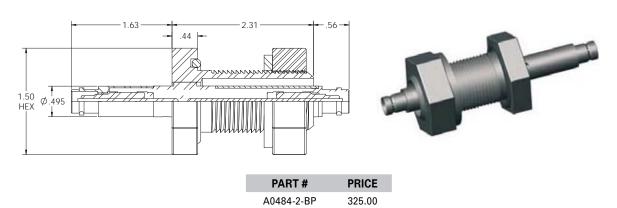
# Grounded Shield — Single-ended 1" BASEPLATE



PART #	PRICE
A0482-1-BP	175.00

### **Grounded Shield — Double-ended**

#### 1" BASEPLATE









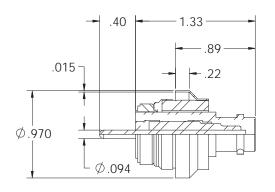




# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

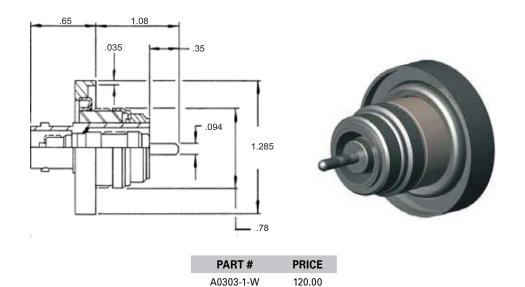
# ${\bf Floating\ Shield\ -\ Single-ended}$

## **WELDABLE**





PART #	PRICE
Δ1301-3-\//	120.00











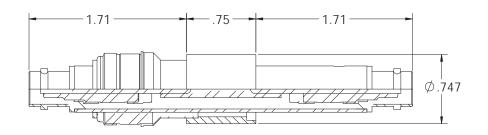


# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

# Floating Shield — Double-ended

**WELDABLE** 





PART #	PRICE
A0466-2-W	280.00



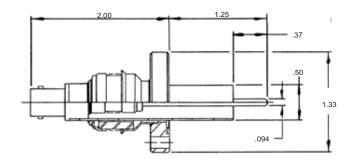






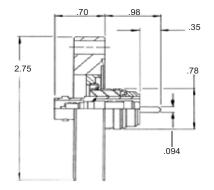
# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

# Floating Shield — Single-ended CONFLAT FLANGE





PART #	PRICE
A0311-1-CF	175.00





PART #	PRICE
A0305-1-CF	175.00







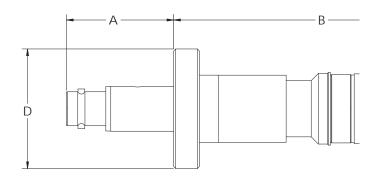




# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

# Floating Shield — Double-ended CONFLAT FLANGE





PINS	CF FLANGE	Α	В	D	PART #	PRICE
1	CF16	1.21	2.96	1.33	A0474-2-CF	335.00
1	CF40	1.66	2.51	2.75	A0475-2-CF	360.00





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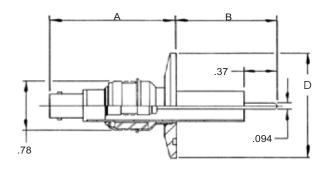




# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

# ${\bf Floating\ Shield\ -\ Single-ended}$

**QUICK FLANGE** 

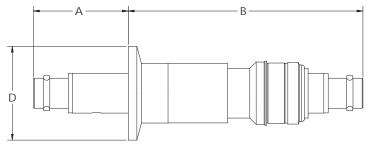




PINS	Α	В	D	PART #	PRICE
1	2.59	.67	1.18	A0316-1-QF	175.00
1	2.09	1.17	2.16	A0316-3-QF	175.00

# Floating Shield — Double-ended

#### **QUICK FLANGE**





PINS	Α	В	D	PART #	PRICE
1	1.21	2.96	1.18	A0480-2-QF	335.00
1	1.71	2.46	2.16	A0481-2-QF	360.00







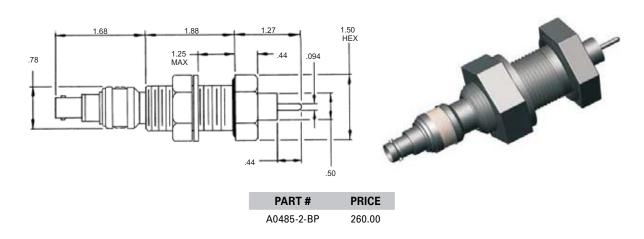




# **5000 Volts DC / 3 Amps** *Air-side Connector Included*

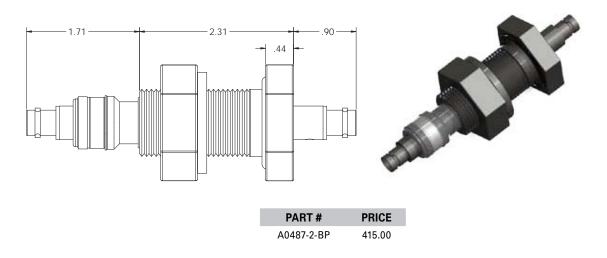
# ${\bf Floating\ Shield\ -\ Single-ended}$

1" BASEPLATE



# ${\bf Floating\ Shield\ -\ Double-ended}$

1" BASEPLATE





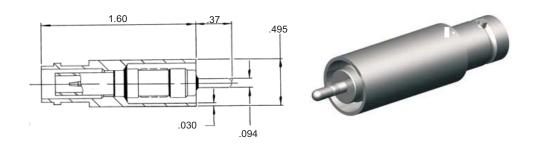




# **5000 Volts DC / 5 Amps** *Air-side Connector Included*

### **Grounded Shield — Recessed**

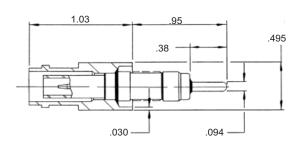
WELDABLE



PART #	PRICE
A0152-1-W	60.00

# **Grounded Shield — Exposed**

**WELDABLE** 





PART #	PRICE
A0328-1-W	75.00







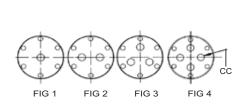


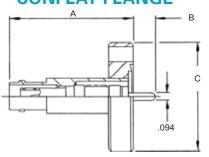


# **5000 Volts DC / 5 Amps** *Air-side Connector Included*

### **Grounded Shield — Recessed**

### **CONFLAT FLANGE**



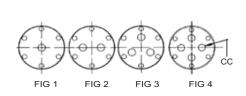


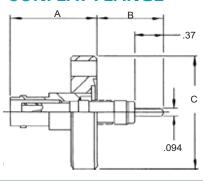


PINS	FIG	Α	В	С	CC	PART #	PRICE
1	1	1.65	.32	1.33		A0330-1-CF	110.00
1	1	1.65	.32	2.75		A0331-1-CF	130.00
2	2	1.65	.32	2.75	.75	A0332-1-CF	200.00
3	3	1.65	.32	2.75	.95	A0333-1-CF	290.00
4	4	1.65	.32	2.75	.95	A0334-1-CF	365.00

# ${\bf Grounded\ Shield-Exposed}$

#### **CONFLAT FLANGE**







PINS	FIG	Α	В	С	CC	PART#	PRICE
1	1	1.08	.86	1.33		A0335-1-CF	125.00
1	1	1.08	.86	2.75		A0336-1-CF	145.00
2	2	1.08	.86	2.75	.75	A0337-1-CF	230.00
3	3	1.08	.86	2.75	.95	A0338-1-CF	335.00
4	4	1.08	.86	2.75	.95	A0339-1-CF	430.00







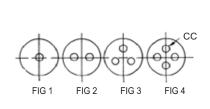


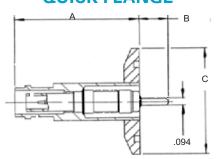


# **5000 Volts DC / 5 Amps** *Air-side Connector Included*

### **Grounded Shield — Recessed**

#### **QUICK FLANGE**

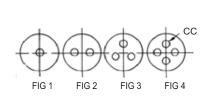


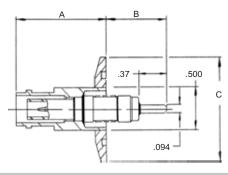




PINS	FIG	Α	В	С	CC	PART#	PRICE
1	1	1.70	.27	1.18		A0340-1-QF	110.00
1	1	1.60	.37	2.16		A0341-1-QF	120.00
2	2	1.60	.37	2.16	.75	A0342-1-QF	185.00
3	3	1.60	.37	2.95	.95	A0343-1-QF	320.00
4	4	1.60	.37	2.16	.75	A6984-3-QF	365.00
4	4	1.60	.37	2.95	.95	A0344-1-QF	365.00

# Grounded Shield — Exposed QUICK FLANGE







PINS	FIG	Α	В	С	CC	PART #	PRICE
1	1	1.13	.81	1.18		A0345-1-QF	125.00
1	1	1.03	.91	2.16		A0346-1-QF	145.00
2	2	1.03	.91	2.16	.75	A0347-1-QF	230.00
3	3	1.03	.91	2.95	.95	A0348-1-QF	335.00
4	4	1.03	.91	2.95	.95	A0349-1-QF	430.00





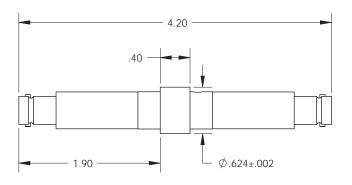




# SHV-5 **5000 Volts DC / 5 Amps** *Air-side Connector Included*

#### **Grounded Shield — Double-ended WELDABLE**





PART #	PRICE
A0858-1-W	220.00



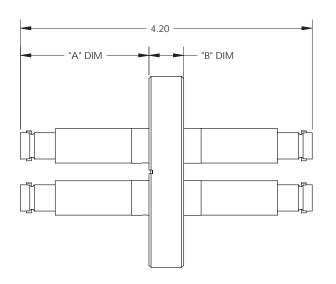




# **5000 Volts DC / 5 Amps** *Air-side Connector Included*

### **Grounded Shield — Double-ended**

**CONFLAT FLANGE** 





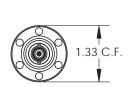


Fig. 1

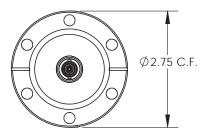


Fig. 2

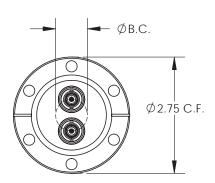


Fig. 3

FIG	PINS	Ø B.C.	"A" DIM	"B" DIM	PART #	PRICE
1	1		1.40	.285	A0472-5-CF	275.00
2	1		1.85	.500	A0473-7-CF	285.00
3	2	.75	1.85	.500	A0473-8-CF	440.00





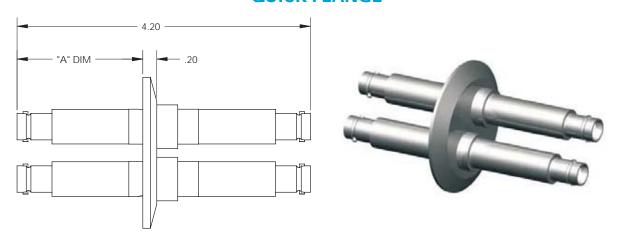




# **5000 Volts DC / 5 Amps** *Air-side Connector Included*

## **Grounded Shield — Double-ended**

#### **QUICK FLANGE**



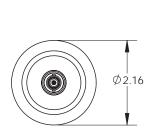


Fig. 1

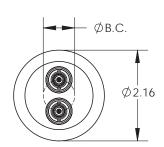


Fig. 2

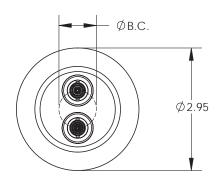


Fig. 3

FIG	PINS	Ø B.C.	"A" DIM	PART #	PRICE
1	1		1.80	A8271-1-QF	275.00
2	2	.75	1.80	A0859-1-QF	430.00
3	2	.90	1.90	A6974-1-QF	440.00







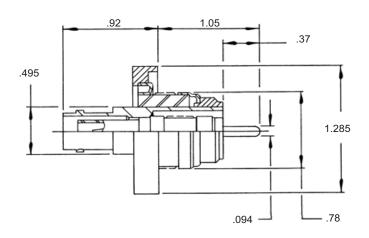




### SHV-5 5000 Volts DC / 5 Amps Air-side Connector Included

# Floating Shield — Single-ended WELDABLE





PART #	PRICE
A0329-1-W	150.00







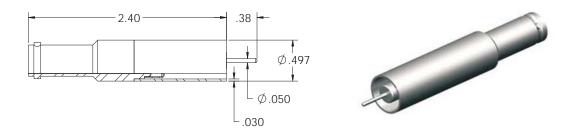




# 10,000 Volts DC / 5 Amps Air-side Connector Included

### **Grounded Shield — Recessed**

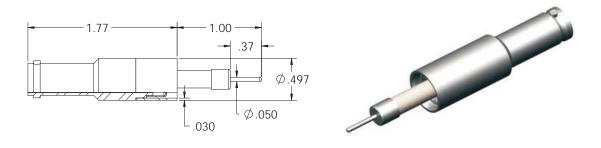
WELDABLE



TYPE	PART #	PRICE	
RECESSED	A1499-1-W	140.00	

## **Grounded Shield — Exposed**

#### **WELDABLE**



TYPE	PART #	PRICE
EXPOSED	A1497-1-W	155.00











# 10,000 Volts DC / 5 Amps Air-side Connector Included

## **Grounded Shield — Recessed**

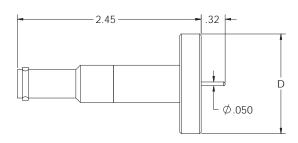
#### **CONFLAT FLANGE**













PINS	FIG	D	CC	PART #	PRICE
1	1	1.33 / CF16		A1600-1-CF	180.00
1	1	2.75 / CF40		A1600-2-CF	190.00
2	2	2.75 / CF40	.75	A1600-3-CF	345.00
3	3	2.75 / CF40	.75	A1600-4-CF	500.00
4	4	2.75 / CF40	.95	A1600-5-CF	650.00

# **Grounded Shield** — **Exposed**

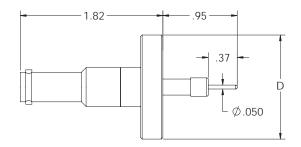
#### **CONFLAT FLANGE**













PINS	FIG	D	CC	PART #	PRICE
1	1	1.33 / CF16		A1601-1-CF	195.00
1	1	2.75 / CF40		A1601-2-CF	205.00
2	2	2.75 / CF40	.75	A1601-3-CF	360.00
3	3	2.75 / CF40	.75	A1601-4-CF	520.00
4	4	2.75 / CF40	.95	A1601-5-CF	680.00





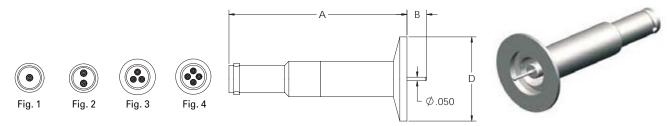




# 10,000 Volts DC / 5 Amps Air-side Connector Included

## **Grounded Shield — Recessed**

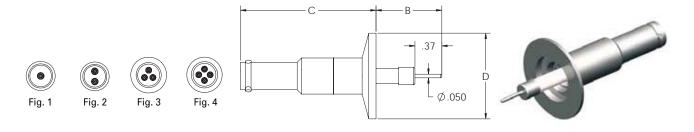
#### **QUICK FLANGE**



PINS	FIG	Α	В	D	CC	PART #	PRICE
1	1	2.49	.28	1.18 / QF16		A1602-1-QF	180.00
1	1	2.39	.28	2.16 / QF40		A1602-2-QF	190.00
2	2	2.39	.28	2.16 / QF40	.75	A1602-3-QF	345.00
3	3	2.39	.28	2.95 / QF50	.75	A1602-4-QF	500.00
4	4	2.39	.28	2.95 / QF50	.95	A1602-5-QF	650.00

# **Grounded Shield** — **Exposed**

#### **QUICK FLANGE**



PINS	FIG	В	С	D	CC	PART #	PRICE
1	1	1.87	.90	1.18 / QF16		A1603-1-QF	195.00
1	1	1.77	1.00	2.16 / QF40		A1603-2-QF	205.00
2	2	1.77	1.00	2.16 / QF40	.75	A1603-3-QF	360.00
3	3	1.77	1.00	2.95 / QF50	.75	A1603-4-QF	520.00
4	4	1.77	1.00	2.95 / QF50	.95	A1603-5-QF	580.00







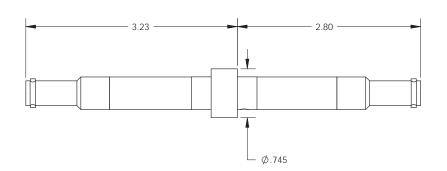




# 10,000 Volts DC / 5 Amps Air-side Connector Included

### **Grounded Shield — Double-ended WELDABLE**





PART #	PRICE
A2613-3-W	295.00





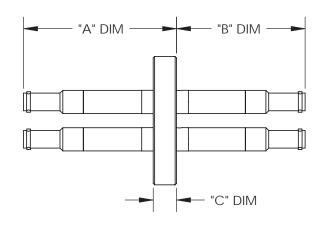






# 10,000 Volts DC / 5 Amps Air-side Connector Included

## **Grounded Shield — Double-ended**









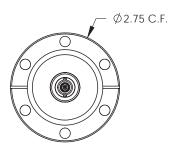


Fig. 2

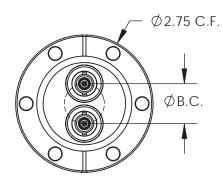


Fig. 3

FIG	PINS	Ø B.C.	"A" DIM	"B" DIM	"C" DIM	PART #	PRICE
1	1		3.73	2.30	.285	A8272-1-CF	345.00
2	1		3.28	2.75	.500	A8272-2-CF	355.00
3	2	.80	3.28	2.75	.500	A8272-3-CF	600.00











# 10,000 Volts DC / 5 Amps Air-side Connector Included

### **Grounded Shield — Double-ended**

### **QUICK FLANGE**

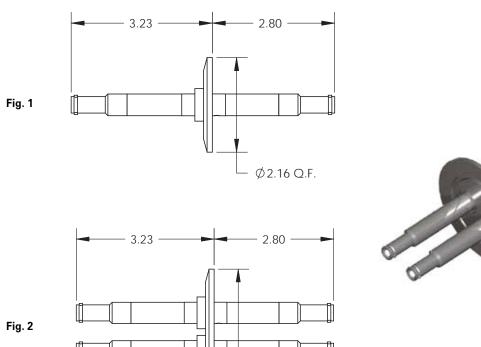




FIG	PINS	PART #	PRICE
1	1	A8273-1-QF	355.00
2	2	A8273-2-QF	600.00

Ø2.95 Q.F.

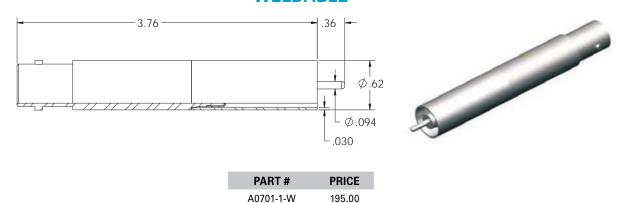




# **20,000 Volts DC / 15 Amps** *Air-side Connector Included*

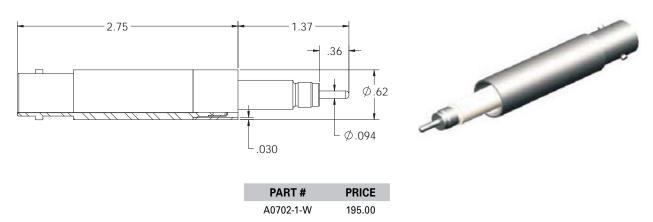
### **Grounded Shield — Recessed**

#### WELDABLE



## **Grounded Shield** — **Exposed**

### **WELDABLE**







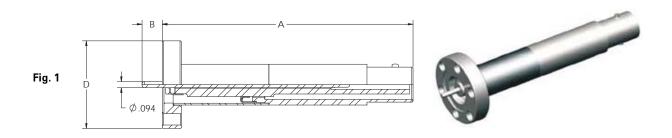


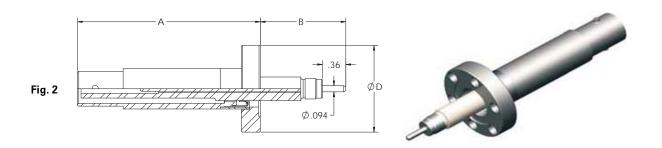




# **20,000 Volts DC / 15 Amps** *Air-side Connector Included*

# **Grounded Shield — Recessed and Exposed**





PINS	FIG	TYPE	Α	В	D	CC	PART #	PRICE
1	1	RECESSED	3.80	.32	1.33 / CF16		A0703-1-CF	250.00
1	1	RECESSED	3.80	.32	2.75 / CF40		A2095-1-CF	260.00
2	1	RECESSED	3.80	.32	2.75 / CF40	.95	A2300-1-CF	505.00
1	2	EXPOSED	2.80	1.32	1.33 / CF16		A0704-1-CF	250.00
1	2	EXPOSED	2.80	1.32	2.75 / CF40		A1909-1-CF	260.00
2	2	EXPOSED	2.80	1.32	2.75 / CF40	.95	A2099-1-CF	505.00

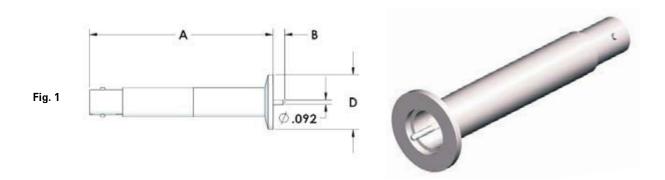


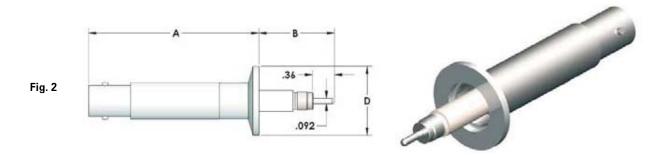




# **20,000 Volts DC / 15 Amps** *Air-side Connector Included*

# Grounded Shield — Recessed and Exposed QUICK FLANGE





PINS	FIG	TYPE	Α	В	D	CC	PART #	PRICE
1	1	RECESSED	3.85	.27	1.18 / QF16		A2096-1-QF	250.00
1	1	RECESSED	3.80	.37	2.16 / QF40		A2096-2-QF	255.00
2	2	RECESSED	3.80	.37	2.95 / QF50	.95	A2302-1-QF	505.00
1	1	EXPOSED	2.85	1.27	1.18 / QF16		A2094-1-QF	250.00
1	1	EXPOSED	2.75	1.37	2.16 / QF40		A2094-2-QF	255.00
2	2	EXPOSED	2.75	1.37	2.95 / QF50	.95	A2301-1-QF	505.00



162

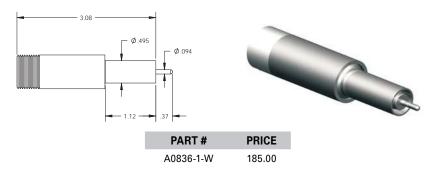




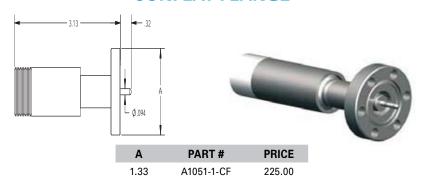
### SHV-B 7500 Volts DC / 3 Amps Bakeable Connector

Air-side Connector Included

#### **WELDABLE**



#### **CONFLAT FLANGE**

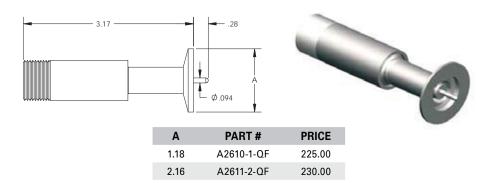


#### **QUICK FLANGE**

A1051-2-CF

230.00

2.75









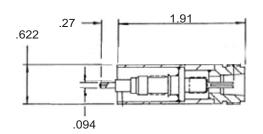




# **TYPE-N**

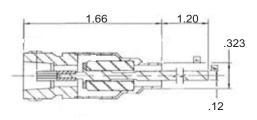
# **500 Volts DC / 3 Amps** *Air-side Connector Included*

#### **WELDABLE**



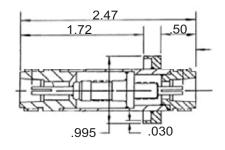


TYPE	PART #	PRICE
SINGLE-ENDED	A0654-1-W	120.00





TYPE	PART #	PRICE
SINGLE-ENDED / 50 Ohms	A0655-1-W	350.00





TYPE	PART #	PRICE
DOUBLE-ENDED	A0659-1-W	255.00







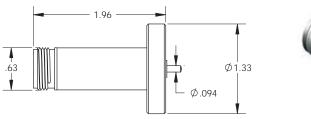






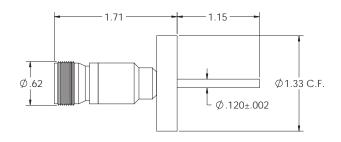
## **TYPE-N**

# **500 Volts DC / 3 Amps** *Air-side Connector Included*



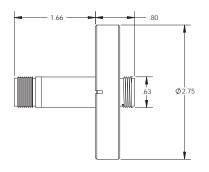


TYPE	PART #	PRICE
SINGLE-ENDED	A1706-1-CF	180.00





TYPE	PART #	PRICE
SINGLE ENDED / 50 Ohme	A 2714 1 CE	445.00





TYPE	PART #	PRICE
DOUBLE-ENDED	A2262-1-CF	315.00



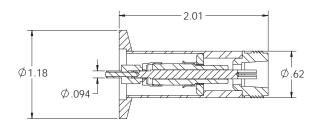




## **TYPE-N**

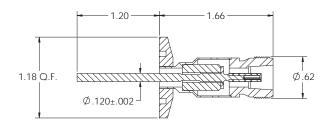
# **500 Volts DC / 3 Amps** Air-side Connector Included

#### **QUICK FLANGE**





TYPE	PART #	PRICE
SINGLE-ENDED	Δ2247-1-ΩF	180 00



TYPE



PRICE

	SINGLE-ENDED / 50 Oh	ms A3062-1-QF	445.00	
Φ2.16 <b>—</b> .7	5 1.71			
	TYPE	PART#	PRICE	
	DOUBLE-ENDED	A2604-1-QF	315.00	

PART#







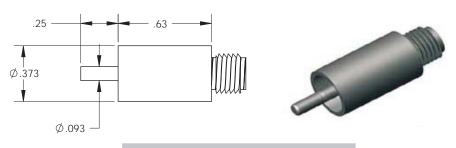




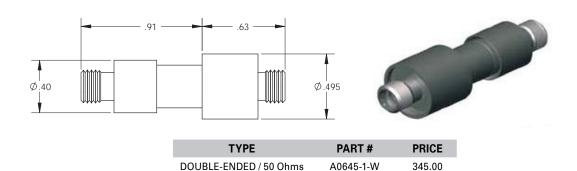
## **SMA**

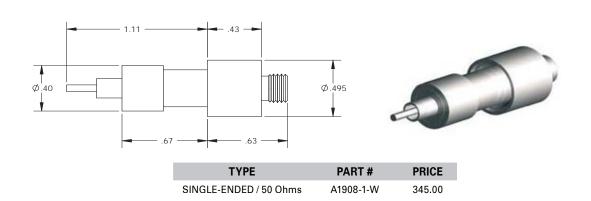
# **700 Volts DC / 1 Amp** Air-side Connector Included

#### **WELDABLE**



TYPE	PART #	PRICE
SINGLE-ENDED	A0660-1-W	80.00











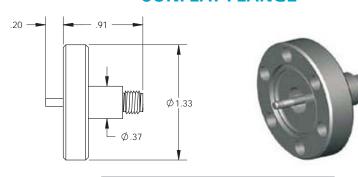




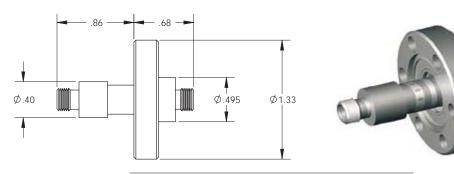
# **SMA**

# **700 Volts DC / 1 Amp** Air-side Connector Included

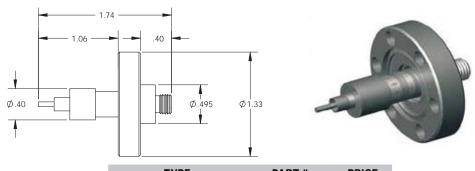
#### **CONFLAT FLANGE**



PART# PRICE **TYPE** SINGLE-ENDED A1911-2-CF 180.00



TYPE	PART #	PRICE
DOUBLE-ENDED / 50 Ohms	A1835-1-CF	445.00



TYPE PART# PRICE SINGLE-ENDED / 50 Ohms A1921-1-CF 445.00



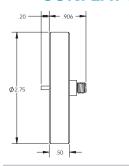






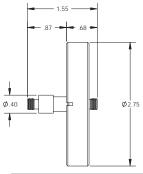


**SMA 700 Volts DC / 1 Amp** Air-side Connector Included



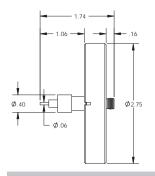


TYPE	PART #	PRICE
SINGLE-ENDED	A1911-1-CF	190.00





TYPE	PART #	PRICE
DOUBLE-ENDED / 50 Ohms	Δ2286-1-CF	455.00





IIIL	FANT#	FRICE
SINGLE-ENDED / 50 Ohms	A1910-1-CF	455.00



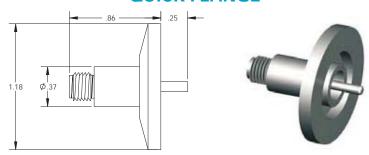




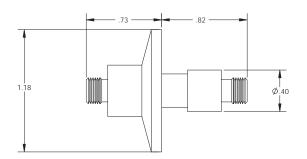
# **SMA**

# **700 Volts DC / 1 Amp** Air-side Connector Included

#### **QUICK FLANGE**

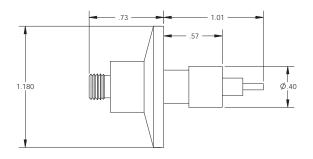


TYPE	PART #	PRICE
SINGLE-ENDED	A1920-1-OF	180 00





TYPE	PART #	PRICE
DOUBLE-ENDED / 50 Ohms	A2127-1-OF	445 00





TYPE	PART #	PRICE
SINGLE-ENDED / 50 Ohms	A1922-1-QF	445.00







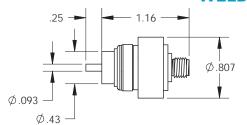




## **SMA**

# **700 Volts DC / 1 Amp** Air-side Connector Included

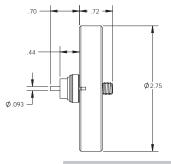
#### **WELDABLE**





TYPE	PART #	PRICE
SINGLE-ENDED	A1980-1-W	250.00

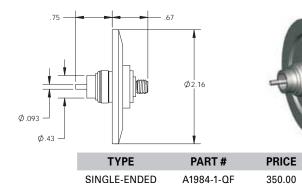
#### **CONFLAT FLANGE**





TYPE	PART #	PRICE
SINGLE-ENDED	A1983-1-CF	350.00

### **QUICK FLANGE**



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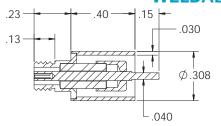


## **MICRODOT**

## 500 Volts DC / 2 Amps

Air-side Connector Included

#### **WELDABLE**





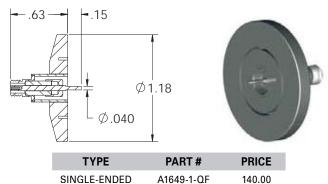
TYPE	PART #	PRICE
SINGLE-ENDED	A1634-1-W	90.00

#### **CONFLAT FLANGE**



TYPE	PART #	PRICE
SINGLE-ENDED	A1648-1-CF	140.00

#### **QUICK FLANGE**









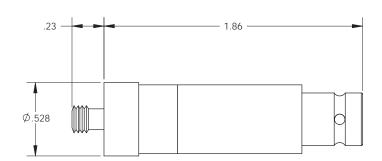




# **500 Volts DC / 2 Amps** Air-side Connector Included

# BNC to Microdot / Crystal Sensor Feedthrough WELDABLE





TYPE	PART#	PRICE
SINGLE-ENDED	A0975-1-W	215.00





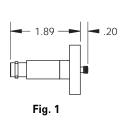


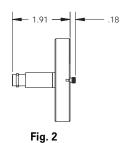




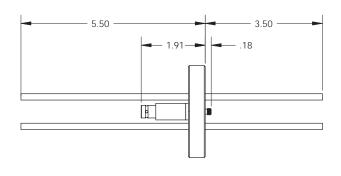
# **500 Volts DC / 2 Amps** Air-side Connector Included

# BNC to Microdot / Crystal Sensor Feedthrough CONFLAT FLANGE





PART #	FIG	COAX	COOLING LINES	FLANGE	PRICE
A2554-1-CF	1	1		1.33 CF	285.00
A2750-1-CF	2	1		2 75 CF	295.00





PART #	COAX	COOLING LINES	FLANGE	PRICE
A2728-1-CF	1	2	2.75 CF	355.00





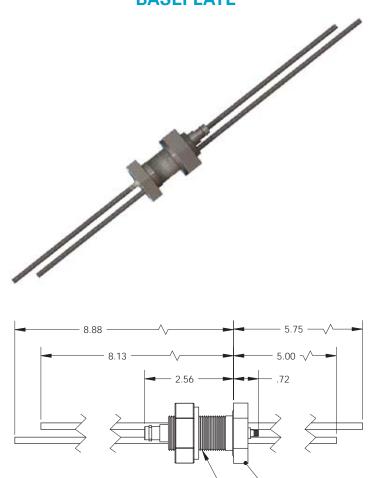




500 Volts DC / 2 Amps

Air-side Connector Included

# BNC to Microdot / Crystal Sensor Feedthrough BASEPLATE



PART #	COAX	COOLING LINES	MOUNT	PRICE
A7164-1-BP	1	2	1" BP	325.00









HEX

THREAD

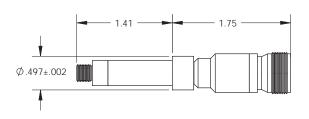


### 500 Volts DC / 1 Amp

Air-side Connector Included

## Type N to SMA

### **WELDABLE**





PART #	PRICE
A3888-1-W	355.00

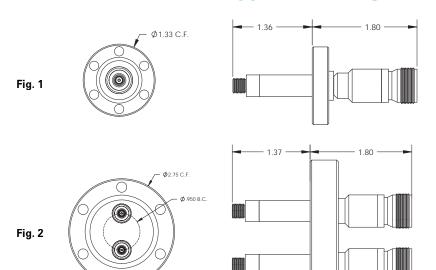




 FIG
 FLANGE
 PART #
 PRICE

 1
 1.33 CF
 A8223-1-CF
 455.00

 2
 2.75 CF
 A3892-1-CF
 850.00









### 500 Volts DC / 1 Amp

Air-side Connector Included

# Type N to SMA QUICK FLANGE

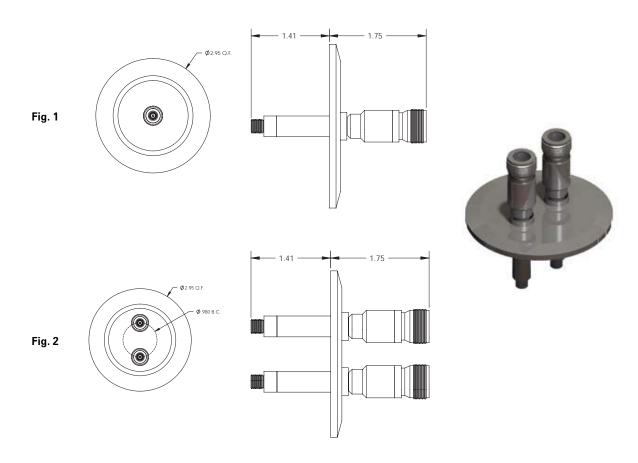


FIG	FLANGE	PART#	PRICE
1	QF 50	A8224-1-QF	455.00
2	QF 50	A8224-2-QF	850.00





