Sub-D





























## **High Density Sub-D**

#### 26, 44 and 78 Pins in a Standard Shell

High density Sub-D Connectors offer more pins on the same shell size:

15 Pin standard- Sub-D -> 26 pin HD Sub-D 25 Pin standard- Sub-D -> 44 pin HD Sub-D 50 Pin standard- Sub-D -> 78 pin HD Sub-D

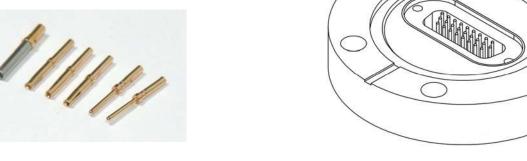
A 3-row / 4-row pin arrangement with reduced pin diameter makes this possible.

Size	H26	HD44	HD78
CF40	1	-	-
CF63	3	2	1
CF100	8	5	2

List of how many feedthroughs of one shell size will fit to a given CF flange size.



High Density Pins, Male and Female. As a comparison, a Standard Sub-D Pin is shown on the left.



The Allectra 26 pin High Density Sub-D feedthrough fits on a DN40CF Flange.



Air Side Connector. The connector is solder type. It comes with a thumb screw housing.



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## HIGH DENSITY SUB-D

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2 CM + DIII F/T

#### High Density Sub-D Feedthroughs on CF Flanges / Ceramic Connectors / Weldable

Here the most common assemblies of High Density feedthroughs on CF flanges are listed.

Combinations with other feedthroughs are available



#### General Specifications HIGH DENSITY SUB-D

Compliance DIN 41652 part 2, MIL-C-24308

Pin-ø 0.7 mm

Pin material Gold plated NiFe Seal Glass Ceramic Flange Stainless Steel 316L

Test Voltage 500V DC Max, Current 3A per pin

Cont. Current

1.5A, all pins loaded

Temp.

-200°C to 230°C

Leak rate

<5x10<sup>-10</sup> mbar-I/s He

#### Sub-D Feedthroughs on CF Flanges, HIGH DENSITY

SIZE	NO, OF PINS	PART NUMBER
40CF	26	210-HD26-C40
63CF	44	210-HD44-C63
63CF	78	210-HD78-C63
100CF	78	210-HD78-C100
63CF	2x26 (52)	210-HD26-C63-2
63CF	3x26 (78)	210-HD26-C63-3
63CF	2x44 (88)	210-HD44-C63-2
100CF	2x78 (156)	210-HD78-C100-2
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Please ask for a quote for other combinations!

# Sub-D High Density CERAMIC CONNECTORS, VACUUM SIDE

TYPE 1	NO, OF PINS	PART NUMBER
UHV Ceramio	c 26	211-FS26H-UHV
UHV Ceramio	c 44	211-FS44H-UHV
UHV Ceramio	c 78	211-FS78H-UHV

26 / 44 / 78 off Crimp pins are included

PEEK connectors are listed on page 1,25

Please note: Welding Sub-D Feedthroughs requires care and experience! Damage to the feedthroughs during welding is not covered by the warranty. We are happy to offer complete assemblies at competitive prices.

# Weldable Sub-D Feedthroughs HIGH DENSITY

SIZE	NO. OF PINS	PART NUMBER
WELD	26	218-HD26-SS
WELD	44	218-HD44-SS
WELD	78	218-HD78-SS

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# Sub-D

Power High Voltage

Thermo-couple

Viewports Fibreoptic

Valves

Hardware



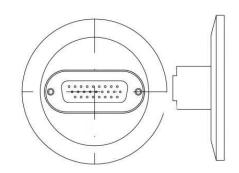






### **High Density Sub-D Feedthoughs** on KF and ISO Flanges

Here the most common assemblies of High Density feedthroughs on CF flanges are listed. Combinations with other feedthroughs are available.



#### **General Specifications HIGH DENSITY SUB-D**

Compliance DIN 41652 part 2, MIL-C-24308

Pin-ø 0.7 mm

Pin material Gold plated NiFe Seal Glass Ceramic Stainless Steel 316L Flange

Test Voltage 500V DC Max. Current 3A per pin

Cont, Current 1.5A, all pins loaded Temp. -200°C to 230°C <5x10<sup>-10</sup> mbar-l/s He Leak rate

#### Sub-D Feedthroughs on KF / ISO-K Flanges, **HIGH DENSITY**

SIZE	NO. OF PINS	PART NUMBER
40KF	26	210-HD26-K40
50KF	26	210-HD26-K50
ISO-K63	44	210-HD44-ISO63
ISO-K63	78	210-HD78-ISO63
ISO-K63	2x44 (88)	210-HD44-ISO63-2
ISO-K100	2x78 (156)	210-HD78-ISO100-2



#### **Sub-D HIGH DENSITY Gender Changers for Air side**

TYPE	NO.OFPINS	PARTNUMBER	
Female-Female	26	211-HD26-ADR	
Female-Female	44	211-HD44-ADR	
Female-Female	78	211-HD78-ADR	

#### Why is there no version with 15 pins and with 68 pins?

The design of the Standard 15-pin Sub D of Allectra fits to a DN40CF, so there is no significant space saving by using a High Density version.

The 68 pin version would be bigger than the 78 pin version (3 row/ 4 row design).

Nevertheless, if you have a reasonable demand for these sizes, Allectra can produce these types.

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## HIGH DENSITY SUB-D

### **High Density Sub-D**

#### Connectors for vacuum and air side

For all sizes, fitting vacuum side connectors made from PEEK or Ceramic (page 1.23) are offered. Aluminium housings with strain relief are available.

> **Important:** The versions with 26 and 44 pin are not symmetric on air and vacuum side. By this, the vacuum side connectors will **not** fit to the air side and vice versa. Allectra offers also UHV compatible connectors for the air side for special applications (Please contact sales office for a quote)



#### **Sub-D High Density CONNECTORS, VACUUM SIDE**

TYPE	NO. OF PINS	PART NUMBER	
HV/ UHV	26	211-FS26H-PK	
HV/ UHV	44	211-FS44H-PK	
HV/ UHV	78	211-FS78H-PK	

26 / 44 / 78 off Crimp pins are included

#### **Sub-D High Density MALE CONNECTORS, VACUUM SIDE**

TYPE	NO. OF PINS	PART NUMBER	
HV/ UHV	26	211-MS26H-PK	
HV/ UHV	44	211-MS44H-PK	
HV/ UHV	78	211-MS78H-PK	

Please note: These versions fit to the vacuum side connectors listed above.

Contact sales office for versions fitting to the air side of our feedthroughs for special applications.

26 / 44 / 78 off Crimp pins are included



### **Sub-D High Density CONNECTORS AIR SIDE**

TYPE	NO. OF PINS	PART NUMBER	
AIR	26	211-FS26H-AIR	
AIR	44	211-FS44H-AIR	
AIR	78	211-FS78H-AIR	

#### **General Specifications HIGH DENSITY PINS**

Pin-ø 0.7 mm

Cable diameter 0.25 - 0.8 mm max (AWG22) Material phosphor bronze (female)

Cu-Alloy (male)

Contact finish hard gold-plated over nickel

non-magnetic versions on request

#### **Sub-D High Density CRIMP PINS**

TYPE	NO. OF PINS	PART NUMBER	
FEMALE	10	212-PINFHD-10	
FEMALE	26	212-PINFHD-26	
FEMALE	44	212-PINFHD-44	
MALE	10	212-PINMHD-10	
MALE	26	212-PINMHD-26	
MALE	44	212-PINMHD-44	

For 78 pins please use 3x26 pin packages

HD vacuum connectors include already crimp pins

Non-magnetic female pins are available as well,

add "-NM" to the part number