

Coaxial

SEMICONDUCTOR | ANALYTICAL EQUIPMENT | AEROSPACE | TELECOMMUNICATIONS



OIL EXPLORATION | R&D | HIGH ENERGY PHYSICS | MILITARY/DEFENSE | BIOTECHNOLOGY



*Advanced Ceramic-to-Metal &
Glass-Ceramic Sealing Technology*

Description

CeramTec coaxial connectors consist of two concentric conductors: a central conductor surrounded by and insulated from a second tubular conductor. The outside conductor is usually at ground potential but in some product variations may be floated off ground by employing an additional insulating ring. The outer conducting surface can prevent radio frequency noise from passing to or from the central conductor. CeramTec's Ceramaseal® product line includes a complete line of industry-standard coaxial connectors ranging from Microdot through SHV. These coaxial connectors are manufactured for high and ultra-high vacuum service.

Microdot connectors are the smallest standard threaded interface connectors we offer for use in Ultra-High Vacuum (UHV). CeramTec's standard Microdot connectors are available as single ended or double ended units.

SMA (Subminiature Type-A) connectors offer a threaded interface in a subminiature size. Matched impedance designs are also available and are ideally suited for high frequency signal transmission above 10 GHz. CeramTec's standard SMA connectors are available as single ended or double ended units.

SMB (Subminiature Type-B) connectors are designed for quick connecting and disconnecting. This is made possible by the SMB's spring retention connector. CeramTec's standard SMB connectors are single ended and available with a grounded shield or a floating shield configuration.

BNC connectors are the most popular miniature-sized connector and can accommodate up to 500 V DC. The BNC is characterized by its quick connect/disconnect bayonet coupling. Matched impedance designs are also available and are ideally suited for high frequency



signal transmission. CeramTec's standard BNC connectors are available as single or double ended units with a grounded shield or a floating shield.

MHV (Miniature High Voltage) connectors are designed for high-voltage applications of BNC connectors (DC voltage between 500 V and 5 kV). MHV connectors are sometimes referred to as "high-voltage BNCs." CeramTec's standard MHV connectors are available as single ended or double ended units with a floating shield or a grounded shield.

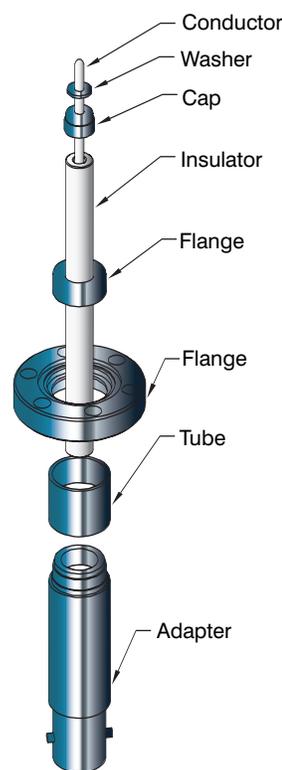
Type N series connectors are the most popular medium-sized connectors, accommodating voltages up to 1.5 kV. The threaded coupling provides low noise and increases resistance to shock and vibration. Matched impedance designs are also available and are ideally suited for high frequency signal transmission above 6 GHz. CeramTec's standard Type N connectors are available as single or double ended units.

HN series connectors are Type N series connectors that have been designed to take higher voltages (up to 7 kV). These matched impedance designs are ideally suited for high frequency signal transmission or fast rise time pulses for data transmission.

Standard Specifications

- Grounded and floating shield versions
- High frequency 50 ohm impedance matched connectors
- Connectors sold with or without air side plugs

Typical Coaxial Construction



SHV (Safe High Voltage)

connectors feature an improved interface over the MHV. The SHV outer contact ground connection is maintained through the center contact mating cycle. The center contact is recessed to prevent shock hazard when disengaged. Four designs are included in this Product Guide covering DC voltages from 5 kV to as high as 20 kV. The BSHV version is a bakeable SHV connector that exhibits the safety level of the SHV. CeramTec's standard SHV connectors are single ended and available with a grounded shield or a floating shield (SHV 5 kV) configuration.

Extreme / Custom Design

- Multiple coaxial and multipin connectors in a flange
- Double ended 50 ohm coaxial connector with floating shield for a cryogenic application
- Coaxial connectors using a glass-ceramic seal for cryogenic and corrosive environments
- LC connector, TNC connector and other military style coaxial connectors

Installation

Standard installation mountings include:

- Weld (Pulse-TIG, TIG, Laser, E-Beam)
- ISO KF flange
- ConFlat flange
- NPT fitting (see Pressure section)

Applications

A few of the many applications in which these coaxial connectors are commonly used are:

- Telecommunications
- Semiconductor processing equipment
- Aerospace equipment
- Medical equipment

| STANDARD SPECIFICATIONS | | | | | |
|-------------------------|-----------------------------------|------------|----------|----------------|---|
| Category | Classification | DC Voltage | Coupling | Current (amps) | Cable |
| Subminiature | Microdot® | 1000V | Threaded | 2 | .08 dia. 50-ohm |
| | SMB (Subminiature-B) | 375V | Push-on | 1.4 | RG-174/U |
| | SMA (Subminiature-A) | 500V | Threaded | 0.8 - 1.8 | RG-58/U |
| Miniature | BNC | 500V | Bayonet | 3.6 - 4.4 | RG-58/U |
| | MHV (Min. High-Voltage) | 5000V | Bayonet | 3.6 | RG-59/U |
| | SHV-5KV (Safe High-Voltage) | 5000V | Bayonet | 10 | RG-59/U |
| | SHV-10KV (Safe High-Voltage) | 10,000V | Bayonet | 2.2 - 10 | RG-58/U |
| | SHV-20KV (Safe High-Voltage) | 20,000V | Bayonet | 16.5 | RG-213/U |
| | BSHV (Bakeable Safe High-Voltage) | 7500V | Threaded | 8 | RG-59/U |
| Medium-Sized | N | 1500V | Threaded | 0.8 - 5 | RG-8/U RG-9/U RG-10/U |
| | HN | 7000V | Threaded | 7 | RG-8/U RG-9/U RG-87/U RG-213/U RG-214/U RG-225/U |

- Microwave
- In-vacuum coating
- Particle accelerators

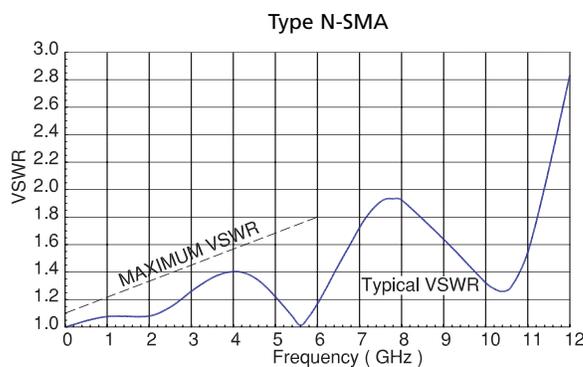
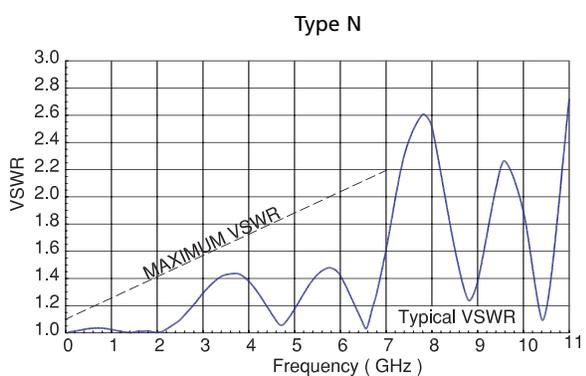
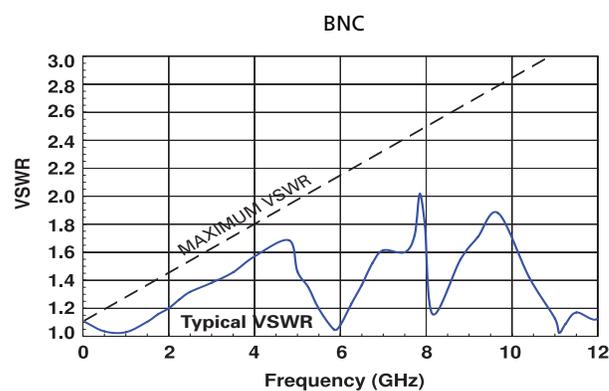
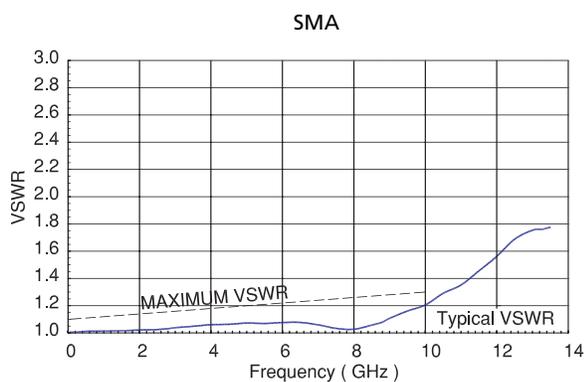
New Products

- Floating SMA connector
- BNC to Microdot connector
- New 50 Ohm BNC connector design

High Frequency 50 Ohm Designs

- SMA
- BNC
- Type N
- HN

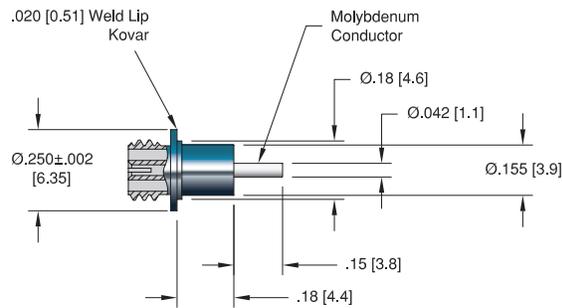
VSWR vs. Frequency Charts



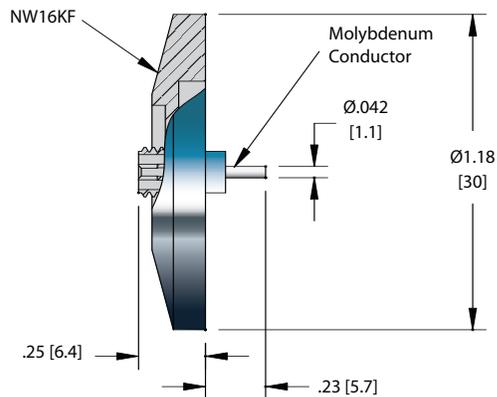
COAXIAL

| Type | Voltage DC | Current | Impedance Rating | Sub-section | Section Pages |
|---|------------|-------------|-----------------------|----------------|-----------------|
|  | 1 kV | 2 Amps | Non-Constant | Microdot | C.1 80-83 |
|  | 375 V | 1.4 Amps | Non-Constant | SMB | C.2 84-87 |
|  | 500 V | to 1.8 Amps | 50 Ohm & Non-Constant | SMA | C.3 88-95 |
|  | 500 V | to 3.6 Amps | 50 Ohm & Non-Constant | BNC | C.4 96-105 |
|  | 5 kV | 3.6 Amps | Non-Constant | MHV | C.5 106-113 |
|  | 1.5 kV | to 5 Amps | 50 Ohm & Non-Constant | Type N | C.6 114-117 |
|  | 7 kV | 7 Amps | 50 Ohm | HN | C.7 118-119 |
|  | 5 kV | 10 Amps | Non-Constant | SHV 5 KV | C.8 120-125 |
|  | 7.5 kV | 8 Amps | Non-Constant | BSHV 7.5 KV | C.9 126-127 |
|  | 10 kV | to 10 Amps | Non-Constant | SHV 10 KV | C.10 128-131 |
|  | 20 kV | 16.5 Amps | Non-Constant | SHV 20 KV | C.11 132-133 |
|  | 1.5 kV | 0.8 Amps | 50 Ohm & Non-Constant | Between Series | C.12 134-137 |

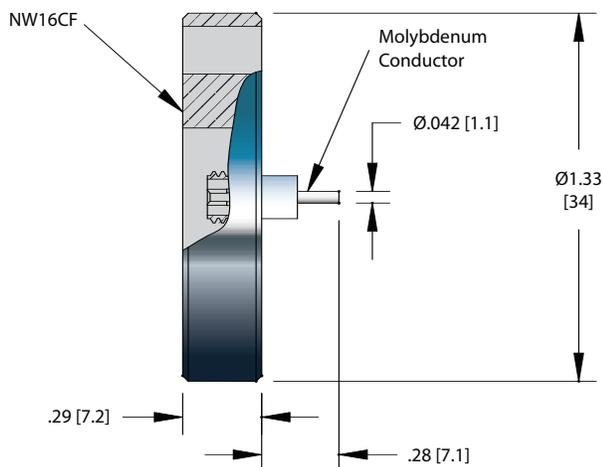
Weldable



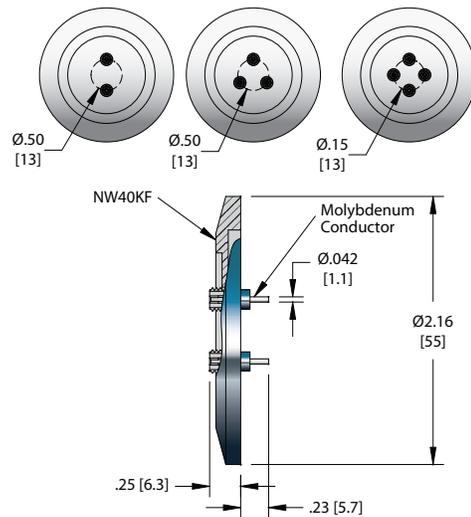
ISO KF - NW16KF



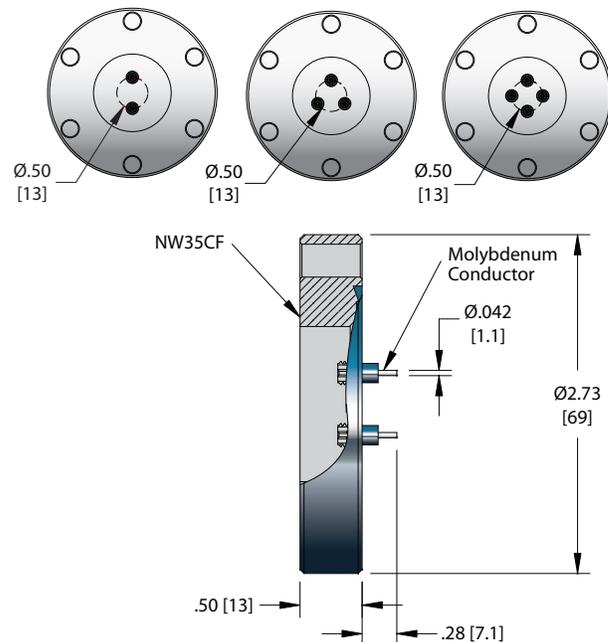
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: Kovar
Pin: Molybdenum
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 1 kV DC

Current Rating 2 Amps

Temperature Range -55°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table



Weldable

| NO. PINS | INSTALLATION | PRESSURE @ 20°C | | PART NUMBER |
|----------|--------------|-----------------|-----|-------------|
| | | PSIG | BAR | |
| 1 | Weld | 1600 | 110 | 17614-01-W |

ISO FLANGE



ISO KF

| | | | | |
|---|--------|---|---|-------------|
| 1 | NW16KF | - | - | 21507-01-KF |
| 2 | NW40KF | - | - | 21525-01-KF |
| 3 | NW40KF | - | - | 21526-01-KF |
| 4 | NW40KF | - | - | 21527-01-KF |

CONFLAT FLANGE



ConFlat

| | | | | |
|---|-----------------|------|-----|-------------|
| 1 | 1 1/3" (NW16CF) | 1600 | 110 | 21505-01-CF |
| 2 | 2 3/4" (NW35CF) | 1500 | 103 | 21522-01-CF |
| 3 | 2 3/4" (NW35CF) | 1500 | 103 | 21523-01-CF |
| 4 | 2 3/4" (NW35CF) | 1500 | 103 | 21524-01-CF |



Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|-------------------------|--------|------------|----------------|-------------|-------|-------------|
| | | | | MIN | MAX | |
| Microdot – Single Ended | 10' | 1 kV | 2 | -65°C | 125°C | 14544-01-A |



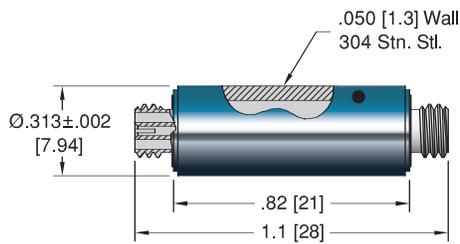
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|------------------------------------|----------------------------------|--|-----------------------|
| 0.042 Crimp Contacts Crimp Tool | Gold Plated 300 Series Stn. Stl. | Accepts wire up to 0.030 [0.76] For 0.025" – 0.075" Diameters | 14461-04-A 2840-05 |

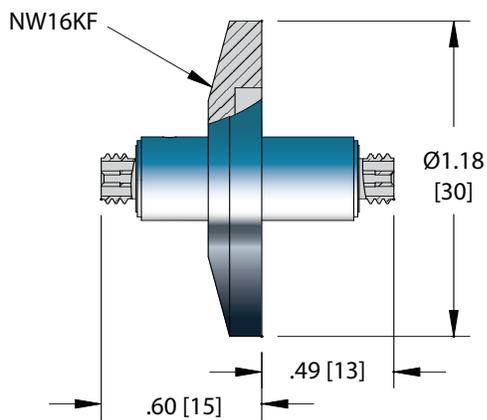
*Contacts priced and sold in packages of 5. See the Accessories section for more information on all accessories.

COAXIAL

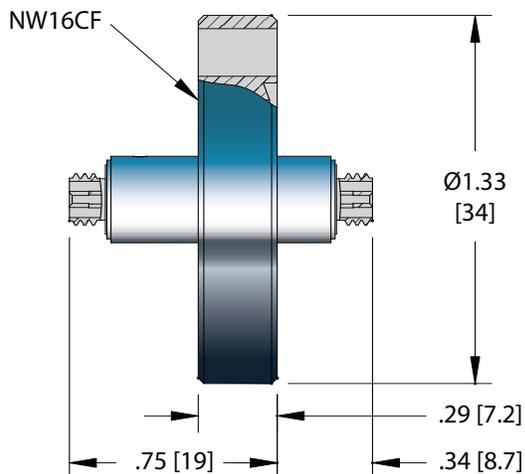
Weldable



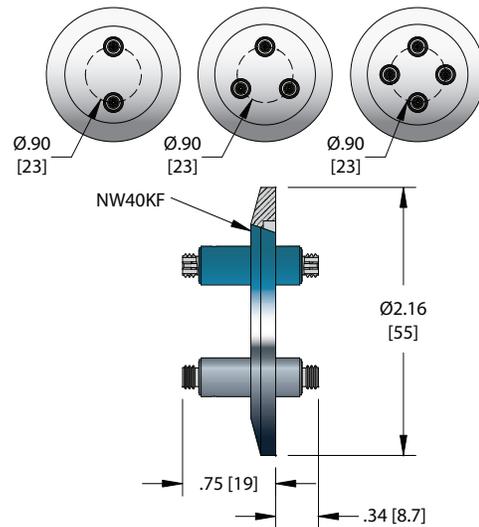
ISO KF - NW16KF



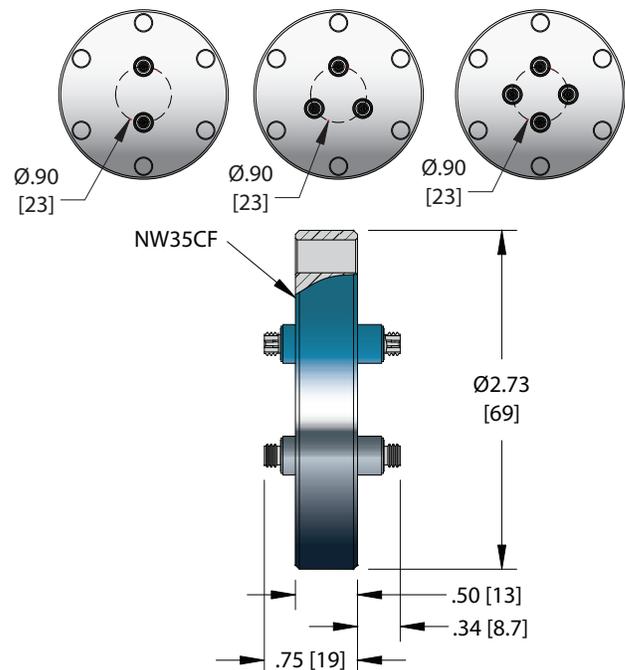
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
Contact: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 1 kV DC

Current Rating 2 Amps

Temperature Range -55°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table

| Weldable | NO. PINS | INSTALLATION | PRESSURE @ 20°C | | PART NUMBER |
|---|----------|--------------|-----------------|-----|-------------|
| | | | PSIG | BAR | |
|  | 1 | Weld | 1600 | 110 | 18044-02-W |

ISO FLANGE

| | | | | | |
|---|---|--------|---|---|-------------|
|  | 1 | NW16KF | - | - | 21511-01-KF |
| | 2 | NW40KF | - | - | 21517-01-KF |
| | 3 | NW40KF | - | - | 21518-01-KF |
| | 4 | NW40KF | - | - | 21519-01-KF |

CONFLAT FLANGE

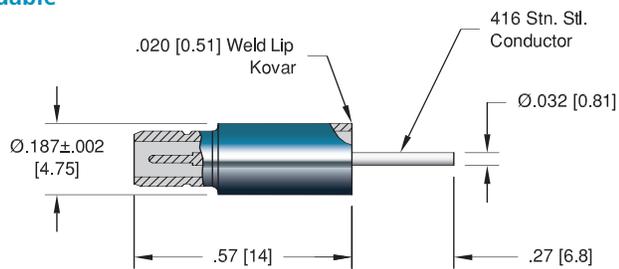
| | | | | | |
|---|---|-----------------|------|-----|-------------|
|  | 1 | 1 1/3" (NW16CF) | 1600 | 110 | 21509-01-CF |
| | 2 | 2 3/4" (NW35CF) | 1500 | 103 | 21514-01-CF |
| | 3 | 2 3/4" (NW35CF) | 1500 | 103 | 21515-01-CF |
| | 4 | 2 3/4" (NW35CF) | 1500 | 103 | 21516-01-CF |

| Air Side Cable Assembly | TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|--|----------------------------------|--------|------------|----------------|-------------|-------|-------------|
| | | | | | MIN | MAX | |
|  | Microdot Air Side – Single Ended | 10' | 1 kV | 2 | -65°C | 125°C | 14544-01-A |

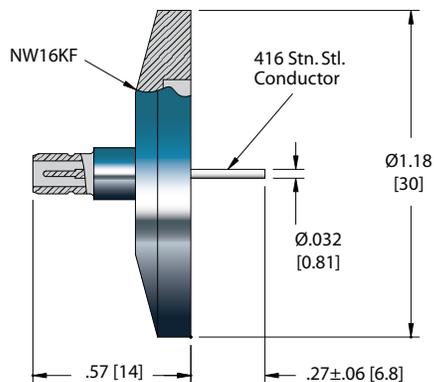
| Vacuum Side Cable Assembly | TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|--|-------------------------------------|--------|------------|----------------|-------------|-------|-------------|
| | | | | | MIN | MAX | |
|  | Microdot Vacuum Side – Double Ended | 12" | 500 V | 2 | -65°C | 125°C | 15767-12-A |
| | Microdot Vacuum Side – Double Ended | 24" | 500 V | 2 | -65°C | 125°C | 15767-24-A |
| | Microdot Vacuum Side – Double Ended | 36" | 500 V | 2 | -65°C | 125°C | 15767-36-A† |

†Shown in photo. See the Accessories section for more information on all accessories.

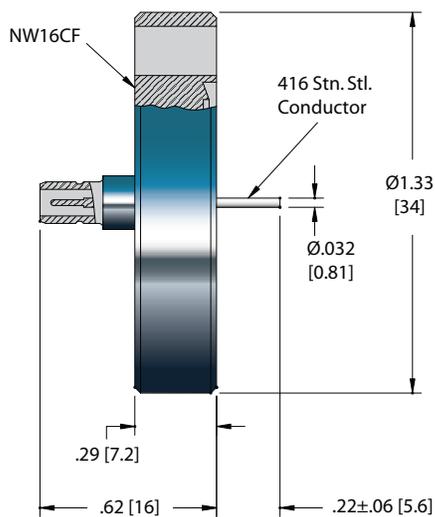
Weldable



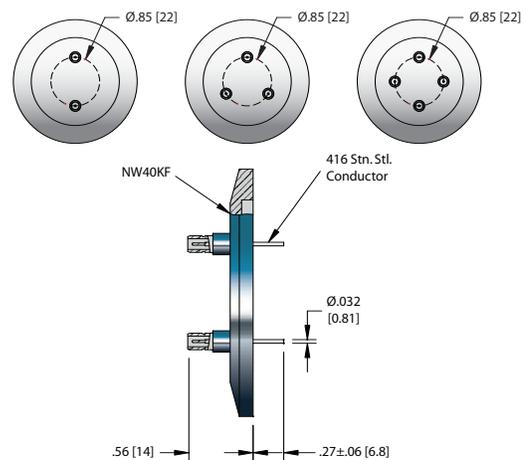
ISO KF - NW16KF



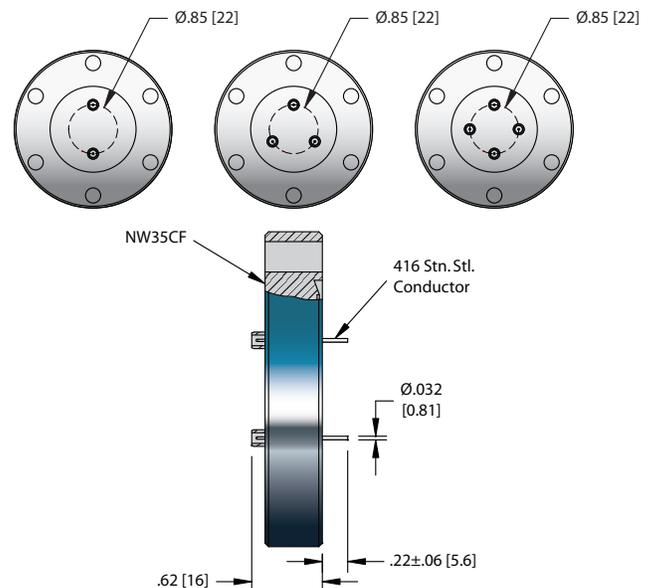
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: Kovar
Pin: 416 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 500 V DC

Current Rating 1.4 Amps

Temperature Range -55°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table



Weldable

| NO. PINS | INSTALLATION | PRESSURE @ 20°C | | PART NUMBER |
|----------|--------------|-----------------|-----|-------------|
| | | PSIG | BAR | |
| 1 | Weld | 3500 | 241 | 0713-02-W |

ISO KF

ISO FLANGE

| | | | | |
|---|--------|---|---|-------------|
| 1 | NW16KF | - | - | 21371-01-KF |
| 2 | NW40KF | - | - | 21379-01-KF |
| 3 | NW40KF | - | - | 21381-01-KF |
| 4 | NW40KF | - | - | 21383-01-KF |

ConFlat

CONFLAT FLANGE

| | | | | |
|---|-----------------|------|-----|-------------|
| 1 | 1 1/3" (NW16CF) | 3000 | 207 | 21369-01-CF |
| 2 | 2 3/4" (NW35CF) | 1500 | 103 | 21373-01-CF |
| 3 | 2 3/4" (NW35CF) | 1500 | 103 | 21375-01-CF |
| 4 | 2 3/4" (NW35CF) | 1500 | 103 | 21377-01-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|-----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 375 V | 5 | 0.25 [6.4] | 0.71 [18] | SMB Plug | 3095-12 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 50 Ohm SMB – Double Ended | 10' | 500 V | 2 | -70 | 200 | 21618-01-A |

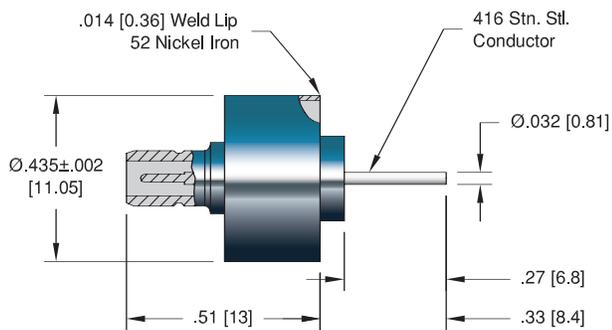
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|------------------------------------|------------------|--|-----------------------|
| 0.032 Crimp Contacts Crimp Tool | Beryllium Copper | Accepts wire up to 0.032 [0.81] For 0.025" – 0.075" Diameters | 11288-02-X 2840-05 |

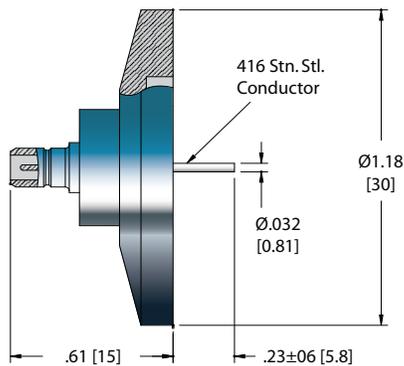
*Contacts priced and sold in packages of 10. See the Accessories section for more information on all accessories.



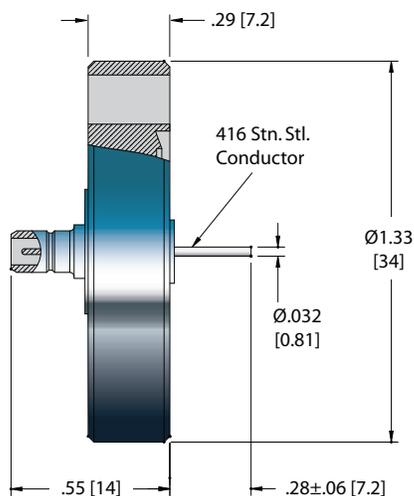
Weldable



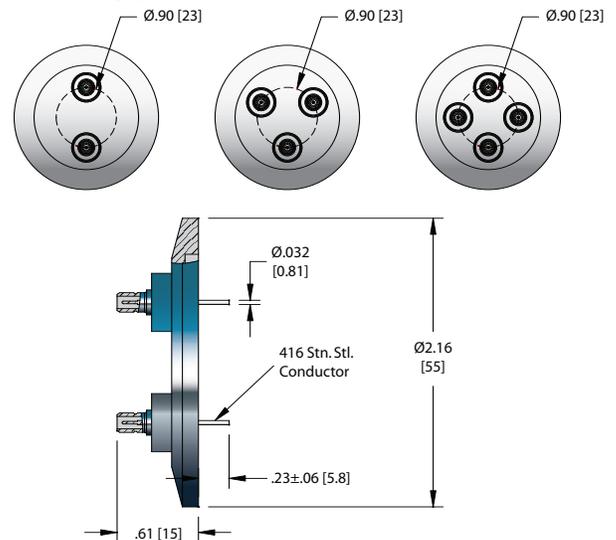
ISO KF - NW16KF



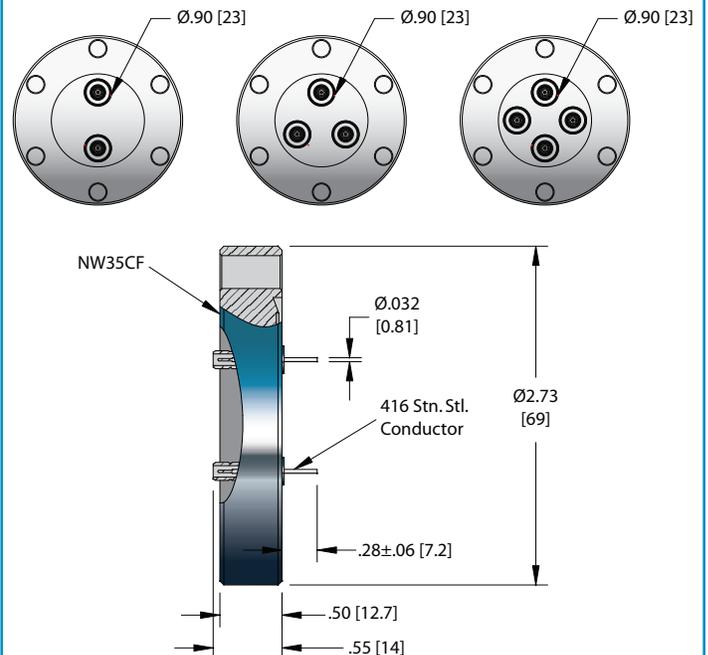
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF

Specifications
Materials

Housing: 52 Nickel Iron
Pin: 416 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating Pin/Shield: 500 V DC, Shield/Grd: 1 kV DC

Current Rating 1.4 Amps

Temperature Range -55°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 500 PSIG (35 Bar), ISO KF 0 PSIG



Weldable

| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 0714-02-W |

ISO FLANGE



ISO KF

| | | |
|---|--------|-------------|
| 1 | NW16KF | 21396-01-KF |
| 2 | NW40KF | 21403-01-KF |
| 3 | NW40KF | 21405-01-KF |
| 4 | NW40KF | 21407-01-KF |

CONFLAT FLANGE



ConFlat

| | | |
|---|-----------------|-------------|
| 1 | 1 1/3" (NW16CF) | 21394-01-CF |
| 2 | 2 3/4" (NW35CF) | 21397-01-CF |
| 3 | 2 3/4" (NW35CF) | 21399-01-CF |
| 4 | 2 3/4" (NW35CF) | 21401-01-CF |



Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|-----------|-------------|-------------|
| Air Side | 375 V | 5 | 0.25 [6.4] | 0.71 [18] | SMB Plug | 3095-12 |



Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|-----|-------------|
| 50 Ohm SMB – Double Ended | 10' | 500 V | 2 | -70 | 200 | 21618-01-A |



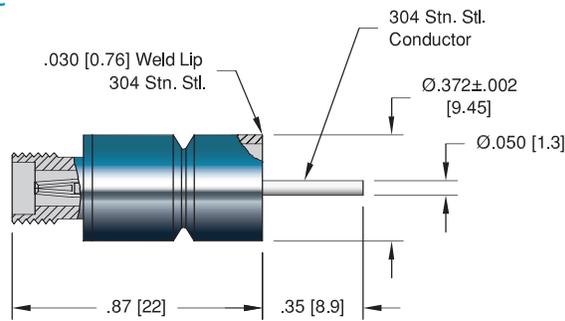
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|------------------------------------|------------------|--|-----------------------|
| 0.032 Crimp Contacts Crimp Tool | Beryllium Copper | Accepts wire up to 0.032 [0.81] For 0.025" – 0.075" Diameters | 11288-02-X 2840-05 |

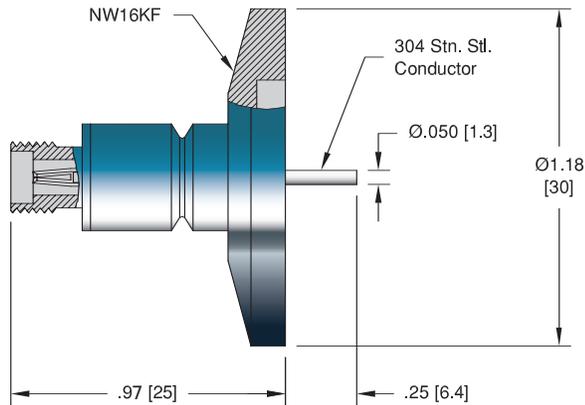
*Contacts priced and sold in packages of 10. See the Accessories section for more information on all accessories.

COAXIAL

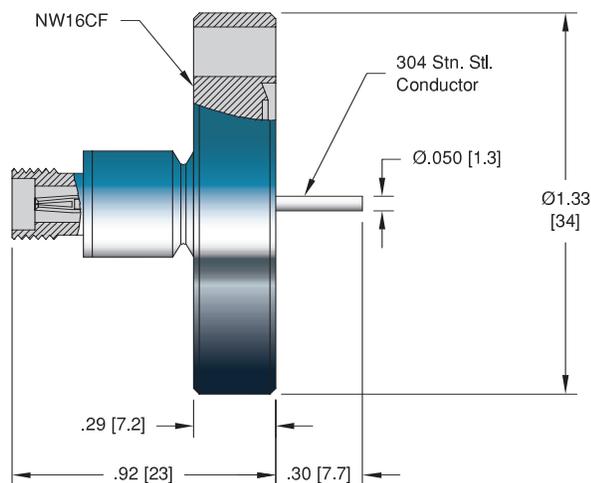
Weldable



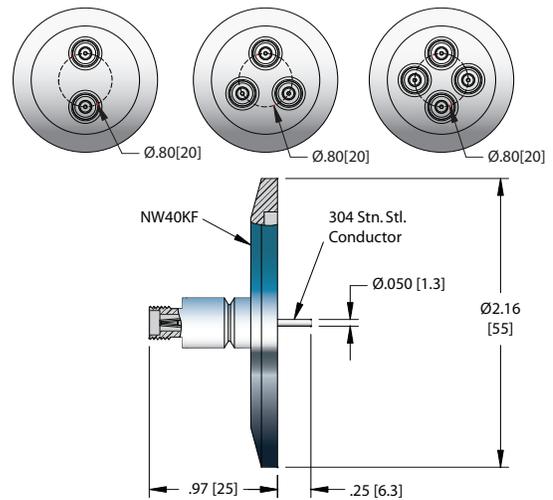
ISO KF - NW16KF



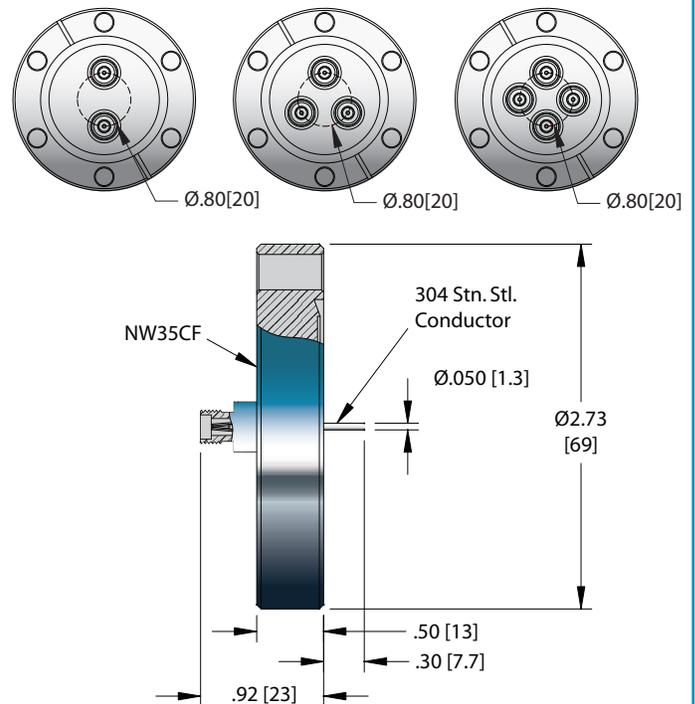
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
Pin: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: No

Voltage Rating 500 V DC

Current Rating 1.8 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table



Weldable

| NO. PINS | INSTALLATION | PRESSURE @ 20°C | | PART NUMBER |
|----------|--------------|-----------------|-----|-------------|
| | | PSIG | BAR | |
| 1 | Weld | 4000 | 276 | 8071-02-W |

ISO FLANGE



ISO KF

| | | | | |
|---|--------|---|---|-------------|
| 1 | NW16KF | - | - | 18045-02-KF |
| 2 | NW40KF | - | - | 21498-01-KF |
| 3 | NW40KF | - | - | 21499-01-KF |
| 4 | NW40KF | - | - | 21500-01-KF |

CONFLAT FLANGE



ConFlat

| | | | | |
|---|-----------------|------|-----|-------------|
| 1 | 1 1/3" (NW16CF) | 3000 | 207 | 18046-02-CF |
| 2 | 2 3/4" (NW35CF) | 1500 | 103 | 21495-01-CF |
| 3 | 2 3/4" (NW35CF) | 1500 | 103 | 21496-01-CF |
| 4 | 2 3/4" (NW35CF) | 1500 | 103 | 21497-01-CF |



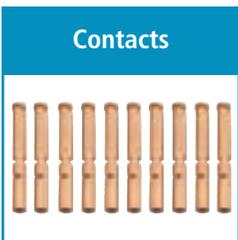
Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|-----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 500 V | 5 | 0.31 [7.9] | 0.98 [25] | SMA Plug | 6524-02 |



Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 50 Ohm SMA – Double Ended | 10' | 500 V | 5 | -70 | 200 | 21617-01-A |



Contacts

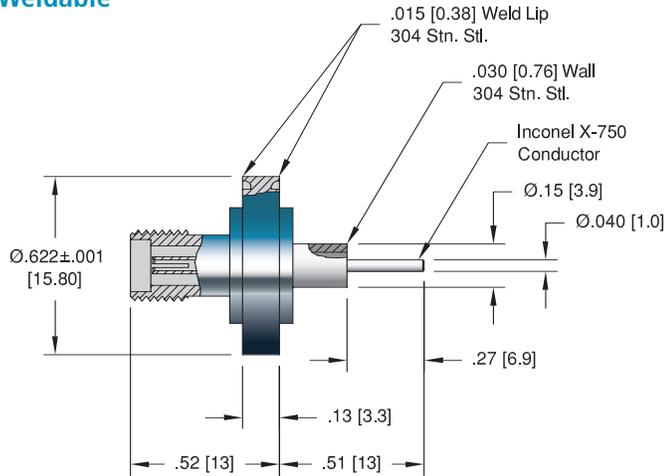
| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|-------------|
| 0.050 Crimp Contacts | Beryllium Copper | Accepts wire up to 0.062 [1.6] | 11911-02-X† |
| 0.050 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-02-A |
| 0.050 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7332-02-A |
| Crimp Tool | | For 0.025" – 0.075" Diameters | 2840-05 |

*Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.

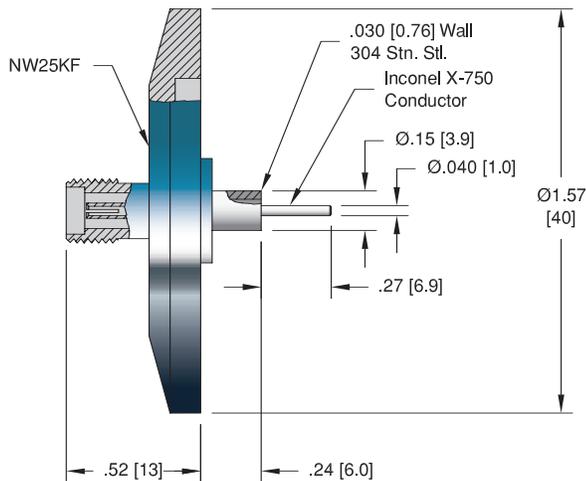
COAXIAL



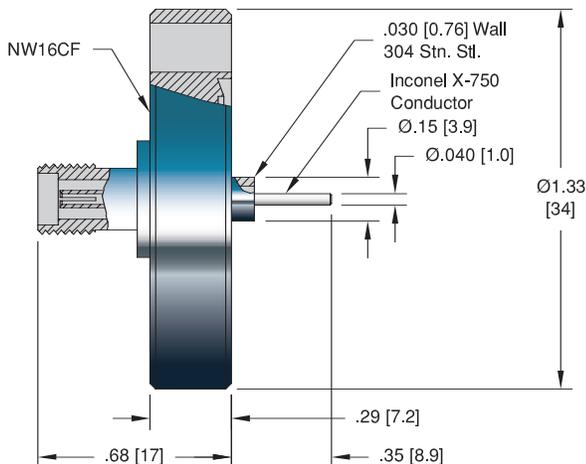
Weldable



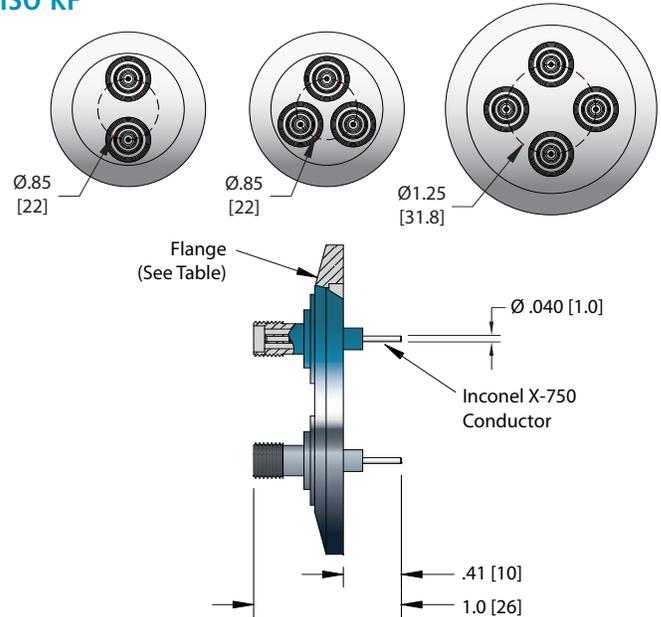
ISO KF – NW25KF



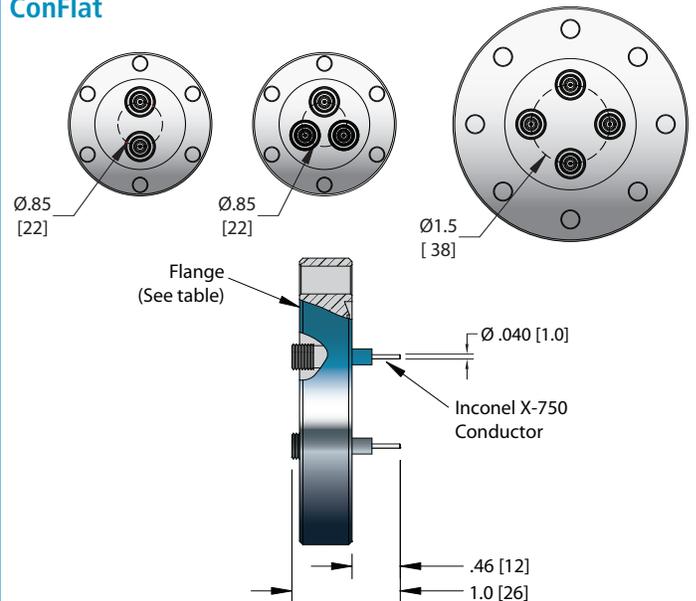
ConFlat – NW16CF



ISO KF



ConFlat



Specifications

Materials

Housing: 304 Stainless steel Insulation: Glass-ceramic
 Pin: Inconel X-750 Magnetic Materials: No
 Contacts: 300 Series Stn. Stl.

Voltage Rating 500 V DC

Current Rating 1 Amp

Temperature Range -269°C to 350°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



Single Ended Weldable

| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 15310-03-W |

Single Ended ISO KF

| ISO FLANGE | | |
|------------|--------|-------------|
| 1 | NW25KF | 18053-02-KF |
| 2 | NW40KF | 21356-01-KF |
| 3 | NW40KF | 21357-01-KF |
| 4 | NW50KF | 21361-01-KF |

Single Ended ConFlat

| CONFLAT FLANGE | | |
|----------------|-----------------|-------------|
| 1 | 1 1/3" (NW16CF) | 18054-02-CF |
| 2 | 2 3/4" (NW35CF) | 21353-01-CF |
| 3 | 2 3/4" (NW35CF) | 21358-01-CF |
| 4 | 4 1/2" (NW63CF) | 21360-01-CF |

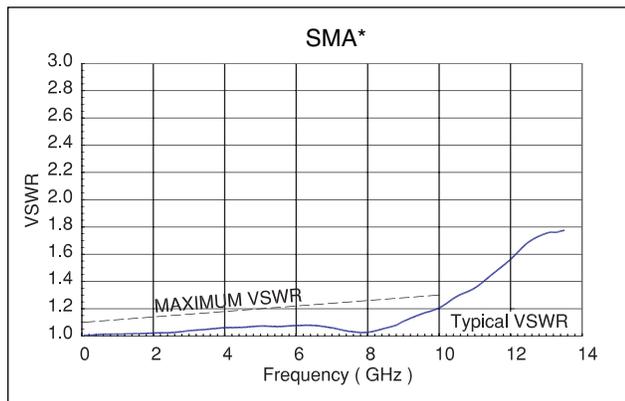
Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|-----------|-------------|-------------|
| Air Side | 500 V | 5 | 0.31 [7.9] | 0.98 [25] | SMA Plug | 6524-02 |

Air Side Cable Assembly

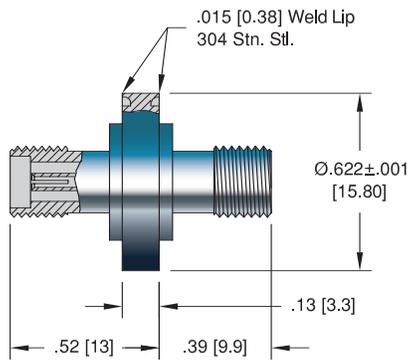
| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|-----|-------------|
| 50 Ohm SMA – Double Ended | 10' | 500 V | 5 | -70 | 200 | 21617-01-A |

See the Accessories section for more information on all accessories.

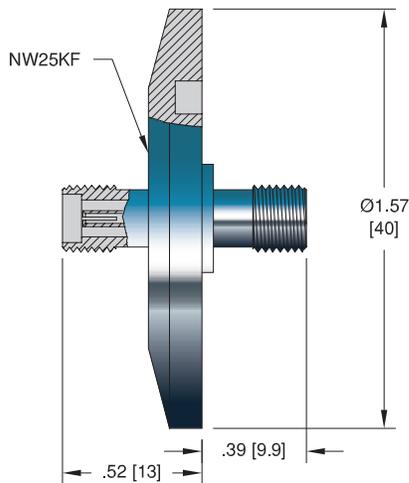


*Applies when properly mated to a 50 Ohm load.

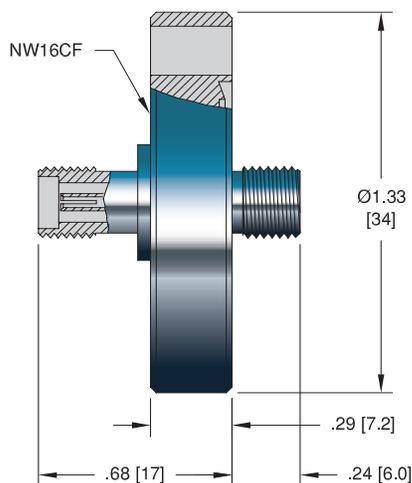
Weldable



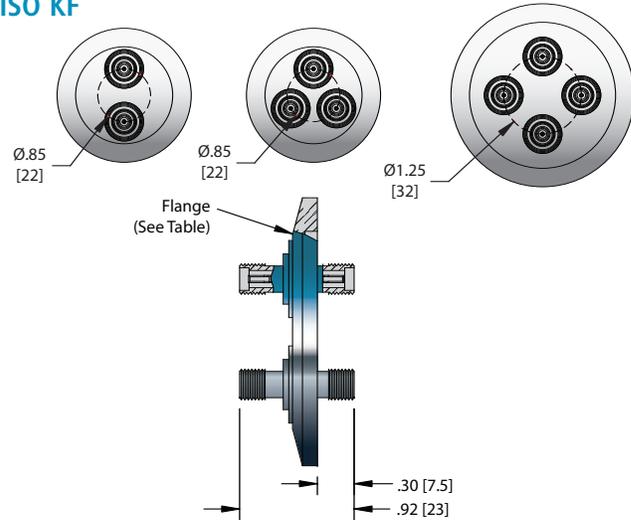
ISO KF – NW25KF



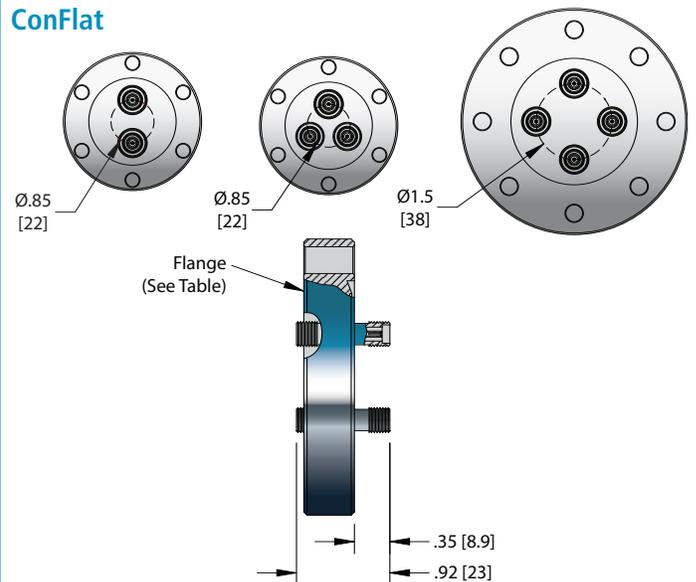
ConFlat – NW16CF



ISO KF



ConFlat



Specifications

Materials

Housing: 304 Stainless steel Insulation: Glass-ceramic
Pin: Inconel X-750 Magnetic Materials: No
Contacts: 300 Series Stn. Stl.

Voltage Rating 500 V DC

Current Rating 1 Amp

Temperature Range -269°C to 350°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 15263-03-W |

ISO FLANGE



| | | |
|---|--------|-------------|
| 1 | NW25KF | 18055-02-KF |
| 2 | NW40KF | 21365-01-KF |
| 3 | NW40KF | 21366-01-KF |
| 4 | NW50KF | 21367-01-KF |

CONFLAT FLANGE



| | | |
|---|-----------------|-------------|
| 1 | 1 1/3" (NW16CF) | 16545-01-CF |
| 2 | 2 3/4" (NW35CF) | 21362-01-CF |
| 3 | 2 3/4" (NW35CF) | 21363-01-CF |
| 4 | 4 1/2" (NW63CF) | 21364-01-CF |

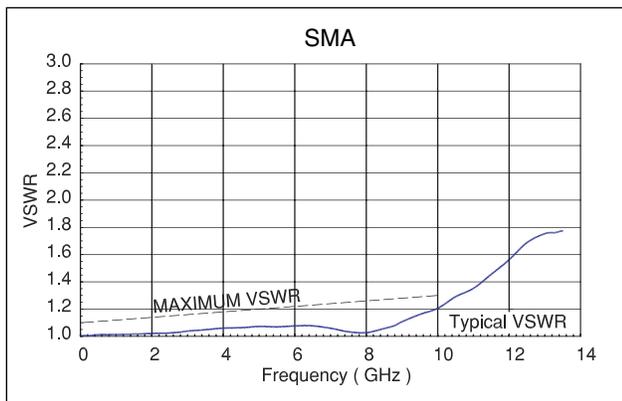


| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|-----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 500 V | 5 | 0.31 [7.9] | 0.98 [25] | SMA Plug | 6524-02 |

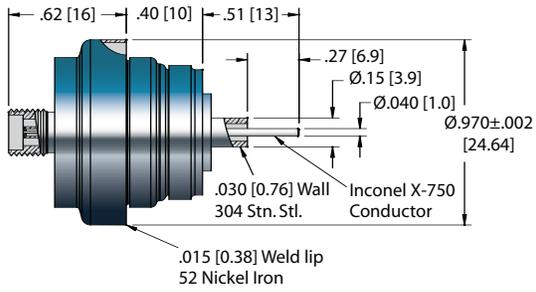


| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 50 Ohm SMA – Double Ended | 10' | 500 V | 5 | -70 | 200 | 21617-01-A |

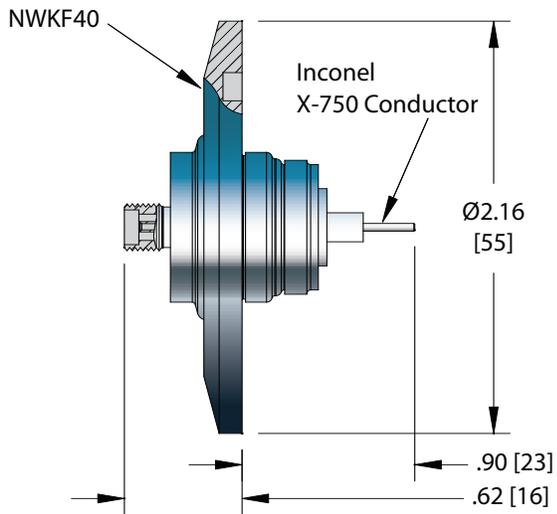
See the Accessories section for more information on all accessories.



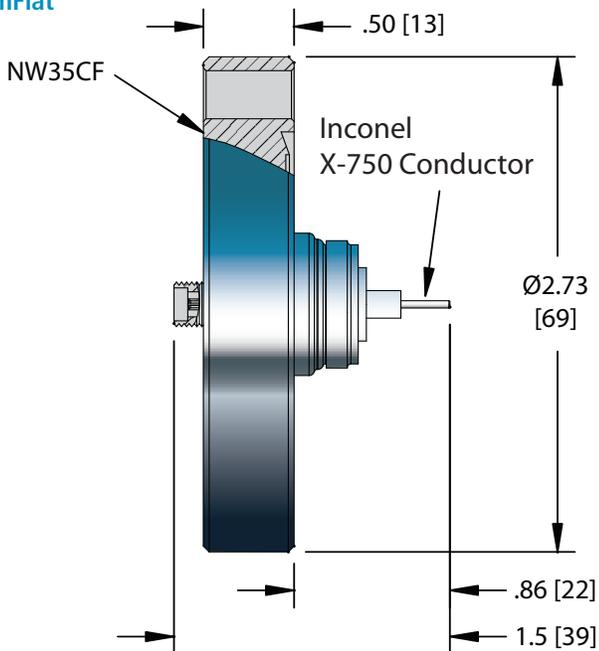
**Single Ended – Floating Shield
Weldable**



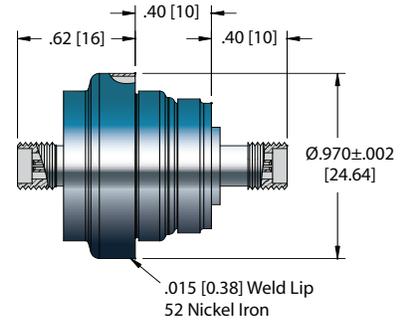
ISO KF



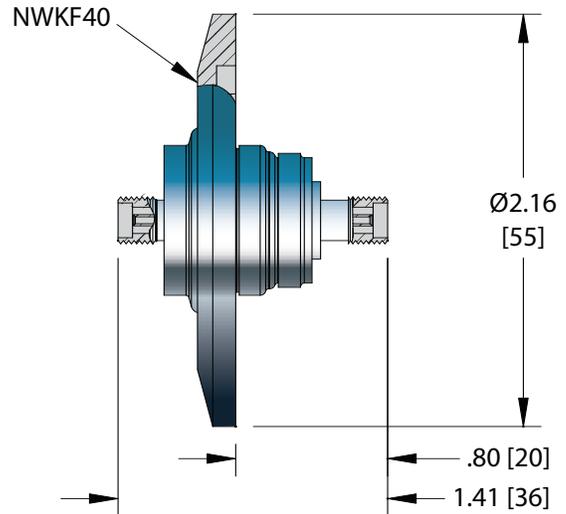
ConFlat



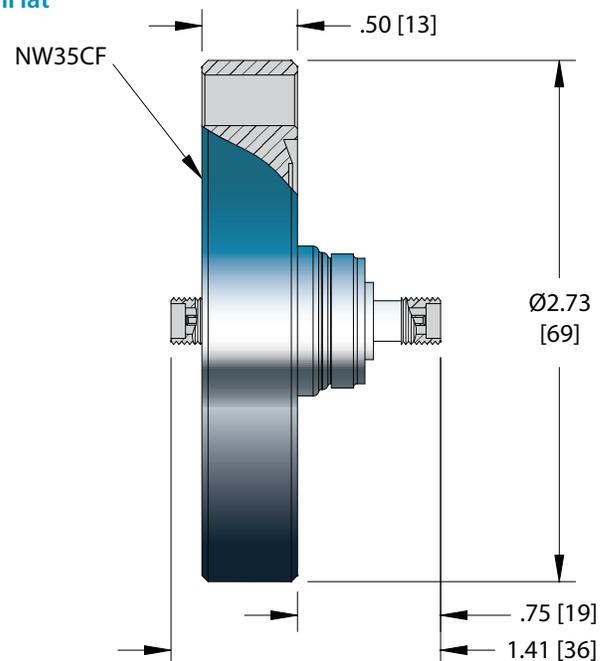
**Double Ended – Floating Shield
Weldable**



ISO KF



ConFlat



COAXIAL

Single & Double Ended Weldable



| STYLE | INSTALLATION | PART NUMBER |
|--------------|--------------|-------------|
| Single Ended | Weld | 21283-01-W |
| Double Ended | Weld | 19604-01-W† |

Single & Double Ended ISO KF



| ISO FLANGE | | |
|--------------|--------------|--------------|
| STYLE | INSTALLATION | PART NUMBER |
| Single Ended | NW40KF | 21285-01-KF |
| Double Ended | NW40KF | 21287-01-KF† |

Single & Double Ended ConFlat



| CONFLAT FLANGE | | |
|----------------|-----------------|--------------|
| STYLE | INSTALLATION | PART NUMBER |
| Single Ended | 2 3/4" (NW35CF) | 21284-01-CF |
| Double Ended | 2 3/4" (NW35CF) | 21286-01-CF† |

Air Side Plug



| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------------|-------------|-------------|
| Air Side | 500 V | 5 | 0.31 [7.9] 0.98 [25] | SMA Plug | 6524-02 |

Air Side Cable Assembly



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|-------------|
| 50 Ohm SMA – Double Ended | 10' | 500 V | 5 | -70 200 | 21617-01-A |

Contacts



| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|---------------------------|--------------------------------|-------------|
| 0.040 Crimp Contacts | Copper Alloy - Gold Flash | Accepts wire up to 0.040 [1.0] | 16167-03-A† |
| 0.040 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-03-A |
| 0.040 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.040 [1.0] | 7332-01-A |
| Crimp Tool | | For 0.025" – 0.075" Diameters | 2840-05 |

*Contacts priced and sold in packages of 5. **Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.

Specifications

Materials

Housing: 52 Nickel Iron Insulation: Glass-ceramic & Alumina ceramic

Pin: Inconel X-750 Magnetic Materials: Yes

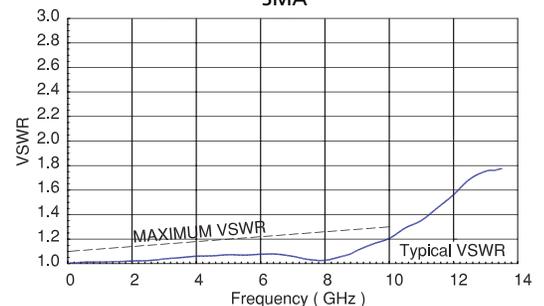
Voltage Rating Pin/Shield: 500 V DC, Shield/Gnd: 2.5 kV DC

Current Rating 1 Amp

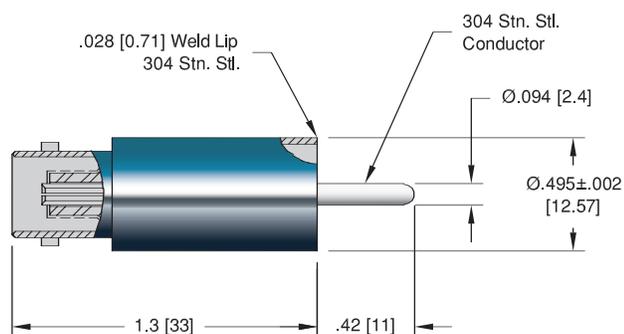
Temperature Range -269°C to 350°C, ISO KF -25°C to 205°C

Pressure @ 20°C 300 PSIG (20 Bar), ISO KF 0 PSIG

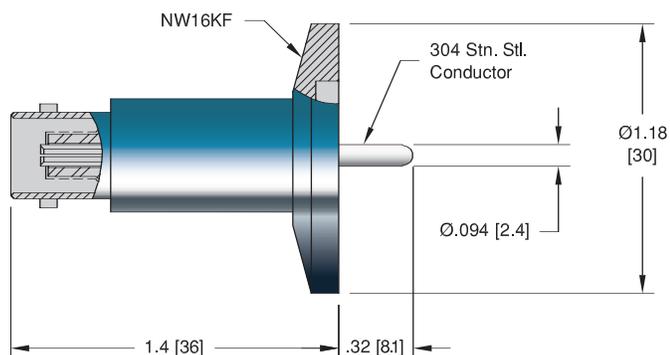
SMA



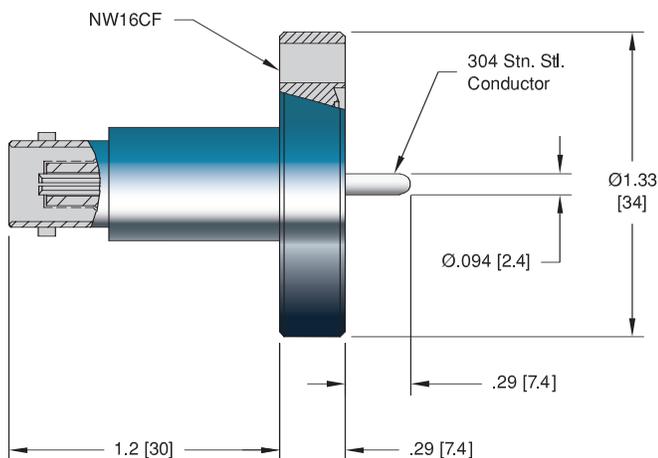
Weldable



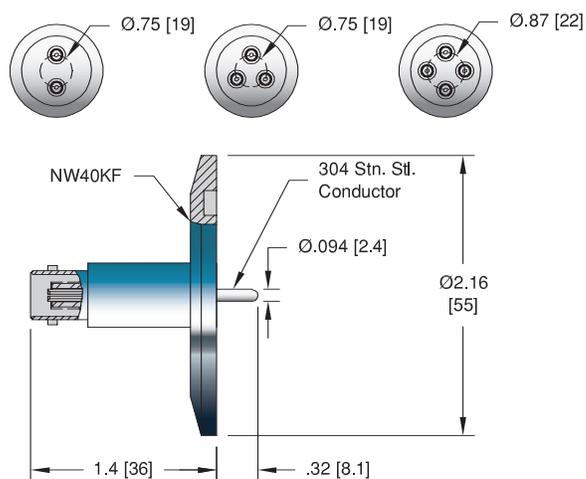
ISO KF - NW16KF



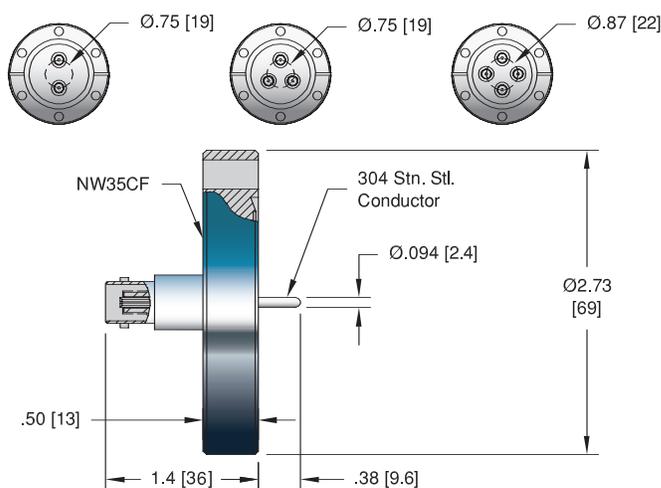
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
 Pin: 304 Stainless steel
 Insulation: Alumina ceramic
 Magnetic Materials: No

Voltage Rating 500 V DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



Single Ended Weldable



| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 7007-02-W |

Single Ended ISO KF



ISO FLANGE

| | | |
|---|--------|-------------|
| 1 | NW16KF | 17114-01-KF |
| 1 | NW40KF | 17114-05-KF |
| 2 | NW40KF | 17136-01-KF |
| 3 | NW40KF | 17137-01-KF |
| 4 | NW40KF | 17138-01-KF |

Single Ended ConFlat



CONFLAT FLANGE

| | | |
|---|-------------------------|------------|
| 1 | 1 1/3" ConFlat (NW16CF) | 7593-02-CF |
| 1 | 2 3/4" ConFlat (NW35CF) | 7592-02-CF |
| 2 | 2 3/4" ConFlat (NW35CF) | 5822-04-CF |
| 3 | 2 3/4" ConFlat (NW35CF) | 6647-04-CF |
| 4 | 2 3/4" ConFlat (NW35CF) | 7184-05-CF |

Air Side Plug



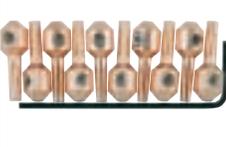
| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|-------------|-------------|
| Air Side | 500 V | 5 | 0.56 [14] | 1.1 [27] | BNC Plug | 7116-02 |

Air Side Cable Assembly



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 50 Ohm BNC – Double Ended | 10' | 500 V | 5 | -40 | 85 | 18921-01-A |

Contacts

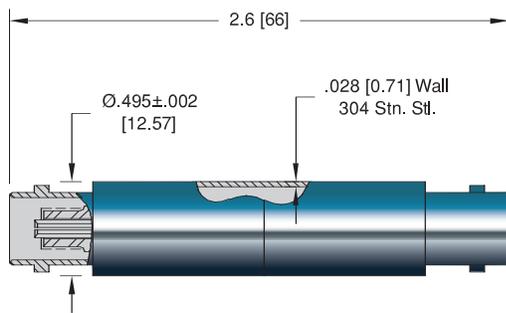


| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|-------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A† |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

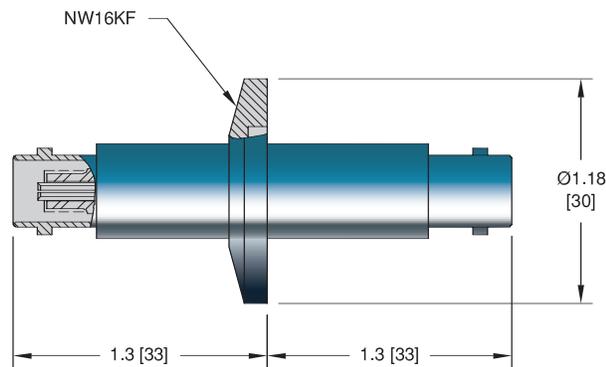
*Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.

COAXIAL

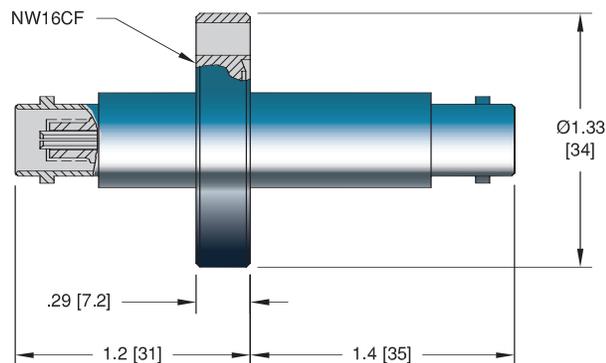
Weldable



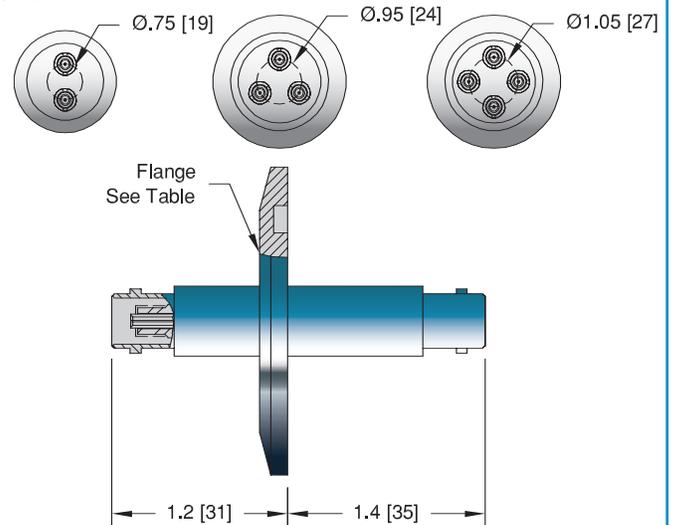
ISO KF - NW16KF



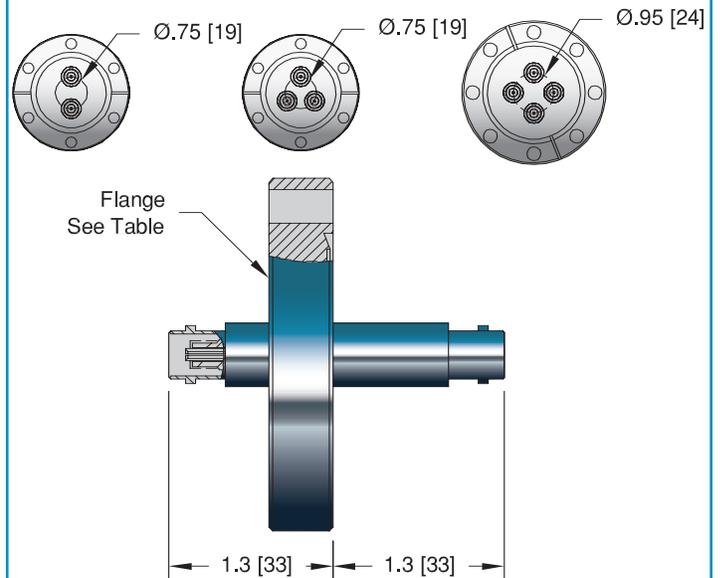
ConFlat - NW16CF



ISO KF



ConFlat



Specifications

Materials

Housing: 304 Stainless steel
 Pin: 304 Stainless steel
 Insulation: Alumina ceramic
 Magnetic Materials: No

Voltage Rating 500 V DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



Double Ended Weldable

| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 17115-01-W |

Double Ended ISO KF

ISO FLANGE

| | | |
|---|--------|-------------|
| 1 | NW16KF | 17116-01-KF |
| 1 | NW40KF | 17118-01-KF |
| 2 | NW40KF | 17118-05-KF |
| 3 | NW50KF | 17122-01-KF |
| 4 | NW50KF | 17139-01-KF |

Double Ended ConFlat

CONFLAT FLANGE

| | | |
|---|-------------------------|-------------|
| 1 | 1 1/3" ConFlat (NW16CF) | 17117-01-CF |
| 1 | 2 3/4" ConFlat (NW35CF) | 18604-01-CF |
| 2 | 2 3/4" ConFlat (NW35CF) | 17187-01-CF |
| 3 | 2 3/4" ConFlat (NW35CF) | 17188-01-CF |
| 4 | 3 3/8" ConFlat (NW50CF) | 17189-01-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|-------------|-------------|
| Air Side | 500 V | 5 | 0.56 [14] | 1.1 [28] | BNC Plug | 7116-02 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 50 Ohm BNC – Double Ended | 10' | 500 V | 5 | -40 | 85 | 18921-01-A |

See the Accessories section for more information on all accessories.

COAXIAL



Specifications

Materials

Housing: 52 Nickel Iron

Pin: 304 Stainless steel

Insulation: Alumina ceramic

Magnetic Materials: Yes

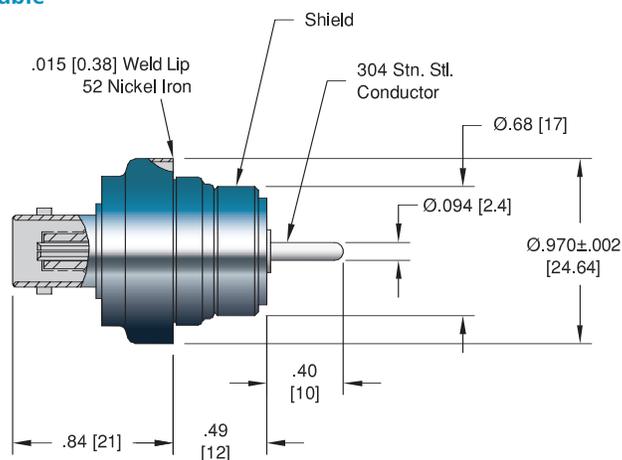
Voltage Rating Pin/Shield: 500 V DC, Shield/Gnd: 2.5 kV DC

Current Rating 3.6 Amps

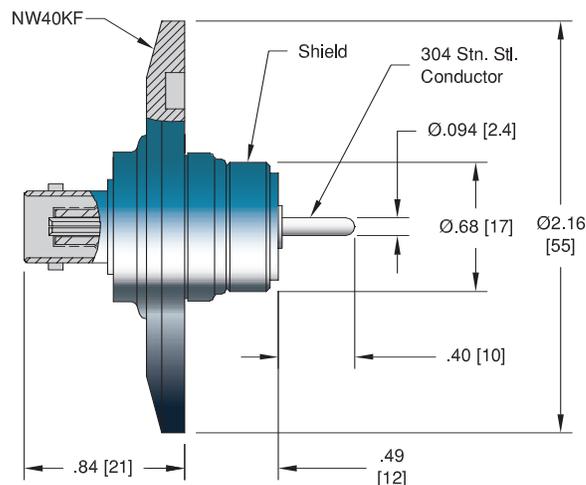
Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 300 PSIG (20 Bar), ISO KF 0 PSIG

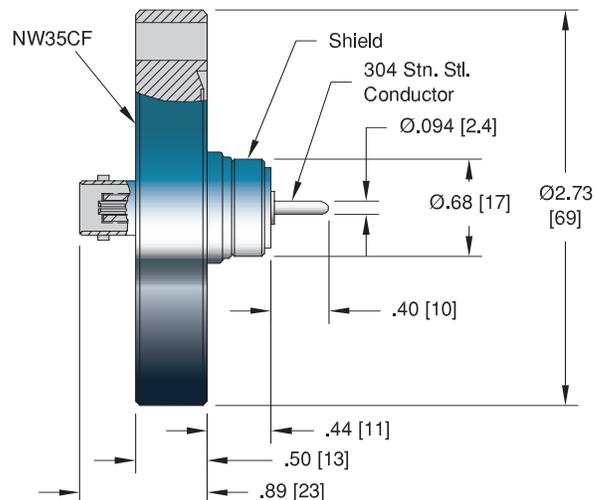
Weldable



ISO KF



ConFlat





Single Ended Weldable

| INSTALLATION | PART NUMBER |
|--------------|-------------|
| Weld | 6511-03-W |

Single Ended ISO KF

| ISO FLANGE | PART NUMBER |
|------------|-------------|
| NW40KF | 17177-01-KF |

Single Ended ConFlat

| CONFLAT FLANGE | PART NUMBER |
|-----------------|-------------|
| 2 3/4" (NW35CF) | 17178-01-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 500 V | 5 | 0.56 [14] | 1.1 [28] | BNC Plug | 7116-02 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 50 Ohm BNC – Double Ended | 10' | 500 V | 5 | -40 | 85 | 18921-01-A |

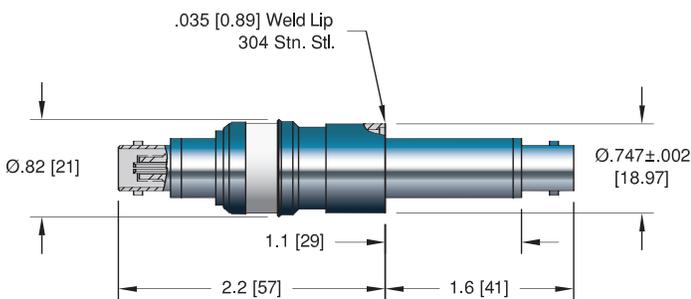
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|------------------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A [†] |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

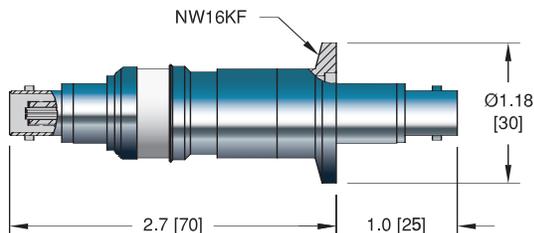
*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

COAXIAL

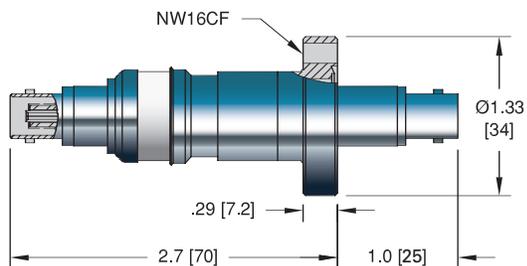
Weldable



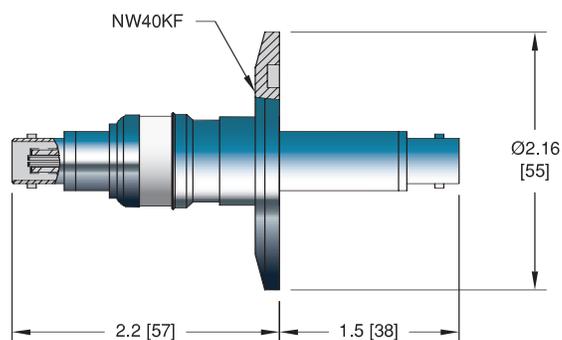
ISO KF - NW16KF



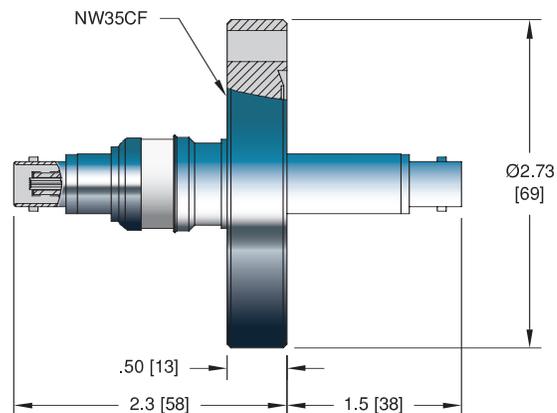
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
 Pin: 304 Stainless steel
 Insulation: Alumina ceramic
 Magnetic Materials: Yes

Voltage Rating Pin/Shield: 500 V DC, Shield/Gnd: 2.5 kV DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 400 PSIG (28 Bar), ISO KF 0 PSIG



Double Ended Weldable

| INSTALLATION | PART NUMBER |
|--------------|-------------|
| Weld | 17190-01-W |



Double Ended ISO KF

| ISO FLANGE | PART NUMBER |
|------------|-------------|
| NW16KF | 17191-01-KF |
| NW40KF | 17191-05-KF |



Double Ended ConFlat

| CONFLAT FLANGE | PART NUMBER |
|-----------------|-------------|
| 1 1/3" (NW16CF) | 17192-01-CF |
| 2 3/4" (NW35CF) | 17193-01-CF |



Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN | TEMPERATURE MAX | PART NUMBER |
|---------------------------|--------|------------|----------------|-----------------|-----------------|-------------|
| 50 Ohm BNC – Double Ended | 10' | 500 V | 5 | -40 | 85 | 18921-01-A |



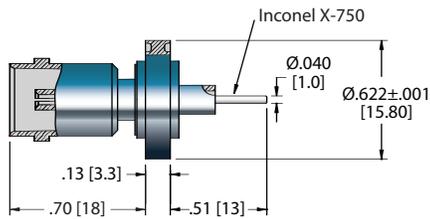
Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 500 V | 5 | 0.56 [14] | 1.1 [28] | BNC Plug | 7116-02 |

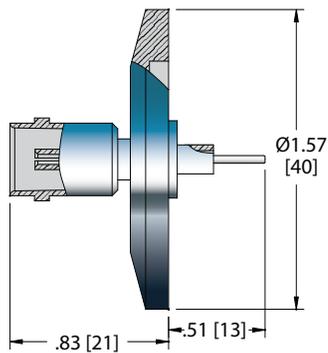
See the Accessories section for more information on all accessories.

COAXIAL

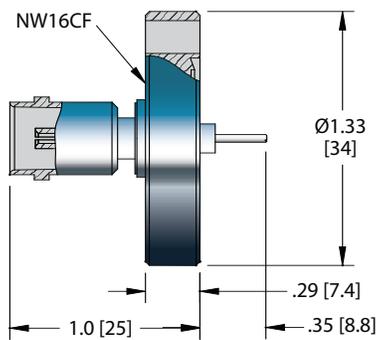
**Single Ended - Grounded Shield
Weldable**



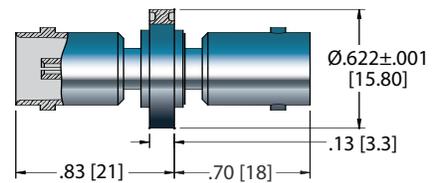
ISO KF



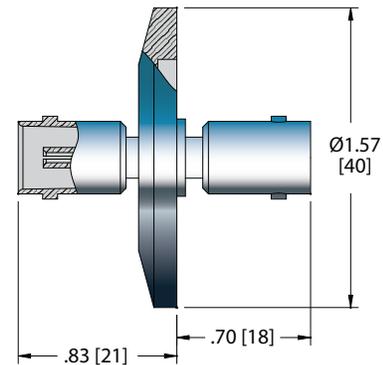
ConFlat



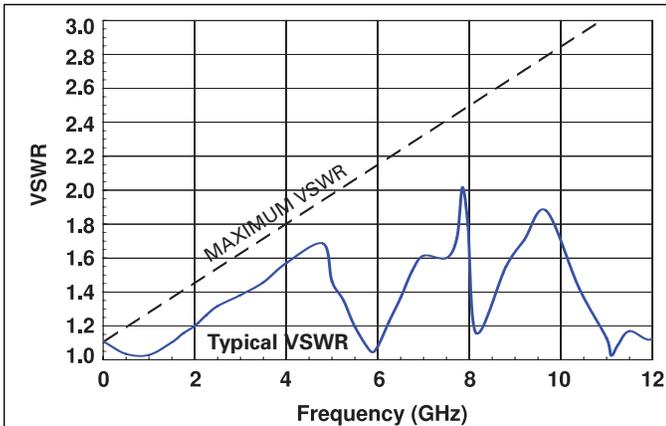
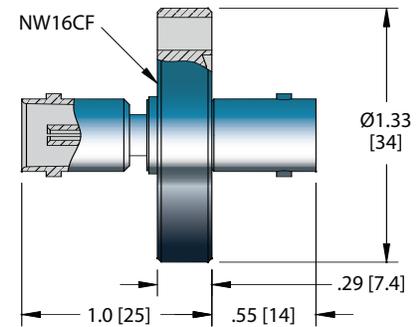
**Double Ended - Grounded Shield
Weldable**



ISO KF



ConFlat



Specifications

Materials

- Housing: 304 Stainless steel
- Pin: Inconel X-750
- Insulation: Glass-ceramic
- Magnetic Materials: No

Voltage Rating 500 V DC

Current Rating 1 Amp

Temperature Range -269°C to 350°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



Single & Double Ended Weldable



| STYLE | INSTALLATION | PART NUMBER |
|--------------|--------------|-------------|
| Single Ended | Weld | 21200-01-W |
| Double Ended | Weld | 21201-01-W |

ISO FLANGE

Single & Double Ended ISO KF



| | | |
|--------------|--------|-------------|
| Single Ended | NW25KF | 21205-01-KF |
| Double Ended | NW25KF | 21207-01-KF |

CONFLAT FLANGE

Single & Double Ended ConFlat



| | | |
|--------------|-------------------------|-------------|
| Single Ended | 1 1/3" ConFlat (NW16CF) | 21204-01-CF |
| Double Ended | 1 1/3" ConFlat (NW16CF) | 21206-01-CF |

Air Side Plug



| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 500 V | 5 | 0.56 [14] | 1.1 [28] | BNC Plug | 7116-02 |

Air Side Cable Assembly



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 50 Ohm BNC – Double Ended | 10' | 500 V | 5 | -40 | 85 | 18921-01-A |

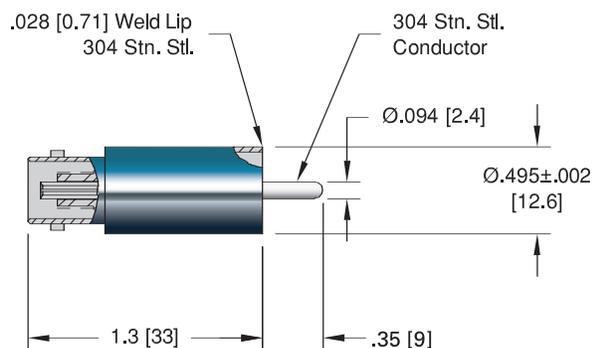
Contacts



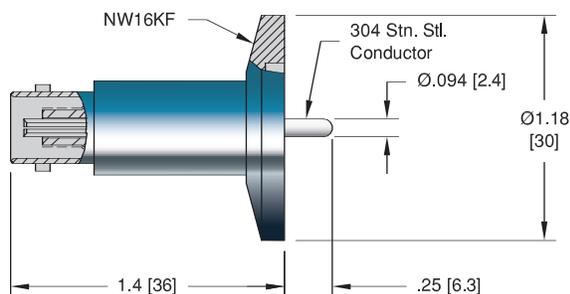
| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|---------------------|---------------------------|--------------------------------|-------------|
| Crimp Type Contacts | Copper Alloy - Gold Flash | Accepts wire up to 0.040 [1.0] | 16167-03-A |
| Crimp Tool | | For 0.025" – 0.075" Diameters | 2840-05 |

*Contacts priced and sold in packages of 5. See the Accessories section for more information on all accessories.

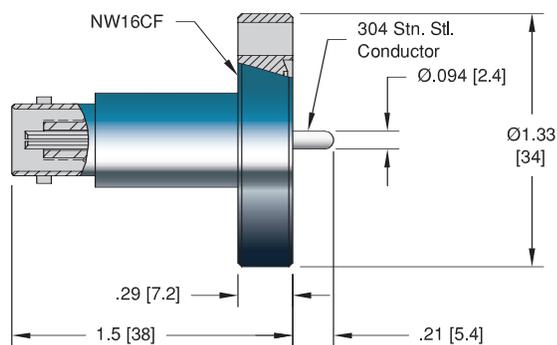
Weldable



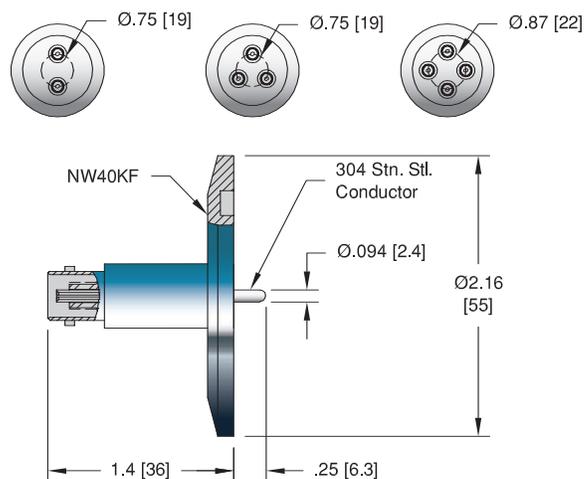
ISO KF - NW16KF



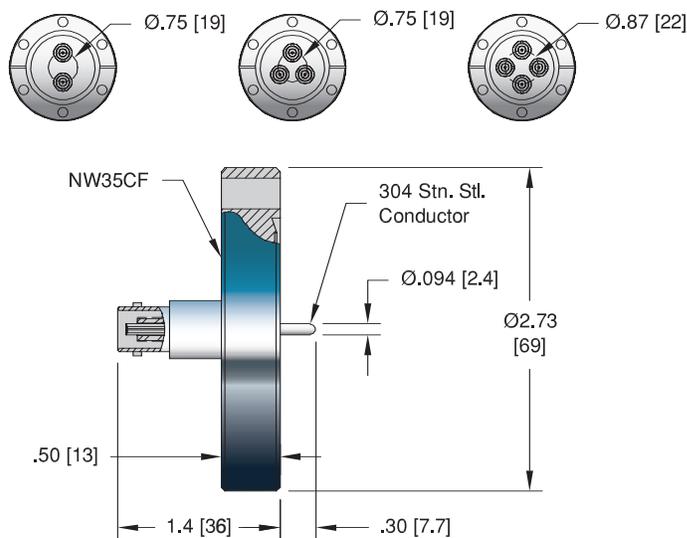
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
Pin: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: No

Voltage Rating 5 kV DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



Single Ended Weldable

| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 5230-07-W |

Single Ended ISO KF

ISO FLANGE

| | | |
|---|--------|-------------|
| 1 | NW16KF | 17114-03-KF |
| 1 | NW40KF | 17114-07-KF |
| 2 | NW40KF | 17136-03-KF |
| 3 | NW40KF | 17137-03-KF |
| 4 | NW40KF | 17138-03-KF |

Single Ended ConFlat

CONFLAT FLANGE

| | | |
|---|-------------------------|------------|
| 1 | 1 1/3" ConFlat (NW16CF) | 6924-03-CF |
| 1 | 2 3/4" ConFlat (NW35CF) | 7590-02-CF |
| 2 | 2 3/4" ConFlat (NW35CF) | 5822-05-CF |
| 3 | 2 3/4" ConFlat (NW35CF) | 6647-01-CF |
| 4 | 2 3/4" ConFlat (NW35CF) | 7184-06-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|-------------|-------------|
| Air Side | 5 kV | 10 | 0.56 [14] | 1.5 [38] | MHV Plug | 7116-01 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 52 Ohm MHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 | 18921-02-A |

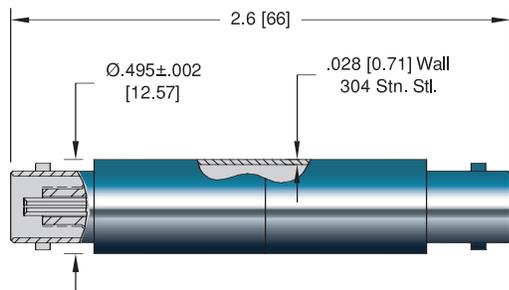
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|------------------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A [†] |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

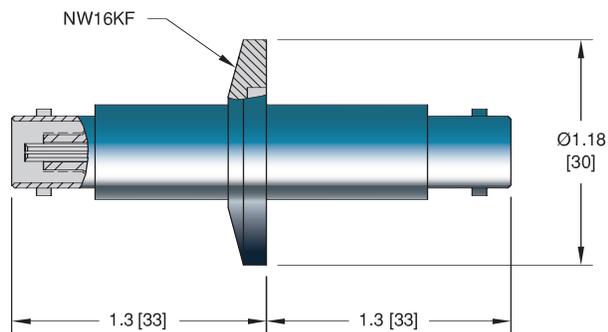
*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

COAXIAL

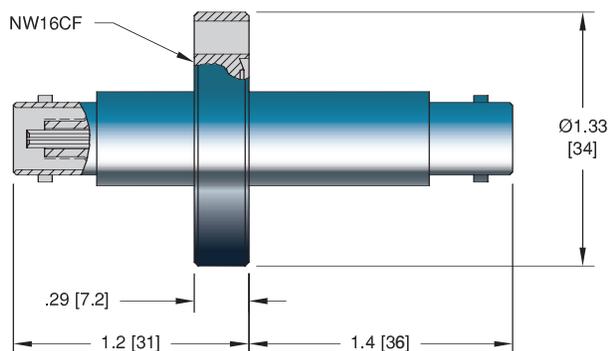
Weldable



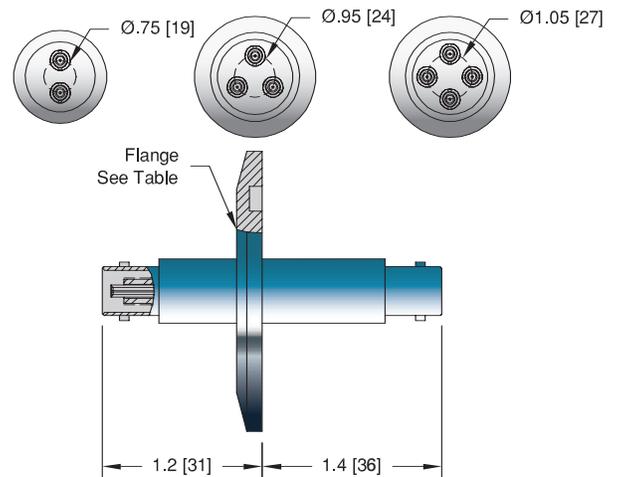
ISO KF - NW16KF



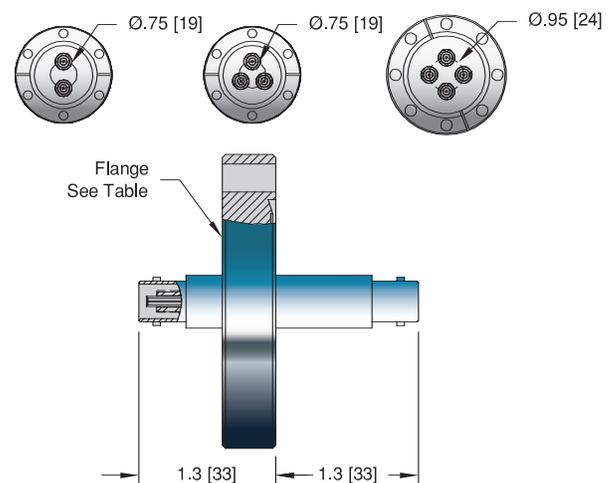
ConFlat - NW16CF



ISO KF



ConFlat



Specifications

Materials

Housing: 304 Stainless steel
Pin: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: No

Voltage Rating 5 kV DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 17115-03-W |



| ISO FLANGE | | |
|------------|--------|-------------|
| 1 | NW16KF | 17116-03-KF |
| 1 | NW40KF | 17118-03-KF |
| 2 | NW40KF | 17118-07-KF |
| 3 | NW50KF | 17122-03-KF |
| 4 | NW50KF | 17139-03-KF |



| CONFLAT FLANGE | | |
|----------------|-------------------------|-------------|
| 1 | 1 1/3" ConFlat (NW16CF) | 17117-03-CF |
| 1 | 2 3/4" ConFlat (NW35CF) | 18604-03-CF |
| 2 | 2 3/4" ConFlat (NW35CF) | 17187-03-CF |
| 3 | 2 3/4" ConFlat (NW35CF) | 17188-03-CF |
| 4 | 3 3/8" ConFlat (NW50CF) | 17189-03-CF |



| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|-------------|-------------|
| Air Side | 5 kV | 10 | 0.56 [14] | 1.5 [38] | MHV Plug | 7116-01 |



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 52 Ohm MHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 | 18921-02-A |

See the Accessories section for more information on all accessories.



Specifications

Materials

Housing: 52 Nickel Iron
Pin: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: Yes

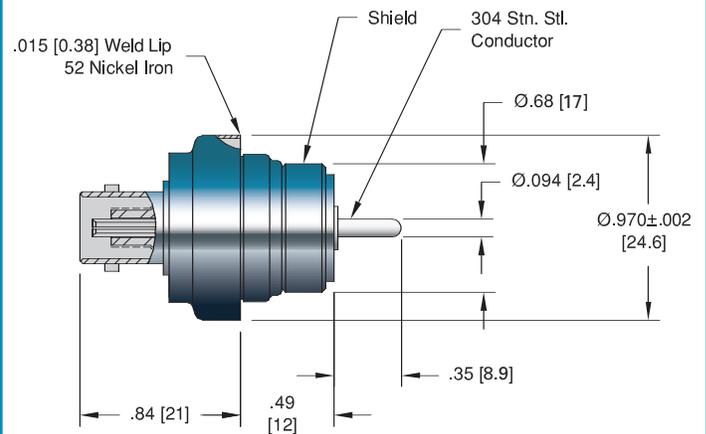
Voltage Rating Pin/Shield: 5 kV DC, Shield/Gnd: 2.5 kV DC

Current Rating 3.6 Amps

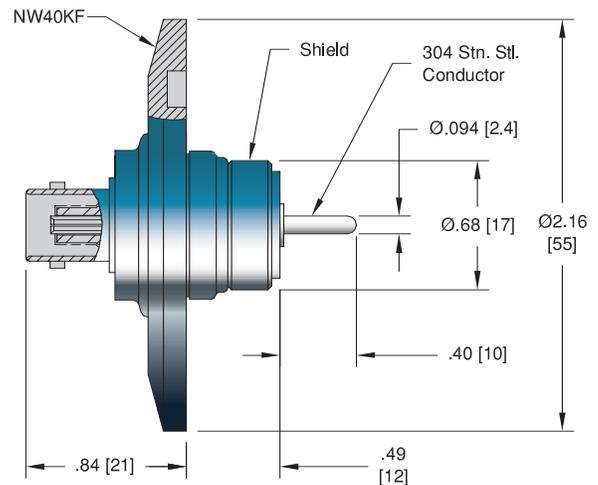
Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 300 PSIG (20 Bar), ISO KF 0 PSIG

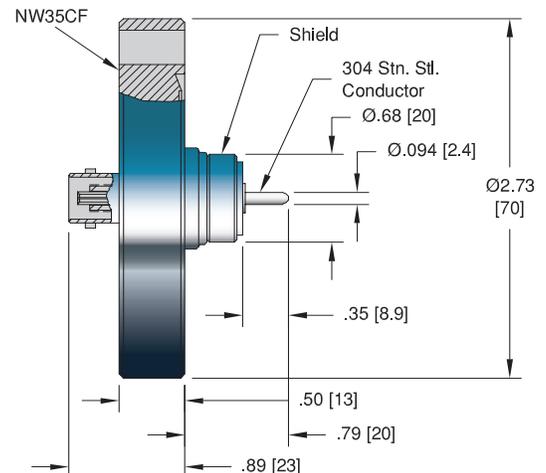
Weldable



ISO KF



ConFlat





Single Ended Weldable

| INSTALLATION | PART NUMBER |
|--------------|-------------|
| Weld | 6511-04-W |

Single Ended ISO KF

| ISO FLANGE | PART NUMBER |
|------------|-------------|
| NW40KF | 17177-03-KF |

Single Ended ConFlat

| CONFLAT FLANGE | PART NUMBER |
|-----------------|-------------|
| 2 3/4" (NW35CF) | 17178-03-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 5 kV | 10 | 0.56 [14] | 1.5 [38] | MHV Plug | 7116-01 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 52 Ohm MHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 | 18921-02-A |

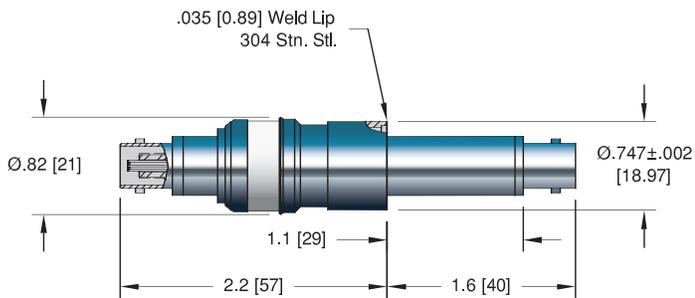
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|------------------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A [†] |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

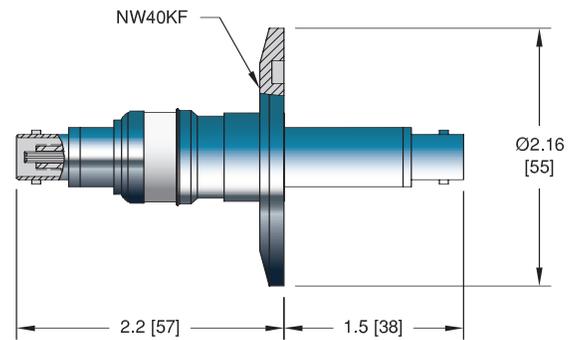
*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

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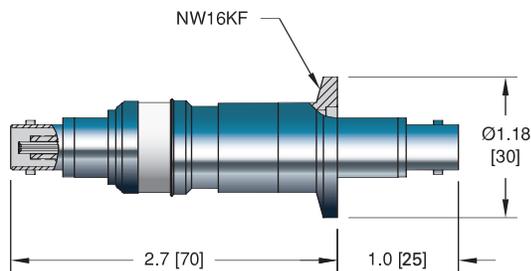
Weldable



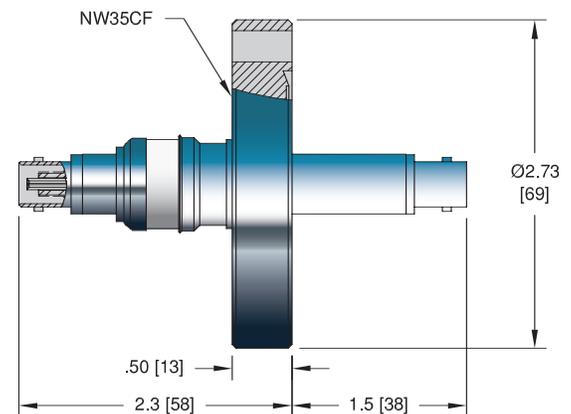
ISO KF - NW40KF



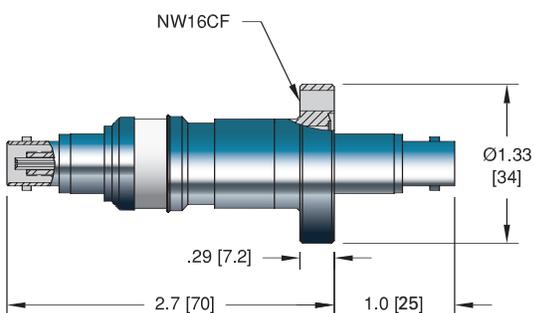
ISO KF - NW16KF



ConFlat - NW35CF



ConFlat - NW16CF



Specifications

Materials

Housing: 304 Stainless steel
Pin: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating Pin/Shield: 5 kV DC, Shield/Gnd: 2.5 kV DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 400 PSIG (28 Bar), ISO KF 0 PSIG



Double Ended Weldable

| INSTALLATION | PART NUMBER |
|--------------|-------------|
| Weld | 17190-03-W |

Double Ended ISO KF

| ISO FLANGE | PART NUMBER |
|------------|-------------|
| NW16KF | 17191-03-KF |
| NW40KF | 17191-07-KF |

Double Ended ConFlat

| CONFLAT FLANGE | PART NUMBER |
|-----------------|-------------|
| 1 1/3" (NW16CF) | 17192-03-CF |
| 2 3/4" (NW35CF) | 17193-03-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|-------------|-------------|
| Air Side | 5 kV | 10 | 0.56 [14] | 1.5 [38] | MHV Plug | 7116-01 |

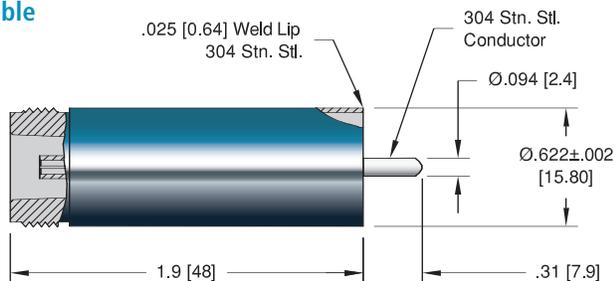
Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 52 Ohm MHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 | 18921-02-A |

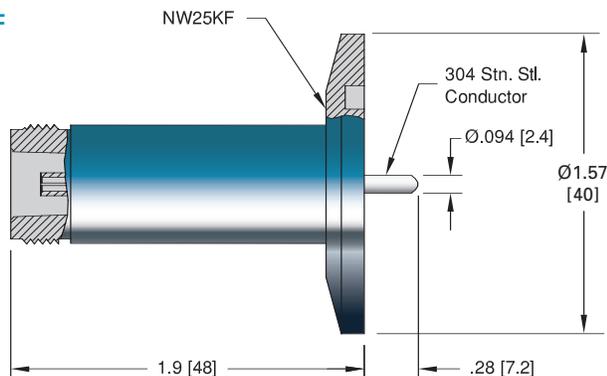
See the Accessories section for more information on all accessories.

COAXIAL

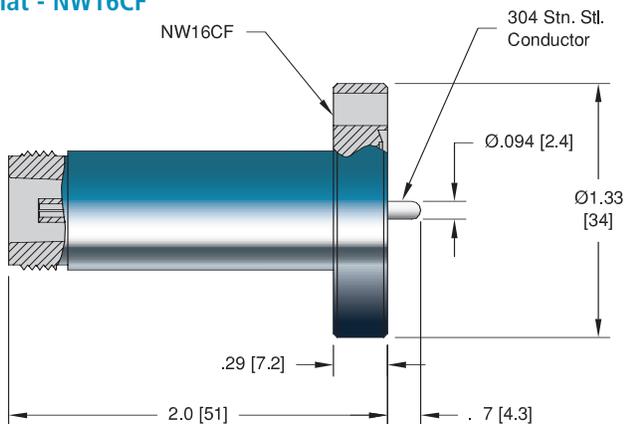
Single Ended – Grounded Shield Weldable



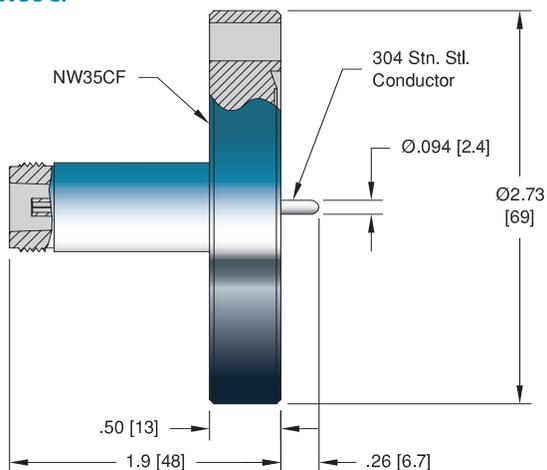
ISO KF



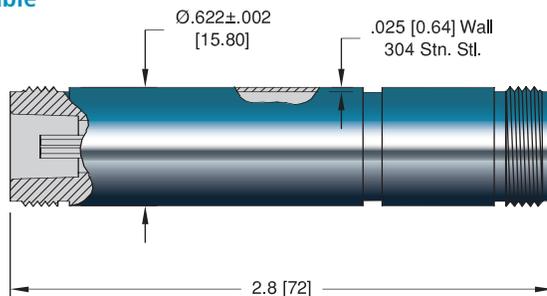
ConFlat - NW16CF



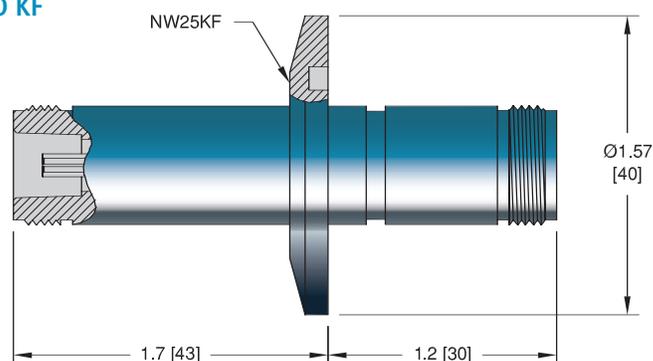
ConFlat - NW35CF



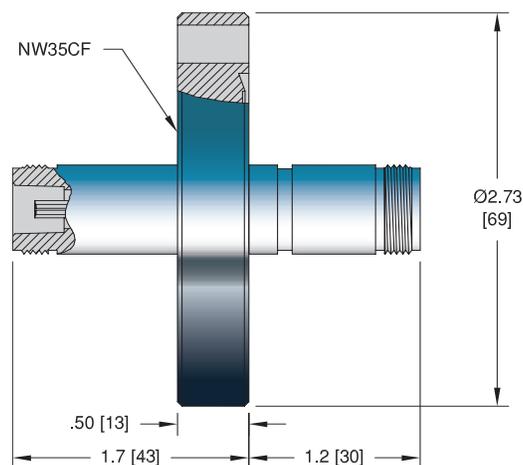
Double Ended – Grounded Shield Weldable



ISO KF



ConFlat



Specifications

Materials

Housing: 304 Stainless steel
Pin: 304 Stainless steel
Insulation: Alumina ceramic
Magnetic Materials: No

Voltage Rating 1.5 kV DC

Current Rating 3.6 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table

Single & Double Ended
Weldable



| STYLE | INSTALLATION | PRESSURE @ 20°C PSIG BAR | | PART NUMBER |
|--------------|--------------|-----------------------------|-----|----------------|
| Single Ended | Weld | 1800 | 124 | 7589-02-W† |
| Double Ended | Weld | 1800 | 124 | 18077-02-W |

ISO FLANGE

Single & Double Ended
ISO KF



| | | | | |
|--------------|--------|---|---|--------------|
| Single Ended | NW25KF | - | - | 18057-01-KF |
| Double Ended | NW40KF | - | - | 18078-02-KF† |

CONFLAT FLANGE

Single & Double Ended
ConFlat



| | | | | |
|--------------|-----------------|------|-----|-------------|
| Single Ended | 1 1/3" (NW16CF) | 1800 | 124 | 7588-02-CF† |
| Single Ended | 2 3/4" (NW35CF) | 1500 | 103 | 7587-02-CF |
| Double Ended | 2 3/4" (NW35CF) | 1500 | 103 | 18080-02-CF |

Air Side Plug



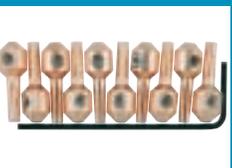
| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|---------------|-------------------|-------------------|----------|-------------|----------------|
| Air Side | 1.5 kV | 5 | 0.81 [20] | 1.5 [38] | Type N Plug | 7707-01 |

Air Side Cable
Assembly



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|------------------------------|--------|---------------|-------------------|------------------------|----|----------------|
| 50 Ohm Type N – Double Ended | 10' | 1.5 kV | 5 | -55 | 85 | 21619-01-A |

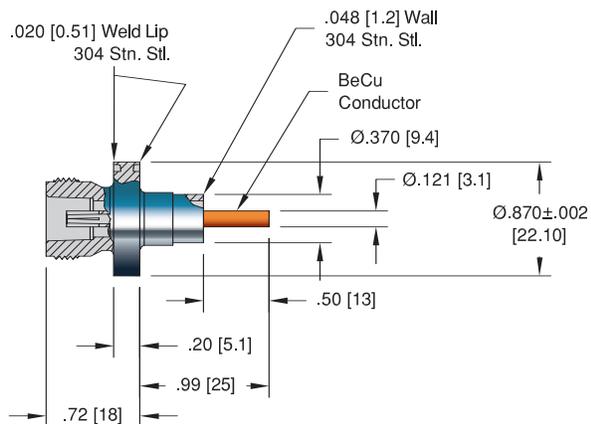
Contacts



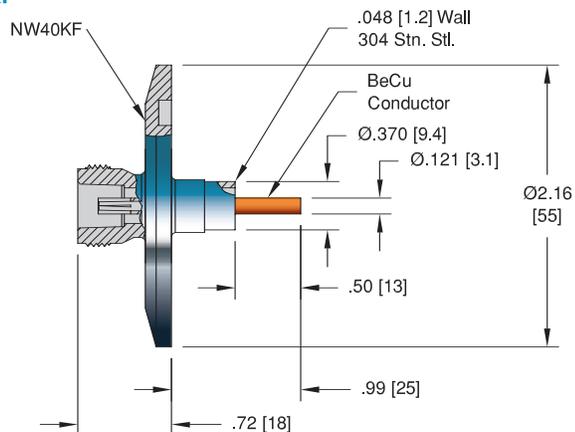
| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|----------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A† |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

*Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.

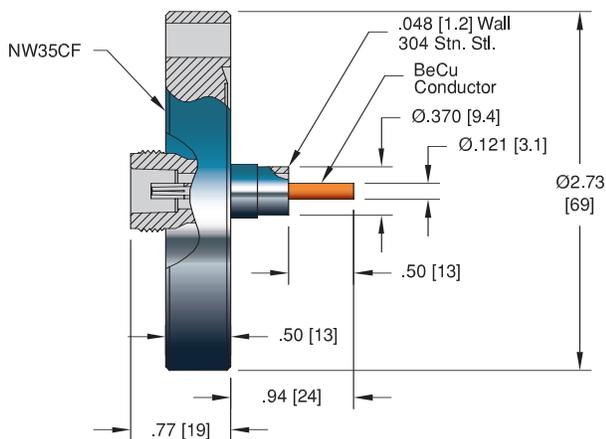
Single Ended – Grounded Shield Weldable



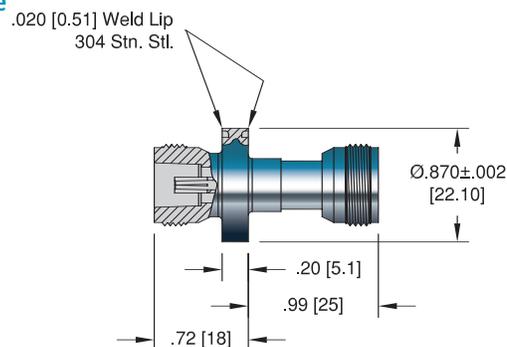
ISO KF



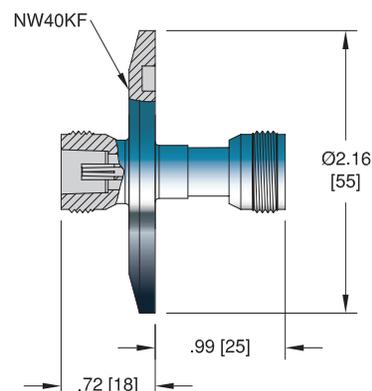
ConFlat



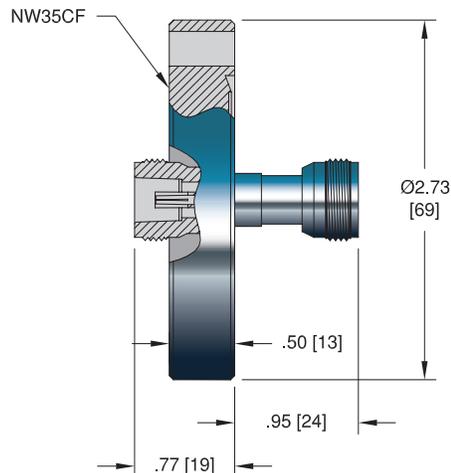
Double Ended – Grounded Shield Weldable



ISO KF



ConFlat



Specifications

Materials

Housing: 304 Stainless steel
Pin/Contact: Beryllium Copper
Insulation: Glass-ceramic
Magnetic Materials: No

Voltage Rating 1.5 kV DC

Current Rating 1 Amp

Temperature Range -200°C to 225°C, ISO KF -25°C to 205°C

Pressure @ 20°C 500 PSIG (34 Bar), ISO KF 0 PSIG



Single & Double Ended
Weldable



| STYLE | INSTALLATION | PART NUMBER |
|--------------|--------------|-------------|
| Single Ended | Weld | 18066-01-W† |
| Double Ended | Weld | 18069-01-W |

ISO FLANGE

Single & Double Ended
ISO KF



| | | |
|--------------|--------|--------------|
| Single Ended | NW40KF | 18067-01-KF |
| Double Ended | NW40KF | 18070-01-KF† |

CONFLAT FLANGE

Single & Double Ended
ConFlat



| | | |
|--------------|-----------------|--------------|
| Single Ended | 2 3/4" (NW35CF) | 18068-01-CF† |
| Double Ended | 2 3/4" (NW35CF) | 18071-01-CF |

Air Side Plug



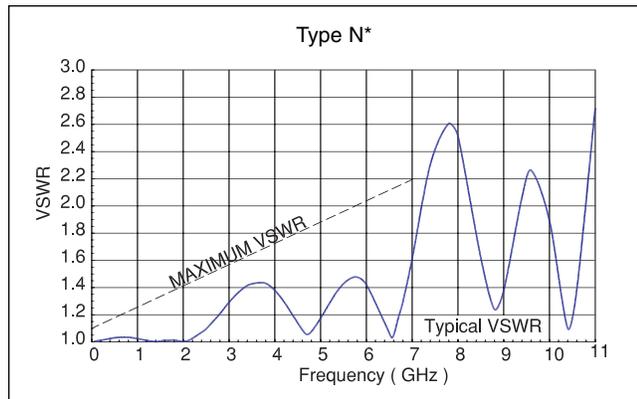
| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|-------------|-------------|
| Air Side | 1.5 kV | 5 | 0.81 [20] | 1.5 [38] | Type N Plug | 7707-01 |

Air Side Cable
Assembly



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|------------------------------|--------|------------|----------------|---------------------|----|-------------|
| 50 Ohm Type N – Double Ended | 10' | 1.5 kV | 5 | -55 | 85 | 21619-01-A |

†Shown in photo. See the Accessories section for more information on all accessories.



*Applies when properly mated to a 50 Ohm load.



Specifications

Materials

Housing: 304 Stainless steel
 Pin: 70/30 Copper Nickel
 Insulation: Alumina ceramic
 Magnetic Materials: No

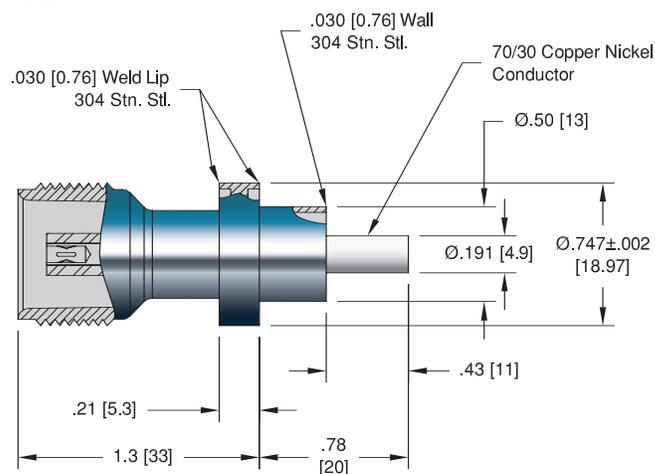
Voltage Rating 7 kV DC

Current Rating 7 Amps

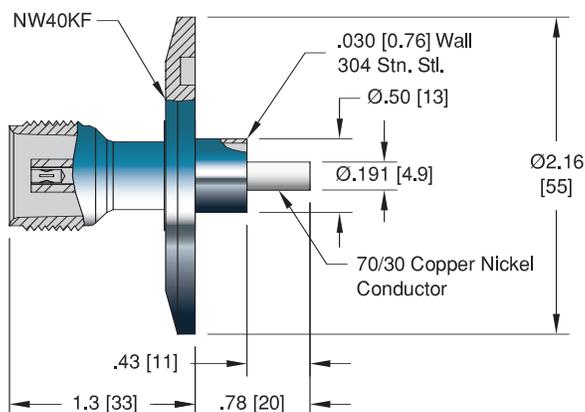
Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 320 PSIG (22 Bar), ISO KF 0 PSIG

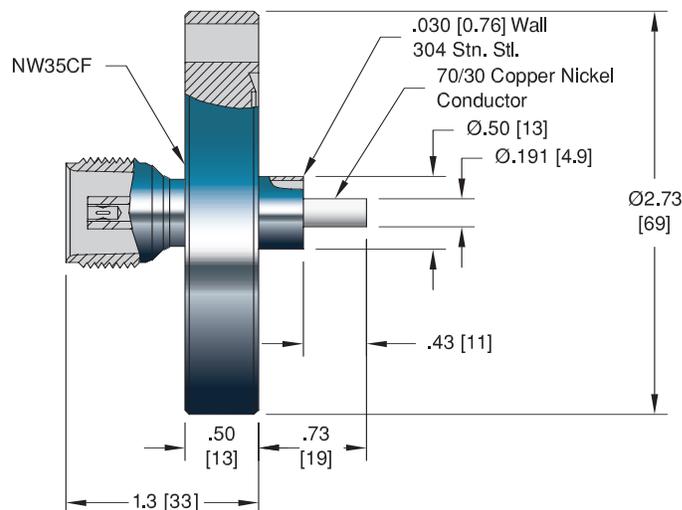
Single Ended – Grounded Shield Weldable



ISO KF



ConFlat





COAXIAL

Weldable

| INSTALLATION | |
|--------------|--|
| Weld | |

| PART NUMBER |
|-------------|
| 1084-01-W |

ISO KF

| ISO FLANGE | |
|------------|--|
| NW40KF | |

| PART NUMBER |
|-------------|
| 18072-01-KF |

ConFlat

| CONFLAT FLANGE | |
|-----------------|--|
| 2 3/4" (NW35CF) | |

| PART NUMBER |
|-------------|
| 10339-02-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION |
|----------|------------|----------------|------------|----------|-------------|
| | | | H | L | |
| Air Side | 7 kV | 10 | 0.88 [22] | 2.4 [61] | HN Plug |

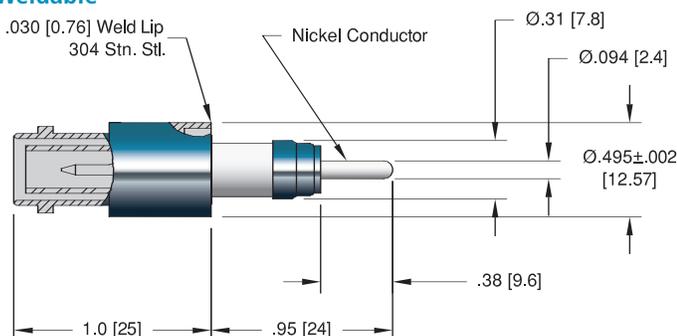
| PART NUMBER |
|-------------|
| 6524-05 |

Contacts

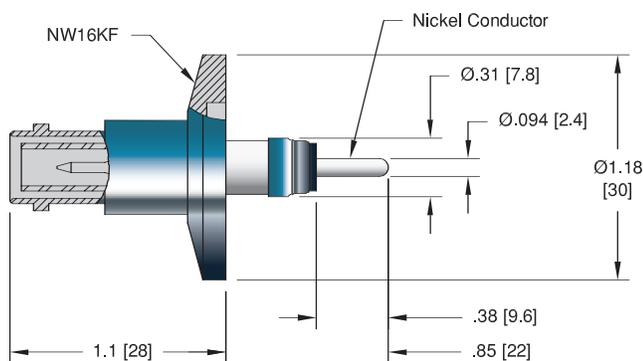
| TYPE | MATERIAL | DESCRIPTION |
|----------------------------|------------------|--------------------------------|
| 0.250 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.250 [6.4] |

| PART NUMBER |
|-------------|
| 7332-06-A |

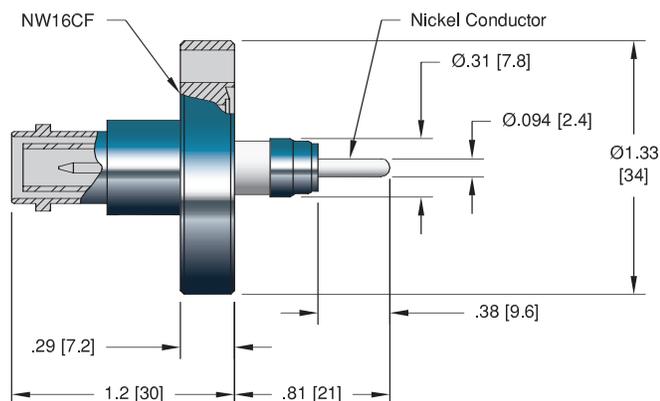
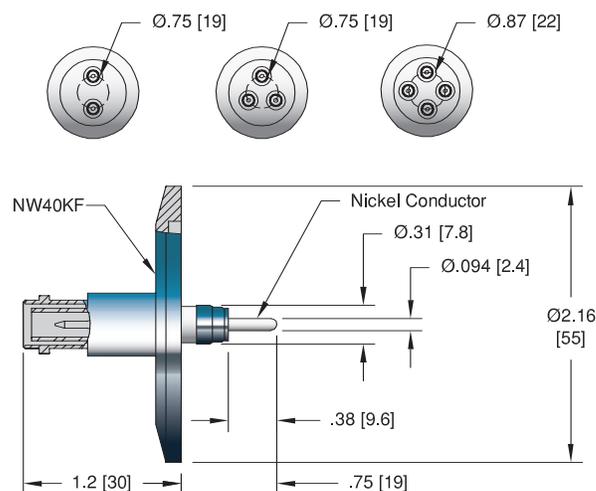
*Contacts priced and sold in packages of 10. See the Accessories section for more information on all accessories.

SHV 5 KV - Exposed
Weldable

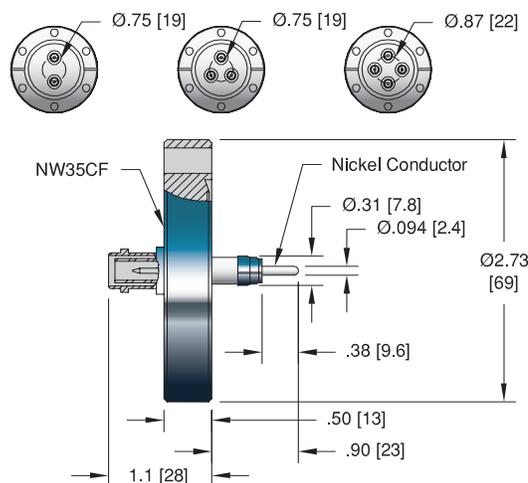
ISO KF - NW16KF



ConFlat - NW16CF

SHV 5 KV - Exposed
ISO KF - NW40KF

ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
Pin: Nickel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 5 kV DC

Current Rating 16.5 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table



COAXIAL

Weldable

| NO. PINS | INSTALLATION | PRESSURE @ 20°C BAR | | PART NUMBER |
|----------|--------------|---------------------|-----|-------------|
| 1 | Weld | 1600 | 110 | 8630-02-W |

ISO KF

ISO FLANGE

| | | | | |
|---|--------|---|---|-------------|
| 1 | NW16KF | - | - | 17205-01-KF |
| 1 | NW40KF | - | - | 17208-07-KF |
| 2 | NW40KF | - | - | 17208-01-KF |
| 3 | NW40KF | - | - | 17208-03-KF |
| 4 | NW40KF | - | - | 17208-05-KF |

ConFlat

CONFLAT FLANGE

| | | | | |
|---|-----------------|------|-----|-------------|
| 1 | 1 1/3" (NW16CF) | 1600 | 110 | 8880-02-CF |
| 1 | 2 3/4" (NW35CF) | 1500 | 103 | 14366-07-CF |
| 2 | 2 3/4" (NW35CF) | 1500 | 103 | 14366-03-CF |
| 3 | 2 3/4" (NW35CF) | 1500 | 103 | 14366-05-CF |
| 4 | 2 3/4" (NW35CF) | 1500 | 103 | 14366-01-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|---------------|-------------|
| Air Side | 5 KV | 10 | 0.56 [14] | 1.8 [46] | SHV 5 kV Plug | 8058-01 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 52 Ohm SHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 | 18921-03-A |

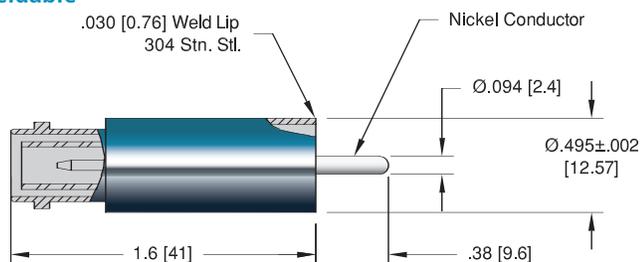
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|-------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A† |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

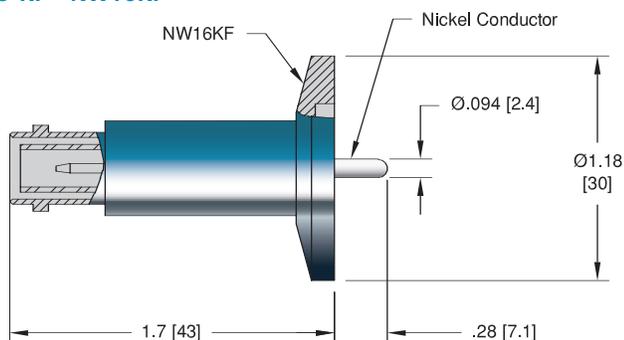
*Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.



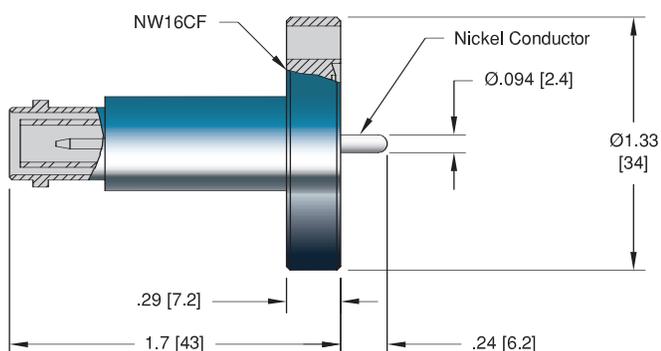
SHV 5 KV - Recessed Weldable



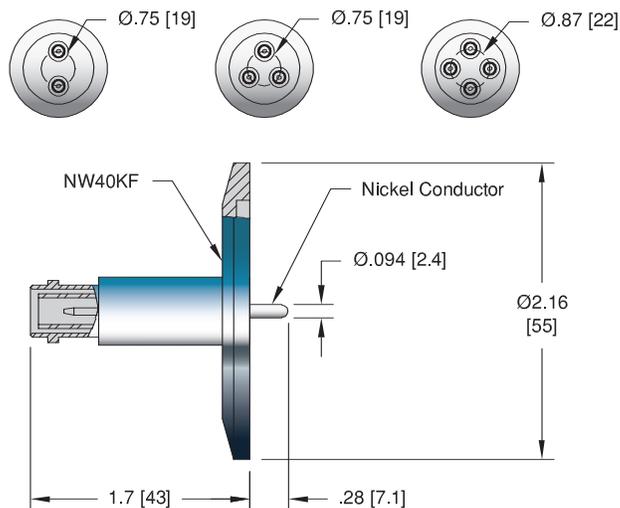
ISO KF - NW16KF



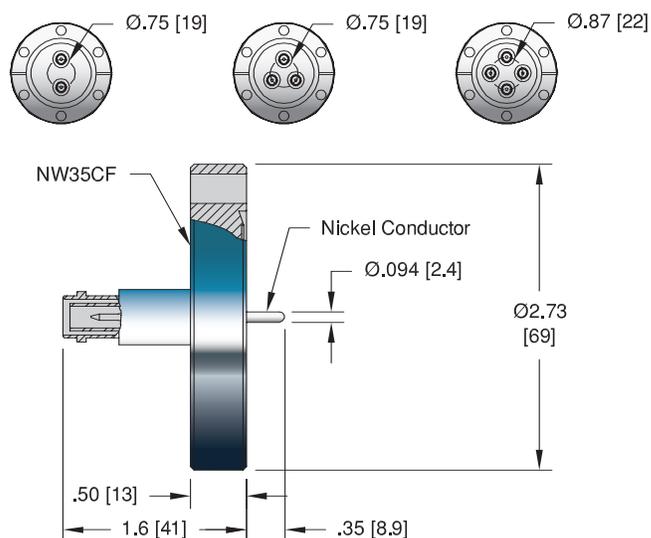
ConFlat - NW16CF



SHV 5 KV - Recessed ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
 Pin: Nickel
 Insulation: Alumina ceramic
 Magnetic Materials: Yes

Voltage Rating 5 kV DC

Current Rating 16.5 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table



COAXIAL

Weldable

| NO. PINS | INSTALLATION | PRESSURE @ 20°C BAR | | PART NUMBER |
|----------|--------------|---------------------|-----|-------------|
| 1 | Weld | 1600 | 110 | 8030-02-W |

ISO KF

ISO FLANGE

| | | | | |
|---|--------|---|---|-------------|
| 1 | NW16KF | - | - | 17207-02-KF |
| 1 | NW40KF | - | - | 17206-07-KF |
| 2 | NW40KF | - | - | 17206-01-KF |
| 3 | NW40KF | - | - | 17206-03-KF |
| 4 | NW40KF | - | - | 17206-05-KF |

ConFlat

CONFLAT FLANGE

| | | | | |
|---|-----------------|------|-----|-------------|
| 1 | 1 1/3" (NW16CF) | 1600 | 110 | 9485-02-CF |
| 1 | 2 3/4" (NW35CF) | 1500 | 103 | 11179-04-CF |
| 2 | 2 3/4" (NW35CF) | 1500 | 103 | 0268-02-CF |
| 3 | 2 3/4" (NW35CF) | 1500 | 103 | 1958-02-CF |
| 4 | 2 3/4" (NW35CF) | 1500 | 103 | 11179-02-CF |

Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|----------------|----------|---------------|-------------|
| Air Side | 5 kV | 10 | 0.56 [14] | 1.8 [46] | SHV 5 kV Plug | 8058-01 |

Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | | PART NUMBER |
|---------------------------|--------|------------|----------------|---------------------|----|-------------|
| 52 Ohm SHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 | 18921-03-A |

Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|------------------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A [†] |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.



Specifications

Materials

Housing: 304 Stainless steel

Pin: Nickel

Insulation: Alumina ceramic

Magnetic Materials: Yes

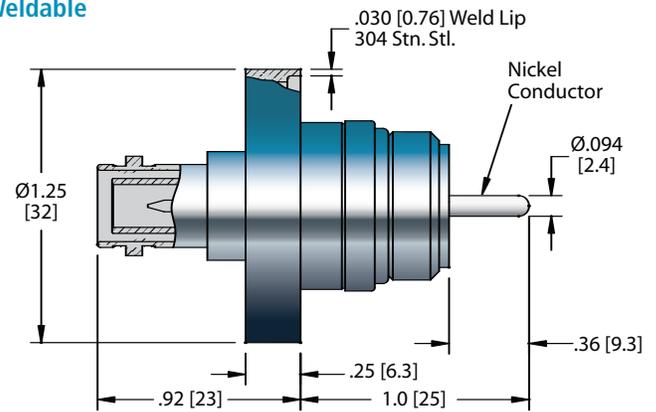
Voltage Rating Pin/Shield: 5 kV DC, Shield/Gnd: 2.5 kV DC

Current Rating 16.5 Amps

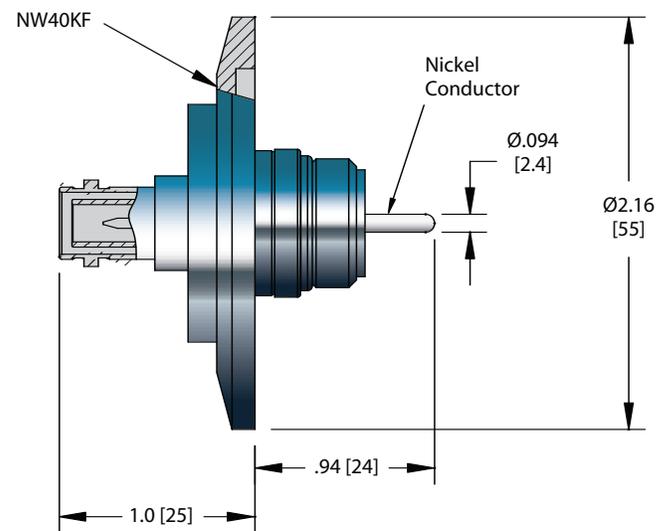
Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 300 PSIG (20 Bar), ISO KF 0 PSIG

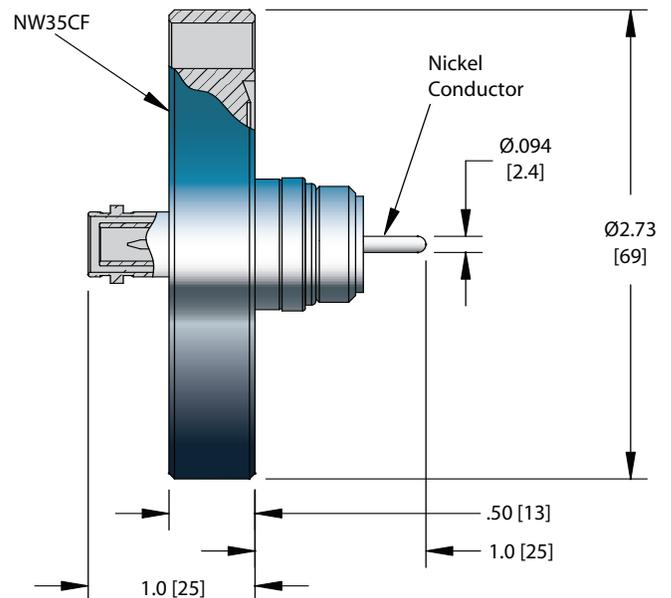
Weldable



ISO KF



ConFlat





| INSTALLATION |
|--------------|
| Weld |

| PART NUMBER |
|-------------|
| 15619-01-W |



| ISO FLANGE |
|------------|
| NW40KF |

| |
|-------------|
| 21303-01-KF |
|-------------|



| CONFLAT FLANGE |
|-----------------|
| 2 3/4" (NW35CF) |

| |
|-------------|
| 21304-01-CF |
|-------------|



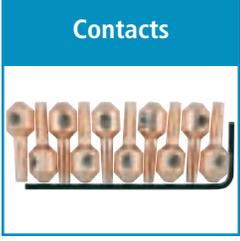
| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION |
|----------|------------|----------------|----------------|----------|---------------|
| Air Side | 5 kV | 10 | 0.56 [14] | 1.8 [46] | SHV 5 kV Plug |

| PART NUMBER |
|-------------|
| 8058-01 |



| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE MIN MAX | |
|---------------------------|--------|------------|----------------|---------------------|----|
| 52 Ohm SHV – Double Ended | 10' | 5 kV | 10 | -55 | 85 |

| PART NUMBER |
|-------------|
| 18921-03-A |

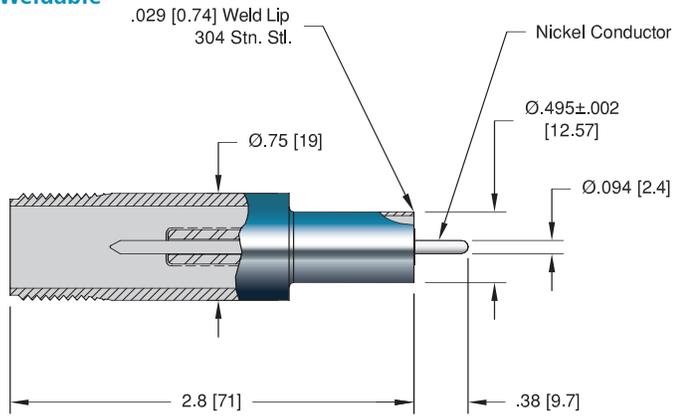


| TYPE | MATERIAL | DESCRIPTION |
|-------------------------------|------------------|--------------------------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] |

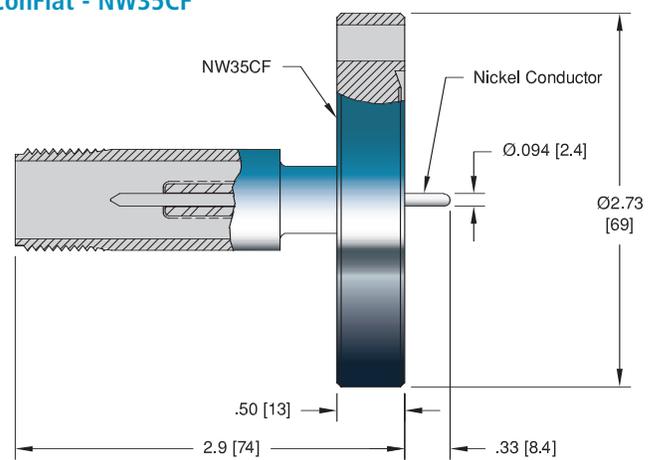
| PART NUMBER |
|------------------------|
| 7429-01-A [†] |
| 7332-04-A |

*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

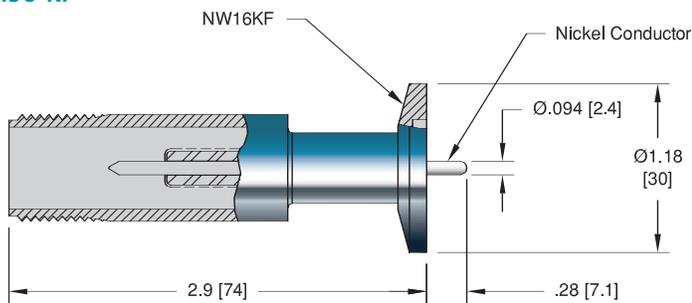
Weldable



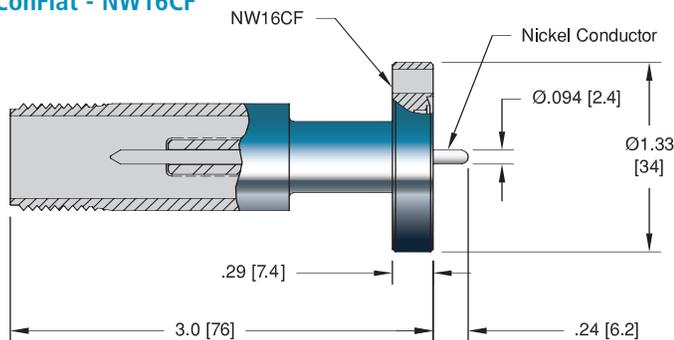
ConFlat - NW35CF



ISO KF



ConFlat - NW16CF



Specifications

Materials

- Housing: 304 Stainless steel
- Pin: Nickel
- Insulation: Alumina ceramic
- Magnetic Materials: Yes

Voltage Rating 7.5 kV DC

Current Rating 16.5 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C See table



| INSTALLATION | PRESSURE @ 20°C | | PART NUMBER |
|--------------|-----------------|-----|-------------|
| | PSIG | BAR | |
| Weld | 1600 | 110 | 7546-02-W |

ISO FLANGE



| | | | |
|--------|---|---|-------------|
| NW16KF | - | - | 18047-02-KF |
|--------|---|---|-------------|

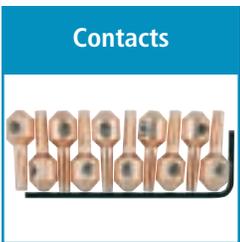
CONFLAT FLANGE



| | | | |
|-----------------|------|-----|------------|
| 1 1/3" (NW16CF) | 1600 | 110 | 7585-02-CF |
| 2 3/4" (NW35CF) | 1500 | 103 | 7584-02-CF |



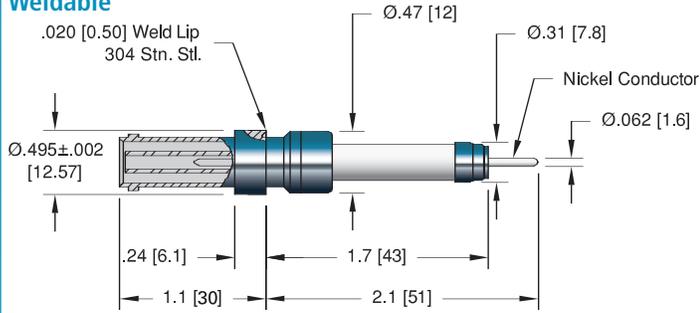
| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|----------|-------------|-------------|
| | | | H | L | | |
| Air Side | 7.5 kV | 8 | 0.88 [22] | 3.5 [88] | BSHV Plug | 7604-01-A |



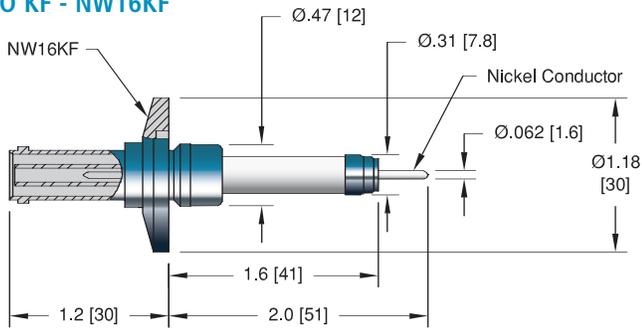
| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|-------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A† |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

*Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.

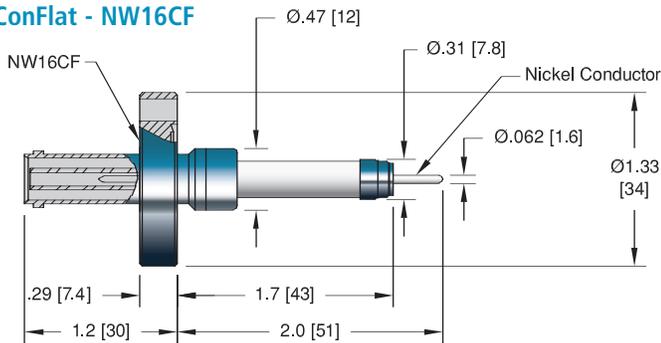
SHV 10 KV - Exposed Weldable



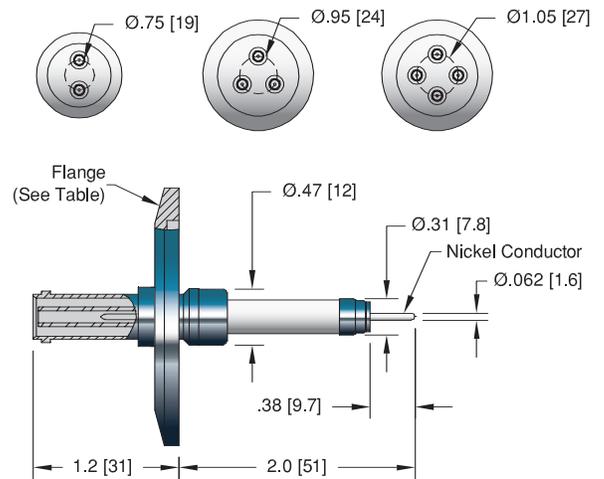
ISO KF - NW16KF



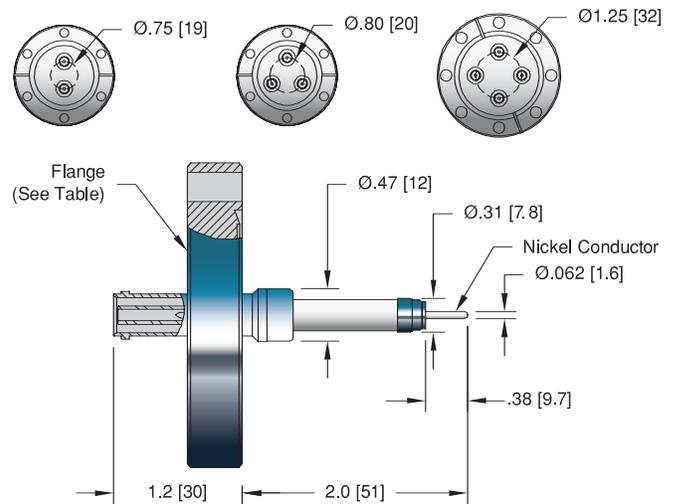
ConFlat - NW16CF



ISO KF



ConFlat



Specifications Materials

- Housing: 304 Stainless steel
- Pin: Nickel
- Insulation: Alumina ceramic
- Magnetic Materials: Yes

Voltage Rating 10 kV DC

Current Rating 10 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 120 PSIG (8.3 Bar), ISO KF 0 PSIG



| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 17213-01-W |



| ISO FLANGE | | |
|------------|--------|-------------|
| 1 | NW16KF | 18043-01-KF |
| 1 | NW40KF | 17215-07-KF |
| 2 | NW40KF | 17215-01-KF |
| 3 | NW50KF | 17215-03-KF |
| 4 | NW50KF | 17215-05-KF |



| CONFLAT FLANGE | | |
|----------------|-----------------|-------------|
| 1 | 1 1/3" (NW16CF) | 17214-01-CF |
| 1 | 2 3/4" (NW35CF) | 17216-08-CF |
| 2 | 2 3/4" (NW35CF) | 17216-02-CF |
| 3 | 2 3/4" (NW35CF) | 17216-04-CF |
| 4 | 3 3/8" (NW50CF) | 17216-06-CF |

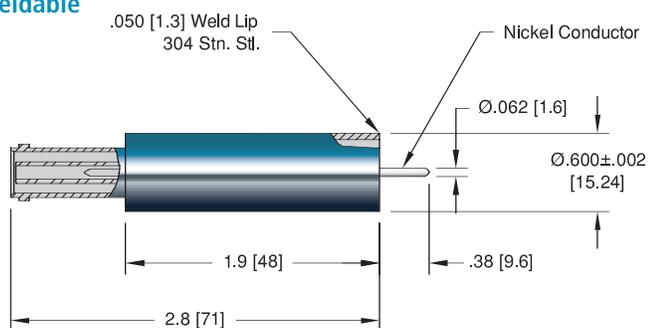


| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|----------|----------------|-------------|
| | | | H | L | | |
| Air Side | 10 kV | 10 | 0.56 [14] | 1.8 [46] | SHV 10 kV Plug | 8058-02 |

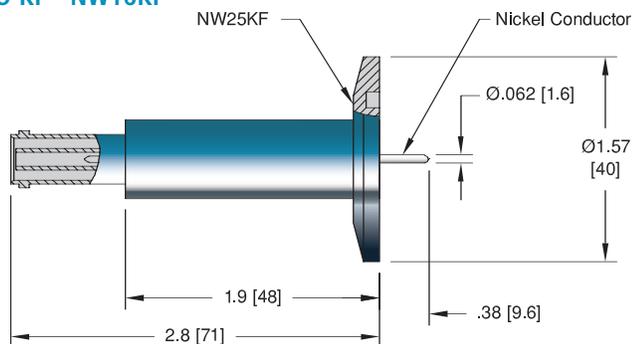


| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|----------------------------|------------------|--------------------------------|------------------------|
| 0.062 Crimp Contacts | Nickel Alloy | Accepts wire up to 0.062 [1.6] | 0821-01-A [†] |
| 0.062 Crimp Contacts | Beryllium Copper | Accepts wire up to 0.062 [1.6] | 2044-02-A |
| 0.062 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.062 [1.6] | 7332-03-A |
| Crimp Tool | | For 0.025" - 0.075" Diameters | 2840-05 |

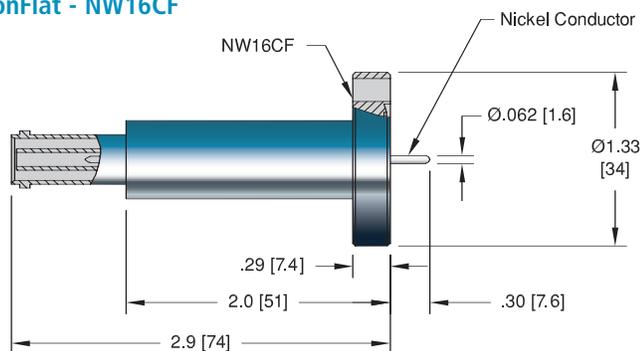
*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

SHV 10 KV - Recessed Insulator
Weldable

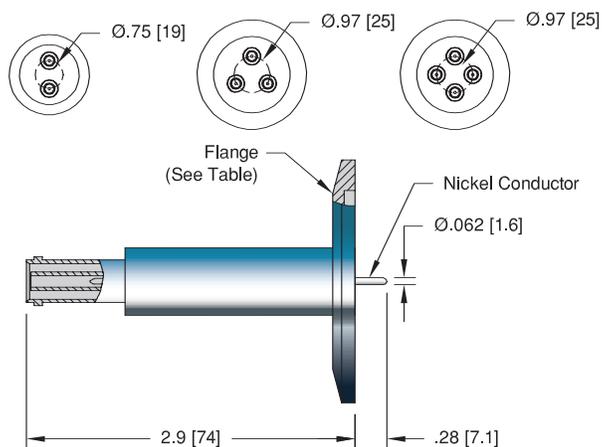
ISO KF - NW16KF



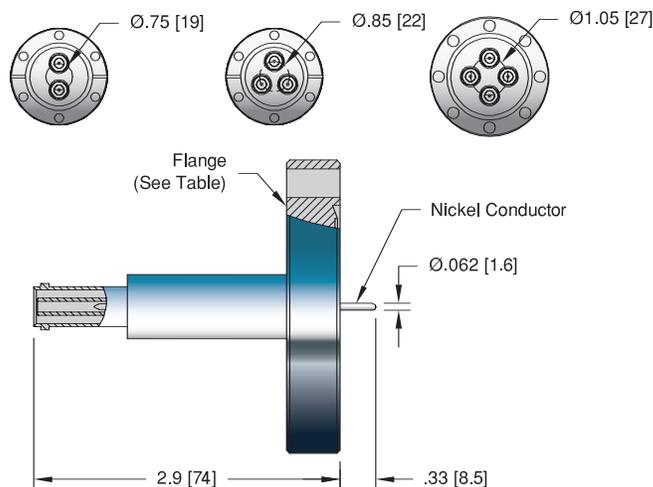
ConFlat - NW16CF



ISO KF



ConFlat

Specifications
Materials

Housing: 304 Stainless steel
Pin: Nickel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 10 kV DC

Current Rating 10 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 120 PSIG (8.3 Bar), ISO KF 0 PSIG



Weldable

| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 17217-01-W |



ISO KF

| ISO FLANGE | | |
|------------|--------|-------------|
| 1 | NW25KF | 17218-01-KF |
| 1 | NW40KF | 18000-07-KF |
| 2 | NW40KF | 18000-01-KF |
| 3 | NW50KF | 18000-03-KF |
| 4 | NW50KF | 18000-05-KF |



ConFlat

| CONFLAT FLANGE | | |
|----------------|-----------------|-------------|
| 1 | 1 1/3" (NW16CF) | 17219-01-CF |
| 1 | 2 3/4" (NW35CF) | 18001-07-CF |
| 2 | 2 3/4" (NW35CF) | 18001-01-CF |
| 3 | 2 3/4" (NW35CF) | 18001-03-CF |
| 4 | 3 3/8" (NW50CF) | 18001-05-CF |



Air Side Plug

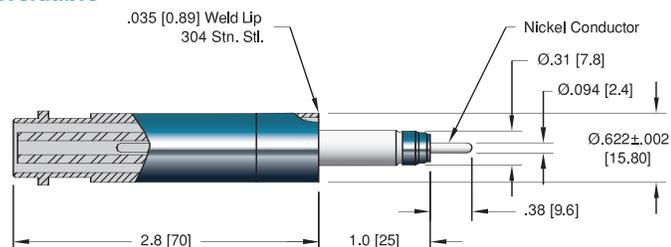
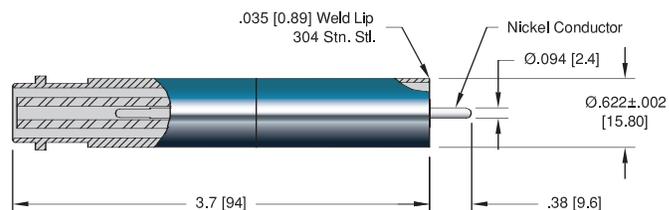
| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS H L | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|-------------------|----------|----------------|-------------|
| Air Side | 10 kV | 10 | 0.56 [14] | 1.8 [46] | SHV 10 kV Plug | 8058-02 |



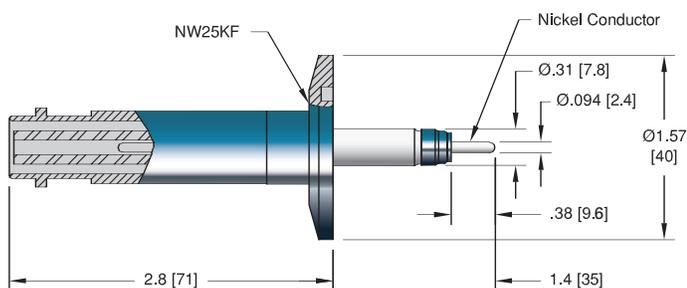
Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|----------------------------|------------------|--------------------------------|------------------------|
| 0.062 Crimp Contacts | Nickel Alloy | Accepts wire up to 0.062 [1.6] | 0821-01-A [†] |
| 0.062 Crimp Contacts | Beryllium Copper | Accepts wire up to 0.062 [1.6] | 2044-02-A |
| 0.062 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.062 [1.6] | 7332-03-A |
| Crimp Tool | | For 0.025" - 0.075" Diameters | 2840-05 |

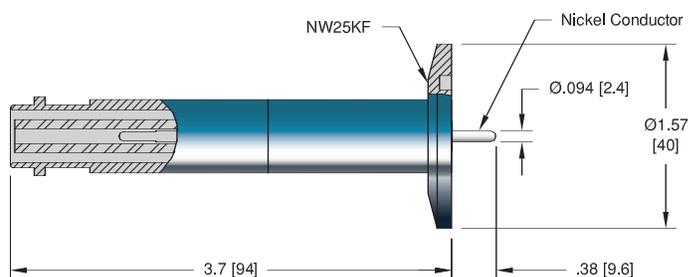
*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

SHV 20 KV - Exposed Insulator
WeldableSHV 20 KV - Recessed Insulator
Weldable

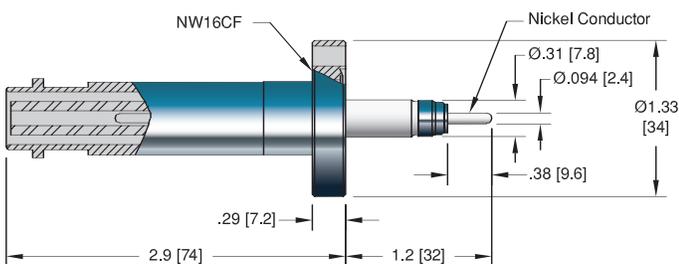
ISO KF



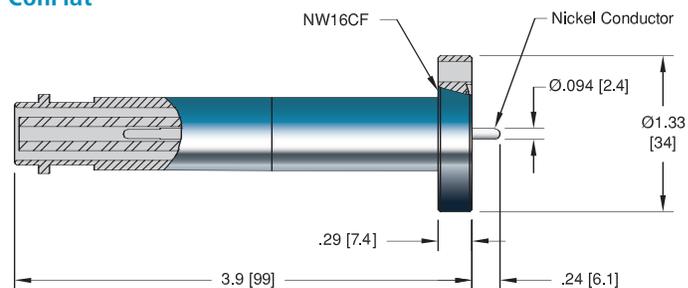
ISO KF



ConFlat



ConFlat



Specifications

Materials

Housing: 304 Stainless steel
Pin: Nickel
Insulation: Alumina ceramic
Magnetic Materials: Yes

Voltage Rating 20 kV DC

Current Rating 16.5 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 250 PSIG (17 Bar), ISO KF 0 PSIG



Weldable

| STYLE | INSTALLATION | PART NUMBER |
|--------------------|--------------|-------------------------|
| Exposed Insulator | Weld | 18086-01-W |
| Recessed Insulator | Weld | 18089-01-W [†] |



ISO KF

| ISO FLANGE | | |
|--------------------|--------|--------------------------|
| Exposed Insulator | NW25KF | 18087-01-KF [†] |
| Recessed Insulator | NW25KF | 18090-01-KF |



ConFlat

| CONFLAT FLANGE | | |
|--------------------|-----------------|--------------------------|
| Exposed Insulator | 1 1/3" (NW16CF) | 18088-01-CF [†] |
| Recessed Insulator | 1 1/3" (NW16CF) | 18091-01-CF |



Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------------|------------|-----------|----------------|-------------|
| | | | H | L | | |
| Air Side | 20 kV | 20 | 0.75 [19] | 4.5 [115] | SHV 20 kV Plug | 8208-02 |



Contacts

| TYPE | MATERIAL | DESCRIPTION | PART NUMBER |
|-------------------------------|------------------|--------------------------------|------------------------|
| 0.094 Set Screw Type Contacts | Beryllium Copper | Accepts wire up to 0.050 [1.3] | 7429-01-A [†] |
| 0.094 Barrel Type Contacts | Beryllium Copper | Accepts wire up to 0.094 [2.4] | 7332-04-A |

*Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

COAXIAL





Specifications

Materials

Housing: 304 Stainless steel
 Pin: Inconel X-750
 Contacts: 300 Series Stainless steel
 Insulation: Glass-ceramic
 Magnetic Materials: No

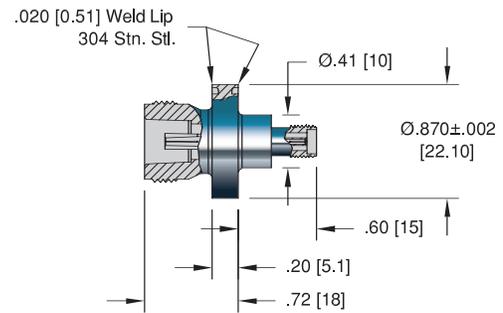
Voltage Rating 1.5 kV DC

Current Rating 1 Amp

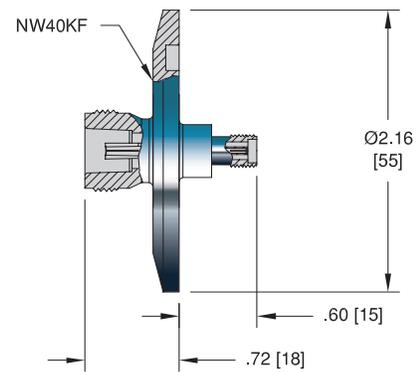
Temperature Range -269°C to 350°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG

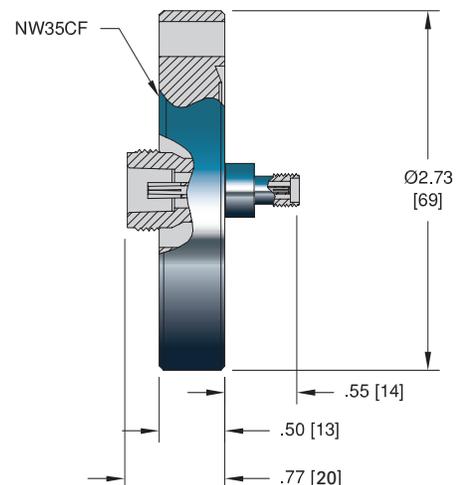
Weldable



ISO KF



ConFlat





Weldable

| INSTALLATION |
|--------------|
| Weld |

| PART NUMBER |
|-------------|
| 15025-02-W |



ISO KF

| ISO FLANGE |
|------------|
| NW40KF |

| PART NUMBER |
|-------------|
| 18083-02-KF |



ConFlat

| CONFLAT FLANGE |
|-----------------|
| 2 3/4" (NW35CF) |

| PART NUMBER |
|-------------|
| 18084-02-CF |



Air Side Plug

| TYPE | VOLTAGE DC | CONDUCTOR AMPS | DIMENSIONS | | DESCRIPTION |
|----------|------------|----------------|------------|----------|-------------|
| | | | H | L | |
| Air Side | 1.5 kV | 5 | 0.81 [20] | 1.5 [38] | Type N Plug |

| PART NUMBER |
|-------------|
| 7707-01 |

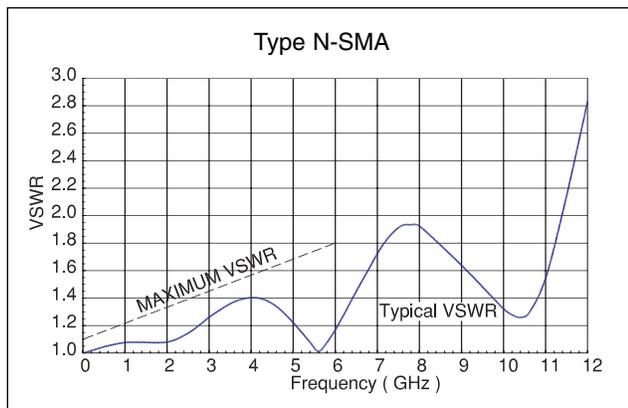


Air Side Cable Assembly

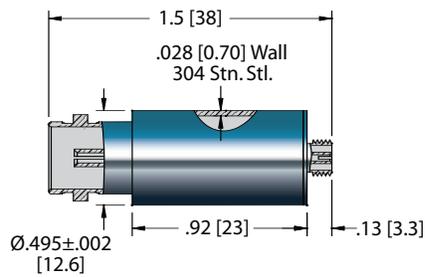
| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | |
|------------------------------|--------|------------|----------------|-------------|-----|
| | | | | MIN | MAX |
| 50 Ohm Type N – Double Ended | 10' | 1.5 kV | 5 | -55 | 85 |

| PART NUMBER |
|-------------|
| 21619-01-A |

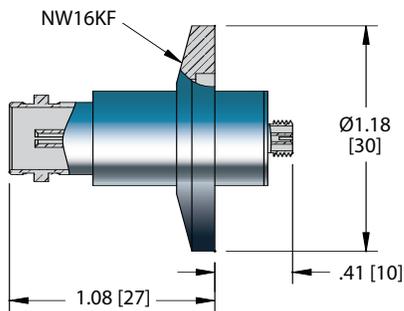
See the Accessories section for more information on all accessories.



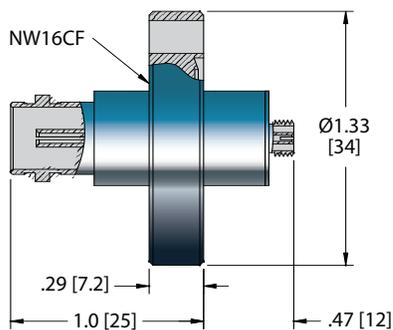
Weldable



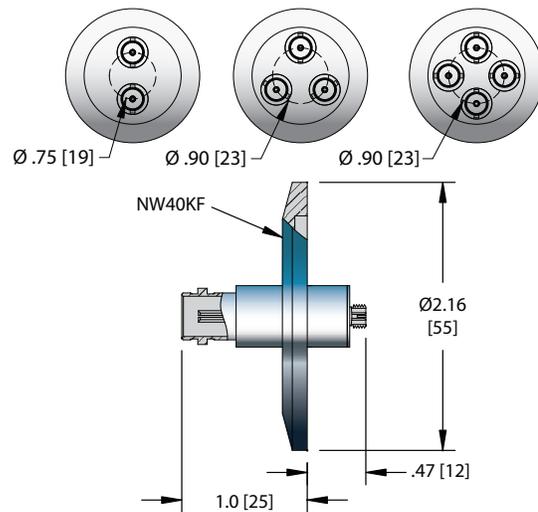
ISO KF - NW16KF



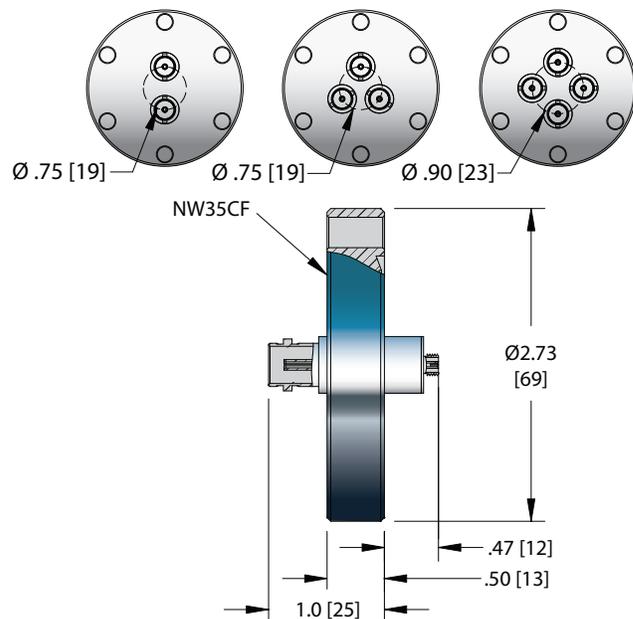
ConFlat - NW16CF



ISO KF - NW40KF



ConFlat - NW35CF



Specifications

Materials

Housing: 304 Stainless steel
 Pin: 330 Stainless steel
 Insulation: Glass-ceramic
 Magnetic Materials: No

Voltage Rating 500 V DC

Current Rating 5 Amps

Temperature Range -269°C to 450°C, ISO KF -25°C to 205°C

Pressure @ 20°C 1400 PSIG (97 Bar), ISO KF 0 PSIG



Weldable

| NO. PINS | INSTALLATION | PART NUMBER |
|----------|--------------|-------------|
| 1 | Weld | 21254-01-W |



ISO KF

| ISO FLANGE | | |
|------------|--------|-------------|
| 1 | NW16KF | 21256-01-KF |
| 1 | NW40KF | 21292-01-KF |
| 2 | NW40KF | 21261-01-KF |
| 3 | NW40KF | 21262-01-KF |
| 4 | NW40KF | 21263-01-KF |



ConFlat

| CONFLAT FLANGE | | |
|----------------|-----------------|-------------|
| 1 | 1 1/3" (NW16CF) | 21255-01-CF |
| 1 | 2 3/4" (NW35CF) | 21291-01-CF |
| 2 | 2 3/4" (NW35CF) | 21257-01-CF |
| 3 | 2 3/4" (NW35CF) | 21258-01-CF |
| 4 | 2 3/4" (NW35CF) | 21259-01-CF |



Air Side Plug

| TYPE | DIMENSIONS | | DESCRIPTION | PART NUMBER |
|----------|------------|----------|-------------|-------------|
| | H | L | | |
| Air Side | 0.56 [14] | 1.1 [27] | BNC Plug | 7116-02 |



Air Side Cable Assembly

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|---------------------------|--------|------------|----------------|-------------|-----|-------------|
| | | | | MIN | MAX | |
| 50 Ohm BNC – Double Ended | 10' | 500 V | 5 | -40 | 85 | 18921-01-A |



Vacuum Side Cable Assemblies

| TYPE | LENGTH | VOLTAGE DC | CONDUCTOR AMPS | TEMPERATURE | | PART NUMBER |
|-------------------------------------|--------|------------|----------------|-------------|-------|-------------|
| | | | | MIN | MAX | |
| Microdot Vacuum Side – Double Ended | 12" | 500 V | 2 | -65°C | 125°C | 15767-12-A |
| Microdot Vacuum Side – Double Ended | 24" | 500 V | 2 | -65°C | 125°C | 15767-24-A |
| Microdot Vacuum Side – Double Ended | 36" | 500 V | 2 | -65°C | 125°C | 15767-36-A† |

†Shown in photo. See the Accessories section for more information on all accessories.