

Whether you are looking for standard products or a partner to develop a new bonding technique for the latest advanced materials, Solid Sealing Technology has the right team for your requirements.

Contact SST for your next hermetic feedthrough requirement and experience the Customer Satisfaction and Technical Expertise you deserve!



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SOLID SEALING TECHNOLOGY, INC.

High Voltage Connectors



SST Quality Policy

SST will meet our Customer's Needs by assuring that our operational activities are customer focused and add value. We will integrate our continuous improvement philosophy into our daily workflows, all under the control of our quality management system.

Advanced Material Joining

NEW High Voltage Connector Products

Solid Sealing Technology introduces two new series of high voltage connector solutions that are made from using alumina ceramic to metal sealing technology. These high voltage connectors feature a small, compact design with a weldable diameter that ranges from .375 inches to 1.245 inches and are available for voltages up to 50 kV. The connectors are rated for currents from 3 to 10 amps and are suited for high voltage equipment manufacturers including semiconductor ion implants, particle accelerators and x-ray. Both series of high voltage connectors are suitable for high temperatures, UHV and pressure and provide an ideal solution for high voltage applications which maximize ratings, safety and the connection interface.

12 kV & 15 kV High Voltage Connectors

Solid Sealing Technology is now offering high voltage connectors with voltages of 12 kV and 15 kV for high voltage applications. The 12 kV connector has a pin diameter of .030 inches, while the 15 kV connector's pin diameter is measured at .038 inches. Current ratings differ in both connectors. SST's 12 kV connector has a current rating of 3 amps and our 15 kV connector has a rating of 7.5 amps.

Both connectors are available in different number of pins when put in different installations. Standard assembly installation for each connectors includes weldable, ConFlat® Flange, and ISO KF Flange. For the ConFlat® and ISO KF Flanges, the number of pins for each of the two connectors ranges from one to four.

30 kV & 50 kV High Voltage Connectors

Solid Sealing Technology now offers higher voltage connectors for 30 kV and 50 kV. Each connector features a pin diameter of .062 inches and has current ratings up to 10 amps. Both the 30 kV and 50 kV connectors feature a push on connection with a molded cable and an airside plug. Additionally, each connector maximizes the temperature rating at 450 °C. (Note: operating temperature ranges from -55 °C to 125 °C when the plug is connected.)

Standard assembly installation for each connector includes weldable, ConFlat® Flange, and ISO KF Flange.

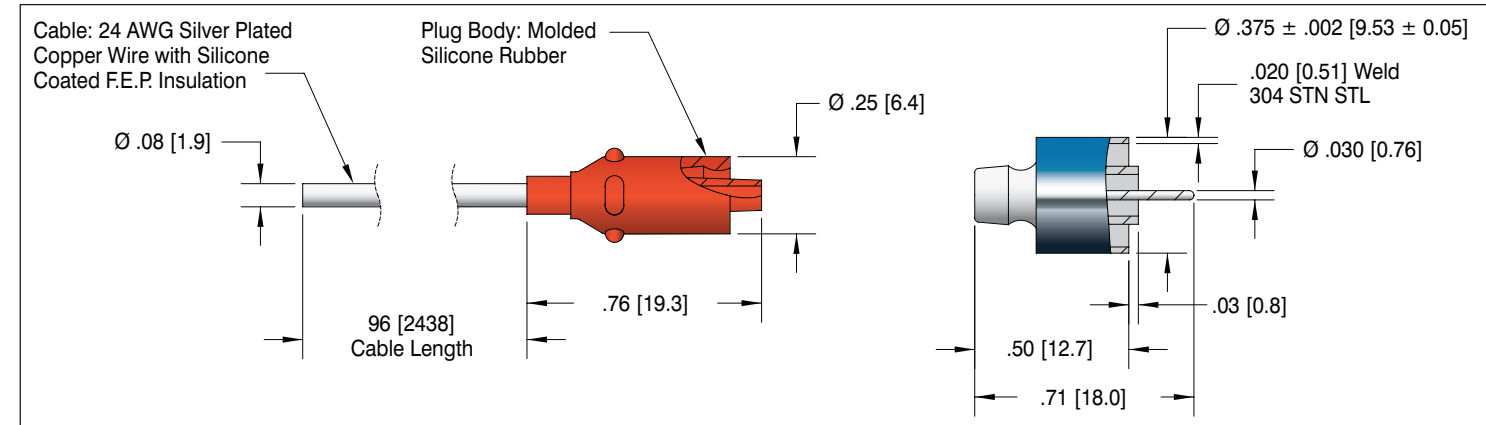


12 KV & 15 KV High Voltage Connectors

- Voltage up to 15 kV
- Current up to 7.5 amps
- Pressure up to 2200 PSIG (152 Bar)
- Airside plug included
- Gold plated molybdenum conductors
- Installation – Weldable, ConFlat® Flange or ISO KF Flanges

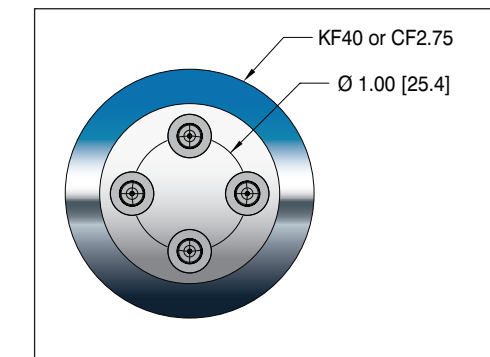
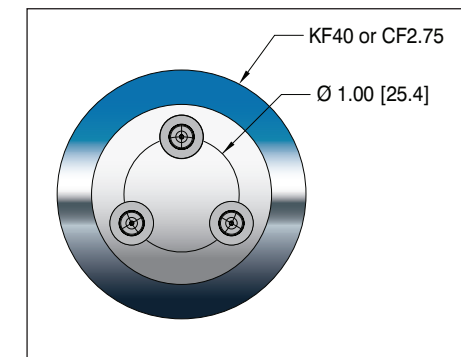
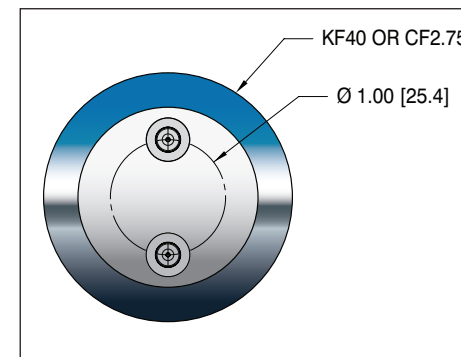
Temperature Ratings without Plug:
 -269°C to 450°C for Weldable and CF Flange Assemblies
 -25°C to 205°C for all ISO KF Assemblies

Temperature Ratings with Plug:
 -55°C to 125°C for Weldable and CF Flange Assemblies
 -25°C to 125°C for ISO KF Assemblies



No. of Pins	Pin Dia.	Current	Voltage	Installation	SST Part No.
1	0.030	3A	12 kV	Weld	KT19124
1	0.030	3A	12 kV	CF1.33	KT21817
1	0.030	3A	12 kV	KF16	KT21821
2	0.030	3A	12 kV	CF2.75	KT21818
2	0.030	3A	12 kV	KF40	KT21822
3	0.030	3A	12 kV	CF2.75	KT21819
3	0.030	3A	12 kV	KF40	KT21823
4	0.030	3A	12 kV	CF2.75	KT21820
4	0.030	3A	12 kV	KF40	KT21824

Pin Arrangement Options for CF or KF Flanges



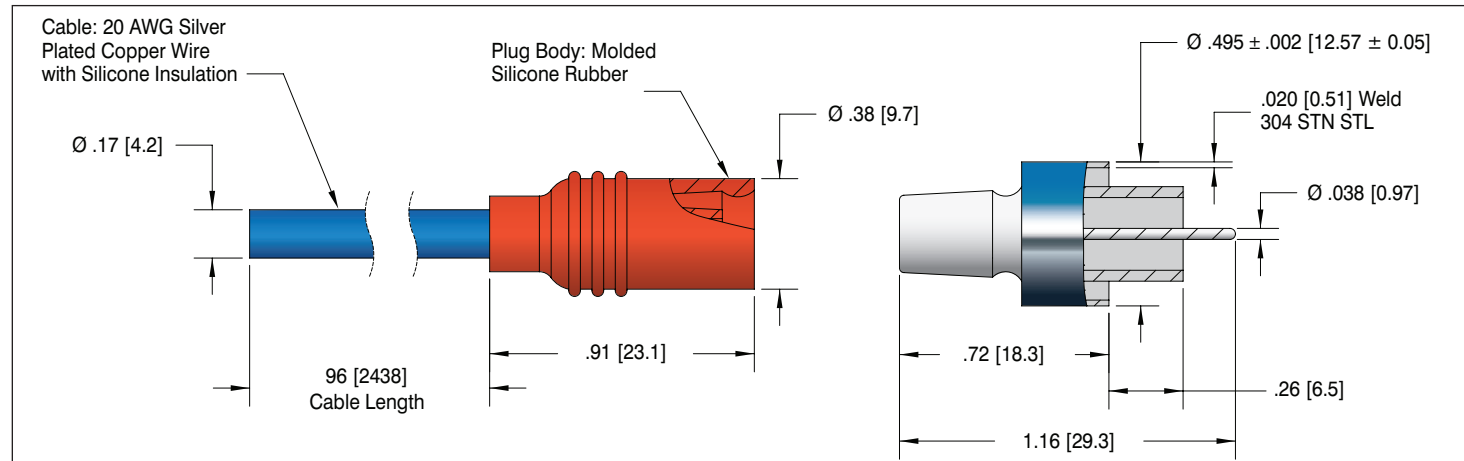
30 KV & 50 KV High Voltage Connectors

- Voltage up to 50 kV
- Current up to 10 amps
- Pressure up to 400 PSIG (28 Bar)
- Airside plug included
- Nickel plated steel conductors
- Installation – Weldable, ConFlat® Flange or ISO KF Flanges

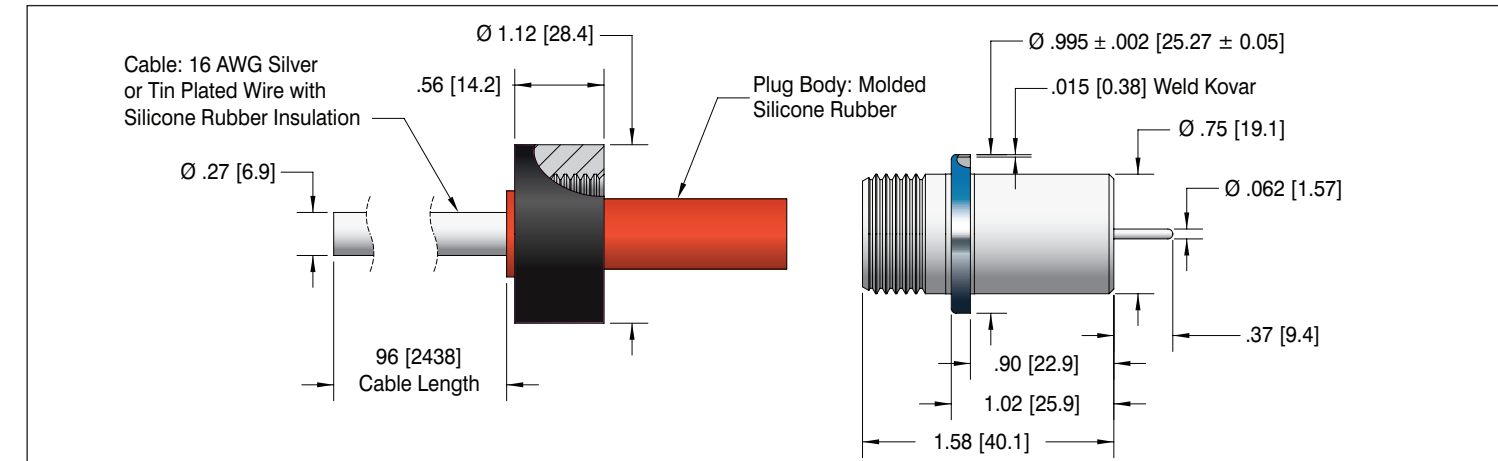
Temperature Ratings without Plug:
 -80°C to 450°C for Weldable and CF Flange Assemblies
 -25°C to 205°C for all ISO KF Assemblies

Temperature Ratings with Plug:
 -55°C to 125°C for Weldable and CF Flange Assemblies
 -25°C to 125°C for ISO KF Assemblies

15 KV

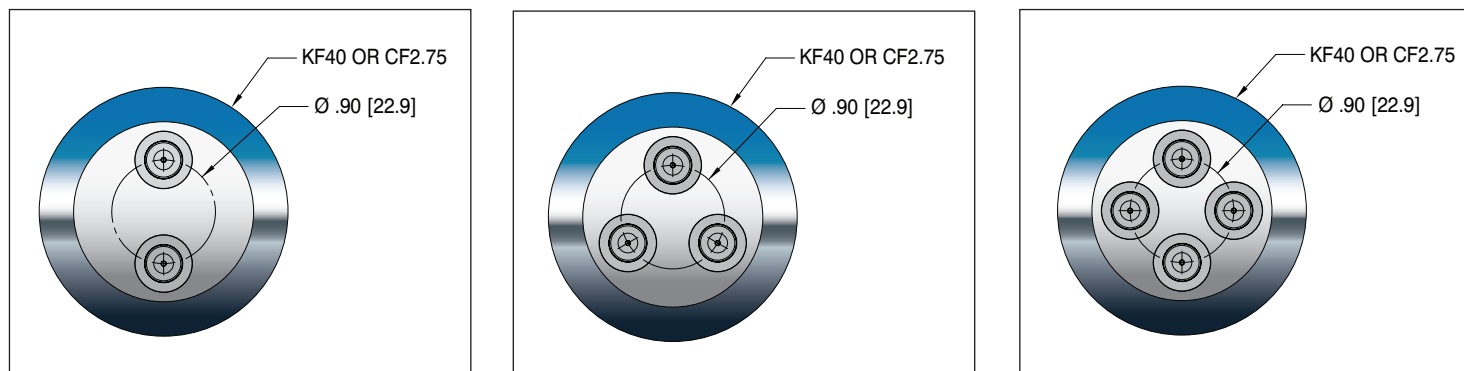


30 KV



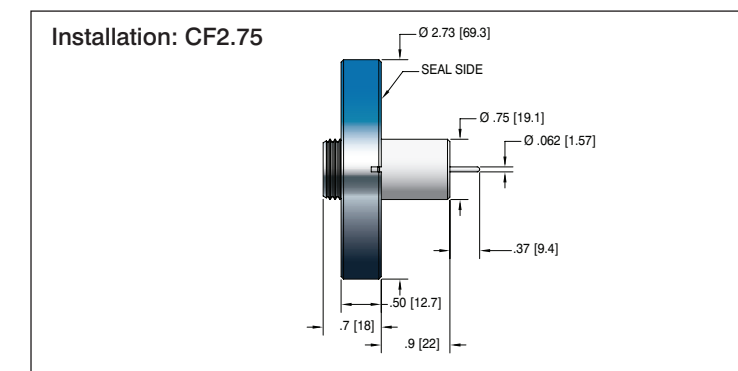
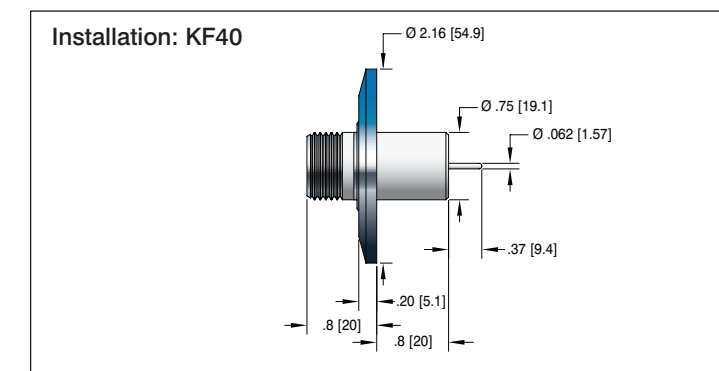
No. of Pins	Pin Dia.	Current	Voltage	Installation	SST Part No.
1	0.038	7.5A	15 kV	Weld	KT21328
1	0.038	7.5A	15 kV	CF1.33	KT21809
1	0.038	7.5A	15 kV	KF16	KT21813
2	0.038	7.5A	15 kV	CF2.75	KT21810
2	0.038	7.5A	15 kV	KF40	KT21814
3	0.038	7.5A	15 kV	CF2.75	KT21811
3	0.038	7.5A	15 kV	KF40	KT21815
4	0.038	7.5A	15 kV	CF2.75	KT21812
4	0.038	7.5A	15 kV	KF40	KT21816

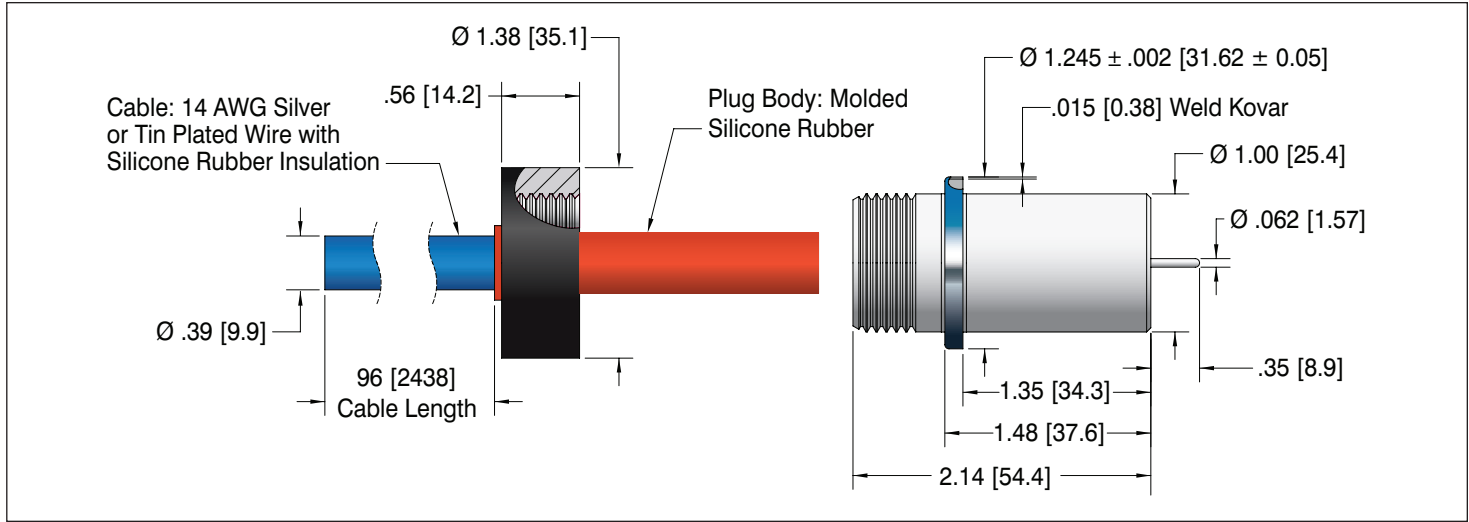
Pin Arrangement Options for CF or KF Flanges



No. of Pins	Pin Dia.	Current	Voltage	Installation	SST Part No.
1	0.062	10A	30 kV	Weld	KT21997
1	0.062	10A	30 kV	CF2.75	KT22001
1	0.062	10A	30 kV	KF40	KT22002

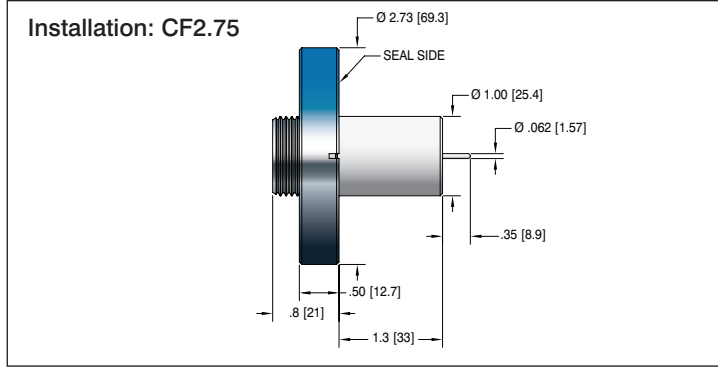
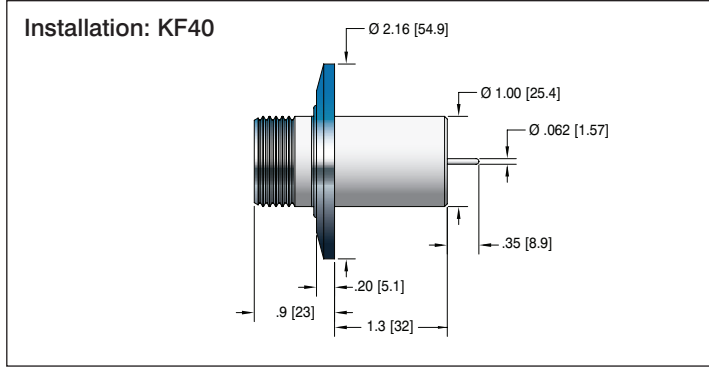
Installation Options





No. of Pins	Pin Dia.	Current	Voltage	Installation	SST Part No.
1	0.062	10A	50 kV	Weld	KT19082
1	0.062	10A	50 kV	CF2.75	KT21640
1	0.062	10A	50 kV	KF40	KT21639

Installation Options



Custom Design or Standard Products

SST provides ideal sealing solutions for demanding applications including high temperature, ultra-high vacuum, high voltage, high density and high pressure environments. Our products and unique capabilities enable us to service large OEMs, Distributors, and Research and Development Groups from various markets including: Semiconductor Equipment, Thin Film Coatings, Industrial Lasers, Homeland Security and

Defense, Medical, Nanotechnology, Power Distribution, Telecommunications, and High Energy Physics.

Please visit our website at www.solidsealing.com for a complete listing of our standard products including 3-D Models, PDF and GIF drawing files or contact us with your specific custom requirement.

