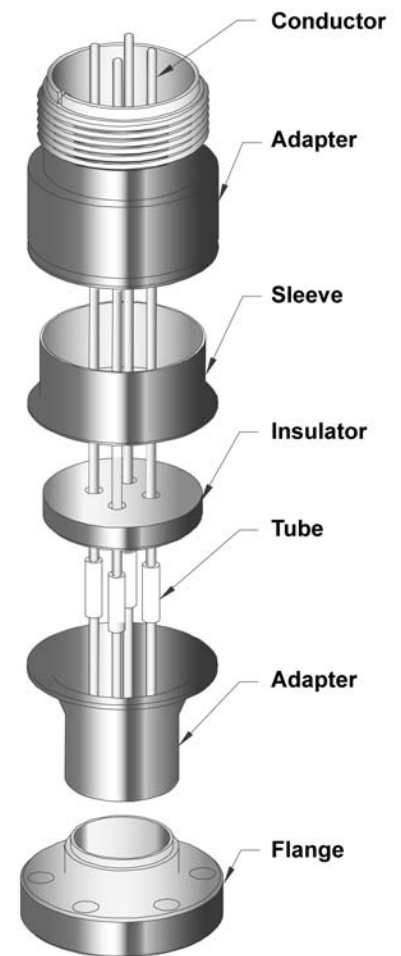


Introduction

Multipin feedthroughs

contain multiple conductor paths or pins. The feedthroughs are used for transmission of electrical signals and/or currents into the UHV. In addition to atmosphere side connectors, there are connectors for both sides available for a series of feedthroughs.

The chapter includes a large selection of circular plug-in connectors with up to 41 contacts for voltages from 500 V to 12 kV. In addition, VACOM offers compact power feedthroughs with Mini-SNAP connectors and SUB D feedthroughs. SUB D style feedthroughs with 9 to 50 contacts provide maximum space and weight saving. Atmosphere and vacuum side plugs are available for SUB D feedthroughs.



Multipin Feedthroughs with Plug Connectors

Compact Power Feedthroughs with Mini-Snap Connector

Voltage: 700 V and 1000 V

Technical data

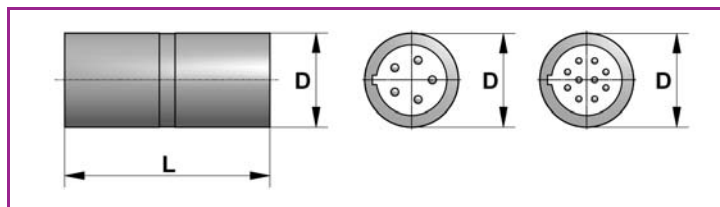
■ Magnetic	yes
■ Leak rate	< 1.0E-9 mbar l/s
■ Pressure resistance	14 bar

Material

■ Housing	stainless steel
■ Conductors	Kovar® (gold plated)
■ Insulator	alumina ceramics

Temperature range

■ Without flange	-200 °C to 350 °C
■ On KF flange	-25 °C to 205 °C
■ On CF flange	-269 °C to 350 °C



Current load for feedthrough and accessories

■ Per pin with 5 pins	10 A
■ Under load with 5 pins	max. 7.5 A
■ Per pin with 10 pins	5 A
■ Under load with 10 pins	max. 2.75 A

Voltage for feedthrough and accessories

■ Under load with 5 pins	700 V
■ Under load with 10 pins	1000 V

Accessories

Contact insert with soldering tags

■ Contact material	brass alloy
■ Insulator	PEEK
■ Bakeable to	120 °C
■ Strain-relieved	no

Contact insert with crimp contacts

■ Contact material	beryllium-copper
■ Insulator	PEEK
■ Bakeable to	240 °C
■ Strain-relieved	no

Single crimp contacts

■ Material	beryllium-copper
■ Bakeable to	240 °C
■ Packing unit	5 pieces

Multipin Feedthroughs with Plug Connectors

Compact Power Feedthroughs with Mini-Snap Connector

Voltage: 700 V and 1000 V

Without flange



Order code	Number of pins	D	L	Voltage (V)
VB-1B-05	5	12	26.2	1000
VB-1B-10	10	12	26.2	700

On KF flange



Order code	Flange	Number of pins	D	L	Voltage (V)
KF16-VB-1B-05	DN16KF	5	30	29.4	1000
KF16-VB-1B-10	DN16KF	10	30	29.4	700
KF25-VB-1B-05	DN25KF	5	40	29.4	1000
KF25-VB-1B-10	DN25KF	10	40	29.4	700
KF40-VB-1B-05	DN40KF	5	55	29.4	1000
KF40-VB-1B-10	DN40KF	10	55	29.4	700

On CF flange



Order code	Flange	Number of pins	D	L	Voltage (V)
CF16-VB-1B-05	DN16CF	5	34	26.2	1000
CF16-VB-1B-10	DN16CF	10	34	26.2	700
CF40-VB-1B-05	DN40CF	5	70	26.2	1000
CF40-VB-1B-10	DN40CF	10	70	26.2	700

Contact insert, with soldering tags



Order code	Number of pins	Connector
PLUG-MINI-05-P-MEL	5	PLUG-MINI-05-A, VB-1B-05
PLUG-MINI-10-P-MEL	10	PLUG-MINI-10-A, VB-1B-10

Contact insert, with crimp contacts



Order code	Number of pins	Connector
PLUG-MINI-05-P	5	PLUG-MINI-05-A, VB-1B-05
PLUG-MINI-10-P	10	PLUG-MINI-10-A, VB-1B-10

Single contacts

Order code	Number of pins
PLUG-MINI-05-EK	5
PLUG-MINI-10-EK	10

Multipin Feedthroughs with Plug Connectors

Compact Power Feedthroughs with Mini-Snap Connector

For wall mounting with FKM seal

Technical data

■ Magnetic	yes
■ Leak rate	< 1.0E-9 mbar l/s
■ Assembly bore	Ø 14.1

Material

■ Housing	copper alloy (matt chrome coated)
■ Solder cups	copper alloy (gold plated)
■ Insulator	PBT for socket

Temperature range

■	-10 °C to 80 °C
---	-----------------

Current load

■ Per pin with 5 pins	10 A
■ Under load with 5 pins	max. 7.5 A
■ Per pin with 10 pins	5 A
■ Under load with 10 pins	max. 2.75 A

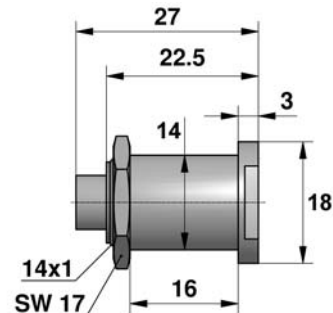
Cross section of soldering cups

■ With 5 pins	0.38 mm ²
■ With 10 pins	0.08 mm ²

Accessories

Atmosphere side plug

■ Material	brass (nickel-plated)
■ Contact material	brass alloy
■ Insulator	PEEK
■ Temperature range	-40 °C to 120 °C
■ Strain-relieved	yes



Multipin Feedthroughs with Plug Connectors

Compact Power Feedthroughs with Mini-Snap Connector

For wall mounting with FKM seal

Without flange



Order code	Number of pins	Voltage (V)
VBBP-1B-05	5	1000
VBBP-1B-10	10	700

On KF flange



Order code	Flange	Number of pins	Voltage (V)
KF25-VBBP-1B-05	DN25KF	5	1000
KF25-VBBP-1B-10	DN25KF	10	700
KF40-VBBP-1B-05	DN40KF	5	1000
KF40-VBBP-1B-10	DN40KF	10	700

Mini-snap connector, atmosphere side



Order code	Number of pins
PLUG-MINI-05-A	5
PLUG-MINI-10-A	10

Multipin Feedthroughs with Plug Connectors

Sub D Feedthroughs MIL-C-24308 with Plugs on Both Sides

Voltage: 500 V, 9 - 50 pins

Technical data

■ Magnetic no

Material

■ Weld adapter stainless steel 304
 ■ Conductors stainless steel 304 (gold plated)
 ■ Insulator glass ceramics

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ 5 A

Accessories

Atmosphere side plug

■ Material copper alloy
 ■ Insulator reinforced plastics
 ■ Temperature range -55 °C to 105 °C
 ■ Magnetic yes
 ■ Current 5 A

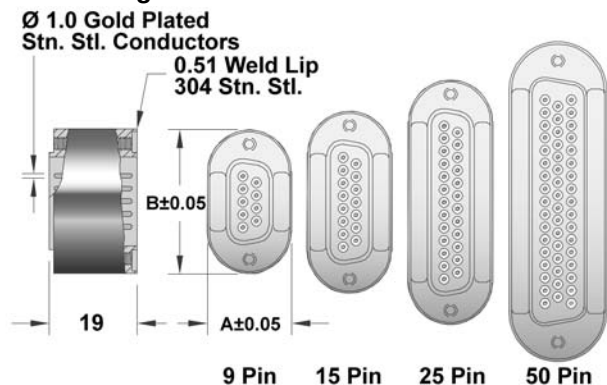
Vacuum side plug

■ Material copper alloy
 ■ Insulator PEEK
 ■ Temperature range -269 °C to 200 °C
 ■ Magnetic no
 ■ Current 5 A

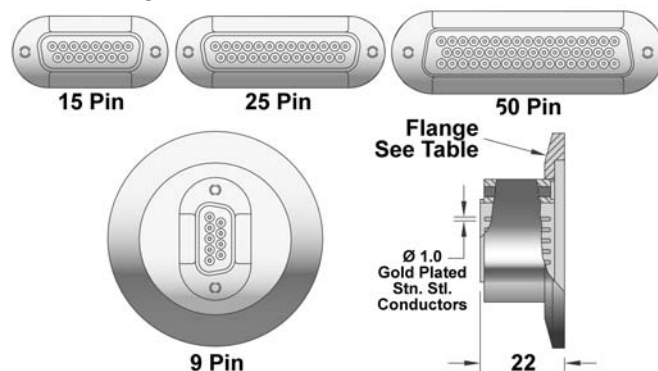
Single crimp contacts

■ Conductor diameter 1.0 mm
 ■ Material copper alloy (gold plated)
 ■ Temperature range -200 °C to 200 °C
 ■ Current 15 A
 ■ Packing unit 5 pieces

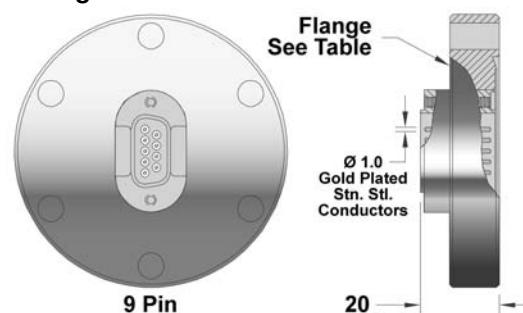
without flange



on KF flange



on CF flange



Multipin Feedthroughs with Plug Connectors

Sub D Feedthroughs MIL-C-24308 with Plugs on Both Sides

Voltage: 500 V, 9 - 50 pins

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)	A	B
W-SUBD-9-DE-CE-SSG	9	93.1	18.29	31.34
W-SUBD-15-DE-CE-SSG	15	86.1	18.29	39.67
W-SUBD-25-DE-CE-SSG	25	82.7	18.29	53.39
W-SUBD-50-DE-CE-SSG	50	62.1	21.13	69.54

On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF40-SUBD-9-DE-CE-SSG	DN40KF	9	6
KF50-SUBD-15-DE-CE-SSG	DN50KF	15	6

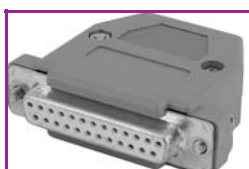
* With trapped centering ring and clamp chain

On CF flange



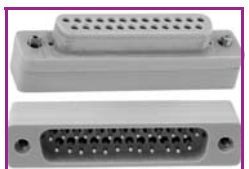
Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF40-SUBD-9-DE-CE-SSG	DN40CF	9	93.1
CF63-SUBD-15-DE-CE-SSG	DN63CF	15	86.2
CF63-SUBD-25-DE-CE-SSG	DN63CF	25	82.7
CF100-SUBD-50-DE-CE-SSG	DN100CF	50	62.1

Atmosphere side plug



Order code	Number of pins
PLUG-SUB-D-9	9
PLUG-SUB-D-15	15
PLUG-SUB-D-25	25
PLUG-SUB-D-50	50

Vacuum and atmosphere side plug



Order code		Number of pins
female	male	
PLUG-SUBD-9-P-CL	PLUG-SUBD-9-P-CLM	9
PLUG-SUBD-15-P-CL	PLUG-SUBD-15-P-CLM	15
PLUG-SUBD-25-P-CL	PLUG-SUBD-25-P-CLM	25
PLUG-SUBD-50-P-CL	PLUG-SUBD-50-P-CLM	50

Single contacts

Order code	Description
EK-SUBD-CLG10	crimp contact

Multipin Feedthroughs with Plug Connectors

Micro D Feedthroughs MIL-DTL-83513 with Plugs on Both Sides

Voltage: 375 V, 9 - 51 pins

Technical data

■ Magnetic no

Material

■ Weld adapter stainless steel 304
 ■ Conductors stainless steel 1.4301 (gold plated)
 ■ Insulator glass ceramics

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ Per pin 1 A

Accessories

Atmosphere side plug

■ Magnetic no
 ■ Material copper alloy
 ■ Insulator reinforced plastics
 ■ Current per pin 3 A
 ■ Temperature range -55 °C to 125 °C

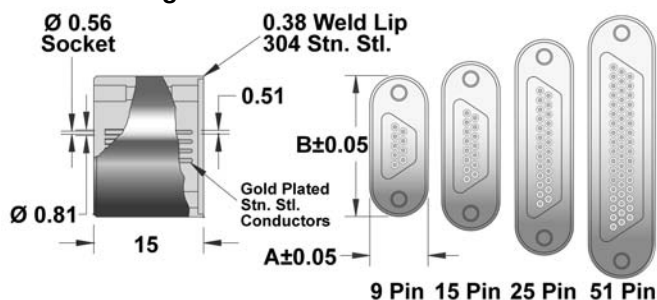
Plug vacuum side

■ Magnetic no
 ■ Material beryllium-copper
 ■ Insulator PEEK
 ■ Current per pin 2 A
 ■ Temperature range -269 °C to 200 °C

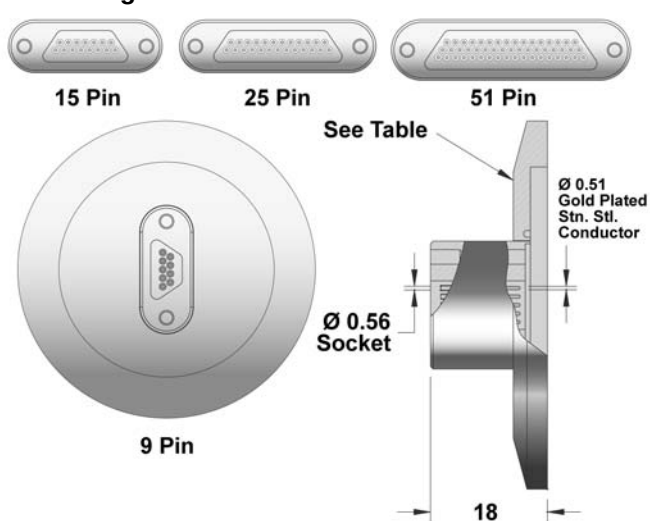
Single crimp contacts

■ Conductor diameter 1.0 mm
 ■ Material beryllium-copper
 ■ Temperature range -269 °C to 200 °C
 ■ Current per pin 2 A
 ■ Packing unit 5 pieces

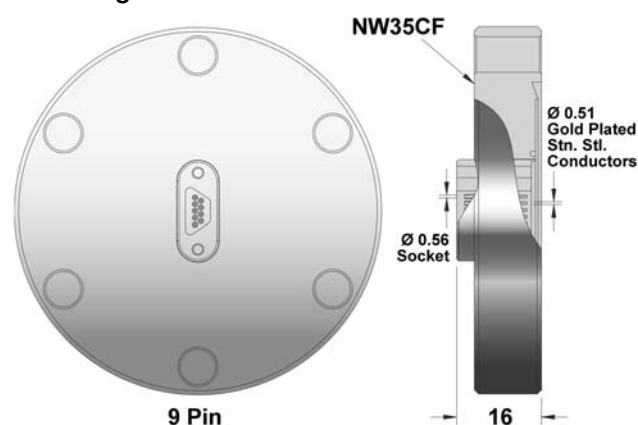
without flange



on KF flange



on CF flange



Multipin Feedthroughs with Plug Connectors

Micro D Feedthroughs MIL-DTL-83513 with Plugs on Both Sides

Voltage: 375 V, 9 - 51 pins

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)	A	B
W-MDTL8-9-FM-CE-SSG	9	100	7.9	19
W-MDTL8-15-FM-CE-SSG	15	94.8	7.9	22.9
W-MDTL8-25-FM-CE-SSG	25	89.6	7.9	29.2
W-MDTL8-51-FM-CE-SSG	51	77.6	9.04	35.6

On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF40-MDTL8-15-FM-CE-SSG	DN40KF	15	6
KF40-MDTL8-25-FM-CE-SSG	DN40KF	25	6
KF40-MDTL8-51-FM-CE-SSG	DN40KF	51	6

* With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF40-MDTL8-9-FM-CE-SSG	DN40CF	9	100
CF40-MDTL8-15-FM-CE-SSG	DN40CF	15	94.8
CF40-MDTL8-25-FM-CE-SSG	DN40CF	25	89.6
CF40-MDTL8-51-FM-CE-SSG	DN40CF	51	77.6

Atmosphere side plug, male



Order code	Number of pins
PLUG-MDTL-9-A	9
PLUG-MDTL-15-A	15
PLUG-MDTL-25-A	25
PLUG-MDTL-51-A	51

Atmosphere side plug, female



Order code	Number of pins
PLUG-MDTL-9-P	9
PLUG-MDTL-15-P	15
PLUG-MDTL-25-P	25
PLUG-MDTL-51-P	51

Single contacts

Order code	Description
EK-SUBD-CLG10	crimp contact

Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-5015, Single Ended

Voltage: 700 V, 4 - 10 pins, atmosphere side plug

Technical data

■ Magnetic yes

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ Per pin 7 A

Accessories

Atmosphere side plug, high temperature proof

■ Magnetic yes
 ■ Material Alumel®
 ■ Insulator PEEK
 ■ Current per contact 4.8 A
 ■ Temperature range -55 °C to 260 °C

Atmosphere side plug

■ Magnetic no
 ■ Material copper alloy
 ■ Insulator diallyl phthalate
 ■ Current per contact 13 A
 ■ Temperature range -55 °C to 125 °C

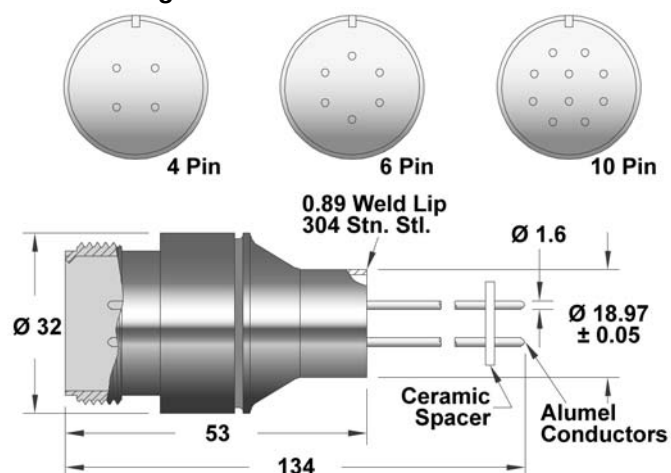
Single crimp contacts

■ Conductor diameter 1.6 mm
 ■ Packing unit 10 pieces

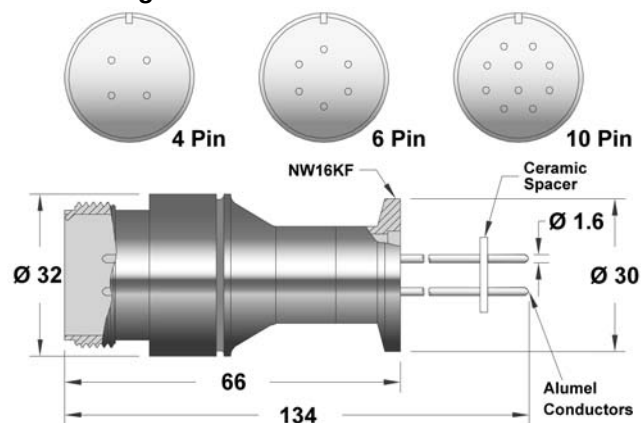
Single clamps with slotted screw

■ Conductor diameter 1.6 mm
 ■ Material beryllium-copper
 ■ Temperature range -269 °C to 400 °C
 ■ Current 20 A
 ■ Packing unit 10 pieces

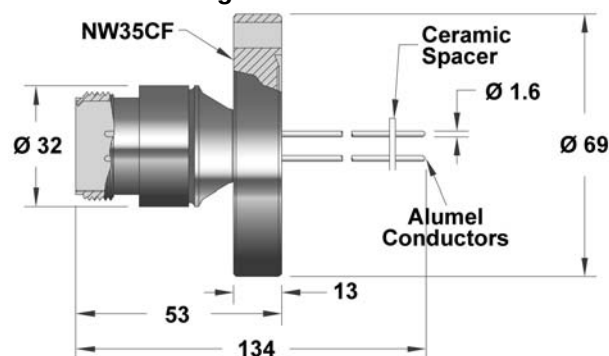
without flange



on KF flange



on DN40CF flange

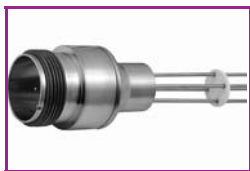


Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-5015, Single Ended

Voltage: 700 V, 4 - 10 pins, atmosphere side plug

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)
W-MPC5-4-SE-CE-AM	4	41
W-MPC5-6-SE-CE-AM	6	38
W-MPC5-10-SE-CE-AM	10	34

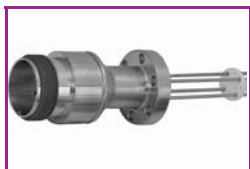
On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF16-MPC5-4-SE-CE-AM	DN16KF	4	7
KF16-MPC5-6-SE-CE-AM	DN16KF	6	7
KF16-MPC5-10-SE-CE-AM	DN16KF	10	7

* With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF16-MPC5-4-SE-CE-AM	DN16CF	4	41
CF16-MPC5-6-SE-CE-AM	DN16CF	6	38
CF16-MPC5-10-SE-CE-AM	DN16CF	10	34
CF40-MPC5-4-SE-CE-AM	DN40CF	4	41
CF40-MPC5-6-SE-CE-AM	DN40CF	6	38
CF40-MPC5-10-SE-CE-AM	DN40CF	10	34

Atmosphere side plug



Order code		Number of pins
PEEK	Diallyl phthalate	
PLUG-MPC5-4-P-AM	PLUG-MPC5-4-DI-AM	4
PLUG-MPC5-6-P-AM	PLUG-MPC5-6-DI-AM	6
PLUG-MPC5-10-P-AM	PLUG-MPC5-10-DI-AM	10

Single contacts

Order code	Conductor material	Temperature range (°C)	Current (A)
EK-C-CB16	beryllium-copper	-269 to 200	20
EK-C-NIL16	nickel alloy	-269 to 400	10

Single clamp

Order code	Description
EK-LK-CB16	clamp with slotted screw

Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-5015, Single Ended

Voltage: 700 V, 2 - 4 pins, atmosphere side plug

Technical data

Magnetic

■ With conductor material nickel	yes
■ With conductor material molybdenum	no

Material

■ Housing	stainless steel 304
■ Conductors	see table
■ Insulator	alumina ceramics

Temperature range

■ Without flange	-269 °C to 450 °C
■ On KF flange	-25 °C to 205 °C
■ On CF flange	-269 °C to 450 °C

Current

■ With conductor material nickel	25 A
■ With conductor material molybdenum	46 A

Accessories

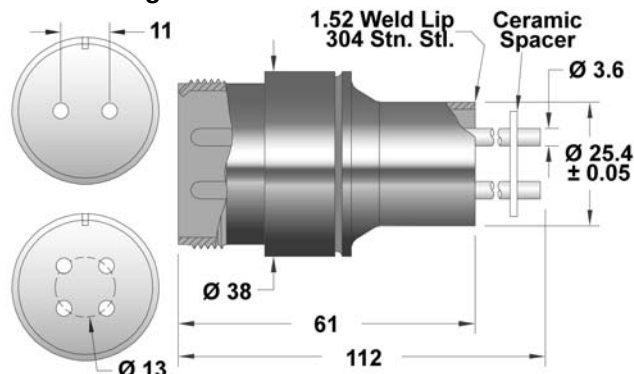
Atmosphere side plug

■ Magnetic	no
■ Contact material	copper alloy
■ Insulator	diallyl phthalate
■ Current	46 A
■ Temperature range	-55 °C to 125 °C

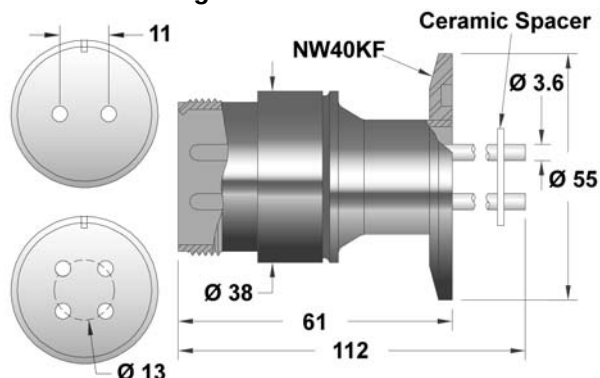
Single clamps

■ Conductor diameter	3.9 mm
■ Material	beryllium-copper
■ Temperature range	-269 °C to 400 °C
■ Current	30 A
■ Packing unit	10 pieces

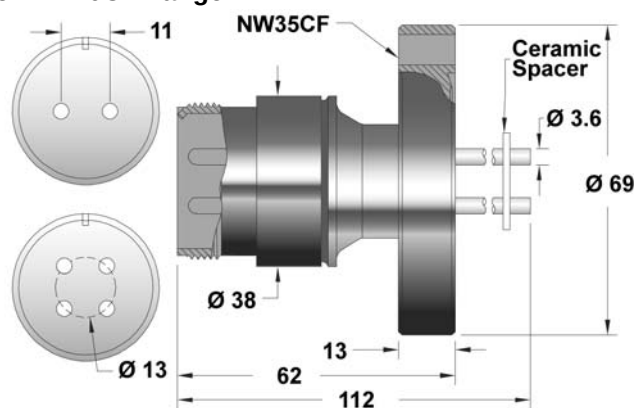
without flange



on DN40KF flange



on DN40CF flange



Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-5015, Single Ended

Voltage: 700 V, 2 - 4 pins, atmosphere side plug

Without flange



Order code	Number of pins	Conductor material	Pressure, 20 °C (bar)	Current (A)
W-MPC5HC-2-SE-CE-NI	2	nickel	41	25
W-MPC5HC-2-SE-CE-MO	2	molybdenum	41	46
W-MPC5HC-4-SE-CE-NI	4	nickel	34	25
W-MPC5HC-4-SE-CE-MO	4	molybdenum	34	46

On DN40KF flange



Order code	Number of pins	Conductor material	Pressure, 20 °C * (bar)	Current (A)
KF40-MPC5HC-2-SE-CE-NI	2	nickel	6	25
KF40-MPC5HC-2-SE-CE-MO	2	molybdenum	6	46
KF40-MPC5HC-4-SE-CE-NI	4	nickel	6	25
KF40-MPC5HC-4-SE-CE-MO	4	molybdenum	6	46

* With trapped centering ring and clamp chain

On DN40CF flange



Order code	Number of pins	Conductor material	Pressure, 20 °C (bar)	Current (A)
CF40-MPC5HC-2-SE-CE-NI	2	nickel	41	25
CF40-MPC5HC-2-SE-CE-MO	2	molybdenum	41	46
CF40-MPC5HC-4-SE-CE-NI	4	nickel	34	25
CF40-MPC5HC-4-SE-CE-MO	4	molybdenum	34	46

Atmosphere side plug



Order code	Number of pins
PLUG-MPC5HC-2-DI-CUL	2
PLUG-MPC5HC-4-DI-CUL	4

Single clamp

Order code	Description
EK-LK-CB39	clamp with slotted screw

Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-26482

Voltage: 1000 V, 3 - 41 pins, atmosphere side plug

Technical data

■ Magnetic no

Material

■ Housing stainless steel 304
 ■ Conductors stainless steel 304 (gold plated)
 ■ Insulator glass ceramics

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ Per pin 5 A

Accessories

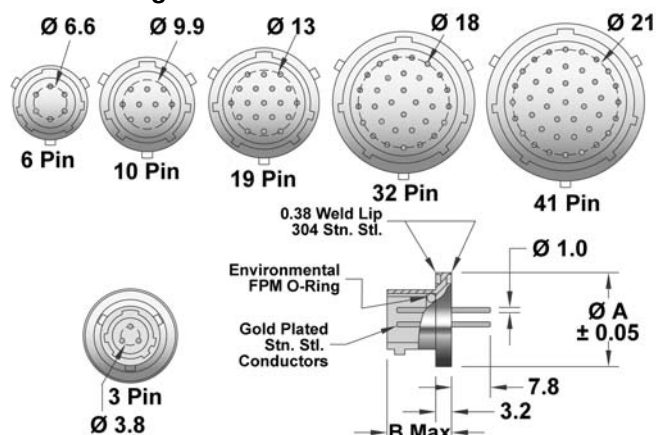
Atmosphere side plug

■ Magnetic no
 ■ Contact material copper alloy
 ■ Insulator silicone rubber
 ■ Current per pin 1 A
 ■ Temperature range -55 °C to 200 °C

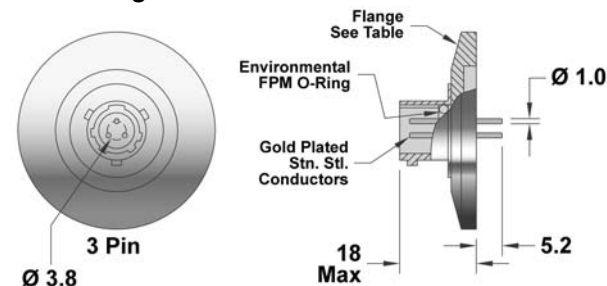
Single crimp contacts

■ Conductor diameter 1.0 mm
 ■ Material copper alloy (gold plated)
 ■ Temperature range -200 °C to 200 °C
 ■ Current 15 A
 ■ Packing unit 5 pieces

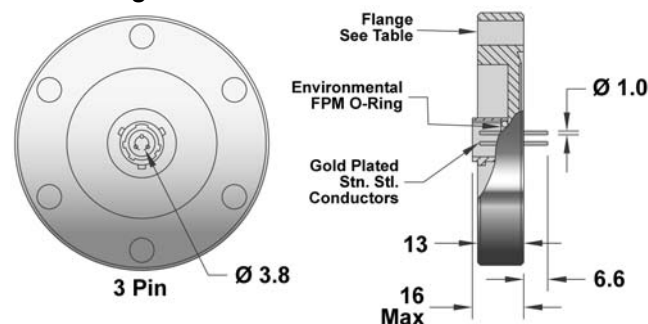
without flange



on KF flange



on CF flange



Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-26482

Voltage: 1000 V, 3 - 41 pins, atmosphere side plug

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)	A	B
W-MPC2-3-SE-CE-SSG	3	38	18.92	13
W-MPC2-6-SE-CE-SSG	6	34	22.10	13
W-MPC2-10-SE-CE-SSG	10	31	25.27	13
W-MPC2-19-SE-CE-SSG	19	28	28.45	13
W-MPC2-32-SE-CE-SSG	32	26	34.80	13
W-MPC2-41-SE-CE-SSG	41	24	37.97	14.5

On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF25-MPC2-3-SE-CE-SSG	DN25KF	3	7
KF40-MPC2-6-SE-CE-SSG	DN40KF	6	6
KF40-MPC2-10-SE-CE-SSG	DN40KF	10	6
KF40-MPC2-19-SE-CE-SSG	DN40KF	19	6
KF40-MPC2-32-SE-CE-SSG	DN40KF	32	6
KF50-MPC2-41-SE-CE-SSG	DN50KF	41	6

* With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF40-MPC2-3-SE-CE-SSG	DN40CF	3	38
CF40-MPC2-6-SE-CE-SSG	DN40CF	6	34
CF40-MPC2-10-SE-CE-SSG	DN40CF	10	31
CF40-MPC2-19-SE-CE-SSG	DN40CF	19	28
CF40-MPC2-32-SE-CE-SSG	DN40CF	32	26
CF40-MPC2-41-SE-CE-SSG	DN40CF	41	24

Atmosphere side plug



Order code		Number of pins
Crimp contacts	Soldering cups	
PLUG-MPC2-3-SI-CLG	PLUG-MPC2-3-DI-CLG	3
PLUG-MPC2-6-SI-CLG	PLUG-MPC2-6-DI-CLG	6
PLUG-MPC2-10-SI-CLG	PLUG-MPC2-10-DI-CLG	10
PLUG-MPC2-19-SI-CLG	PLUG-MPC2-19-DI-CLG	19
PLUG-MPC2-32-SI-CLG	PLUG-MPC2-32-DI-CLG	32
PLUG-MPC2-41-SI-CLG	PLUG-MPC2-41-DI-CLG	41

Single contacts

Order code	Description
EK-C-CLG10	crimp contacts

Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-26482

Voltage: 1000 V, 3 - 41 pins, atmosphere side plug, vacuum side soldering tags

Technical data

■ Magnetic no

Material

■ Housing stainless steel 304
 ■ Conductors stainless steel 304 (gold plated)
 ■ Insulator glass ceramics

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ Per pin 5 A

Accessories

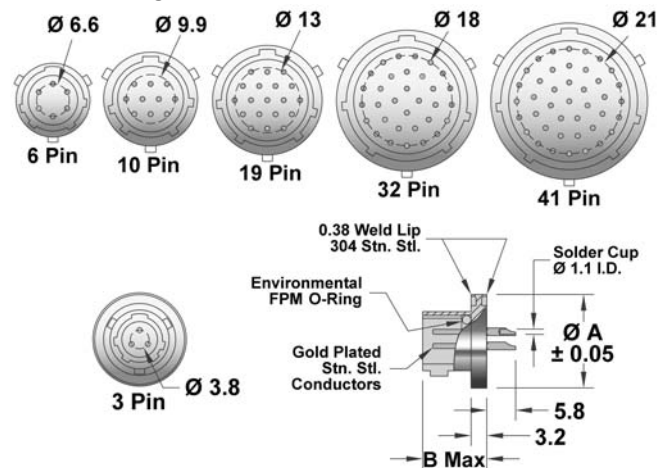
Atmosphere side plug

■ Magnetic no
 ■ Contact material copper alloy
 ■ Insulator silicone rubber
 ■ Current per pin 1 A
 ■ Temperature range -55 °C to 200 °C

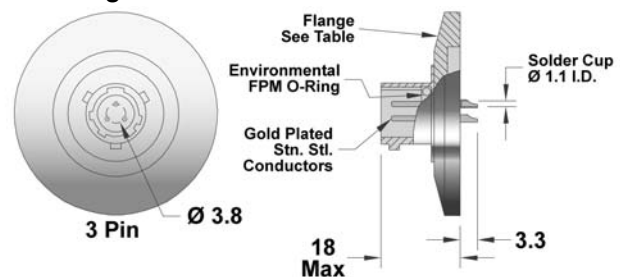
Single crimp contacts

■ Conductor diameter 1.0 mm
 ■ Material copper alloy (gold plated)
 ■ Temperature range -200 °C to 200 °C
 ■ Current 15 A
 ■ Packing unit 5 pieces

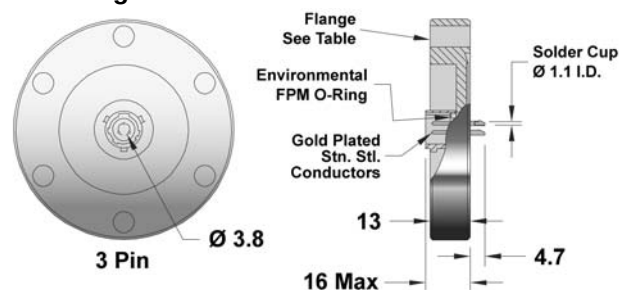
without flange



on KF flange



on CF flange



Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-26482

Voltage: 1000 V, 3 - 41 pins, atmosphere side plug, vacuum side soldering tags

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)	A	B
W-MPC2-3-SES-CE-SSG	3	38	18.92	13
W-MPC2-6-SES-CE-SSG	6	34	22.10	13
W-MPC2-10-SES-CE-SSG	10	31	25.27	13
W-MPC2-19-SES-CE-SSG	19	28	28.45	13
W-MPC2-32-SES-CE-SSG	32	26	34.80	13
W-MPC2-41-SES-CE-SSG	41	24	37.97	14.5

On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF25-MPC2-3-SES-CE-SSG	DN25KF	3	7
KF40-MPC2-6-SES-CE-SSG	DN40KF	6	6
KF40-MPC2-10-SES-CE-SSG	DN40KF	10	6
KF40-MPC2-19-SES-CE-SSG	DN40KF	19	6
KF40-MPC2-32-SES-CE-SSG	DN40KF	32	6
KF50-MPC2-41-SES-CE-SSG	DN50KF	41	6

* With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF40-MPC2-3-SES-CE-SSG	DN40CF	3	38
CF40-MPC2-6-SES-CE-SSG	DN40CF	6	34
CF40-MPC2-10-SES-CE-SSG	DN40CF	10	31
CF40-MPC2-19-SES-CE-SSG	DN40CF	19	28
CF40-MPC2-32-SES-CE-SSG	DN40CF	32	26
CF40-MPC2-41-SES-CE-SSG	DN40CF	41	24

Atmosphere side plug



Order code		Number of pins
Crimp contacts	Soldering cups	
PLUG-MPC2-3-SI-CLG	PLUG-MPC2-3-DI-CLG	3
PLUG-MPC2-6-SI-CLG	PLUG-MPC2-6-DI-CLG	6
PLUG-MPC2-10-SI-CLG	PLUG-MPC2-10-DI-CLG	10
PLUG-MPC2-19-SI-CLG	PLUG-MPC2-19-DI-CLG	19
PLUG-MPC2-32-SI-CLG	PLUG-MPC2-32-DI-CLG	32
PLUG-MPC2-41-SI-CLG	PLUG-MPC2-41-DI-CLG	41

Single contacts

Order code	Description
EK-C-CLG10	crimp contacts

Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-26482

Voltage: 1000 V, 10 - 41 pins, plugs on both sides

Technical data

■ Magnetic no

Material

■ Housing stainless steel 304
 ■ Conductors stainless steel 304 (gold plated)
 ■ Insulator glass ceramics

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ Per pin 5 A

Accessories

Atmosphere side plug

■ Magnetic no
 ■ Contact material copper alloy
 ■ Insulator silicone rubber
 ■ Current 1 A
 ■ Temperature range -55 °C to 200 °C

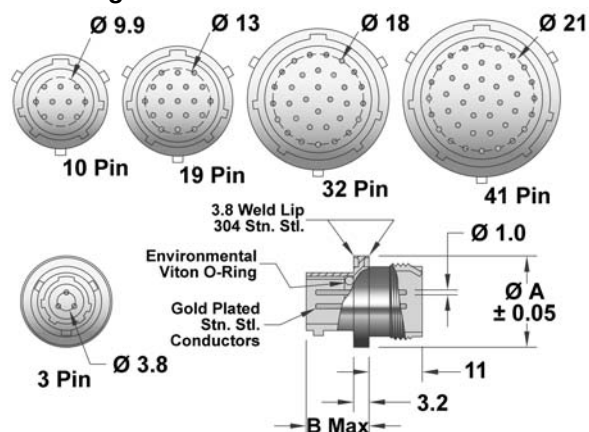
Vacuumside plug

■ Magnetic no
 ■ Contact material copper alloy
 ■ Insulator PEEK
 ■ Current per pin 5 A
 ■ Temperature range -269 °C to 200 °C

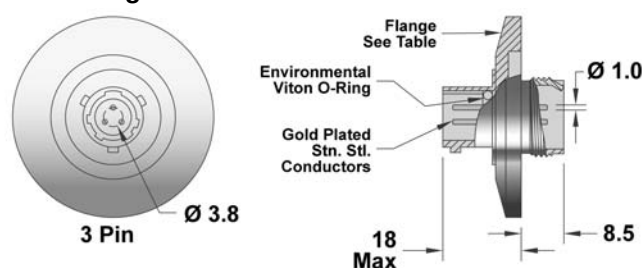
Single crimp contacts

■ Conductor diameter 1.0 mm
 ■ Contact material copper alloy (gold plated)
 ■ Temperature range -200 °C to 200 °C
 ■ Current 15
 ■ Packing unit 5 pieces

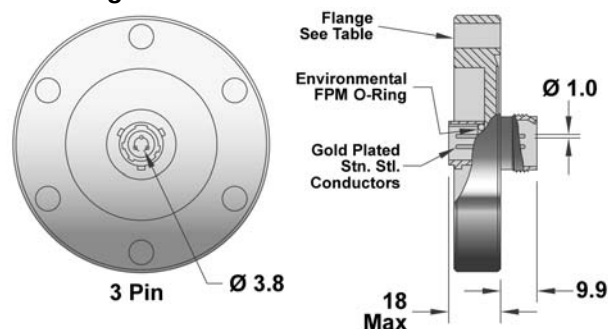
without flange



on KF flange



on CF flange



Also as 3- and 6-pole available.

Multipin Feedthroughs with Plug Connectors

Circular Connectors MIL-C-26482

Voltage: 1000 V, 10 - 41 pins, plugs on both sides

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)	A	B
W-MPC2-10-DE-CE-SSG	10	31	25.57	13
W-MPC2-19-DE-CE-SSG	19	28	28.45	13
W-MPC2-32-DE-CE-SSG	32	26	34.80	13
W-MPC2-41-DE-CE-SSG	41	24	37.97	14,5

On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF40-MPC2-10-DE-CE-SSG	DN40KF	10	6
KF40-MPC2-19-DE-CE-SSG	DN40KF	19	6
KF40-MPC2-32-DE-CE-SSG	DN40KF	32	6
KF50-MPC2-41-DE-CE-SSG	DN50KF	41	6

* With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF40-MPC2-10-DE-CE-SSG	DN40CF	10	31
CF40-MPC2-19-DE-CE-SSG	DN40CF	19	28
CF40-MPC2-32-DE-CE-SSG	DN40CF	32	26
CF40-MPC2-41-DE-CE-SSG	DN40CF	41	24

Atmosphere side plug



Order code		Number of pins
Crimp contacts	Soldering cups	
PLUG-MPC2-10-SI-CLG	PLUG-MPC2-10-DI-CLG	10
PLUG-MPC2-19-SI-CLG	PLUG-MPC2-19-DI-CLG	19
PLUG-MPC2-32-SI-CLG	PLUG-MPC2-32-DI-CLG	32
PLUG-MPC2-41-SI-CLG	PLUG-MPC2-41-DI-CLG	41

Vacuum side plug



Order code	Number of pins
PLUG-MPC2-10-P-CLG	10
PLUG-MPC2-19-P-CLG	19
PLUG-MPC2-32-P-CLG	32
PLUG-MPC2-41-P-CLG	41

Single contacts

Order code	Description
EK-C-CLG10	crimp contacts

Other Circular Connectors with Plugs on Both Sides

Multipin feedthroughs for 8 pins

Technical data

■ Conductor material	Kovar®
■ Bakeable to	150 °C
■ Current	10 A

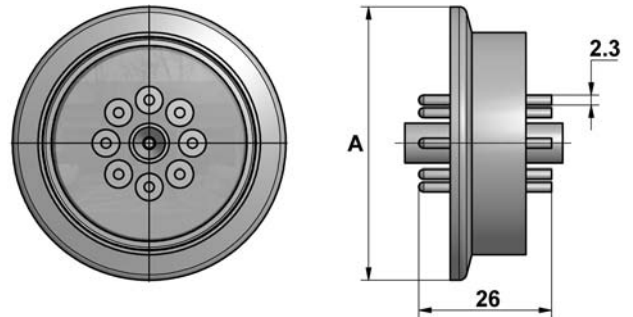
Accessories

■ Contact ID	2.3 mm
■ Current per pin	3 A
■ Voltage	1 kV

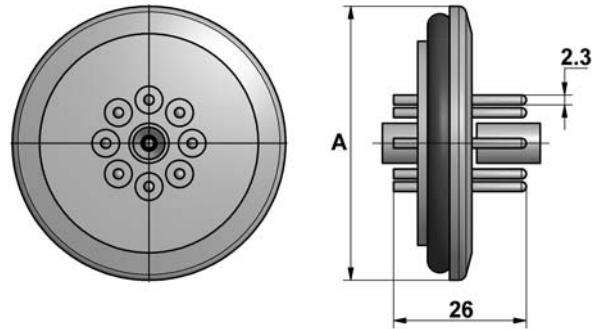
Single crimp contacts

■ Conductor diameter	2.3 mm
■ Packing unit	20 pieces

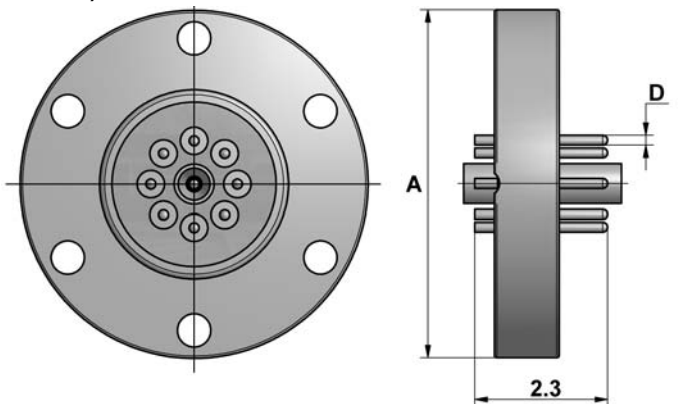
OBFGK



OBFMK



OBFG, OBFM



Multipin Feedthroughs with Plug Connectors

Other Circular Connectors with Plugs on Both Sides

Multipin feedthrough for 8 pins



Order code	Flange	Voltage (kV)	Insulator	A
OBFGK	DN40KF	5	glass block	55
OBFMK	DN40KF	1	metal plate with glass	55
OBFG	DN40CF	5	glass block	70
OBFM	DN40CF	1	metal plate with glass	70

Plug for 8 pins



Order code	Bakeable to (°C)	Contact side
VC8E	250	atmosphere
VC8I	150	vacuum

Single contacts

Order code	Type	Vacuum compatible
CC23F	female	yes

Other Circular Connectors with Plugs on Both Sides

Multipin feedthroughs for 9 - 11 pins

Technical data

■ Conductor material	nickel
■ Insulator	alumina ceramics
■ Bakeable to	150 °C
■ Current	5 A
■ Voltage	5 kV

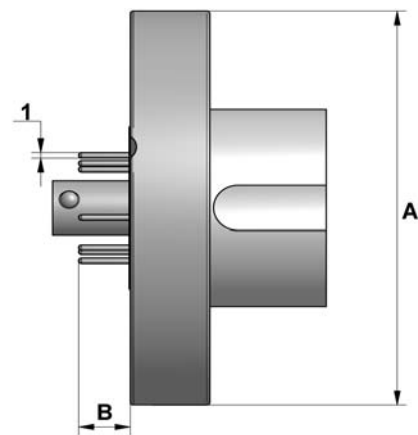
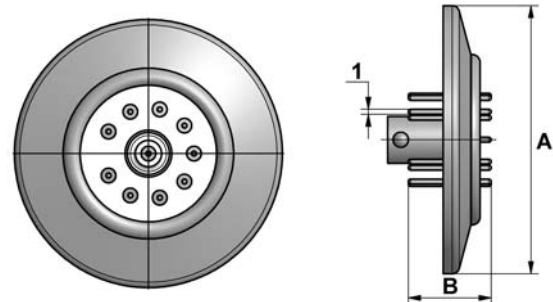
Accessories

■ Contact ID	1.0 mm
■ Current per pin	5 A
■ Voltage	5 kV

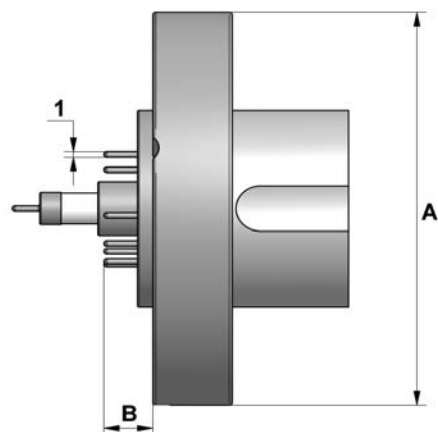
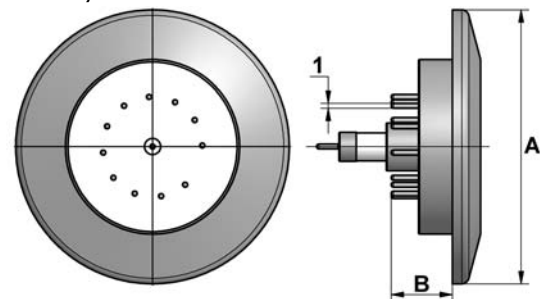
Single crimp contacts

■ Conductor diameter	1.0 mm
■ Packing unit	20 pieces

KSFT10C, SFT10C



KSFT12C, SFT12C



Multipin Feedthroughs with Plug Connectors

Other Circular Connectors with Plugs on Both Sides

Multipin feedthroughs for 9 - 11 pins



Order code	Flange	Number of pins	A	B
KSFT10C	DN40KF	9	55	17
SFT10C	DN40CF	9	70	8
KSFT12C	DN40KF	11	55	17
SFT12C	DN40CF	11	70	8

Plug for 9 - 11 pins



Order code	Number of pins	Bakeable to (°C)	Contact side
VC10E	9	250	atm
VC10I	9	150	vac
VC12E	11	250	atm
VC12I	11	150	vac

Single crimp contacts

Order code	Type	Vacuum compatible
CC10F	female	yes

Multipin Feedthroughs with Plug Connectors

High Voltage Circular Connectors, Single Ended

Voltage: 700 V, 2 - 4 pins, atmosphere side plug

Technical data

Magnetic

■ With conductor material nickel	yes
■ With conductor material molybdenum	no

Material

■ Housing	stainless steel 304
■ Conductor	see table
■ Insulator	alumina ceramics

Temperature range

■ Without flange	-269 °C to 450 °C
■ On KF flange	-25 °C to 205 °C
■ On CF flange	-269 °C to 450 °C

Current

■ With conductor material nickel	16 A
■ With conductor material molybdenum	28 A

Pressure (20 °C)

■ Without flange	33 bar
■ On KF flange	7 bar
■ On CF flange	33 bar

Accessories

Atmosphere side plug

■ Magnetic	no
■ Material	copper alloy
■ Insulator	diallyl phthalate
■ Current	23 A
■ Temperature range	-55 °C to 125 °C

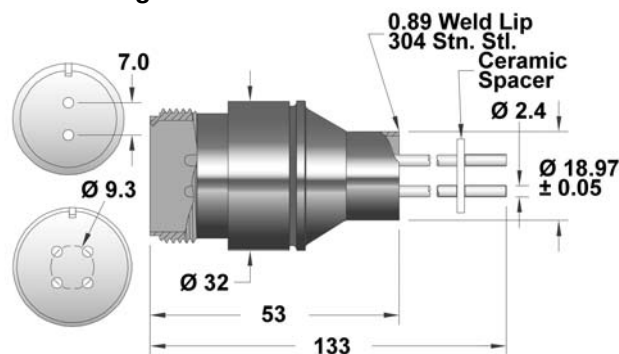
Contact with flat headed screw

■ Conductor diameter	2.4 mm
■ Material	beryllium-copper
■ Temperature range	-269 °C to 200 °C
■ Current	25 A
■ Packing unit	10 pieces

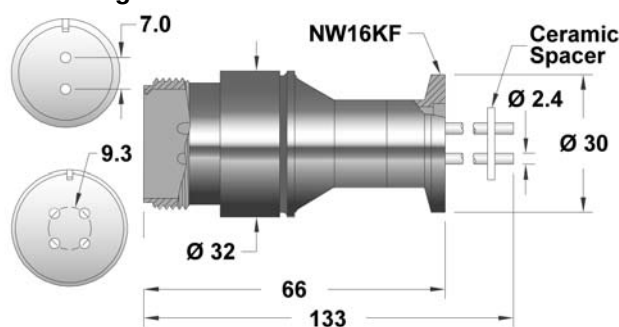
Clamp with slotted screw

■ Conductor diameter	2.4 mm
■ Material	beryllium-copper
■ Temperature range	-269 °C to 400 °C
■ Current	25 A
■ Packing unit	10 pieces

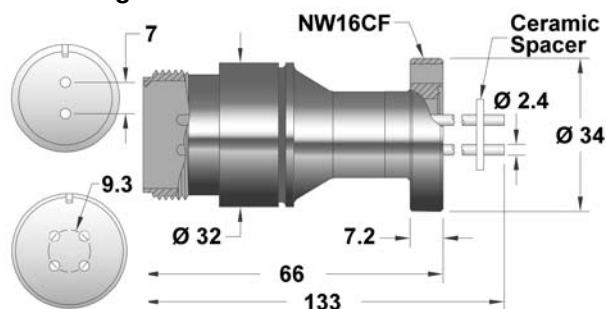
without flange



on KF flange



on CF flange

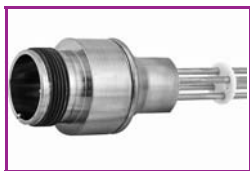


Multipin Feedthroughs with Plug Connectors

High Voltage Circular Connectors, Single Ended

Voltage: 700 V, 2 - 4 pins, atmosphere side plug

Without flange



Order code	Number of pins	Conductor material
W-MPC5C-2-SE-CE-NI	2	nickel
W-MPC5C-2-SE-CE-MO	2	molybdenum
W-MPC5C-4-SE-CE-NI	4	nickel
W-MPC5C-4-SE-CE-MO	4	molybdenum

On KF flange



Order code	Flange	Number of pins	Conductor material
KF16-MPC5C-2-SE-CE-NI	DN16KF	2	nickel
KF16-MPC5C-2-SE-CE-MO	DN16KF	2	molybdenum
KF16-MPC5C-4-SE-CE-NI	DN16KF	4	nickel
KF16-MPC5C-4-SE-CE-MO	DN16KF	4	molybdenum

- With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Conductor material
CF16-MPC5C-2-SE-CE-NI	DN16CF	2	nickel
CF16-MPC5C-2-SE-CE-MO	DN16CF	2	molybdenum
CF16-MPC5C-4-SE-CE-NI	DN16CF	4	nickel
CF16-MPC5C-4-SE-CE-MO	DN16CF	4	molybdenum
CF40-MPC5C-2-SE-CE-NI	DN40CF	2	nickel
CF40-MPC5C-2-SE-CE-MO	DN40CF	2	molybdenum
CF40-MPC5C-4-SE-CE-NI	DN40CF	4	nickel
CF40-MPC5C-4-SE-CE-MO	DN40CF	4	molybdenum

Atmosphere side plug



Order code	Number of pins
PLUG-MPC5C-2-DI-CUL	2
PLUG-MPC5C-4-DI-CUL	4

Single contacts

Order code	Description
EK-S-CB24	contact with flat headed screw
EK-LK-CB24	clamp with slotted screw

Multipin Feedthroughs with Plug Connectors

High Voltage Circular Connectors, Single Ended

Voltage: 12 kV, 2 - 7 pins, atmosphere side plug

Technical data

■ Magnetic yes

Material

■ Housing stainless steel 304
 ■ Conductor molybdenum (nickel-plated)
 ■ Insulator alumina ceramics

Temperature range

■ Without flange -269 °C to 450 °C
 ■ On KF flange -25 °C to 205 °C
 ■ On CF flange -269 °C to 450 °C

Current

■ 13 A

Accessories

Atmosphere side plug

■ Magnetic no
 ■ Contact material copper alloy
 ■ Insulator reinforced polyester and silicone rubber
 ■ Temperature range -15 °C to 85 °C
 ■ Current 13 A

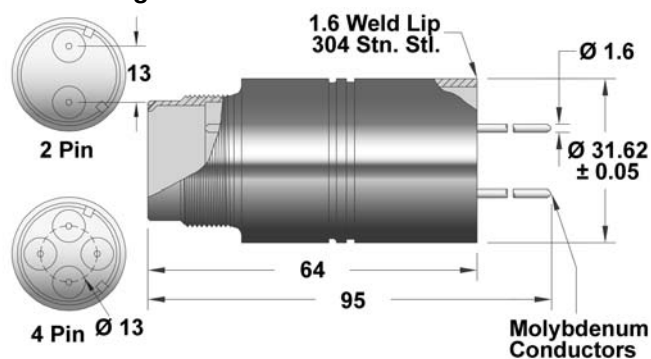
Single crimp contacts

■ Conductor diameter 1.6 mm
 ■ Material beryllium-copper
 ■ Temperature range -200 °C to 200 °C
 ■ Current 20 A
 ■ Packing unit 10 pieces

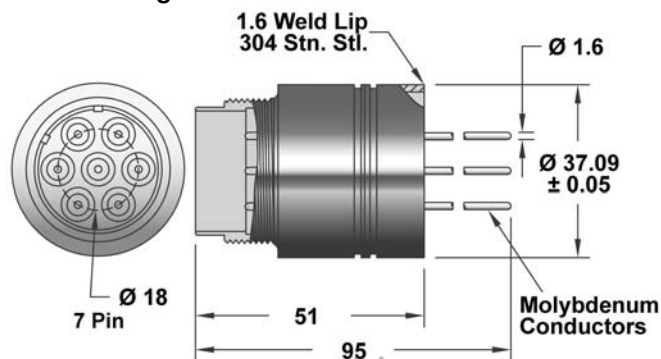
Clamp with slotted screw

■ Conductor diameter 1.6 mm
 ■ Material beryllium-copper
 ■ Temperature range -269 °C to 400 °C
 ■ Current 20 A
 ■ Packing unit 10 pieces

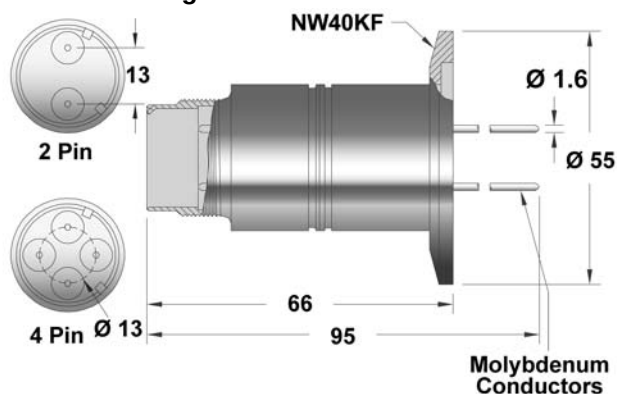
without flange



without flange



on DN40KF flange



Multipin Feedthroughs with Plug Connectors

High Voltage Circular Connectors, Single Ended

Voltage: 12 kV, 2 - 7 pins, atmosphere side plug

Without flange



Order code	Number of pins	Pressure, 20 °C (bar)
W-MPCHV12-2-SE-CE-MO	2	28
W-MPCHV12-4-SE-CE-MO	4	20
W-MPCHV12-7-SE-CE-MO	7	14

On KF flange



Order code	Flange	Number of pins	Pressure, 20 °C * (bar)
KF40-MPCHV12-2-SE-CE-MO	DN40KF	2	6
KF40-MPCHV12-4-SE-CE-MO	DN40KF	4	6
KF40-MPCHV12-7-SE-CE-MO	DN40KF	7	6

* With trapped centering ring and clamp chain

On CF flange



Order code	Flange	Number of pins	Pressure, 20 °C (bar)
CF40-MPCHV12-2-SE-CE-MO	DN40CF	2	28
CF40-MPCHV12-4-SE-CE-MO	DN40CF	4	20
CF40-MPCHV12-7-SE-CE-MO	DN40CF	7	14

Atmosphere side plug



Order code	Number of pins
PLUG-MPCHV12-2-KU-CUL	2
PLUG-MPCHV12-4-KU-CUL	4
PLUG-MPCHV12-7-KU-CUL	7

Single contacts

Order code	Description
EK-C-CB16	crimp contact
EK-LK-CB16	clamp with slotted screw