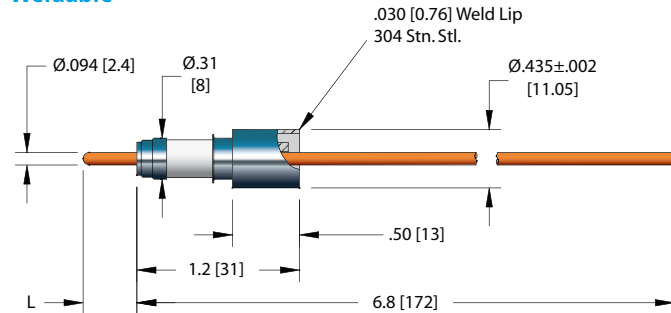
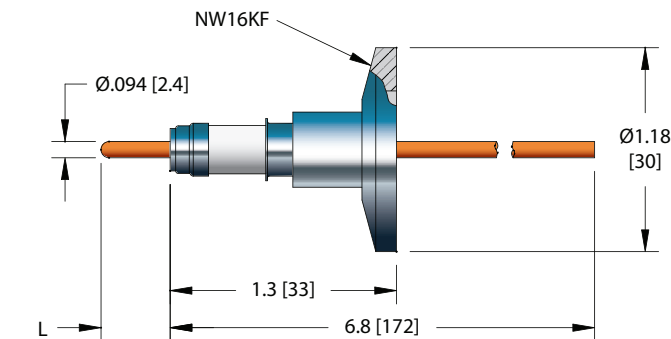


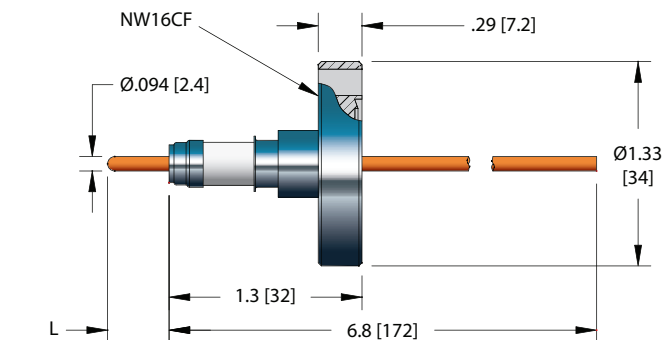
Weldable



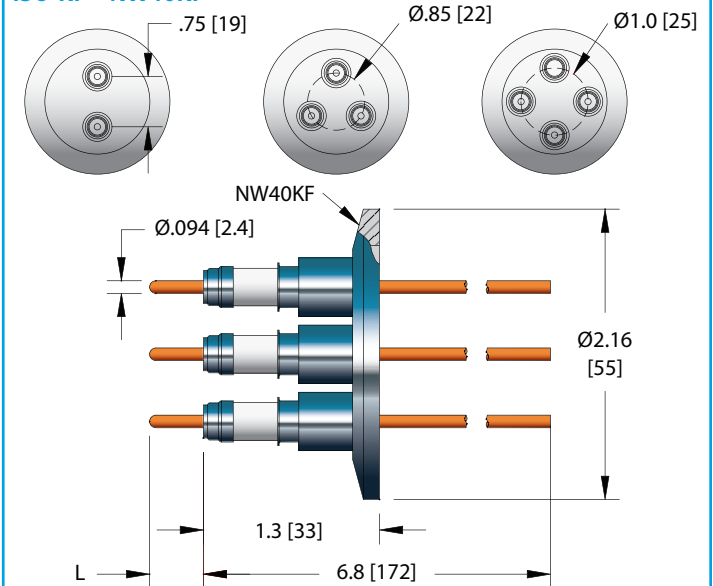
ISO KF - NW16KF



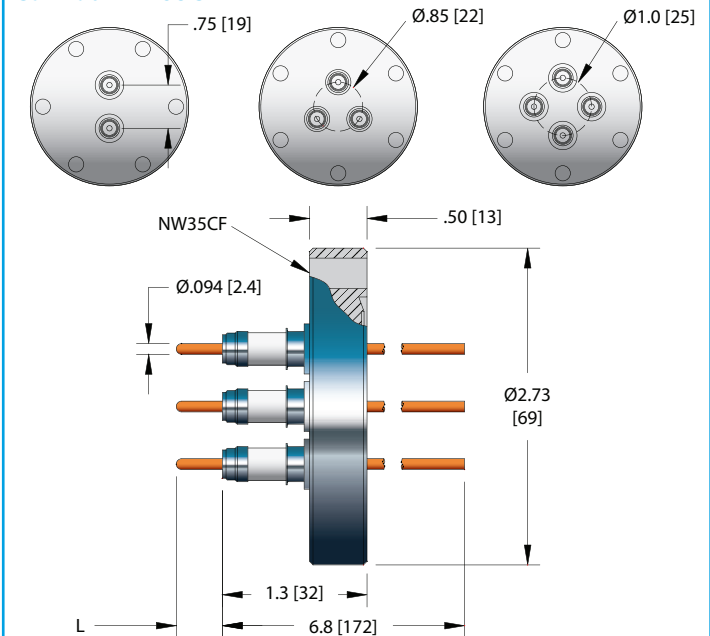
ConFlat - NW16CF



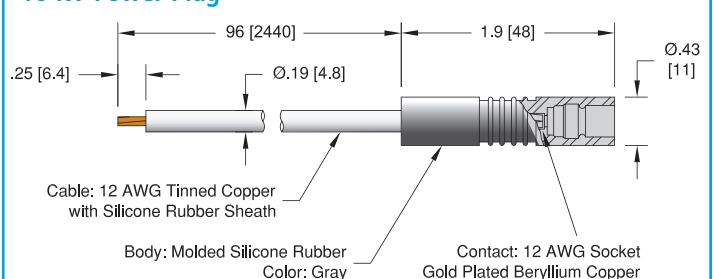
ISO KF - NW40KF



ConFlat - NW35CF



10 KV Power Plug



Specifications

Materials

Housing: 304 Stainless steel

Pin: See table

Insulation: Alumina ceramic

Magnetic Materials: See table

Voltage Rating See table*

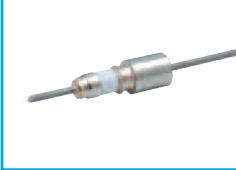
Current Rating See table

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

Pressure @ 20°C 1500 PSIG (103 Bar), ISO KF 0 PSIG

*When used with air side cable assembly.

Weldable



NO. PINS	VOLTAGE DC	CONDUCTOR AMPS	MATERIAL	INSTALLATION	MAGNETIC MATERIALS	DIMENSION "L"	PART NUMBER
1	5 KV	3.6	304 Stn. Stl.	Weld	No	1.0"	3887-68-W
1	5 KV	16.5	Nickel	Weld	Yes	1.0"	3887-51-W
1	5 KV	55	Copper	Weld	No	1.0"	3887-12-W
1	10 KV	3.6	304 Stn. Stl.	Weld	No	.4"	3888-08-W
1	10 KV	16.5	Nickel	Weld	Yes	.4"	3888-09-W
1	10 KV	55	Copper	Weld	No	.4"	3888-10-W

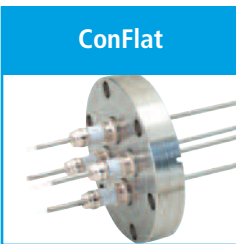
ISO FLANGE



ISO KF

1	10 KV	3.6	304 Stn. Stl.	NW16KF	No	.4"	17026-05-KF
1	10 KV	16.5	Nickel	NW16KF	Yes	.4"	17026-06-KF
1	10 KV	55	Copper	NW16KF	No	.4"	17026-08-KF
2	10 KV	3.6	304 Stn. Stl.	NW40KF	No	.4"	17027-05-KF
2	10 KV	16.5	Nickel	NW40KF	Yes	.4"	17027-06-KF
2	10 KV	55	Copper	NW40KF	No	.4"	17027-08-KF
3	10 KV	3.6	304 Stn. Stl.	NW40KF	No	.4"	17067-05-KF
3	10 KV	16.5	Nickel	NW40KF	Yes	.4"	17067-06-KF
3	10 KV	55	Copper	NW40KF	No	.4"	17067-08-KF
4	10 KV	3.6	304 Stn. Stl.	NW40KF	No	.4"	17028-05-KF
4	10 KV	16.5	Nickel	NW40KF	Yes	.4"	17028-06-KF
4	10 KV	55	Copper	NW40KF	No	.4"	17028-08-KF

CONFLAT FLANGE



ConFlat

1	10 KV	3.6	304 Stn. Stl.	1 1/3" (NW16CF)	No	.4"	19542-07-CF
1	10 KV	16.5	Nickel	1 1/3" (NW16CF)	Yes	.4"	19542-03-CF
1	10 KV	55	Copper	1 1/3" (NW16CF)	No	.4"	19542-04-CF
2	5 KV	16.5	Nickel	1 1/3" (NW16CF)	Yes	1.0"	9545-01-CF
2	5 KV	55	Copper	1 1/3" (NW16CF)	No	1.0"	9545-02-CF
2	10 KV	3.6	304 Stn. Stl.	2 3/4" (NW35CF)	No	.4"	17060-05-CF
2	10 KV	16.5	Nickel	2 3/4" (NW35CF)	Yes	.4"	17060-06-CF
2	10 KV	55	Copper	2 3/4" (NW35CF)	No	.4"	17060-08-CF
3	5 KV	16.5	Nickel	1 1/3" (NW16CF)	Yes	1.0"	6404-03-CF
3	5 KV	55	Copper	1 1/3" (NW16CF)	No	1.0"	6404-02-CF
3	10 KV	3.6	304 Stn. Stl.	2 3/4" (NW35CF)	No	.4"	17064-05-CF
3	10 KV	16.5	Nickel	2 3/4" (NW35CF)	Yes	.4"	17064-06-CF
3	10 KV	55	Copper	2 3/4" (NW35CF)	No	.4"	17064-08-CF
4	10 KV	3.6	304 Stn. Stl.	2 3/4" (NW35CF)	No	.4"	17069-05-CF
4	10 KV	16.5	Nickel	2 3/4" (NW35CF)	Yes	.4"	17069-06-CF
4	10 KV	55	Copper	2 3/4" (NW35CF)	No	.4"	17069-08-CF

*See page 213 for In-Vacuum Cable (Kapton). See page 195 for Contacts. See the Accessories section for more information on all accessories.

Feedthrough

Multipin Connector

Coaxial

Thermocouple

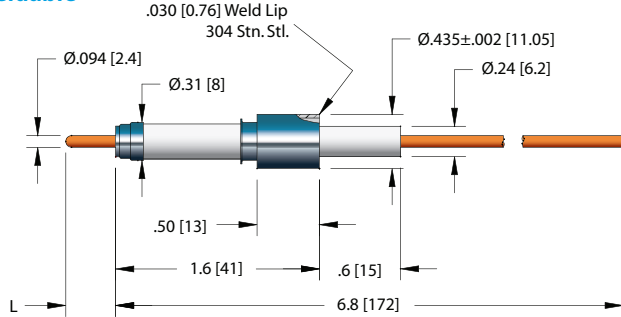
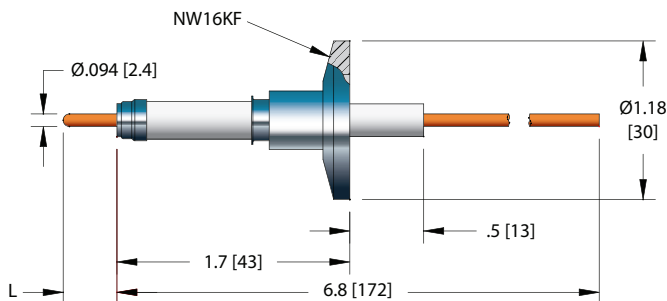
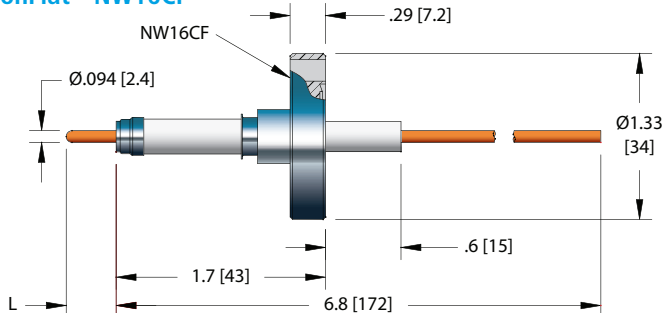
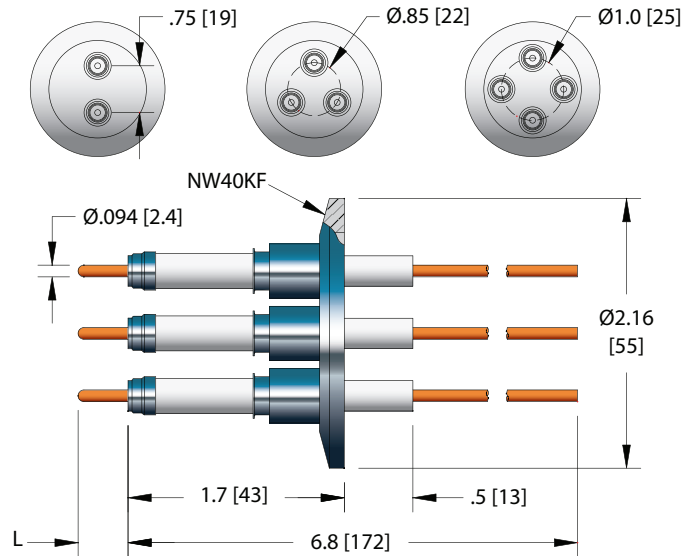
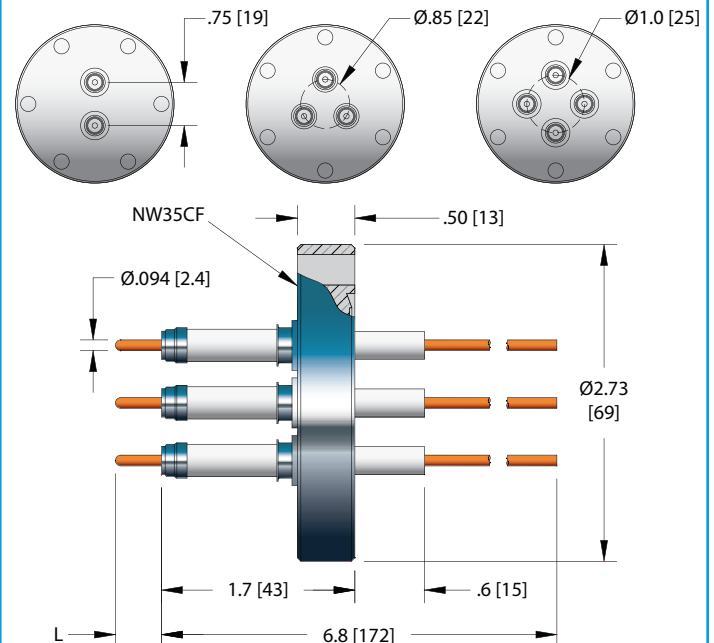
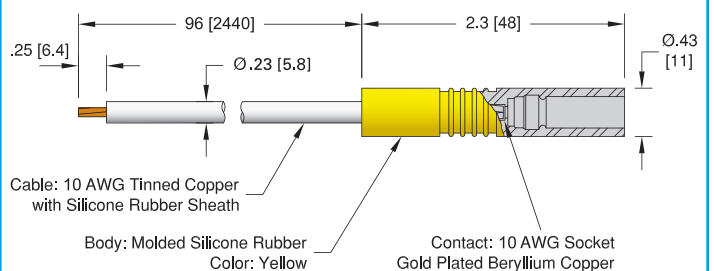
Isolator

Viewport

Pressure

Accessories

Technical Reference

Weldable**ISO KF - NW16KF****ConFlat - NW16CF****ISO KF - NW40KF****ConFlat - NW35CF****20 KV Power Plug****Specifications****Materials**

Housing: 304 Stainless steel

Pin: See table

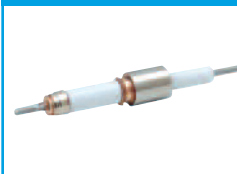
Insulation: Alumina ceramic

Magnetic Materials: See table

Voltage Rating Without plug 14 KV, with plug 20 KV***Current Rating** See table**Temperature Range** -269°C to 450°C, ISO KF -25°C to 205°C**Pressure @ 20°C** 1500 PSIG (103 Bar), ISO KF 0 PSIG

*When used with air side cable assembly.

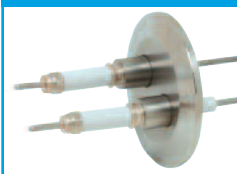
Weldable



NO. PINS	AMPS	CONDUCTOR MATERIAL	INSTALLATION	MAGNETIC MATERIALS	DIMENSION "L"	PART NUMBER
1	3.6	304 Stn. Stl.	Weld	No	1.0"	4275-17-W
1	16.5	Nickel	Weld	Yes	1.0"	4275-15-W
1	55	Copper	Weld	No	1.0"	4275-14-W
1	3.6	304 Stn. Stl.	Weld	No	.4"	17575-03-W
1	16.5	Nickel	Weld	Yes	.4"	4275-22-W
1	55	Copper	Weld	No	.4"	4275-21-W

ISO FLANGE

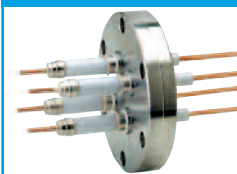
ISO KF



1	3.6	304 Stn. Stl.	NW16KF	No	.4"	17036-05-KF
1	16.5	Nickel	NW16KF	Yes	.4"	17036-06-KF
1	55	Copper	NW16KF	No	.4"	17036-08-KF
2	3.6	304 Stn. Stl.	NW40KF	No	.4"	17037-05-KF
2	16.5	Nickel	NW40KF	Yes	.4"	17037-06-KF
2	55	Copper	NW40KF	No	.4"	17037-08-KF
3	3.6	304 Stn. Stl.	NW40KF	No	.4"	17068-05-KF
3	16.5	Nickel	NW40KF	Yes	.4"	17068-06-KF
3	55	Copper	NW40KF	No	.4"	17068-08-KF
4	3.6	304 Stn. Stl.	NW40KF	No	.4"	17038-05-KF
4	16.5	Nickel	NW40KF	Yes	.4"	17038-06-KF
4	55	Copper	NW40KF	No	.4"	17038-08-KF

CONFLAT FLANGE

ConFlat



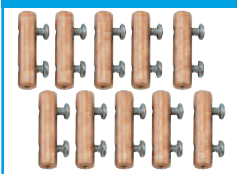
1	3.6	304 Stn. Stl.	1 1/3" (NW16CF)	No	.4"	19543-07-CF
1	16.5	Nickel	1 1/3" (NW16CF)	Yes	.4"	19543-03-CF
1	55	Copper	1 1/3" (NW16CF)	No	.4"	19543-04-CF
2	3.6	304 Stn. Stl.	2 3/4" (NW35CF)	No	.4"	10287-04-CF
2	16.5	Nickel	2 3/4" (NW35CF)	Yes	.4"	10287-05-CF
2	55	Copper	2 3/4" (NW35CF)	No	.4"	10287-03-CF
3	3.6	304 Stn. Stl.	2 3/4" (NW35CF)	No	.4"	17065-05-CF
3	16.5	Nickel	2 3/4" (NW35CF)	Yes	.4"	17065-06-CF
3	55	Copper	2 3/4" (NW35CF)	No	.4"	17065-08-CF
4	3.6	304 Stn. Stl.	2 3/4" (NW35CF)	No	.4"	16709-16-CF
4	16.5	Nickel	2 3/4" (NW35CF)	Yes	.4"	16709-08-CF
4	55	Copper	2 3/4" (NW35CF)	No	.4"	16709-10-CF

Air Side Cable Assembly



TYPE	CABLE TYPE	LENGTH	CONDUCTOR AMPS	TEMPERATURE °C MIN	TEMPERATURE °C MAX	PART NUMBER
20 kV Power Plug	10 AWG	8'	55	-55	125	14419-02-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†

*When used with air side cable assembly. **Contacts priced and sold in packages of 10. †Shown in photo. See the Accessories section for more information on all accessories.

Feedthrough

Multipin Connector

Coaxial

Thermocouple

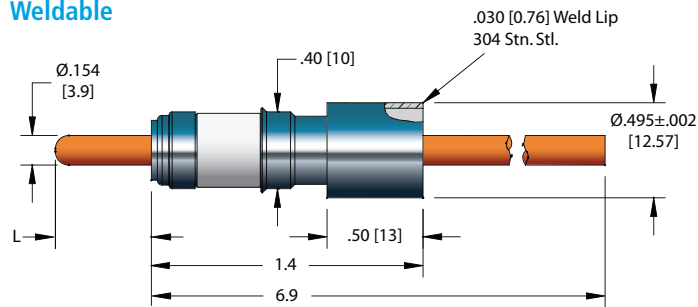
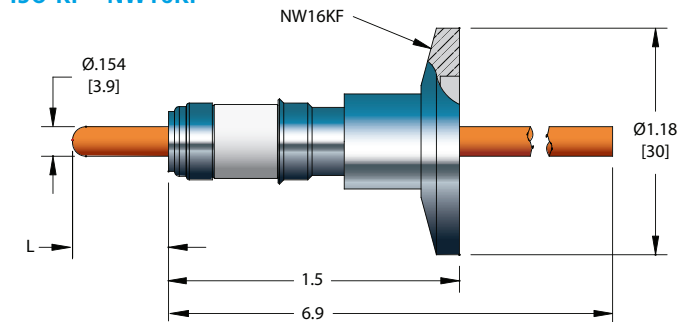
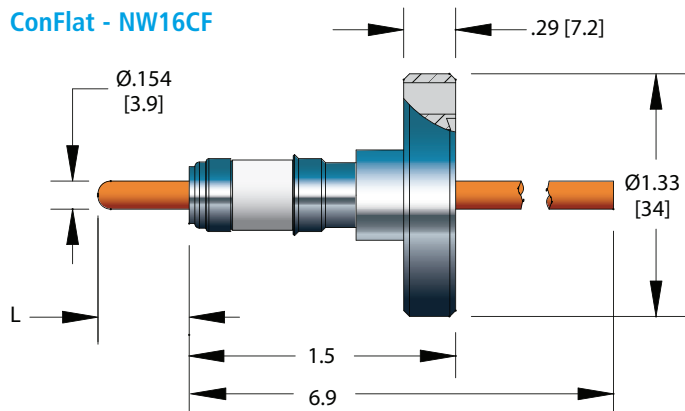
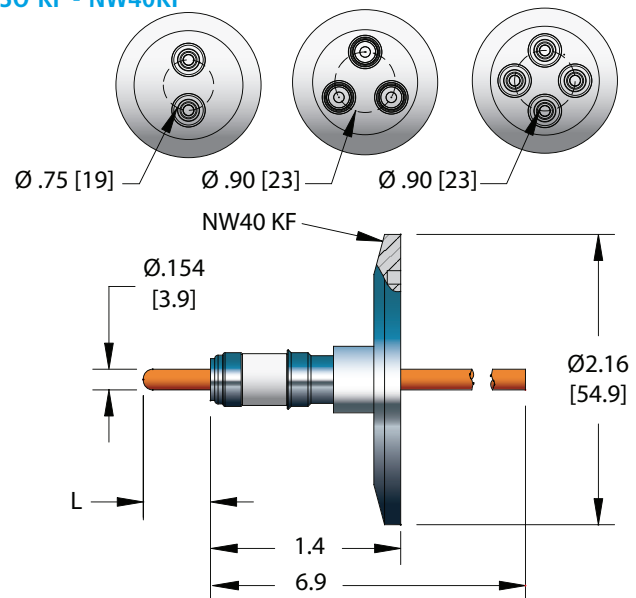
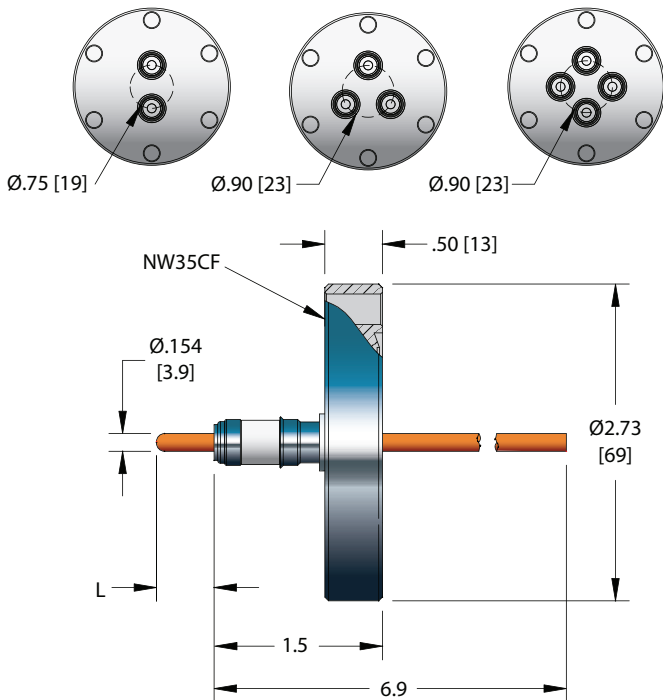
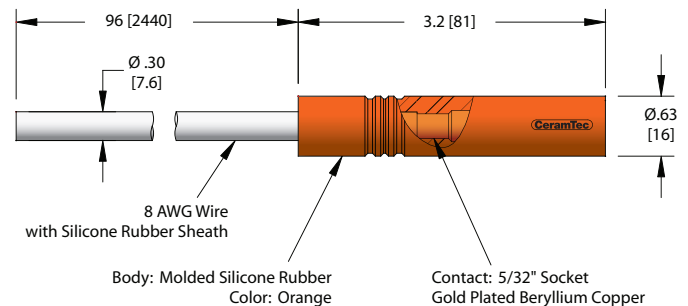
Isolator

Viewport

Pressure

Accessories

Technical Reference

Weldable**ISO KF - NW16KF****ConFlat - NW16CF****ISO KF - NW40KF****ConFlat - NW35CF****.154 Power Plug****Specifications****Materials**

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

Voltage Rating See table*

Current Rating See table

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

Pressure @ 20°C 1000 PSIG (69 Bar), ISO KF 0 PSIG

*When used with air side cable assembly.

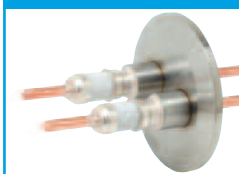
Weldable



NO. PINS	VOLTAGE DC	CONDUCTOR AMPS	MATERIAL	INSTALLATION	DIMENSION "L"	PART NUMBER
1	5 KV	30	Nickel	Weld	1.0"	6514-02-W
1	5 KV	100	Nickel	Weld	1.0"	6514-01-W
1	10 KV	30	Nickel	Weld	.5"	21032-02-W
1	10 KV	100	Copper	Weld	.5"	21032-01-W

ISO FLANGE

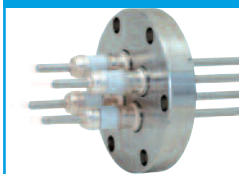
ISO KF



1	10 KV	30	Nickel	NW16KF	.5"	21134-02-KF
1	10 KV	100	Copper	NW16KF	.5"	21134-01-KF
2	10 KV	30	Nickel	NW40KF	.5"	21158-02-KF
2	10 KV	100	Copper	NW40KF	.5"	21158-01-KF
3	10 KV	30	Nickel	NW40KF	.5"	21159-02-KF
3	10 KV	100	Copper	NW40KF	.5"	21159-01-KF
4	10 KV	30	Nickel	NW40KF	.5"	21160-02-KF
4	10 KV	100	Copper	NW40KF	.5"	21160-01-KF

CONFLAT FLANGE

ConFlat



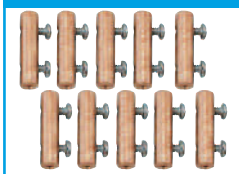
1	10 KV	30	Nickel	1 1/3" (NW16CF)	.5"	21131-02-CF
1	10 KV	100	Copper	1 1/3" (NW16CF)	.5"	21131-01-CF
2	10 KV	30	Nickel	2 3/4" (NW35CF)	.5"	21154-02-CF
2	10 KV	100	Copper	2 3/4" (NW35CF)	.5"	21154-01-CF
3	10 KV	30	Nickel	2 3/4" (NW35CF)	.5"	21155-02-CF
3	10 KV	100	Copper	2 3/4" (NW35CF)	.5"	21155-01-CF
4	10 KV	30	Nickel	2 3/4" (NW35CF)	.5"	21156-02-CF
4	10 KV	100	Copper	2 3/4" (NW35CF)	.5"	21156-01-CF

Air Side Cable Assembly



TYPE	CABLE TYPE	LENGTH	VOLTAGE DC	CONDUCTOR AMPS	TEMPERATURE °C MIN	TEMPERATURE °C MAX	PART NUMBER
.154 Power Plug	8 AWG	8'	10 kV	75	-55	125	21094-01-A

Contacts



TYPE	MATERIAL	DESCRIPTION	PART NUMBER
0.154 Barrel Type Contacts	Beryllium Copper	Accepts wire up to 0.154 [3.9]	7332-07-A

*When used with air side cable assembly. **Contacts priced and sold in packages of 10. See the Accessories section for more information on all accessories.

Feedthrough

Multipin Connector

Coaxial

Thermocouple

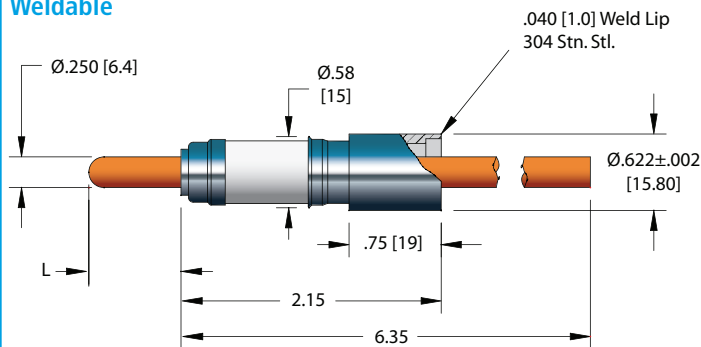
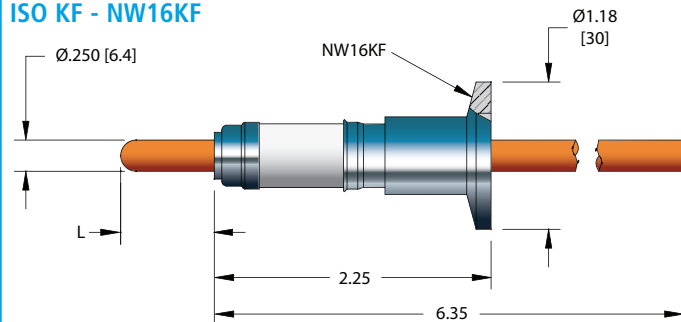
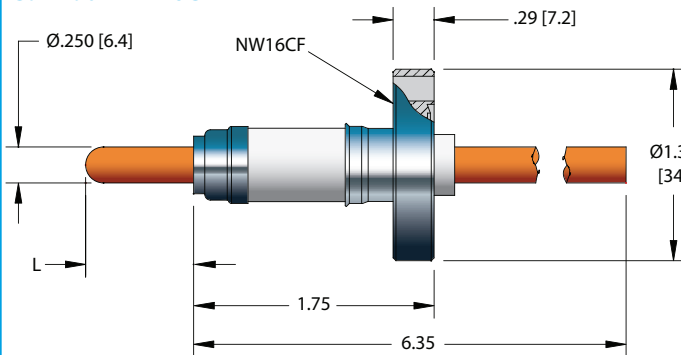
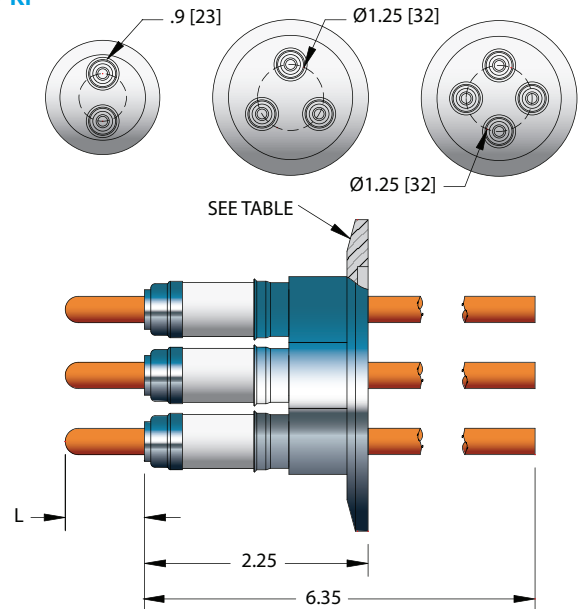
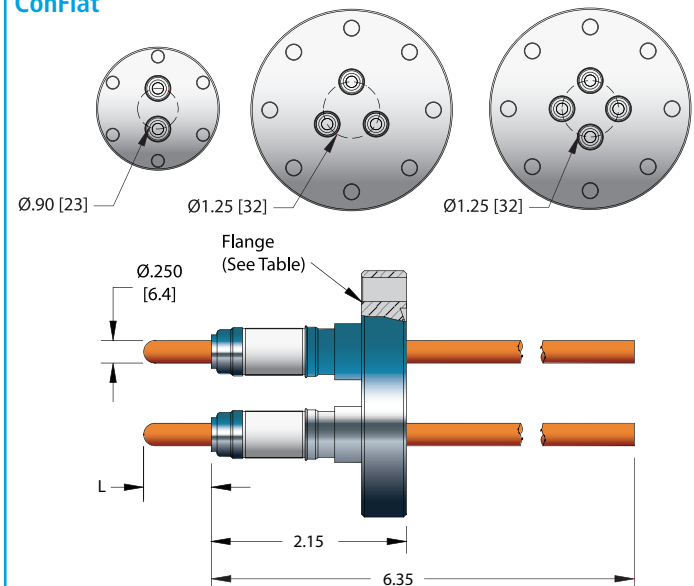
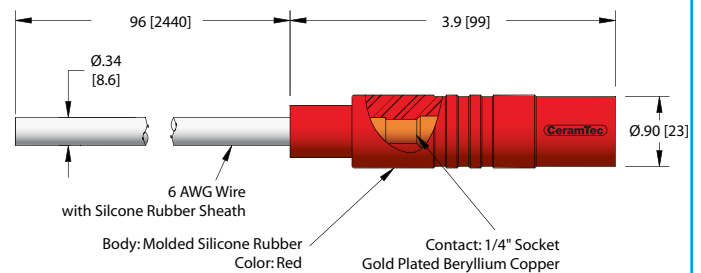
Isolator

Viewport

Pressure

Accessories

Technical Reference

Weldable**ISO KF - NW16KF****ConFlat - NW16CF****ISO KF****ConFlat****.250 Power Plug****Specifications****Materials**

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

Voltage Rating See table*

Current Rating See table

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

Pressure @ 20°C 750 PSIG (52 Bar), ISO KF 0 PSIG

*When used with air side cable assembly.

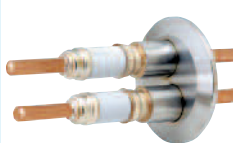
Weldable



NO. PINS	VOLTAGE DC	CONDUCTOR AMPS	MATERIAL	INSTALLATION	DIMENSION "L"	PART NUMBER
1	12 KV	56	Nickel	Weld	1.0"	2779-07-W
1	12 KV	185	Copper	Weld	1.0"	2779-01-W
1	15 KV	56	Nickel	Weld	.75"	21414-07-W
1	15 KV	185	Copper	Weld	.75"	21414-01-W

ISO FLANGE

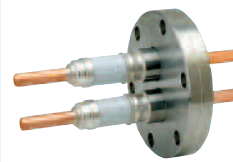
ISO KF



1	15 KV	56	Nickel	NW16KF	.75"	21308-02-KF
1	15 KV	185	Copper	NW16KF	.75"	21308-01-KF
1	15 KV	56	Nickel	NW40KF	.75"	21278-02-KF
1	15 KV	185	Copper	NW40KF	.75"	21278-01-KF
2	15 KV	56	Nickel	NW40KF	.75"	21278-04-KF
2	15 KV	185	Copper	NW40KF	.75"	21278-03-KF
3	15 KV	56	Nickel	NW50KF	.75"	21278-06-KF
3	15 KV	185	Copper	NW50KF	.75"	21278-05-KF
4	15 KV	56	Nickel	NW50KF	.75"	21278-08-KF
4	15 KV	185	Copper	NW50KF	.75"	21278-07-KF

CONFLAT FLANGE

ConFlat



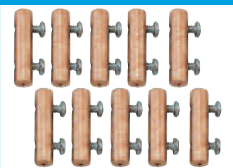
1	15 KV	56	Nickel	1 1/3" (NW16CF)	.75"	21309-02-CF
1	15 KV	185	Copper	1 1/3" (NW16CF)	.75"	21309-01-CF
1	15 KV	56	Nickel	2 3/4" (NW35CF)	.75"	21280-02-CF
1	15 KV	185	Copper	2 3/4" (NW35CF)	.75"	21280-01-CF
2	12 KV	56	Nickel	2 3/4" (NW35CF)	1.0"	16705-06-CF
2	12 KV	185	Copper	2 3/4" (NW35CF)	1.0"	16705-01-CF
2	15 KV	56	Nickel	2 3/4" (NW35CF)	.75"	21280-04-CF
2	15 KV	185	Copper	2 3/4" (NW35CF)	.75"	21280-03-CF
3	15 KV	56	Nickel	4 1/2" (NW63CF)	.75"	21280-06-CF
3	15 KV	185	Copper	4 1/2" (NW63CF)	.75"	21280-05-CF
4	15 KV	56	Nickel	4 1/2" (NW63CF)	.75"	21280-08-CF
4	15 KV	185	Copper	4 1/2" (NW63CF)	.75"	21280-07-CF

Air Side Cable Assembly



TYPE	CABLE TYPE	LENGTH	VOLTAGE DC	CONDUCTOR AMPS	TEMPERATURE °C MIN	TEMPERATURE °C MAX	PART NUMBER
.250 Power Plug	6 AWG	8'	25 kV	100	-55	125	20956-02-A

Contacts



TYPE	MATERIAL	DESCRIPTION	PART NUMBER
0.250 Barrel Type Contacts	Beryllium Copper	Accepts wire up to 0.250 [6.4]	7332-06-A [†]
0.250 Clamp Type Contacts	Copper	Accepts wire up to 0.250 [6.4]	18740-01-A

*When used with air side cable assembly. **Contacts priced and sold in packages of 10. [†]Shown in photo. See the Accessories section for more information on all accessories.

Feedthrough

Multipin Connector

Coaxial

Thermocouple

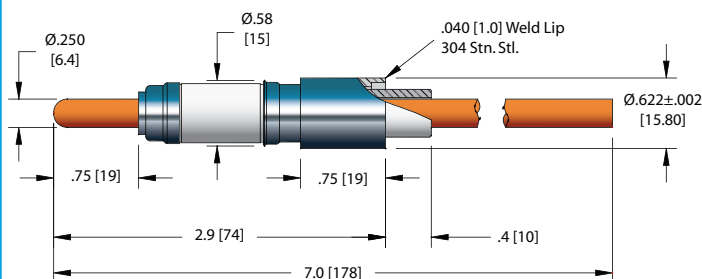
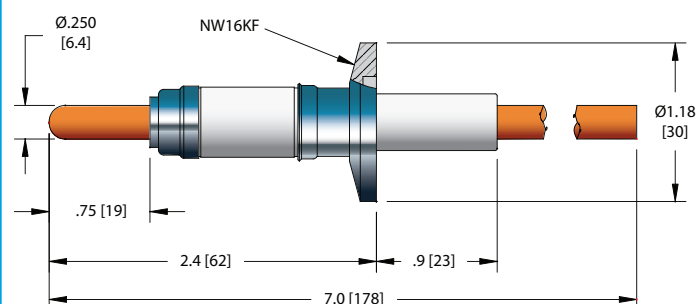
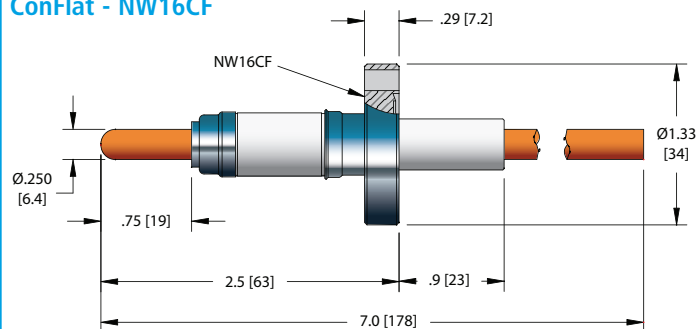
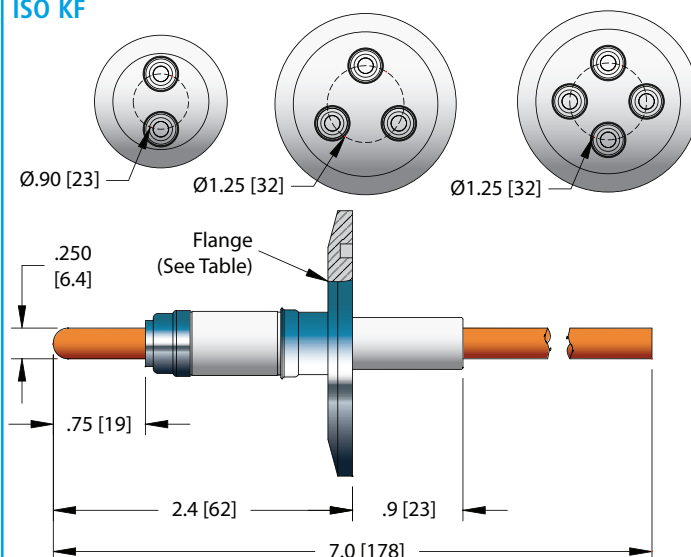
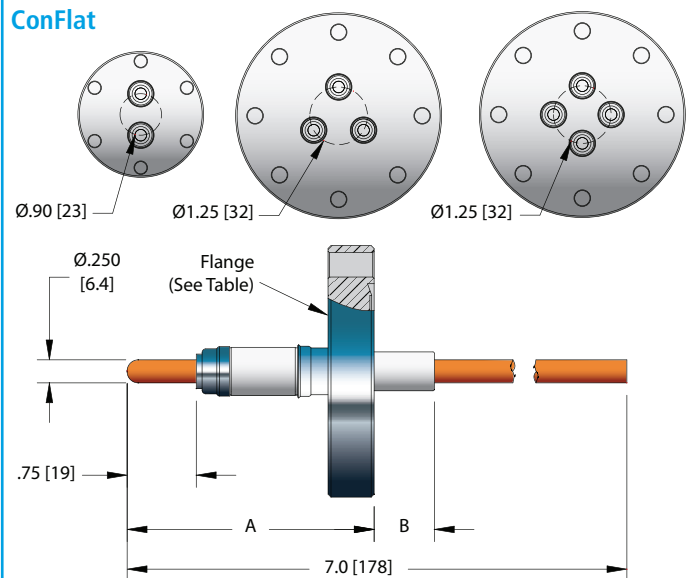
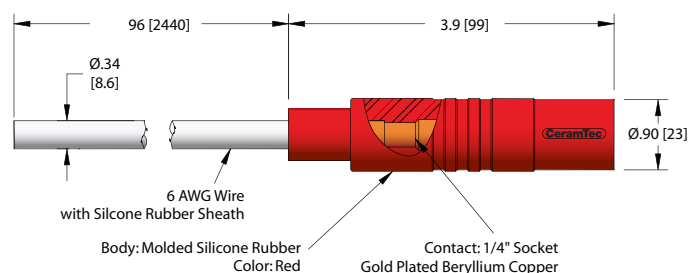
Isolator

Viewport

Pressure

Accessories

Technical Reference

Weldable**ISO KF - NW16KF****ConFlat - NW16CF****ISO KF****ConFlat****.250 Power Plug****Specifications****Materials**

Housing: 304 Stainless steel

Pin: See table

Insulation: Alumina ceramic

Magnetic Materials: Yes

Voltage Rating 25 kV DC***Current Rating** 185 Amps**Temperature Range** -269°C to 450°C, ISO KF -25°C to 205°C**Pressure @ 20°C** 750 PSIG (52 Bar), ISO KF 0 PSIG

*When used with air side cable assembly.

Weldable

NO.
PINSCONDUCTORS
AMPS

MATERIAL

INSTALLATION

DIMENSIONS
A BPART
NUMBER

1

185

Copper

Weld

-

-

20955-01-W

1

56

Nickel

Weld

-

-

20955-02-W

ISO FLANGE

1

185

Copper

NW16KF

-

-

21133-01-KF

1

56

Nickel

NW16KF

-

-

21133-02-KF

2

185

Copper

NW40KF

-

-

21149-01-KF

2

56

Nickel

NW40KF

-

-

21149-02-KF

3

185

Copper

NW50KF

-

-

21150-01-KF

3

56

Nickel

NW50KF

-

-

21150-02-KF

4

185

Copper

NW50KF

-

-

21151-01-KF

4

56

Nickel

NW50KF

-

-

21151-02-KF

CONFLAT FLANGE

1

185

Copper

1 1/3" (NW16CF)

-

-

21130-01-CF

1

56

Nickel

1 1/3" (NW16CF)

-

-

21130-02-CF

1

185

Copper

2 3/4" (NW35CF)

2.68 [68]

.65 [17]

21144-01-CF

1

56

Nickel

2 3/4" (NW35CF)

2.68 [68]

.65 [17]

21144-02-CF

2

185

Copper

2 3/4" (NW35CF)

2.68 [68]

.65 [17]

21145-01-CF

2

56

Nickel

2 3/4" (NW35CF)

2.68 [68]

.65 [17]

21145-02-CF

3

185

Copper

4 1/2" (NW63CF)

2.87 [73]

.47 [12]

21146-01-CF

3

56

Nickel

4 1/2" (NW63CF)

2.87 [73]

.47 [12]

21146-02-CF

4

185

Copper

4 1/2" (NW63CF)

2.87 [73]

.47 [12]

21147-01-CF

4

56

Nickel

4 1/2" (NW63CF)

2.87 [73]

.47 [12]

21147-02-CF

Air Side
Cable Assembly

TYPE

CABLE
TYPE

LENGTH

VOLTAGE
DCCONDUCTOR
AMPSTEMPERATURE °C
MIN MAXPART
NUMBER

.250 Power Plug

6 AWG

8'

25 kV

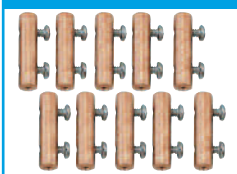
100

-55

125

20956-02-A

Contacts



TYPE

MATERIAL

DESCRIPTION

PART
NUMBER

0.250 Barrel Type Contacts

Beryllium Copper

Accepts wire up to 0.250 [6.4]

7332-06-A[†]

0.250 Clamp Type Contacts

Copper

Accepts wire up to 0.250 [6.4]

18740-01-A

*When used with air side cable assembly. **Contacts priced and sold in packages of 10. [†]Shown in photo.
See the Accessories section for more information on all accessories.

Feedthrough

Multipin Connector

Coaxial

Thermocouple

Isolator

Viewport

Pressure

Accessories

Technical Reference