

Description

Our Single ended coaxial feedthroughs show a straight design. They are suitable for signal measurements in an environment with even limited space.

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request
- Grounded shield version
- Pin diameter on vacuum side 2.4mm



Specification:

Voltage	max. 500 V@DC
Current	3 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX BNC GROUNDED SE 1PIN CF16 W/AIR CON	1-CX-0010
COAX BNC GROUNDED SE 1PIN CF40 W/AIR CON	1-CX-1010
COAX BNC GROUNDED SE 2PIN CF40 W/AIR CON	1-CX-2010
COAX BNC GROUNDED SE 3PIN CF40 W/AIR CON	1-CX-3010
COAX BNC GROUNDED SE 4PIN CF40 W/AIR CON	1-CX-4010
COAX BNC GROUNDED SE 1PIN KF16 W/AIR CON	1-CX-5010
COAX BNC GROUNDED SE 1PIN KF40 W/AIR CON	1-CX-6010
COAX BNC GROUNDED SE 2PIN KF40 W/AIR CON	1-CX-7010
COAX BNC GROUNDED SE 3PIN KF50 W/AIR CON	1-CX-8010
COAX BNC GROUNDED SE 4PIN KF50 W/AIR CON	1-CX-9010
COAX BNC GROUNDED SE 1PIN WELD W/AIR CON	1-CX-0110

BNC Coaxial Grounded Shield Double Ended

Description

Double ended coaxial feedthroughs show the typical Bayonet style connector on air- and vacuum side for continuous signal measurements.

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side included
- Custom configuration available on request
- Grounded shield version

Specification:

Voltage max. 500 V@DC

Current 3 Amp

Impedance Not constant

Temperature range

CF mounted FT -200 to 450°C

KF mounted FT -20 to 150°C

Weldable -200 to 450°C

Air side connector -65 to 165°C

Description	Part Number
COAX BNC GROUNDED DE 1PIN CF16 W/AIR CON	1-CX-1110
COAX BNC GROUNDED DE 1PIN CF40 W/AIR CON	1-CX-2110
COAX BNC GROUNDED DE 2PIN CF40 W/AIR CON	1-CX-3110
COAX BNC GROUNDED DE 1PIN KF40 W/AIR CON	1-CX-4110
COAX BNC GROUNDED DE 2PIN KF50 W/AIR CON	1-CX-5110
COAX BNC GROUNDED DE 3PIN KF50 W/AIR CON	1-CX-6110
COAX BNC GROUNDED DE 1PIN WELD W/AIR CON	1-CX-7110

Description

Single ended coaxial feedthroughs in floating shield design pass the shielding through without getting in contact with the flange or chamber wall.

Furthermore, Double ended coaxial feedthroughs show the typical Bayonet style connector on air- and vacuum side.

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request
- Floating shield design
- Pin diameter on vacuum side 2.4mm when Single ended

Specification:

Voltage	max. 500 V@DC
Current	3 Amp
Impedance	Not constant

Temperature range

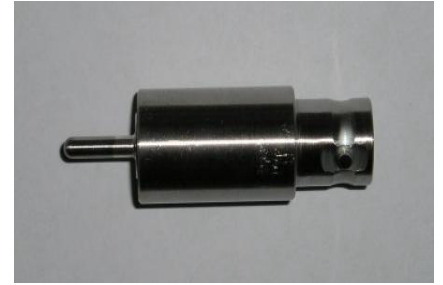
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX BNC FLOAT SE 1PIN CF16 W/AIR CON	1-CX-8110
COAX BNC FLOAT SE 1PIN CF40 W/AIR CON	1-CX-9110
COAX BNC FLOAT DE 1PIN CF16 W/AIR CON	1-CX-0210
COAX BNC FLOAT DE 1PIN CF40 W/AIR CON	1-CX-1210
COAX BNC FLOAT SE 1PIN KF16 W/AIR CON	1-CX-2210
COAX BNC FLOAT SE 1PIN KF40 W/AIR CON	1-CX-3210
COAX BNC FLOAT DE 1PIN KF16 W/AIR CON	1-CX-4210
COAX BNC FLOAT DE 1PIN KF40 W/AIR CON	1-CX-5210
COAX BNC FLOAT DE 1PIN WELD W/AIR CON	1-CX-6210

MHV Coaxial Grounded Shield Single Ended

Description

Our MHV Single ended coaxial feedthroughs show a straight design. In addition to standard BNC feedthroughs the MHV feedthroughs can be used up to 5000V@DC.



Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Medium voltage
- Custom configuration available on request
- Grounded shield design
- Pin diameter on vacuum side 2.4mm

Specification:

Voltage	max. 5000 V@DC
Current	3 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX MHV GROUNDED SE 1PIN CF16 W/AIR CON	1-CX-7210
COAX MHV GROUNDED SE 1PIN CF40 W/AIR CON	1-CX-8210
COAX MHV GROUNDED SE 2PIN CF40 W/AIR CON	1-CX-9210
COAX MHV GROUNDED SE 3PIN CF40 W/AIR CON	1-CX-0310
COAX MHV GROUNDED SE 4PIN CF40 W/AIR CON	1-CX-1310
COAX MHV GROUNDED SE 1PIN KF16 W/AIR CON	1-CX-2310
COAX MHV GROUNDED SE 1PIN KF40 W/AIR CON	1-CX-3310
COAX MHV GROUNDED SE 2PIN KF40 W/AIR CON	1-CX-4310
COAX MHV GROUNDED SE 3PIN KF50 W/AIR CON	1-CX-5310
COAX MHV GROUNDED SE 4PIN KF50 W/AIR CON	1-CX-6310
COAX MHV GROUNDED SE 1PIN WELD W/AIR CON	1-CX-7310

Description

Double ended coaxial feedthroughs show the typical Bayonet style connector on air- and vacuum side.

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Medium voltage
- Custom configuration available on request
- Grounded shield design

Specification:

Voltage	max. 5000 V@DC
Current	3 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450°C
KF mounted FT	-20 to 150°C
Weldable	-200 to 450°C
Air side connector	-65 to 165°C

Description	Part Number
COAX MHV GROUNDED DE 1PIN CF16 W/AIR CON	1-CX-8310
COAX MHV GROUNDED DE 1PIN CF40 W/AIR CON	1-CX-9310
COAX MHV GROUNDED DE 2PIN CF40 W/AIR CON	1-CX-0410
COAX MHV GROUNDED DE 1PIN KF16 W/AIR CON	1-CX-1410
COAX MHV GROUNDED DE 1PIN KF40 W/AIR CON	1-CX-2410
COAX MHV GROUNDED DE 2PIN KF50 W/AIR CON	1-CX-3410
COAX MHV GROUNDED DE 3PIN KF50 W/AIR CON	1-CX-4410
COAX MHV GROUNDED DE 1PIN WELD W/AIR CON	1-CX-5410

MHV Coaxial Floating Shield Single & Double Ended

Description

Single ended coaxial feedthroughs in floating shield design pass the shielding through without getting in contact with the flange or chamber wall.

Furthermore, Double ended coaxial feedthroughs show the typical Bayonet style connector on air- and vacuum side.

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Medium voltage
- Custom configuration available on request
- Pin diameter on vacuum side 2.4mm when Single ended

Specification:

Voltage	max. 5000 V@DC
Current	3 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX MHV FLOAT DE 1PIN CF16 W/AIR CON	1-CX-6410
COAX MHV FLOAT DE 1PIN CF40 W/AIR CON	1-CX-7410
COAX MHV FLOAT SE 1PIN KF16 W/AIR CON	1-CX-8410
COAX MHV FLOAT SE 1PIN KF40 W/AIR CON	1-CX-9410
COAX MHV FLOAT DE 1PIN KF16 W/AIR CON	1-CX-0510
COAX MHV FLOAT DE 1PIN KF40 W/AIR CON	1-CX-1510
COAX MHV FLOAT DE 1 PIN WELD W/AIR CON	1-CX-2510

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Exposed ceramic on vacuum side
- Custom configuration available on request

**Specification:**

Voltage	max. 5000 V@DC
Current	5 Amp
Impedance	Not constant

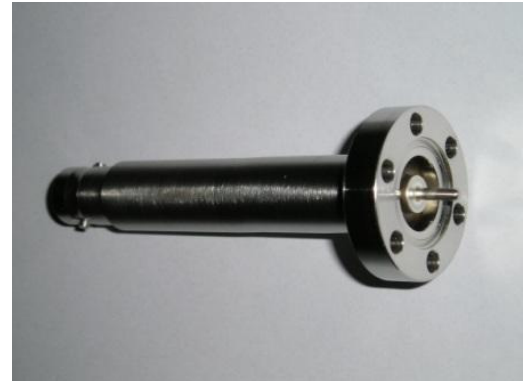
Temperature range

CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX SHV-5 EXP 1PIN CF16 W/AIR CON	1-CX-3510
COAX SHV-5 EXP 1PIN CF40 W/AIR CON	1-CX-4510
COAX SHV-5 EXP 2PIN CF40 W/AIR CON	1-CX-5510
COAX SHV-5 EXP 3PIN CF40 W/AIR CON	1-CX-6510
COAX SHV-5 EXP 4PIN CF40 W/AIR CON	1-CX-7510
COAX SHV-5 EXP 1PIN KF16 W/AIR CON	1-CX-8510
COAX SHV-5 EXP 1PIN KF40 W/AIR CON	1-CX-9510
COAX SHV-5 EXP 2PIN KF40 W/AIR CON	1-CX-0610
COAX SHV-5 EXP 3PIN KF50 W/AIR CON	1-CX-1610
COAX SHV-5 EXP 4PIN KF50 W/AIR CON	1-CX-2610
COAX SHV-5 EXP SE 1PIN WELD W/AIR CON	1-CX-3610

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request
- Recessed ceramic on vacuum side



Specification:

Voltage	max. 5000 V@DC
Current	5 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450°C
KF mounted FT	-20 to 150°C
Weldable	-200 to 450°C
Air side connector	-65 to 165°C

Description	Part Number
COAX SHV-5 REC 1PIN CF16 W/AIR CON	1-CX-4610
COAX SHV-5 REC 1PIN CF40 W/AIR CON	1-CX-5610
COAX SHV-5 REC 2PIN CF40 W/AIR CON	1-CX-6610
COAX SHV-5 REC 3PIN CF40 W/AIR CON	1-CX-7610
COAX SHV-5 REC 4PIN CF40 W/AIR CON	1-CX-8610
COAX SHV-5 REC 1PIN KF16 W/AIR CON	1-CX-9610
COAX SHV-5 REC 1PIN KF40 W/AIR CON	1-CX-0710
COAX SHV-5 REC 2PIN KF40 W/AIR CON	1-CX-1710
COAX SHV-5 REC 3PIN KF50 W/AIR CON	1-CX-2710
COAX SHV-5 REC 4PIN KF50 W/AIR CON	1-CX-3710
COAX SHV-5 REC SE 1PIN WELD W/AIR CON	1-CX-4710

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request
- Exposed ceramic on vacuum side

**Specification:**

Voltage	max. 10.000 V@DC
Current	5 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-100 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-100 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX SHV-10 EXP 1PIN CF16 W/AIR CON	1-CX-5710
COAX SHV-10 EXP 1PIN CF40 W/AIR CON	1-CX-6710
COAX SHV-10 EXP 2PIN CF40 W/AIR CON	1-CX-7710
COAX SHV-10 EXP 3PIN CF40 W/AIR CON	1-CX-8710
COAX SHV-10 EXP 4PIN CF40 W/AIR CON	1-CX-9710
COAX SHV-10 EXP 1PIN KF16 W/AIR CON	1-CX-0810
COAX SHV-10 EXP 1PIN KF40 W/AIR CON	1-CX-1810
COAX SHV-10 EXP 2PIN KF40 W/AIR CON	1-CX-2810
COAX SHV-10 EXP 3PIN KF50 W/AIR CON	1-CX-3810
COAX SHV-10 EXP 4PIN KF50 W/AIR CON	1-CX-4810
COAX SHV-10 EXP SE 1PIN WELD W/AIR CON	1-CX-5810

Features

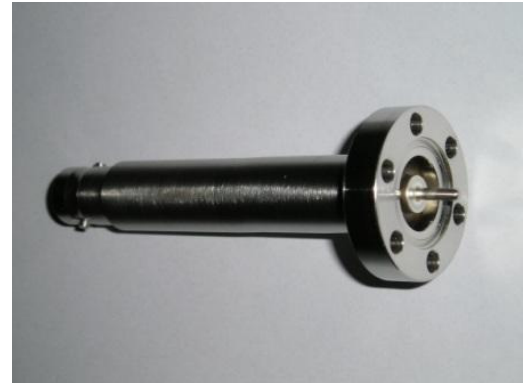
- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request
- Recessed ceramic on vacuum side

Specification:

Voltage max. 10.000 V@DC
Current 5 Amp
Impedance Not constant

Temperature range

CF mounted FT -100 to 450°C
 KF mounted FT -20 to 150°C
 Weldable -100 to 450°C
 Air side connector -65 to 165°C



Description	Part Number
COAX SHV-10 REC 1PIN CF16 W/AIR CON	1-CX-6810
COAX SHV-10 REC 2PIN CF40 W/AIR CON	1-CX-7810
COAX SHV-10 REC 3PIN CF40 W/AIR CON	1-CX-8810
COAX SHV-10 REC 4PIN CF40 W/AIR CON	1-CX-9810
COAX SHV-10 REC 1PIN KF16 W/AIR CON	1-CX-0910
COAX SHV-10 REC 1PIN KF40 W/AIR CON	1-CX-1910
COAX SHV-10 REC 2PIN KF40 W/AIR CON	1-CX-2910
COAX SHV-10 REC 3PIN KF50 W/AIR CON	1-CX-3910
COAX SHV-10 REC 4PIN KF50 W/AIR CON	1-CX-4910
COAX SHV-10 REC SE 1PIN WELD W/AIR CON	1-CX-5910

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request
- Exposed ceramic on vacuum side

**Specification:**

Voltage	max. 20.000 V@DC
Current	15 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX SHV-20 EXP 1PIN CF16 W/AIR CON	1-CX-6910
COAX SHV-20 EXP 1PIN CF40 W/AIR CON	1-CX-7910
COAX SHV-20 EXP 2PIN CF40 W/AIR CON	1-CX-8910
COAX SHV-20 EXP 1PIN KF40 W/AIR CON	1-CX-9910
COAX SHV-20 EXP 2PIN KF50 W/AIR CON	1-CX-0020
COAX SHV-20 EXP SE 1PIN WELD W/AIR CON	1-CX-1020

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Bakeable Air side connector
- Threaded style connection
- Custom configuration available on request

Specification:

Voltage	max. 7500 V@DC
Current	3 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-200 to 350 °C

Description	Part Number
COAX SHV-B 1PIN CF16 W/AIR CON	1-CX-9020
COAX SHV-B 1PIN CF40 W/AIR CON	1-CX-0120
COAX SHV-B 1PIN KF16 W/AIR CON	1-CX-1120
COAX SHV-B 2PIN KF50 W/AIR CON	1-CX-2120
COAX SHV-B SE 1PIN WELD W/AIR CON	1-CX-3120

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Threaded style connection
- High frequency transmission 1GHz
- Custom configuration available on request

Specification:

Voltage	max. 500 V@DC
Current	3 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-200 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-200 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX TYPE-N SE 1PIN CF16 W/AIR CON	1-CX-4120
COAX TYPE-N SE 1PIN CF40 W/AIR CON	1-CX-5120
COAX TYPE-N DE 1PIN CF40 W/AIR CON	1-CX-6120
COAX TYPE-N SE 1PIN KF16 W/AIR CON	1-CX-7120
COAX TYPE-N SE 1PIN KF40 W/AIR CON	1-CX-8120
COAX TYPE-N SE 1 PIN WELD W/AIR CON	1-CX-9120
COAX TYPE-N DE 1 PIN WELD W/AIR CON	1-CX-0220

SMA Coaxial Single & Double Ended

Features

- UHV compatible construction
- Available CF / KF and weldable configuration
- Including Air side connector
- Threaded style connection
- High frequency transmission 1GHz
- Custom configuration available on request

Specification:

Voltage max. 700 V@DC

Current 1 Amp

Impedance

Single Ended Not constant

Double Ended Matched

Temperature range

CF mounted FT -200 to 450°C

KF mounted FT -20 to 150°C

Weldable -200 to 450°C

Air side connector -65 to 165°C

Description	Part Number
COAX SME SE 1PIN WELD W/AIR CON	1-CX-5220
COAX SME DE 1PIN WELD W/AIR CON	1-CX-6220
COAX SMA SE 1PIN CF16 W/AIR CON	1-CX-1220
COAX SMA DE 1PIN CF16 W/AIR CON	1-CX-2220
COAX SMA SE 1PIN KF16 W/AIR CON	1-CX-3220
COAX SMA DE 1PIN KF16 W/AIR CON	1-CX-4220

Features

- UHV compatible construction
- Available on CF configuration
- Including Air side connector
- Threaded style connection
- Custom configuration available on request



Specification:

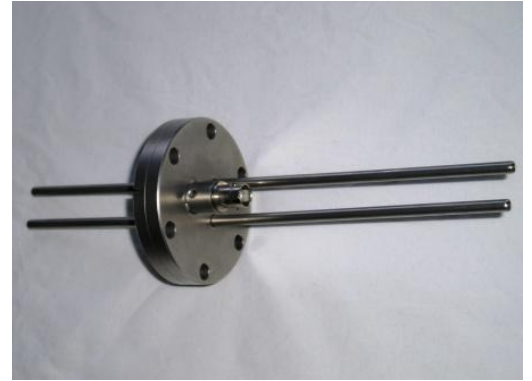
Voltage	max. 500 V@DC
Current	2 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	-100 to 450 °C
KF mounted FT	-20 to 150 °C
Weldable	-100 to 450 °C
Air side connector	-65 to 165 °C

Description	Part Number
COAX MICRODOT GRO SE 1PIN CF16 W/AIR CON	1-CX-7220

BNC-Microdot Crystal Sensor Feedthrough

Features

- UHV compatible construction
- Available on CF/KF/Baseplate 1" and Weldable configuration
- Including Air side connector
- Bayonet style connector on air side
- Custom configuration available on request



Specification:

Voltage	max. 500 V@DC
Current	1 Amp
Impedance	Not constant
Temperature range	
CF mounted FT	400 °C
KF mounted FT	150 °C
Weldable	450 °C
Air side connector	125 °C

Description	Part Number
FT ON CF40 2 WATER + 1 COAXIAL	6-CF-0040
FT ON KF40 2 WATER + 1 COAXIAL	6-CF-2040
COAX BNC TO MICRODOT WELD	1-CX-8220

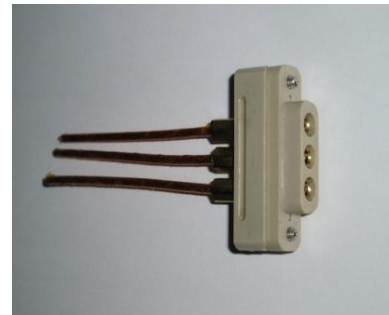
Description

We are also offering Coaxial feedthroughs embedded in Subminiature-D shells. Possible configurations are 1, 3 and 5 pin versions with a floating shield design. The pins and shields are gold plated and independently sealed in glass ceramic.

Air and Vacuum side connector and coaxial cable assemblies are available.

The 1-pin version will be provide with 4 additional signal pins.

Please contact the sales office for customized Subminiature-D coaxial assemblies..



Specification:

Voltage	max. 500 V@DC
Current	5 Amp max @ 20 °C
Temperature range	
Feedthrough	250 °C
Connector, air/vacuum	80/250 °C
Thermal gradient	25àC/minute max

Features

- 1,3 & 5 pin configuration
- Floating shield design
- Kapton insulated, vacuum compatible 50-Ohm cables
- High temperature rated to 250 °C
- UHV compatible construction
- PEEK connector with locking screws
- Air side connectors available
- Custom versions on request
- Coaxial shield, Pins out of Ni-Fe alloy, gold plated
- Seal/Insulation by Glass ceramic

Description	Part Number
SUB-D COAXIAL FT 1 COAX 4 INSTR ON CF40	1-CX-2420
SUB-D COAXIAL FT 3 COAX ON CF63	1-CX-3420
SUB-D COAXIAL FT 5 COAX ON CF63	1-CX-4420
SUB-D COAXIAL FT 1 COAX 4 INSTR ON KF40	1-CX-5420
SUB-D COAXIAL FT 3 COAX ON KF50	1-CX-6420
SUB-D COAXIAL FT 5 COAX ON LF63	1-CX-7420