Thermocouple Feedthroughs



Introduction

LewVac offer a wide range of different feedthroughs for use with various types of thermocouple. Thermocouple feedthroughs are not thermocouples in themselves, they are used to conduct the thermocouple's voltage signal from inside the vacuum system to an external instrumentation device.
LewVac offer feedthroughs compatible with type C, E, J, K, R, S & T thermocouples as standard. Feedthroughs for use with type N thermocouples are available upon special request.

Thermocouple Type	Thermocouple Materials	Polarity	Operating Temperature	EMF
K	Chromel®	+	-200°C to 1250°C	-5.97mV to 50.63mV
	Alumel®	-		
C	Tungsten 5% rhenium*	+	0°C to 2320°C	0mV to 37.07mV
	Tungsten 26% rhenium*	-		
E	Chromel®	+	-200°C to 900°C	-8.82mV to 68.78mV
	Constantan®	-		
J	Iron	+	0°C to 750°C	0mV to 42.28mV
	Constantan®	-		
T	Copper	+	-200°C to 350°C	-5.6mV to 17.82mV
	Constantan®	-		
N	Ni-Cr-Si	+	-270°C to 1300°C	-4.34mV to 47.5mV
	Ni-Si-Mg	-		
R	Platinum 13% rhodium*	+	0°C to 1450°C	0mV to 16.74mV
	Platinum*	-		
S	Platinum 10% rhodium*	+	0°C to 1450°C	0mV to 14.97mV
	Platinum*	-		

* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

For identifying K type wire types;
Chromel (+'ve) wire is non-magnetic, vacuum side ends are radiussed
Alumel (-'ve) wire is magnetic, vacuum side ends are flat

For identifying J type wire types;
Iron (+'ve) vacuum side ends are radiussed
Constantan (-'ve) vacuum side ends are flat

For identifying E type wire types;
Chromel (+'ve) vacuum side ends are radiussed
Constantan (-'ve) vacuum side ends are flat

All dimensions are nominal in millimetres unless otherwise specified

ELECTRICAL FEEDTHROUGHS

1 Pair, Weldable, Screw & Nut Connector / Miniature Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
Weldable feedthrough	-100°C to 450°C
Air side connector (plug)	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Choice of industry standard miniature push-on thermocouple connectors or screw and nut connection.
- Types C*, E, J & K as standard, type N upon request.
- Air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

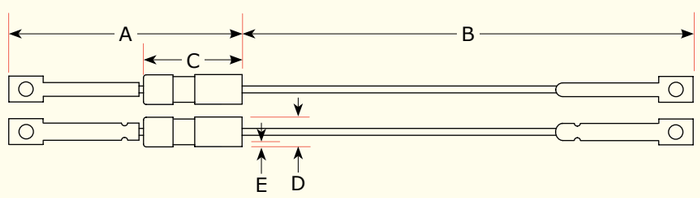
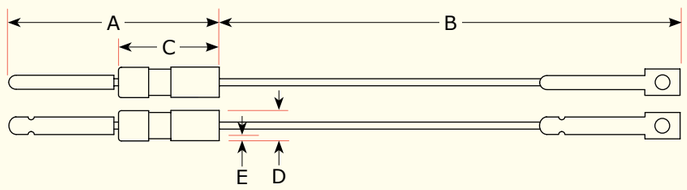


Fig. 2.



Screw & Nut Connector



No. Pairs	TC Type	Fig.	A	B	C	D	E	Part Code	Price £	Price €
1	K	1	45.5	127.0	19.1	6.3	0.3	FHTCK-SN-W	£81	€94
1	C	1	45.5	127.0	19.1	6.3	0.3	FHTCC-SN-W	£81	€94
1	E	1	45.5	127.0	19.1	6.3	0.3	FHTCE-SN-W	£81	€94
1	J	1	45.5	127.0	19.1	6.3	0.3	FHTCJ-SN-W	£81	€94

Miniature Connector



No. Pairs	TC Type	Fig.	A	B	C	D	E	Part Code	Price £	Price €
1	K	2	39.1	127.0	19.1	6.3	0.3	FHTCK-M-W	£81	€94
1	C	2	39.1	127.0	19.1	6.3	0.3	FHTCC-M-W	£81	€94
1	E	2	39.1	127.0	19.1	6.3	0.3	FHTCE-M-W	£81	€94
1	J	2	39.1	127.0	19.1	6.3	0.3	FHTCJ-M-W	£81	€94

All dimensions are nominal in millimetres unless otherwise specified

All dimensions are nominal in millimetres unless otherwise specified

Email : sales@lewvac.co.uk - Tel : +44 (0)1444 233372 - Website : www.lewvac.co.uk

1 Pair, Miniature Connector



Features:

- Industry standard miniature push-on thermocouple connectors.
- Types C*, E, J & K as standard, type N upon request.
- Air & vacuum side connectors included.
- 1" base plate or NPT versions available.
- Custom versions available on request.

Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Fig. 1.

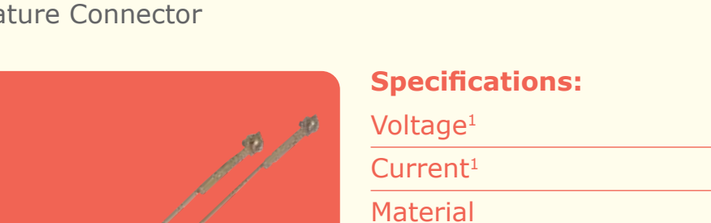
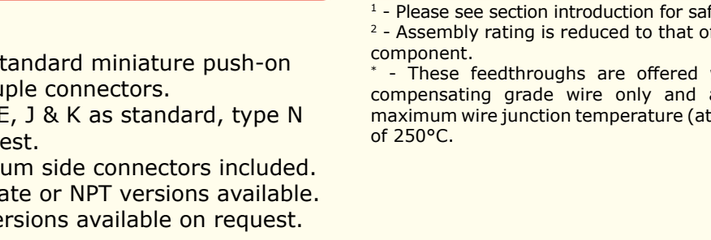


Fig. 2.



Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
1	K	1	47.0	101.6	76.2	27.4	19.1	DN16CF	FHTCK-16CF	£103	€119
1	K	1	34.0	101.1	75.7	15.2	19.1	DN40CF	FHTCK-40CF	£117	€135
1	C	1	47.0	101.6	76.2	27.4	19.1	DN16CF	FHTCC-16CF	£103	€119
1	C	1	34.0	101.1	75.7	15.2	19.1	DN40CF	FHTCC-40CF	£117	€135
1	E	1	47.0	101.6	76.2	27.4	19.1	DN16CF	FHTCE-16CF	£103	€119
1	E	1	34.0	101.1	75.7	15.2	19.1	DN40CF	FHTCE-40CF	£117	€135
1	J	1	47.0	101.6	76.2	27.4	19.1	DN16CF	FHTCJ-16CF	£103	€119
1	J	1	34.0	101.1	75.7	15.2	19.1	DN40CF	FHTCJ-40CF	£117	€135

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
1	K	2	47.0	101.6	76.2	27.4	19.1	DN16KF	FHTCK-16KF	£103	€119
1	C	2	47.0	101.6	76.2	27.4	19.1	DN16KF	FHTCC-16KF	£103	€119
1	E	2	47.0	101.6	76.2	27.4	19.1	DN16KF	FHTCE-16KF	£103	€119
1	J	2	47.0	101.6	76.2	27.4	19.1	DN16KF	FHTCJ-16KF	£103	€119

Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	E	F	Part Code	Price £	Price €
1	K	3	33.3	114.3	88.9	14.7	19.1	0.9	FHTCK-W	£74	€86
1	C	3	33.3	114.3	88.9	14.7	19.1	0.9	FHTCC-W	£74	€86
1	E	3	33.3	114.3	88.9	14.7	19.1	0.9	FHTCE-W	£74	€86
1	J	3	33.3	114.3	88.9	14.7	19.1	0.9	FHTCJ-W	£74	€86

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

2 Pairs, Miniature Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Industry standard miniature push-on thermocouple connectors.
- Types C*, E, J & K as standard, type N upon request.
- Air & vacuum side connectors included.
- 1" base plate or NPT versions available.
- Custom versions available on request.

Fig. 1.

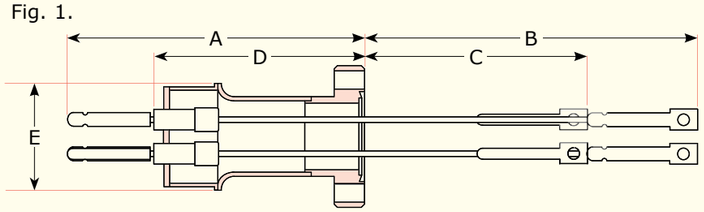


Fig. 2.

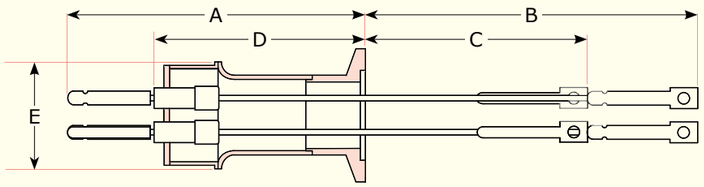
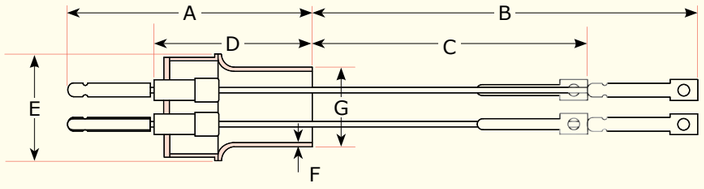


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
2	K	1	65.3	106.7	81.3	46.2	28.7	DN16CF	FHTCK-2-16CF	£156	€180
2	K	1	51.1	116.8	91.4	32.6	28.7	DN40CF	FHTCK-2-40CF	£171	€197
2	C	1	65.3	106.7	81.3	46.2	28.7	DN16CF	FHTCC-2-16CF	£156	€180
2	C	1	51.1	116.8	91.4	32.6	28.7	DN40CF	FHTCC-2-40CF	£171	€197
2	E	1	65.3	106.7	81.3	46.2	28.7	DN16CF	FHTCE-2-16CF	£156	€180
2	E	1	51.1	116.8	91.4	32.6	28.7	DN40CF	FHTCE-2-40CF	£171	€197
2	J	1	65.3	106.7	81.3	46.2	28.7	DN16CF	FHTCJ-2-16CF	£156	€180
2	J	1	51.1	116.8	91.4	32.6	28.7	DN40CF	FHTCJ-2-40CF	£171	€197

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
2	K	2	67.1	101.6	76.2	47.2	28.7	DN16KF	FHTCK-2-16KF	£156	€180
2	C	2	67.1	101.6	76.2	47.2	28.7	DN16KF	FHTCC-2-16KF	£156	€180
2	E	2	67.1	101.6	76.2	47.2	28.7	DN16KF	FHTCE-2-16KF	£156	€180
2	J	2	67.1	101.6	76.2	47.2	28.7	DN16KF	FHTCJ-2-16KF	£156	€180

Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	E	F	G	Part Code	Price £	Price €
2	K	3	53.6	114.3	88.9	35.1	28.7	0.9	19.0	FHTCK-2-W	£132	€152
2	C	3	53.6	114.3	88.9	35.1	28.7	0.9	19.0	FHTCC-2-W	£132	€152
2	E	3	53.6	114.3	88.9	35.1	28.7	0.9	19.0	FHTCE-2-W	£132	€152
2	J	3	53.6	114.3	88.9	35.1	28.7	0.9	19.0	FHTCJ-2-W	£132	€152

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

3 Pairs, Miniature Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Industry standard miniature push-on thermocouple connectors.
- Types C*, E, J & K as standard, type N upon request.
- Air & vacuum side connectors included.
- NPT fitting versions available.
- Custom versions available on request.

Fig. 1.

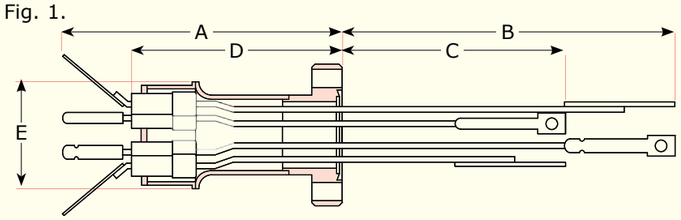


Fig. 2.

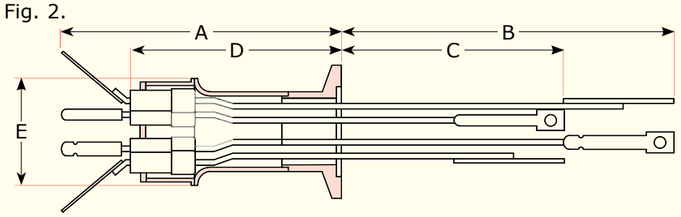
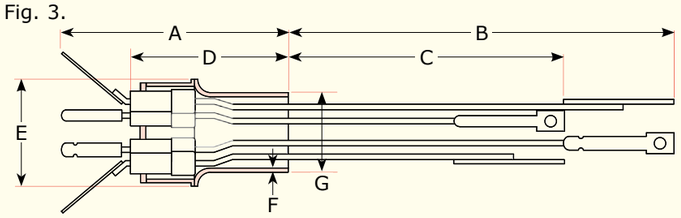


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
3	K	1	70.6	101.6	76.2	52.8	31.8	DN16CF	FHTCK-3-16CF	£234	€270
3	K	1	65.3	106.4	81.0	47.8	31.8	DN40CF	FHTCK-3-40CF	£249	€287
3	C	1	70.6	101.6	76.2	52.8	31.8	DN16CF	FHTCC-3-16CF	£234	€270
3	C	1	65.3	106.4	81.0	47.8	31.8	DN40CF	FHTCC-3-40CF	£249	€287
3	E	1	70.6	101.6	76.2	52.8	31.8	DN16CF	FHTCE-3-16CF	£234	€270
3	E	1	65.3	106.4	81.0	47.8	31.8	DN40CF	FHTCE-3-40CF	£249	€287
3	J	1	70.6	101.6	76.2	52.8	31.8	DN16CF	FHTCJ-3-16CF	£234	€270
3	J	1	65.3	106.4	81.0	47.8	31.8	DN40CF	FHTCJ-3-40CF	£249	€287

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
3	K	2	70.6	101.6	76.2	52.8	31.8	DN16KF	FHTCK-3-16KF	£234	€270
3	C	2	70.6	101.6	76.2	52.8	31.8	DN16KF	FHTCC-3-16KF	£234	€270
3	E	2	70.6	101.6	76.2	52.8	31.8	DN16KF	FHTCE-3-16KF	£234	€270
3	J	2	70.6	101.6	76.2	52.8	31.8	DN16KF	FHTCJ-3-16KF	£234	€270

Weldable

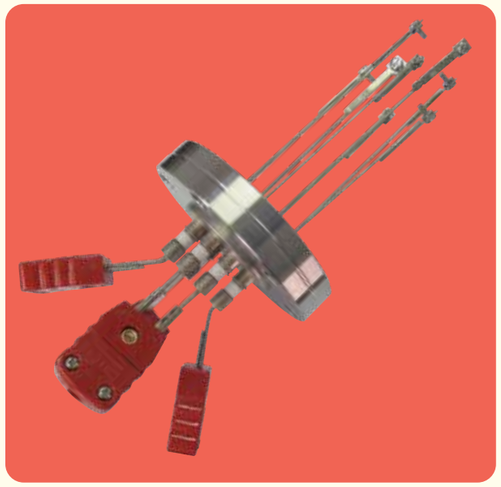


No. Pairs	TC Type	Fig.	A	B	C	D	E	F	G	Part Code	Price £	Price €
3	K	3	57.4	114.3	88.9	39.9	31.8	0.9	19.0	FHTCK-3-W	£210	€242
3	C	3	57.4	114.3	88.9	39.9	31.8	0.9	19.0	FHTCC-3-W	£210	€242
3	E	3	57.4	114.3	88.9	39.9	31.8	0.9	19.0	FHTCE-3-W	£210	€242
3	J	3	57.4	114.3	88.9	39.9	31.8	0.9	19.0	FHTCJ-3-W	£210	€242

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

4 Pairs, Miniature Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Industry standard miniature push-on thermocouple connectors.
- Types C*, E, J & K as standard, type N upon request.
- Air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

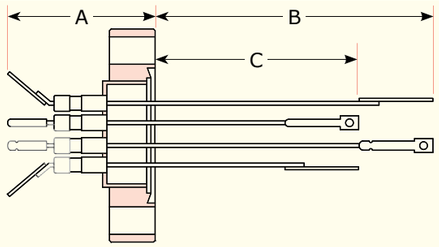


Fig. 2.

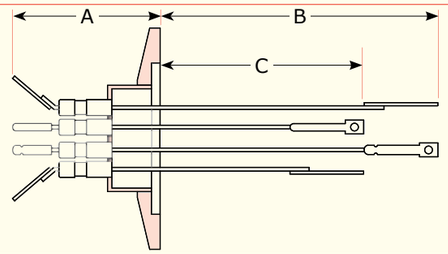
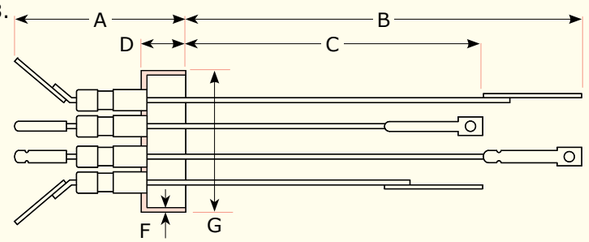


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
4	K	1	49.8	100.3	74.9	DN40CF	FHTCK-4-40CF	£366	€421
4	C	1	49.8	100.3	74.9	DN40CF	FHTCC-4-40CF	£366	€421
4	E	1	49.8	100.3	74.9	DN40CF	FHTCE-4-40CF	£366	€421
4	J	1	49.8	100.3	74.9	DN40CF	FHTCJ-4-40CF	£366	€421

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
4	K	2	50.8	99.1	73.7	DN40KF	FHTCK-4-40KF	£366	€421
4	C	2	50.8	99.1	73.7	DN40KF	FHTCC-4-40KF	£366	€421
4	E	2	50.8	99.1	73.7	DN40KF	FHTCE-4-40KF	£366	€421
4	J	2	50.8	99.1	73.7	DN40KF	FHTCJ-4-40KF	£366	€421

Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	F	G	Part Code	Price £	Price €
4	K	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCK-4-W	£310	€357
4	C	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCC-4-W	£310	€357
4	E	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCE-4-W	£310	€357
4	J	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCJ-4-W	£310	€357

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

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5 Pairs, Miniature Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Industry standard miniature push-on thermocouple connectors.
- Types C*, E, J & K as standard, type N upon request.
- Air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

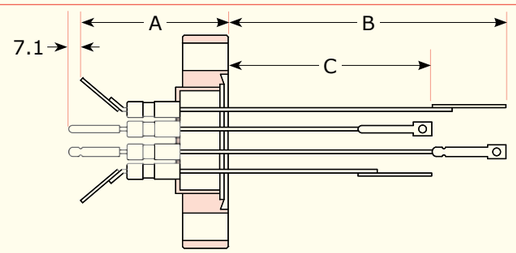


Fig. 2.

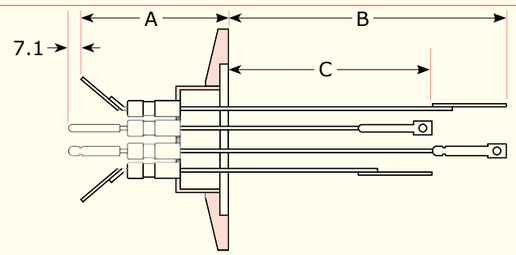
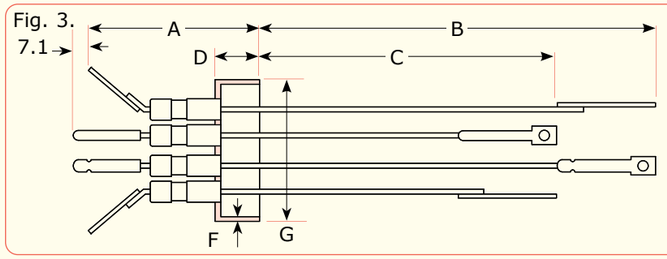


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



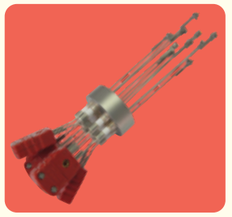
No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
5	K	1	50.3	100.3	74.9	DN40CF	FHTCK-5-40CF	£429	€494
5	C	1	50.3	100.3	74.9	DN40CF	FHTCC-5-40CF	£429	€494
5	E	1	50.3	100.3	74.9	DN40CF	FHTCE-5-40CF	£429	€494
5	J	1	50.3	100.3	74.9	DN40CF	FHTCJ-5-40CF	£429	€494

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
5	K	2	51.3	99.1	73.7	DN40KF	FHTCK-5-40KF	£429	€494
5	C	2	51.3	99.1	73.7	DN40KF	FHTCC-5-40KF	£429	€494
5	E	2	51.3	99.1	73.7	DN40KF	FHTCE-5-40KF	£429	€494
5	J	2	51.3	99.1	73.7	DN40KF	FHTCJ-5-40KF	£429	€494

Weldable

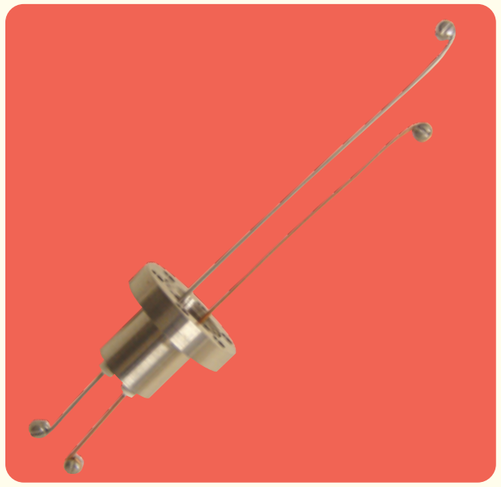


No. Pairs	TC Type	Fig.	A	B	C	D	F	G	Part Code	Price £	Price €
5	K	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCK-5-W	£385	€443
5	C	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCC-5-W	£385	€443
5	E	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCE-5-W	£385	€443
5	J	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCJ-5-W	£385	€443

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

1 Pair, Screw Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Type N, R*, S* & T as standard.
- Air & vacuum side connectors included.
- 1” base plate or NPT versions available.
- Custom versions available on request.

Fig. 1.

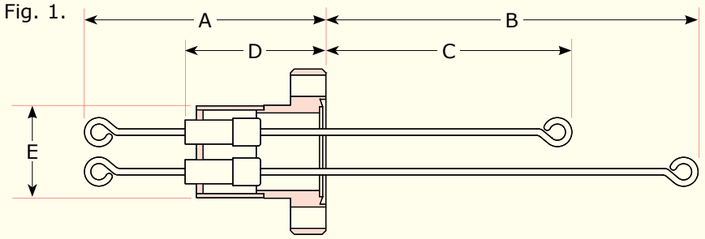


Fig. 2.

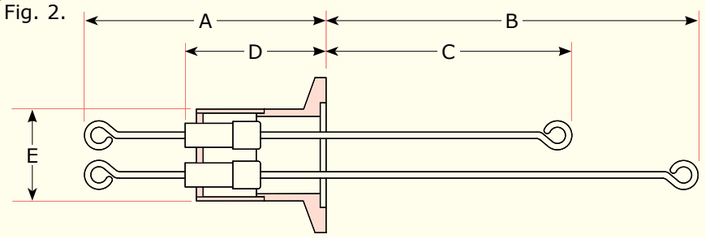
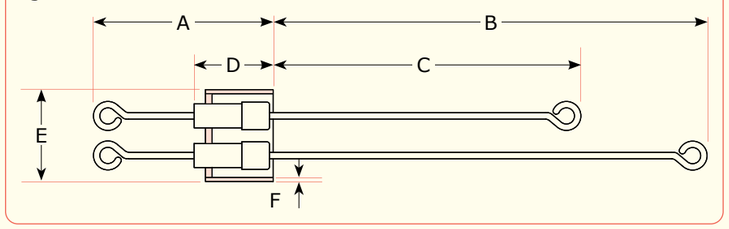
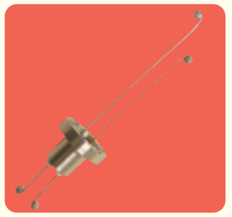


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



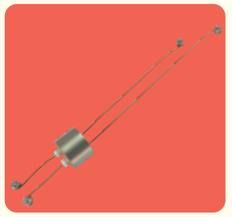
No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
1	R & S	1	53.3	101.6	76.2	27.2	19.0	DN16CF	FHTCR/S-16CF	£108	€125
1	N	1	53.3	101.6	76.2	27.2	19.0	DN16CF	FHTCN-16CF	£108	€125
1	T	1	53.3	101.6	76.2	27.2	19.0	DN16CF	FHTCT-16CF	£108	€125

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
1	R & S	2	53.3	101.6	76.2	27.2	19.0	DN16KF	FHTCR/S-16KF	£108	€125
1	N	2	53.3	101.6	76.2	27.2	19.0	DN16KF	FHTCN-16KF	£108	€125
1	T	2	53.3	101.6	76.2	27.2	19.0	DN16KF	FHTCT-16KF	£108	€125

Weldable



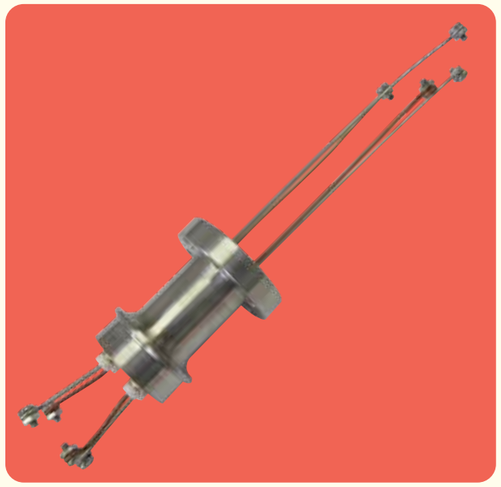
No. Pairs	TC Type	Fig.	A	B	C	D	E	F	Part Code	Price £	Price €
1	R & S	3	43.9	114.3	88.9	18.5	19.0	0.9	FHTCR/S-W	£86	€99
1	N	3	43.9	114.3	88.9	18.5	19.0	0.9	FHTCN-W	£86	€99
1	T	3	43.9	114.3	88.9	18.5	19.0	0.9	FHTCT-W	£86	€99

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.
Shorter leg is +’ve terminal.

All dimensions are nominal in millimetres unless otherwise specified

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2 Pairs, Screw Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Type N, R*, S* & T as standard.
- Air & vacuum side connectors included.
- 1” base plate or NPT versions available.
- Custom versions available on request.

Fig. 1.

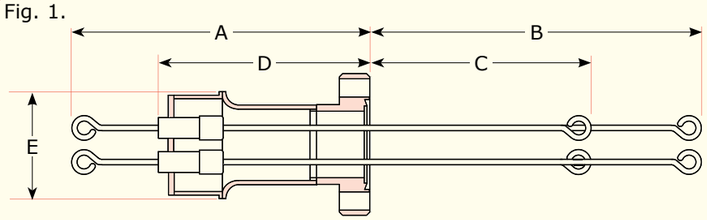


Fig. 2.

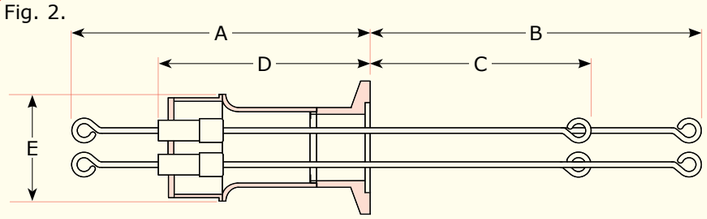
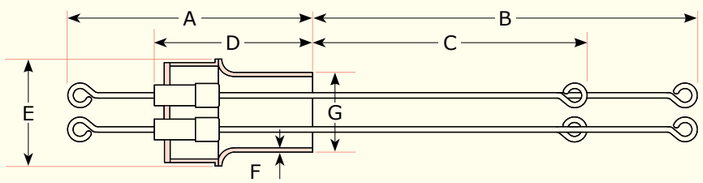


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



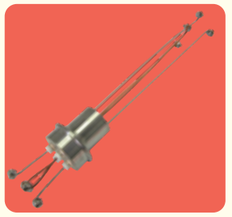
No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
2	R & S	1	72.4	101.6	76.2	47.2	28.7	DN16CF	FHTCR/S-2-16CF	£167	€193
2	N	1	72.4	101.6	76.2	47.2	28.7	DN16CF	FHTCN-2-16CF	£167	€193
2	T	1	72.4	101.6	76.2	47.2	28.7	DN16CF	FHTCT-2-16CF	£167	€193

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
2	R & S	2	72.4	101.6	76.2	47.2	28.7	DN16KF	FHTCR/S-2-16KF	£167	€193
2	N	2	72.4	101.6	76.2	47.2	28.7	DN16KF	FHTCN-2-16KF	£167	€193
2	T	2	72.4	101.6	76.2	47.2	28.7	DN16KF	FHTCT-2-16KF	£167	€193

Weldable



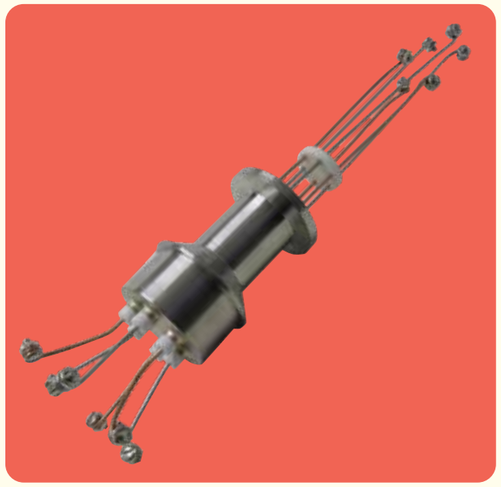
No. Pairs	TC Type	Fig.	A	B	C	D	E	F	G	Part Code	Price £	Price €
2	R & S	3	60.5	114.3	88.9	35.1	28.4	0.9	19.0	FHTCR/S-2-W	£146	€168
2	N	3	60.5	114.3	88.9	35.1	28.4	0.9	19.0	FHTCN-2-W	£146	€168
2	T	3	60.5	114.3	88.9	35.1	28.4	0.9	19.0	FHTCT-2-W	£146	€168

Larger CF/KF/LF flange sizes, baseplate bolt fitting & NPT versions also available, please contact sales office for details.
Shorter leg is +’ve terminal.

All dimensions are nominal in millimetres unless otherwise specified

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3 Pairs, Screw Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Type N, R*, S* & T as standard.
- Air & vacuum side connectors included.
- NPT fitting versions available.
- Custom versions available on request.

Fig. 1.

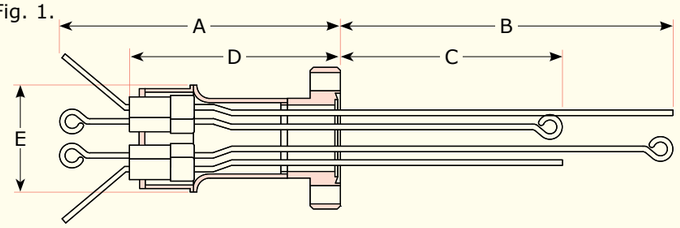


Fig. 2.

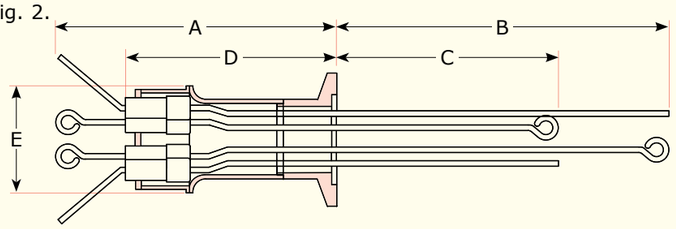
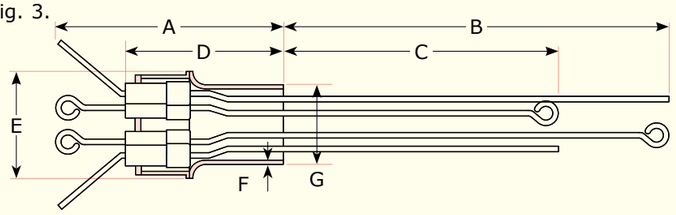
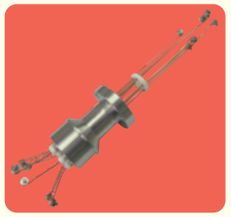


Fig. 3.



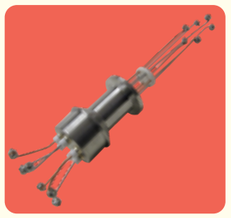
All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



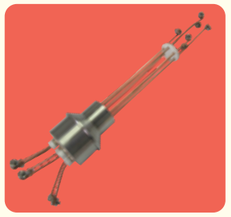
No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
3	R & S	1	71.4	101.6	76.2	52.8	31.8	DN16CF	FHTCR/S-3-16CF	£289	€333
3	N	1	71.4	101.6	76.2	52.8	31.8	DN16CF	FHTCN-3-16CF	£289	€333
3	T	1	71.4	101.6	76.2	52.8	31.8	DN16CF	FHTCT-3-16CF	£289	€333

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	E	Flange	Part Code	Price £	Price €
3	R & S	2	71.4	101.6	76.2	52.8	31.8	DN16KF	FHTCR/S-3-16KF	£289	€333
3	N	2	71.4	101.6	76.2	52.8	31.8	DN16KF	FHTCN-3-16KF	£289	€333
3	T	2	71.4	101.6	76.2	52.8	31.8	DN16KF	FHTCT-3-16KF	£289	€333

Weldable

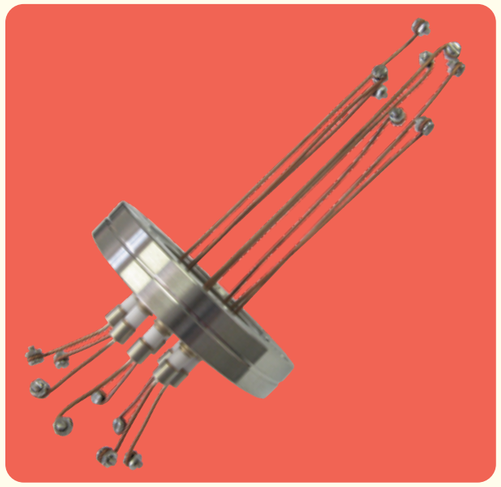


No. Pairs	TC Type	Fig.	A	B	C	D	E	F	G	Part Code	Price £	Price €
3	R & S	3	50.8	114.3	88.9	40.1	31.8	0.9	19.0	FHTCR/S-3-W	£260	€299
3	N	3	50.8	114.3	88.9	40.1	31.8	0.9	19.0	FHTCN-3-W	£260	€299
3	T	3	50.8	114.3	88.9	40.1	31.8	0.9	19.0	FHTCT-3-W	£260	€299

Larger CF/KF/LF flange sizes & NPT versions also available, please contact sales office for details.
Shorter leg is +'ve terminal.

All dimensions are nominal in millimetres unless otherwise specified

4 Pairs, Screw Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Type N, R*, S* & T as standard.
- Air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

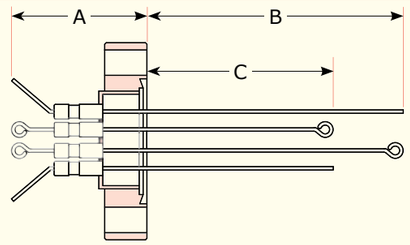


Fig. 2.

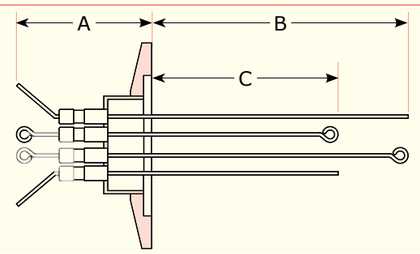
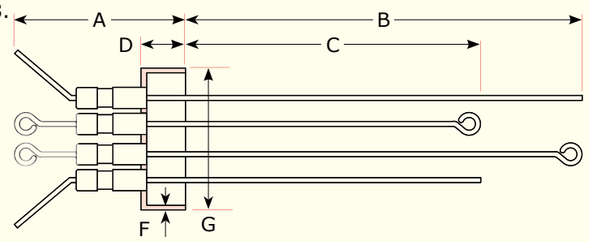
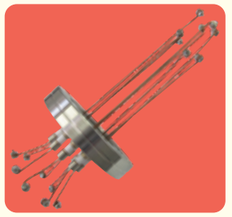


Fig. 3.



CF Flange Mounted



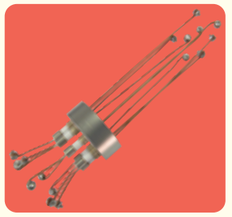
No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
4	R & S	1	51.6	101.6	76.2	DN40CF	FHTCR/S-4-40CF	£466	€536
4	N	1	51.6	101.6	76.2	DN40CF	FHTCN-4-40CF	£466	€536
4	T	1	51.6	101.6	76.2	DN40CF	FHTCT-4-40CF	£466	€536

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
4	R & S	2	52.8	100.3	74.9	DN40KF	FHTCR/S-4-40KF	£466	€536
4	N	2	52.8	100.3	74.9	DN40KF	FHTCN-4-40KF	£466	€536
4	T	2	52.8	100.3	74.9	DN40KF	FHTCT-4-40KF	£466	€536

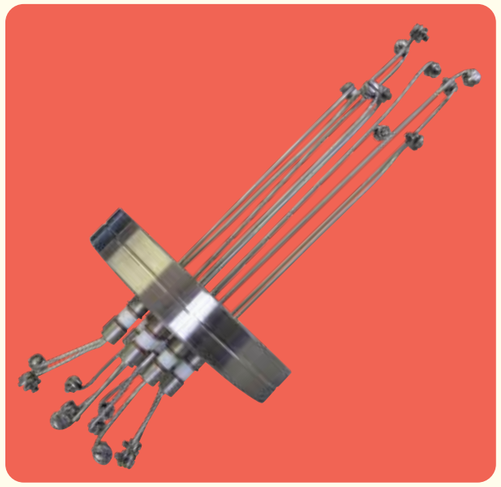
Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	F	G	Part Code	Price £	Price €
4	R & S	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCR/S-4-W	£364	€419
4	N	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCN-4-W	£364	€419
4	T	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCT-4-W	£364	€419

Larger CF/KF/LF flange sizes also available, please contact sales office for details.
Shorter leg is +’ve terminal.

5 Pairs, Screw Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
* - These feedthroughs are offered with extension / compensating grade wire only and are limited to a maximum wire junction temperature (at the feedthrough) of 250°C.

Features:

- Type N, R*, S* & T as standard.
- Air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

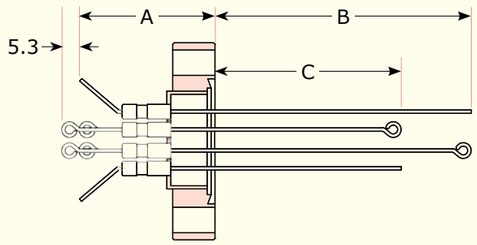


Fig. 2.

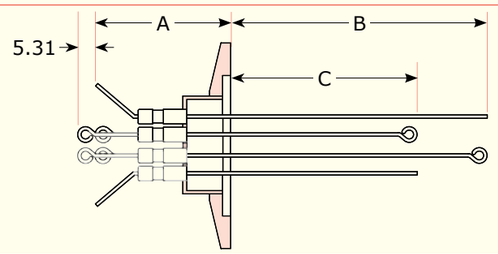
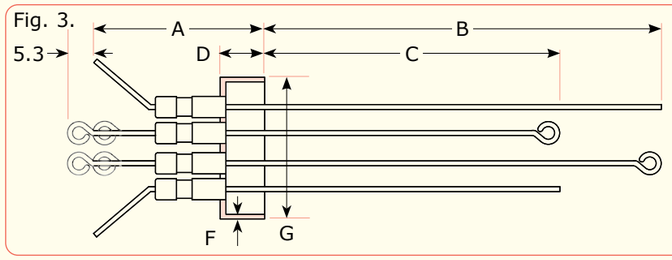
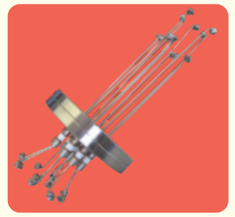


Fig. 3.

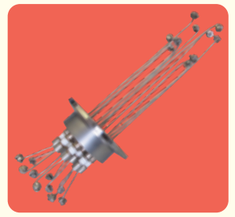


CF Flange Mounted



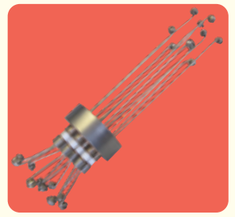
No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
5	R & S	1	51.6	101.6	76.2	DN40CF	FHTCR/S-5-40CF	£576	€663
5	N	1	51.6	101.6	76.2	DN40CF	FHTCN-5-40CF	£576	€663
5	T	1	51.6	101.6	76.2	DN40CF	FHTCT-5-40CF	£576	€663

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	Flange	Part Code	Price £	Price €
5	R & S	2	52.8	100.3	74.9	DN40KF	FHTCR/S-5-40KF	£576	€663
5	N	2	52.8	100.3	74.9	DN40KF	FHTCN-5-40KF	£576	€663
5	T	2	52.8	100.3	74.9	DN40KF	FHTCT-5-40KF	£576	€663

Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	F	G	Part Code	Price £	Price €
5	R & S	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCR/S-5-W	£474	€546
5	N	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCN-5-W	£474	€546
5	T	3	50.8	101.6	76.2	12.7	0.9	38.0	FHTCT-5-W	£474	€546

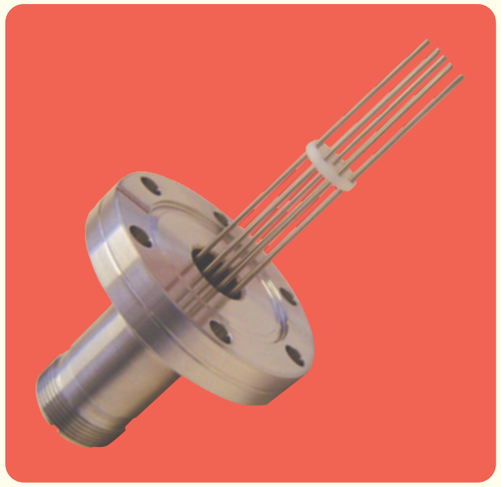
Larger CF/KF/LF flange sizes also available, please contact sales office for details.
Shorter leg is +'ve terminal.

All dimensions are nominal in millimetres unless otherwise specified

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ELECTRICAL FEEDTHROUGHS

2 - 10 Pairs, MS Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

Features:

- Industry standard MS air side connector included.
- Type E, J & K as standard.
- Custom versions available on request.

See page 9:18 for TC crimp connectors

Fig. 1.

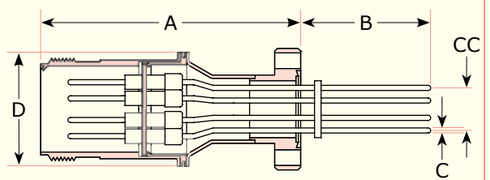
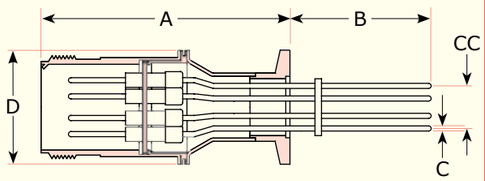
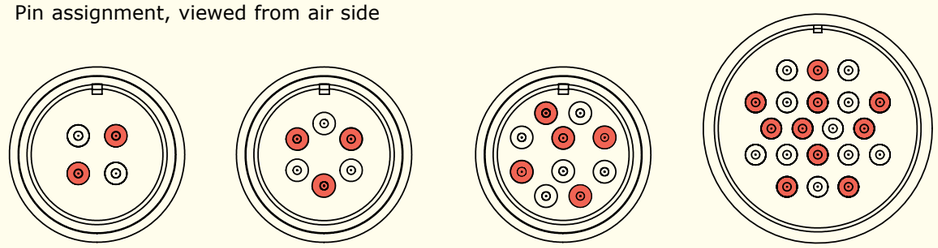


Fig. 2.



Pin assignment, viewed from air side

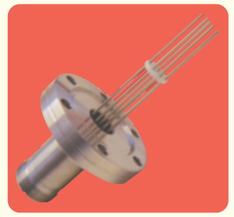




Air side connector.

All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	CC	Flange	Part Code	Price £	Price €
2	K	1	68.6	68.6	1.4	31.8	9.7	DN16CF	FHTCK-MS2-16CF	£273	€314
2	E	1	68.6	68.6	1.4	31.8	9.7	DN16CF	FHTCE-MS2-16CF	£273	€314
2	J	1	68.6	68.6	1.4	31.8	9.7	DN16CF	FHTCJ-MS2-16CF	£273	€314
2	K	1	57.2	79.8	1.4	31.8	9.7	DN40CF	FHTCK-MS2-40CF	£288	€332
2	E	1	57.2	79.8	1.4	31.8	9.7	DN40CF	FHTCE-MS2-40CF	£288	€332
2	J	1	57.2	79.8	1.4	31.8	9.7	DN40CF	FHTCJ-MS2-40CF	£288	€332
3	K	1	68.6	68.6	1.4	31.8	11.2	DN16CF	FHTCK-MS3-16CF	£303	€349
3	E	1	68.6	68.6	1.4	31.8	11.2	DN16CF	FHTCE-MS3-16CF	£303	€349
3	J	1	68.6	68.6	1.4	31.8	11.2	DN16CF	FHTCJ-MS3-16CF	£303	€349
3	K	1	57.2	79.8	1.4	31.8	11.2	DN40CF	FHTCK-MS3-40CF	£308	€355
3	E	1	57.2	79.8	1.4	31.8	11.2	DN40CF	FHTCE-MS3-40CF	£308	€355
3	J	1	57.2	79.8	1.4	31.8	11.2	DN40CF	FHTCJ-MS3-40CF	£308	€355
5	K	1	68.6	68.6	1.4	31.8	13.0	DN16CF	FHTCK-MS5-16CF	£361	€416
5	E	1	68.6	68.6	1.4	31.8	13.0	DN16CF	FHTCE-MS5-16CF	£361	€416
5	J	1	68.6	68.6	1.4	31.8	13.0	DN16CF	FHTCJ-MS5-16CF	£361	€416
5	K	1	57.2	79.8	1.4	31.8	13.0	DN40CF	FHTCK-MS5-40CF	£381	€439
5	E	1	57.2	79.8	1.4	31.8	13.0	DN40CF	FHTCE-MS5-40CF	£381	€439
5	J	1	57.2	79.8	1.4	31.8	13.0	DN40CF	FHTCJ-MS5-40CF	£381	€439
10	K	1	65.5	87.6	1.4	44.5	26.2	DN40CF	FHTCK-MS10-40CF	£678	€780
10	E	1	65.5	87.6	1.4	44.5	26.2	DN40CF	FHTCE-MS10-40CF	£678	€780
10	J	1	65.5	87.6	1.4	44.5	26.2	DN40CF	FHTCJ-MS10-40CF	£678	€780

KF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	C	D	CC	Flange	Part Code	Price £	Price €
2	K	2	68.6	68.6	1.4	31.8	9.7	DN16KF	FHTCK-MS2-16KF	£269	€310
2	E	2	68.6	68.6	1.4	31.8	9.7	DN16KF	FHTCE-MS2-16KF	£269	€310
2	J	2	68.6	68.6	1.4	31.8	9.7	DN16KF	FHTCJ-MS2-16KF	£269	€310
2	K	2	55.9	81.0	1.4	31.8	9.7	DN40KF	FHTCK-MS2-40KF	£283	€326
2	E	2	55.9	81.0	1.4	31.8	9.7	DN40KF	FHTCE-MS2-40KF	£283	€326
2	J	2	55.9	81.0	1.4	31.8	9.7	DN40KF	FHTCJ-MS2-40KF	£283	€326
3	K	2	68.6	68.6	1.4	31.8	11.2	DN16KF	FHTCK-MS3-16KF	£288	€332
3	E	2	68.6	68.6	1.4	31.8	11.2	DN16KF	FHTCE-MS3-16KF	£288	€332
3	J	2	68.6	68.6	1.4	31.8	11.2	DN16KF	FHTCJ-MS3-16KF	£288	€332
3	K	2	55.9	81.0	1.4	31.8	11.2	DN40KF	FHTCK-MS3-40KF	£303	€349
3	E	2	55.9	81.0	1.4	31.8	11.2	DN40KF	FHTCE-MS3-40KF	£303	€349
3	J	2	55.9	81.0	1.4	31.8	11.2	DN40KF	FHTCJ-MS3-40KF	£303	€349
5	K	2	68.6	68.6	1.4	31.8	13.0	DN16KF	FHTCK-MS5-16KF	£351	€404
5	E	2	68.6	68.6	1.4	31.8	13.0	DN16KF	FHTCE-MS5-16KF	£351	€404
5	J	2	68.6	68.6	1.4	31.8	13.0	DN16KF	FHTCJ-MS5-16KF	£351	€404
5	K	2	55.9	81.0	1.4	31.8	13.0	DN40KF	FHTCK-MS5-40KF	£371	€427
5	E	2	55.9	81.0	1.4	31.8	13.0	DN40KF	FHTCE-MS5-40KF	£371	€427
5	J	2	55.9	81.0	1.4	31.8	13.0	DN40KF	FHTCJ-MS5-40KF	£371	€427
10	K	2	64.3	88.9	1.4	44.5	26.2	DN40KF	FHTCK-MS10-40KF	£658	€757
10	E	2	64.3	88.9	1.4	44.5	26.2	DN40KF	FHTCE-MS10-40KF	£658	€757
10	J	2	64.3	88.9	1.4	44.5	26.2	DN40KF	FHTCJ-MS10-40KF	£658	€757

Larger CF/KF/LF flange sizes also available, please contact sales office for details.

See page 9.18 for accessories

All dimensions are nominal in millimetres unless otherwise specified

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2 - 10 Pairs, MS Connector



Specifications:

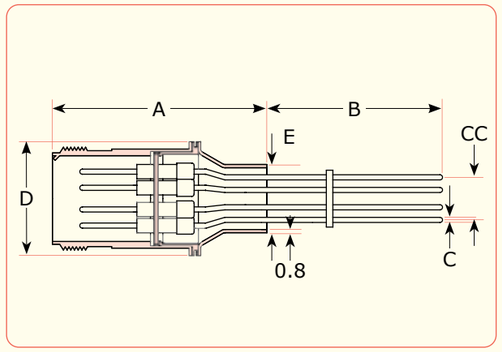
Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

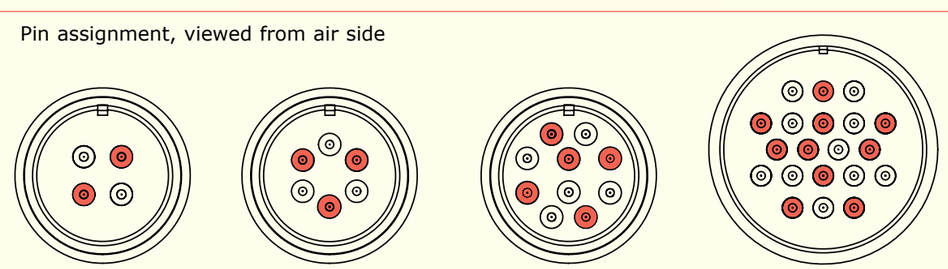
See page 9:18 for TC crimp connectors

Features:

- Industry standard MS air side connector included.
- Type E, J & K as standard.
- Custom versions available on request.



Pin assignment, viewed from air side

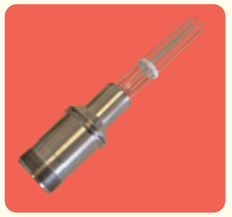




Air side connector.

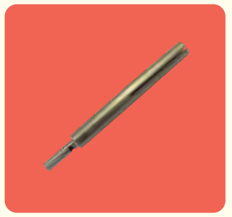
All dimensions are nominal in millimetres unless otherwise specified

Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	E	CC	Part Code	Price £	Price €
2	K	1	61.7	79.2	1.4	31.8	19.0	9.7	FHTCK-MS2-W	£230	€265
2	E	1	61.7	79.2	1.4	31.8	19.0	9.7	FHTCE-MS2-W	£230	€265
2	J	1	61.7	79.2	1.4	31.8	19.0	9.7	FHTCJ-MS2-W	£230	€265
3	K	1	61.7	79.2	1.4	31.8	19.0	11.2	FHTCK-MS3-W	£254	€293
3	E	1	61.7	79.2	1.4	31.8	19.0	11.2	FHTCE-MS3-W	£254	€293
3	J	1	61.7	79.2	1.4	31.8	19.0	11.2	FHTCJ-MS3-W	£254	€293
5	K	1	61.7	79.2	1.4	31.8	19.0	13.0	FHTCK-MS5-W	£322	€371
5	E	1	61.7	79.2	1.4	31.8	19.0	13.0	FHTCE-MS5-W	£322	€371
5	J	1	61.7	79.2	1.4	31.8	19.0	13.0	FHTCJ-MS5-W	£322	€371
10	K	1	64.3	88.9	1.4	44.5	34.8	26.2	FHTCK-MS10-W	£585	€673
10	E	1	64.3	88.9	1.4	44.5	34.8	26.2	FHTCE-MS10-W	£585	€673
10	J	1	64.3	88.9	1.4	44.5	34.8	26.2	FHTCJ-MS10-W	£585	€673

Accessories



Description	Part Code	Price £	Price €
TC crimp and push connectors Chromel® 350°C 5/PK	FHTC-CHR-CON	£62	€72
TC crimp and push connectors Alumel® 350°C 5/PK	FHTC-AL-CON	£62	€72
TC crimp and push connectors Iron 350°C 5/PK	FHTC-IRN-CON	£74	€86
TC crimp and push connectors Constantan®-J 350°C 5/PK	FHTC-CJ-CON	£74	€86
TC crimp and push connectors Constantan®-E-T 350°C 5/PK	FHTC-CET-CON	£74	€86
TC crimp and push connectors Nickel 350°C 5/PK	FHTC-N-CON	£45	€52

Additional air side connectors available, please contact sales office for details.

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ELECTRICAL FEEDTHROUGHS

2 - 10 Pairs, MS Connector Double Ended



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
Weldable	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

Features:

- Industry standard MS air and vacuum side connectors included.
- Type E, J & K as standard.
- Custom versions available on request.

Fig. 1.

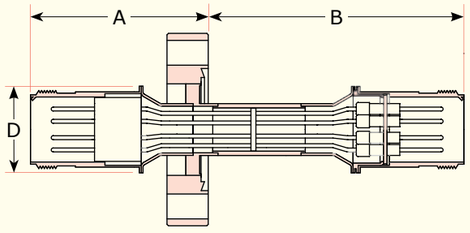
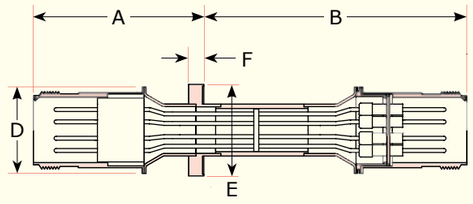


Fig. 2.



CF Flange Mounted



No. Pairs	TC Type	Fig.	A	B	D	Flange	Part Code	Price £	Price €
2	K	1	61.0	87.4	31.8	DN40CF	FHTCK-MSD2-40CF	£970	€1116
2	E	1	61.0	87.4	31.8	DN40CF	FHTCE-MSD2-40CF	£970	€1116
2	J	1	61.0	87.4	31.8	DN40CF	FHTCJ-MSD2-40CF	£970	€1116
3	K	1	61.0	87.4	31.8	DN40CF	FHTCK-MSD3-40CF	£1,082	€1245
3	E	1	61.0	87.4	31.8	DN40CF	FHTCE-MSD3-40CF	£1,082	€1245
3	J	1	61.0	87.4	31.8	DN40CF	FHTCJ-MSD3-40CF	£1,082	€1245
5	K	1	61.0	87.4	31.8	DN40CF	FHTCK-MSD5-40CF	£1,331	€1531
5	E	1	61.0	87.4	31.8	DN40CF	FHTCE-MSD5-40CF	£1,331	€1531
5	J	1	61.0	87.4	31.8	DN40CF	FHTCJ-MSD5-40CF	£1,331	€1531
10	K	1	71.6	87.6	44.5	DN63CF	FHTCK-MSD10-63CF	£1,525	€1754
10	E	1	71.6	87.6	44.5	DN63CF	FHTCE-MSD10-63CF	£1,525	€1754
10	J	1	71.6	87.6	44.5	DN63CF	FHTCJ-MSD10-63CF	£1,525	€1754

Weldable



No. Pairs	TC Type	Fig.	A	B	D	E	F	Part Code	Price £	Price €
2	K	2	67.8	82.3	31.8	34.8	7.9	FHTCK-MSD2-W	£916	€1054
2	E	2	67.8	82.3	31.8	34.8	7.9	FHTCE-MSD2-W	£916	€1054
2	J	2	67.8	82.3	31.8	34.8	7.9	FHTCJ-MSD2-W	£916	€1054
3	K	2	67.8	82.3	31.8	34.8	7.9	FHTCK-MSD3-W	£1,028	€1183
3	E	2	67.8	82.3	31.8	34.8	7.9	FHTCE-MSD3-W	£1,028	€1183
3	J	2	67.8	82.3	31.8	34.8	7.9	FHTCJ-MSD3-W	£1,028	€1183
5	K	2	67.8	82.3	31.8	34.8	7.9	FHTCK-MSD5-W	£1,214	€1397
5	E	2	67.8	82.3	31.8	34.8	7.9	FHTCE-MSD5-W	£1,214	€1397
5	J	2	67.8	82.3	31.8	34.8	7.9	FHTCJ-MSD5-W	£1,214	€1397
10	K	2	80.3	79.2	44.5	63.4	9.7	FHTCK-MSD10-W	£1,355	€1559
10	E	2	80.3	79.2	44.5	63.4	9.7	FHTCE-MSD10-W	£1,355	€1559
10	J	2	80.3	79.2	44.5	63.4	9.7	FHTCJ-MSD10-W	£1,355	€1559

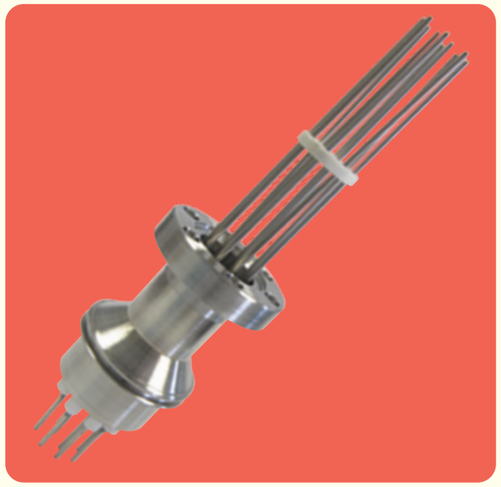
Larger CF/KF/LF flange sizes also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

All dimensions are nominal in millimetres unless otherwise specified

Email : sales@lewvac.co.uk - Tel : +44 (0)1444 233372 - Website : www.lewvac.co.uk

2 to 5 Pairs, Push On Connector



Specifications:

Voltage[1]	Millivolts
Current[1]	Milliamps
Material	
Flanges / Shell	St.St.
Pins	See table on page 1:147
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

Features:

- Type E, J & K as standard.
- Air & vacuum side push on connectors available.
- 1" base plate or NPT versions available.
- Custom versions available on request.

Fig. 1.

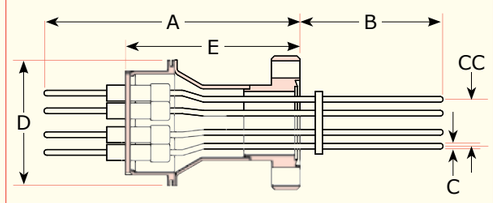


Fig. 2.

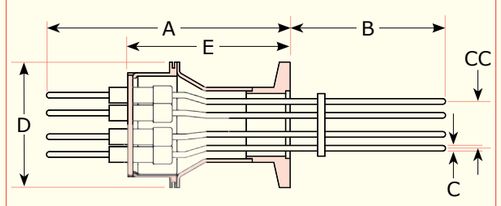
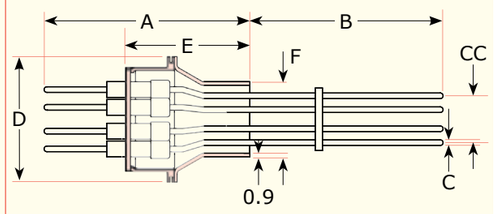


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



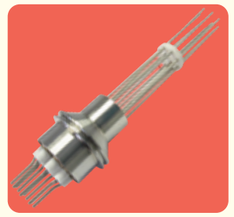
No. Pairs	TC Type	Fig.	A	B	C	D	E	CC	Flange	Part Code	Price £	Price €
2	K	1	66.3	67.3	1.4	31.8	46.0	9.7	DN16CF	FHTCK-PC2-16CF	£171	€197
2	E	1	66.3	67.3	1.4	31.8	46.0	9.7	DN16CF	FHTCE-PC2-16CF	£171	€197
2	J	1	66.3	67.3	1.4	31.8	46.0	9.7	DN16CF	FHTCJ-PC2-16CF	£171	€197
3	K	1	66.3	67.3	1.4	31.8	46.0	11.2	DN16CF	FHTCK-PC3-16CF	£186	€214
3	E	1	66.3	67.3	1.4	31.8	46.0	11.2	DN16CF	FHTCE-PC3-16CF	£186	€214
3	J	1	66.3	67.3	1.4	31.8	46.0	11.2	DN16CF	FHTCJ-PC3-16CF	£186	€214
5	K	1	66.3	67.3	1.4	31.8	46.0	13.0	DN16CF	FHTCK-PC5-16CF	£249	€287
5	E	1	66.3	67.3	1.4	31.8	46.0	13.0	DN16CF	FHTCE-PC5-16CF	£249	€287
5	J	1	66.3	67.3	1.4	31.8	46.0	13.0	DN16CF	FHTCJ-PC5-16CF	£249	€287

KF Flange Mounted



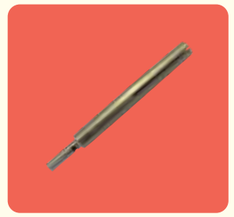
No. Pairs	TC Type	Fig.	A	B	C	D	E	CC	Flange	Part Code	Price £	Price €
2	K	2	66.3	67.3	1.4	31.8	46.0	9.7	DN16KF	FHTCK-PC2-16KF	£171	€197
2	E	2	66.3	67.3	1.4	31.8	46.0	9.7	DN16KF	FHTCE-PC2-16KF	£171	€197
2	J	2	66.3	67.3	1.4	31.8	46.0	9.7	DN16KF	FHTCJ-PC2-16KF	£171	€197
3	K	2	66.3	67.3	1.4	31.8	46.0	11.2	DN16KF	FHTCK-PC3-16KF	£186	€214
3	E	2	66.3	67.3	1.4	31.8	46.0	11.2	DN16KF	FHTCE-PC3-16KF	£186	€214
3	J	2	66.3	67.3	1.4	31.8	46.0	11.2	DN16KF	FHTCJ-PC3-16KF	£186	€214
5	K	2	66.3	67.3	1.4	31.8	46.0	13.0	DN16KF	FHTCK-PC5-16KF	£249	€287
5	E	2	66.3	67.3	1.4	31.8	46.0	13.0	DN16KF	FHTCE-PC5-16KF	£249	€287
5	J	2	66.3	67.3	1.4	31.8	46.0	13.0	DN16KF	FHTCJ-PC5-16KF	£249	€287

Weldable



No. Pairs	TC Type	Fig.	A	B	C	D	E	F	CC	Part Code	Price £	Price €
2	K	3	53.6	80.0	1.4	31.8	33.3	19.0	9.7	FHTCK-PC2-W	£137	€158
2	E	3	53.6	80.0	1.4	31.8	33.3	19.0	9.7	FHTCE-PC2-W	£137	€158
2	J	3	53.6	80.0	1.4	31.8	33.3	19.0	9.7	FHTCJ-PC2-W	£137	€158
3	K	3	53.6	80.0	1.4	31.8	33.3	19.0	11.2	FHTCK-PC3-W	£152	€175
3	E	3	53.6	80.0	1.4	31.8	33.3	19.0	11.2	FHTCE-PC3-W	£152	€175
3	J	3	53.6	80.0	1.4	31.8	33.3	19.0	11.2	FHTCJ-PC3-W	£152	€175
5	K	3	53.6	80.0	1.4	31.8	33.3	19.0	13.0	FHTCK-PC5-W	£220	€253
5	E	3	53.6	80.0	1.4	31.8	33.3	19.0	13.0	FHTCE-PC5-W	£220	€253€253
5	J	3	53.6	80.0	1.4	31.8	33.3	19.0	13.0	FHTCJ-PC5-W	£220	€253

Accessories



Description	Part Code	Price £	Price €
TC crimp and push connectors Chromel® 350°C 5/PK	FHTC-CHR-CON	£62	€72
TC crimp and push connectors Alumel® 350°C 5/PK	FHTC-AL-CON	£62	€72
TC crimp and push connectors Iron 350°C 5/PK	FHTC-IRN-CON	£74	€86
TC crimp and push connectors Constantan®-J 350°C 5/PK	FHTC-CJ-CON	£74	€86
TC crimp and push connectors Constantan®-E-T 350°C 5/PK	FHTC-CET-CON	£74	€86
TC crimp and push connectors Nickel 350°C 5/PK	FHTC-N-CON	£45	€52

Larger CF/KF/LF flange sizes & NPT versions also available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

Subminiature D Thermocouple / Power



Thermocouple - power hermetic subminiature D feedthroughs are mixed thermocouple and power contact combinations fitted to one feedthrough assembly constructed with pin arrangements designed to meet IEC 807-2 and DESC 85039 specifications.
Standard configurations include power pins, Chromel® / Alumel® type K thermocouple pin pairs and combinations of power and thermocouple pins in a single subminiature D shell. Straight through pins are hermetically sealed and electrically insulated in a stainless steel shell using the latest in glass-ceramic bonding technology. Ultrahigh vacuum cable assemblies with PEEK connectors and Kapton® insulated wires are available to meet the demands of UHV environments. Vacuum side cable assemblies, individual connectors and other accessories are available. Custom thermocouple - power assemblies are available upon request, please contact our sales office for further details.

Features:

- Thermocouple - power combination.
- Type K as standard.
- Up to 4 TC pairs and 5 power leads.
- High temperature rated to 250°C.
- UHV compatible construction.
- Kapton® insulated in-vacuum cables.
- Air & vacuum side connectors and cables available.

Specifications:

Voltage[1]

Thermocouple pins	Millivolts
Power pins	500VDC Max

Current[1]

Thermocouple pins	Milliamps
Power pins	20A max @ 20°C

Material

Flange	St.St.
Shell	St.St.
Thermocouple pins	Chromel® / Alumel®
Power pins	Ni-Fe alloy, Au plated
Insulation	Glass ceramic
Vacuum sideconnector[3]	PEEK
Air side connector	Delrin®

Temperature Range[2]

CF flanged feedthrough	-200 to 250°CC
KF flanged feedthrough	-20°C to 150°C
Vacuum side connector	-200 to 250°C
Air side connector	-65°C to 80°C
Max Thermal Gradient	25°C / minute

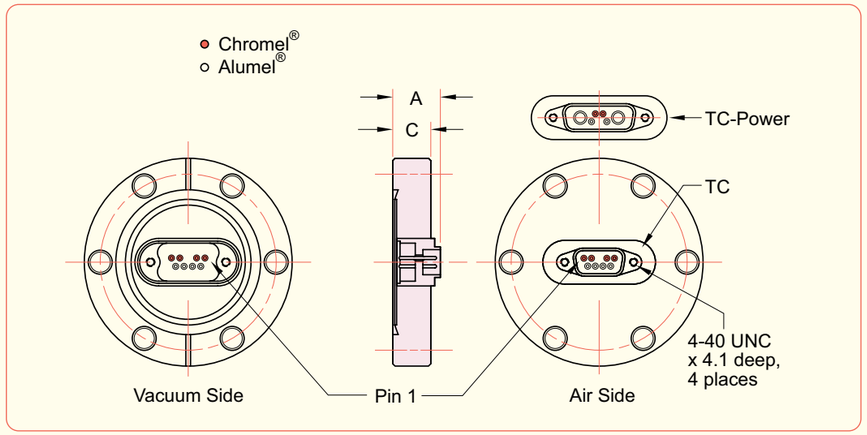
[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.
[3] - PEEK is a polyetheretherketone thermoplastic.

All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



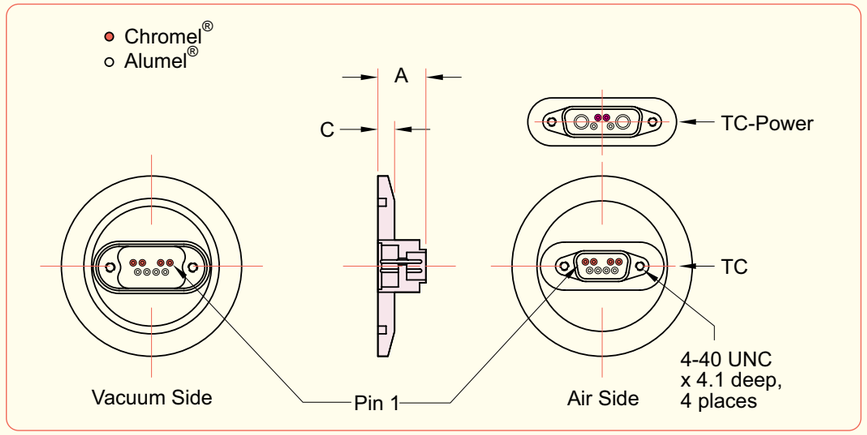
No. of TC Pairs	TC Type	No. Power Pins	A	C	Flange	Part Code	Price £	Price €
4	K	-	14.9	12.7	DN40CF	D9-8TC-40CF	£296	€341
4	K	-	17.8	17.3	DN63CF	D9-8TC-63CF	£319	€367
2	K	2	17.8	17.3	DN63CF	D15-4TC2P-63CF	£351	€404



KF Flange Mounted

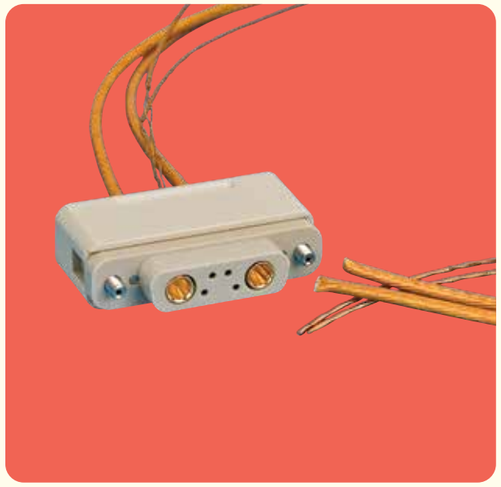


No. of TC Pairs	TC Type	No. Power Pins	A	C	Flange	Part Code	Price £	Price €
4	K	-	14.9	5.1	DN40KF	D9-8TC-40KF	£291	€335
2	K	2	14.9	5.1	DN50KF	D15-4TC2P-50KF	£316	€364



All dimensions are nominal in millimetres unless otherwise specified

Subminiature D Thermocouple / Power Cables & Connectors



Special note: Individual contact fitted leads will not allow subsequent connector installation. Leads must be threaded through the connector back piece before crimping contacts.

Connector to cable UHV assemblies are fitted with PEEK subminiature D connectors at one end and non terminated Kapton® insulated cable at the other. The female socket connectors mate directly onto the vacuum side of the corresponding feedthrough shown on the previous page.
Thermocouple cable assemblies have type K Chromel® and Alumel® female socket contacts at one end and non terminated Kapton® insulated 0.2mm Chromel® and Alumel® single strand wires at the other.
Power cable assemblies have gold plated female socket contacts at one end and non-terminated Kapton® insulated 12 AWG multi-strand wire at the other.
Thermocouple female socket contacts mate with 1.0mm diameter male pins, and power female socket contacts mate with 3.6mm diameter male pins.
Contact to cable UHV leads do not include PEEK connectors.

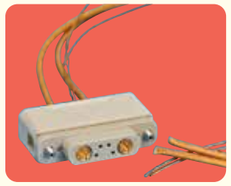
* - Wires can be welded to form TC junction

UHV Connector To Cable 4 Pair Type K



No. of TC Pairs	TC Type	No. Power Leads	Cable Length mm	Connec-tor Type	Connector Dimensions W x H x D	Part Code	Price £	Price €
4	K	-	500	Female	33.0 x 12.7 x 19.1	D9-8TC-F500*	£288	€332
4	K	-	1000	Female	33.0 x 12.7 x 19.1	D9-8TC-F1000*	£327	€377
4	K	-	500	Male	33.0 x 12.7 x 19.1	D9-8TC-M500*	£288	€332
4	K	-	1000	Male	33.0 x 12.7 x 19.1	D9-8TC-M1000*	£327	€377

UHV Connector To Cable 2 Pair Type K / 2 Power Leads



No. of TC Pairs	TC Type	No. Power Leads	Cable Length mm	Connec-tor Type	Connector Dimensions W x H x D	Part Code	Price £	Price €
2	K	2	500	Female	43.2 x 12.7 x 25.1	D15-4TC2P-F500*	£268	€309
2	K	2	1000	Female	43.2 x 12.7 x 25.1	D15-4TC2P-F1000*	£308	€355
2	K	2	500	Male	43.2 x 12.7 x 25.1	D15-4TC2P-M500*	£268	€309
2	K	2	1000	Male	43.2 x 12.7 x 25.1	D15-4TC2P-M1000*	£308	€355

UHV Contact To Cable Leads



No. of TC Pairs	TC Type	No. Power Leads	Cable Length mm	Contact Type	Part Code	Price £	Price €
1	K	-	500	Female	DTC-2-F500*	£51	€59
1	K	-	1000	Female	DTC-2-F1000*	£60	€69
-	-	1	500	Female	DP-1-F500	£40	€46
-	-	1	1000	Female	DP-1-F1000	£48	€56

UHV Contact To Cable Leads - Junctions & Connectors

Description	Part Code	Price £	Price €
Fused thermocouple junction wire end	Add -WJ	£15	€18
In vacuum mini female TC connector	Add-IVMFTC	£24	€28
In vacuum mini male TC connector	Add-IVMMTC	£24	€28

All dimensions are nominal in millimetres unless otherwise specified

UHV PEEK Connectors & Contacts



Cable strain releif available, please call sales office for details.

No. of TC Pairs.	No. Power Leads	Connector Type	Connector Dimensions W x H x D	Part Code	Price £	Price €
4	-	Female	33.0 x 12.7 x 19.1	D9-8TC-PCONF	£130	€150
4	-	Male	33.0 x 12.7 x 19.1	D9-8TC-PCONM	£130	€150
2	2	Female	43.2 x 12.7 x 25.1	D15-4TC2P-PCONF	£139	€160
2	2	Male	43.2 x 12.7 x 25.1	D15-4TC2P-PCONM	£139	€160

No. per pack	Pin type	Description	Part code	Price £	Price €
5 Sockets Per Pack	Female	TC Socket Alumel®	DTC-5-ASKT	£54	€63
5 Sockets Per Pack	Female Sleeved	TC Socket Alumel®	DTC-5-ASKT-SL	£63	€73
5 Sockets Per Pack	Female	TC Socket Chromel®	DTC-5-CSKT	£54	€63
5 Sockets Per Pack	Female Sleeved	TC Socket Chromel®	DTC-5-CSKT-SL	£63	€73
5 Pins Per Pack	Male	TC Pin Alumel®	DTC-5-APIN	£54	€63
5 Pins Per Pack	Male	TC Pin Chromel®	DTC-5-CPIN	£54	€63
5 Sockets Per Pack	Female	Power Socket	DP-5-PSKT	£37	€43
5 Pins Per Pack	Male	Power Pin	DP-5-PPIN	£37	€43
Crimp tool for D / C pins UHV (TC pins / skts)			DCT1	£760	€874
Crimp tool for power pins / sockets			DCT3	£718	€826
Extraction tool for coax & power pins			CX-EXT	£116	€134

Strain Relief

Description	Part Code	Price £	Price €
PEEK strain relief for 8TC connector with ceramic insulators on wire	D9-8TC-PSR	£82	€95
PEEK strain relief for 4TC 2 power connector with ceramic insulators on wire	D9-4TC2P-PSR	£87	€101

Air Cables



No. of TC Pairs.	TC Type	No. Power Leads	Cable Length mm	Connector Type	Connector Dimensions W x H x D	Part Code	Price £	Price €
4	K	-	2400	Female	35.6 x 19.1 x 64.0	D9-8TC-A2400	£262	€302
2	K	2	2400	Female	43.7 x 19.1 x 63.8	D15-4TC2P-A2400	£238	€274

Air Connectors & Contacts



No. of TC Pairs.	No. Power Leads	Connector Type	Connector Dimensions W x H x D	Part Code	Price £	Price €
4	-	Female	35.6 x 19.1 x 64.0	D9-8TC-ACONF	£105	€121
2	2	Female	43.7 x 19.1 x 63.8	D15-4TC2P-ACONF	£114	€132

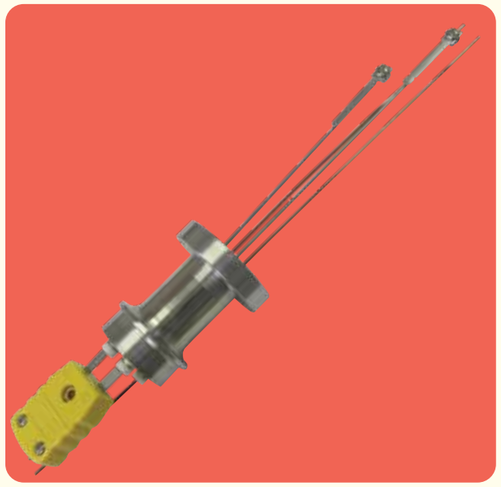
No. per pack	Pin type	Description	Part code	Price £	Price €
5 Sockets Per Pack	Female	TC Socket Alumel®	DTC-5-ASKT	£54	€63
5 Sockets Per Pack	Female	TC Socket Chromel®	DTC-5-CSKT	£54	€63
5 Pins Per Pack	Male	TC Pin Alumel®	DTC-5-APIN	£54	€63
5 Pins Per Pack	Male	TC Pin Chromel®	DTC-5-CPIN	£54	€63
5 Sockets Per Pack	Female	Power Socket	DP-5-PSKT	£37	€43
5 Pins Per Pack	Male	Power Pin	DP-5-PPIN	£37	€43
Crimp tool for D / C pins UHV (TC pins / skts)			DCT1	£760	€874
Crimp tool for D type power pins			DCT3	£718	€826

Connectors

Description	Part Code	Price £	Price €
Mini female TC connector	Add-ASMFTC	£8	€10
Mini fale TC connector	Add-ASMMTC	£8	€10

All dimensions are nominal in millimetres unless otherwise specified

1 Thermocouple Pair, Miniature Connector / 1 Power Pair, 1,000 Volts



Specifications:

Voltage[1] (TC / Power)	Millivolts / 1kV
Current[1] (TC / Power)	Milliamps / see table
Material	
Flanges / Shell	St.St.
TC Pins	See table on page 1:147
Power pins	See table
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

Features:

- Compatible with industry standard miniature push-on thermocouple connectors.
- Type C, E, J & K as standard.
- Thermocouple air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

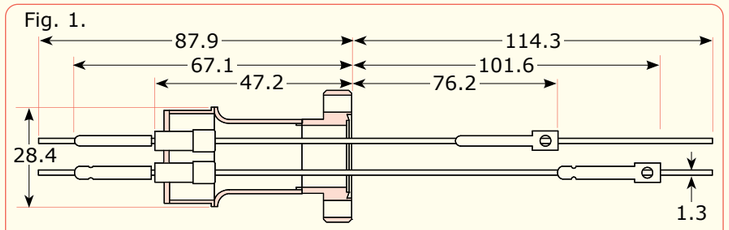


Fig. 2.

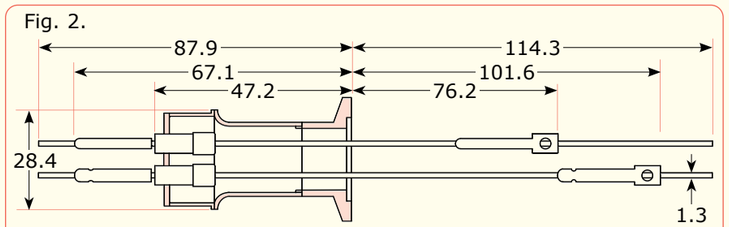
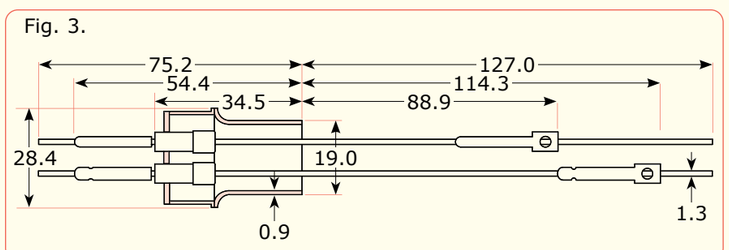


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Flange	Part Code	Price £	Price €
1	K	1	2	5	Ni	DN16CF	FHTCK-1-5N-16CF	£195	€225
1	C	1	2	5	Ni	DN16CF	FHTCC-1-5N-16CF	£195	€225
1	E	1	2	5	Ni	DN16CF	FHTCE-1-5N-16CF	£195	€225
1	J	1	2	5	Ni	DN16CF	FHTCJ-1-5N-16CF	£195	€225
1	K	1	2	25	Cu	DN16CF	FHTCK-1-25C-16CF	£201	€232
1	C	1	2	25	Cu	DN16CF	FHTCC-1-25C-16CF	£201	€232
1	E	1	2	25	Cu	DN16CF	FHTCE-1-25C-16CF	£201	€232
1	J	1	2	25	Cu	DN16CF	FHTCJ-1-25C-16CF	£201	€232
1	K	1	2	5	Ni	DN40CF	FHTCK-1-5N-40CF	£210	€242
1	C	1	2	5	Ni	DN40CF	FHTCC-1-5N-40CF	£210	€242
1	E	1	2	5	Ni	DN40CF	FHTCE-1-5N-40CF	£210	€242
1	J	1	2	5	Ni	DN40CF	FHTCJ-1-5N-40CF	£210	€242
1	K	1	2	25	Cu	DN40CF	FHTCK-1-25C-40CF	£215	€248
1	C	1	2	25	Cu	DN40CF	FHTCC-1-25C-40CF	£215	€248
1	E	1	2	25	Cu	DN40CF	FHTCE-1-25C-40CF	£215	€248
1	J	1	2	25	Cu	DN40CF	FHTCJ-1-25C-40CF	£215	€248

KF Flange Mounted



No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Flange	Part Code	Price £	Price €
1	K	2	2	5	Ni	DN16KF	FHTCK-1-5N-16KF	£201	€232
1	C	2	2	5	Ni	DN16KF	FHTCC-1-5N-16KF	£201	€232
1	E	2	2	5	Ni	DN16KF	FHTCE-1-5N-16KF	£201	€232
1	J	2	2	5	Ni	DN16KF	FHTCJ-1-5N-16KF	£201	€232
1	K	2	2	25	Cu	DN16KF	FHTCK-1-25C-16KF	£205	€236
1	C	2	2	25	Cu	DN16KF	FHTCC-1-25C-16KF	£205	€236
1	E	2	2	25	Cu	DN16KF	FHTCE-1-25C-16KF	£205	€236
1	J	2	2	25	Cu	DN16KF	FHTCJ-1-25C-16KF	£205	€236

Weldable



No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Part Code	Price £	Price €
1	K	3	2	5	Ni	FHTCK-1-5N-W	£167	€193
1	C	3	2	5	Ni	FHTCC-1-5N-W	£167	€193
1	E	3	2	5	Ni	FHTCE-1-5N-W	£167	€193
1	J	3	2	5	Ni	FHTCJ-1-5N-W	£167	€193
1	K	3	2	25	Cu	FHTCK-1-25C-W	£167	€193
1	C	3	2	25	Cu	FHTCC-1-25C-W	£167	€193
1	E	3	2	25	Cu	FHTCE-1-25C-W	£167	€193
1	J	3	2	25	Cu	FHTCJ-1-25C-W	£167	€193

Accessories



Description	Part Code	Price £	Price €
Power push-on connector BeCu 1.3mm 150°C air 200°C vacuum 10/PK	FHP-BECU-1.3-CON	£39	€45
Power in-line connector BeCu 1.5mm 150°C air 400°C vacuum 10/PK	FHP-BECU-1.5IL-CON	£42	€49
Alumina ceramic beads 1.3mm ID 2.79mm long ~ 107/PK	CB-AL1.3	£35	€41

Additional air side connectors available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

1 Thermocouple Pair, Miniature Connector / 1 Power Pair, 5,000 Volts



Specifications:

Voltage[1] (TC / Power)	Millivolts / 5kV
Current[1] (TC / Power)	Milliamps / see table
Material	
Flanges / Shell	St.St.
TC Pins	See table on page 1:147
Power pins	See table
Insulation	Alumina ceramic
Temperature Range[2]	
CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

Features:

- Compatible with industry standard miniature push-on thermocouple connectors.
- Type C, E, J & K as standard.
- Thermocouple air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

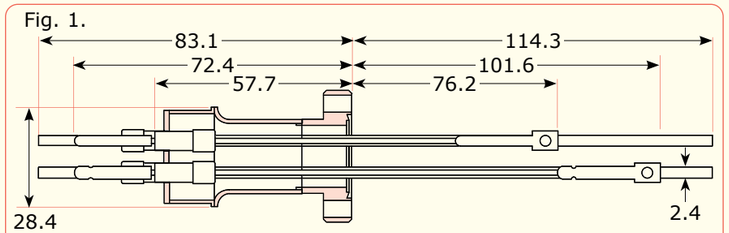


Fig. 2.

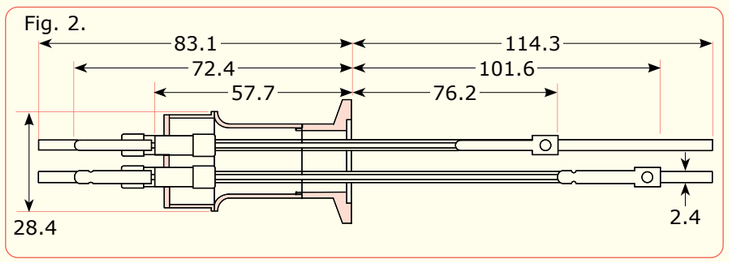
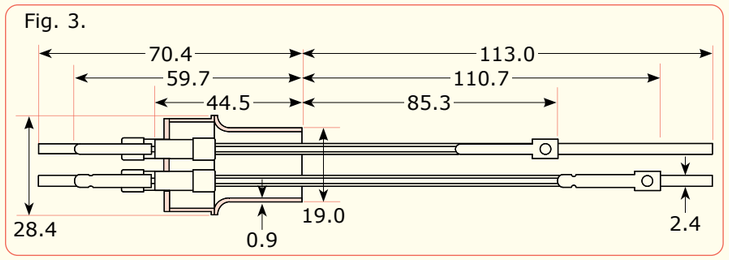


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



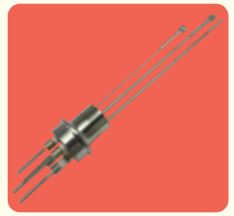
No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Flange	Part Code	Price £	Price €
1	K	1	2	15	Nickel	DN16CF	FHTCK-5-15N-16CF	£220	€253
1	C	1	2	15	Nickel	DN16CF	FHTCC-5-15N-16CF	£220	€253
1	E	1	2	15	Nickel	DN16CF	FHTCE-5-15N-16CF	£220	€253
1	J	1	2	15	Nickel	DN16CF	FHTCJ-5-15N-16CF	£220	€253
1	K	1	2	50	Copper	DN16CF	FHTCK-5-50C-16CF	£225	€259
1	C	1	2	50	Copper	DN16CF	FHTCC-5-50C-16CF	£225	€259
1	E	1	2	50	Copper	DN16CF	FHTCE-5-50C-16CF	£225	€259
1	J	1	2	50	Copper	DN16CF	FHTCJ-5-50C-16CF	£225	€259
1	K	1	2	15	Nickel	DN40CF	FHTCK-5-15N-40CF	£249	€287
1	C	1	2	15	Nickel	DN40CF	FHTCC-5-15N-40CF	£249	€287
1	E	1	2	15	Nickel	DN40CF	FHTCE-5-15N-40CF	£249	€287
1	J	1	2	15	Nickel	DN40CF	FHTCJ-5-15N-40CF	£249	€287
1	K	1	2	50	Copper	DN40CF	FHTCK-5-50C-40CF	£259	€298
1	C	1	2	50	Copper	DN40CF	FHTCC-5-50C-40CF	£259	€298
1	E	1	2	50	Copper	DN40CF	FHTCE-5-50C-40CF	£259	€298
1	J	1	2	50	Copper	DN40CF	FHTCJ-5-50C-40CF	£259	€298

KF Flange Mounted



No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Flange	Part Code	Price £	Price €
1	K	2	2	15	Nickel	DN16KF	FHTCK-5-15N-16KF	£220	€253
1	C	2	2	15	Nickel	DN16KF	FHTCC-5-15N-16KF	£220	€253
1	E	2	2	15	Nickel	DN16KF	FHTCE-5-15N-16KF	£220	€253
1	J	2	2	15	Nickel	DN16KF	FHTCJ-5-15N-16KF	£220	€253
1	K	2	2	50	Copper	DN16KF	FHTCK-5-50C-16KF	£225	€259
1	C	2	2	50	Copper	DN16KF	FHTCC-5-50C-16KF	£225	€259
1	E	2	2	50	Copper	DN16KF	FHTCE-5-50C-16KF	£225	€259
1	J	2	2	50	Copper	DN16KF	FHTCJ-5-50C-16KF	£225	€259

Weldable



No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Part Code	Price £	Price €
1	K	3	2	15	Nickel	FHTCK-5-15N-W	£191	€220
1	C	3	2	15	Nickel	FHTCC-5-15N-W	£191	€220
1	E	3	2	15	Nickel	FHTCE-5-15N-W	£191	€220
1	J	3	2	15	Nickel	FHTCJ-5-15N-W	£191	€220
1	K	3	2	50	Copper	FHTCK-5-50C-W	£191	€220
1	C	3	2	50	Copper	FHTCC-5-50C-W	£191	€220
1	E	3	2	50	Copper	FHTCE-5-50C-W	£191	€220
1	J	3	2	50	Copper	FHTCJ-5-50C-W	£191	€220

Accessories



Description	Part Code	Price £	Price €
Power push-on connector BeCu 2.4mm 150°C air 200°C vacuum 10/pk	FHP-BECU-2.4-CON	£39	€45
Power in-line connector BeCu 3.0mm 150°C air 400°C vacuum 10/pk	FHP-BECU-3IL-CON	£42	€49
Alumina ceramic beads 2.7mm ID 6.60mm long ~ 45/PK	CB-AL2.7	£35	€41

Additional air side connectors available, please contact sales office for details.

All dimensions are nominal in millimetres unless otherwise specified

1 & 2 Thermocouple Pair, Miniature Connector / 2 - 3 Power Pins, 5,000 Volts



Specifications:

Voltage[1] (TC / Power)	Millivolts / 5kV
Current[1] (TC / Power)	Milliamps / see table

Material

Flanges / Shell	St.St.
TC Pins	See table on page 1:147
Power pins	Copper
Insulation	Alumina ceramic

Temperature Range[2]

CF flanged feedthrough	-100°C to 450°C
KF flanged feedthrough	-20°C to 150°C
Weldable feedthrough	-100°C to 450°C
Air side connector	-65°C to 125°C

[1] - Please see section introduction for safety information.
[2] - Assembly rating is reduced to that of the lowest rated component.

Features:

- Compatible with industry standard miniature push-on thermocouple connectors.
- Type C, E, J & K as standard.
- Thermocouple air & vacuum side connectors included.
- Custom versions available on request.

Fig. 1.

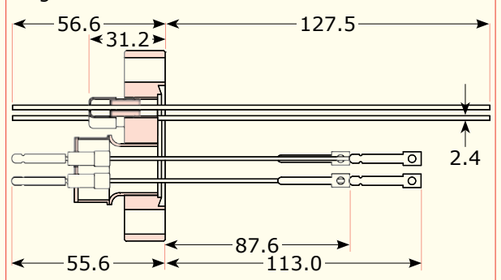


Fig. 2.

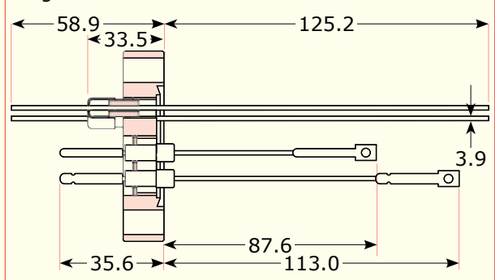
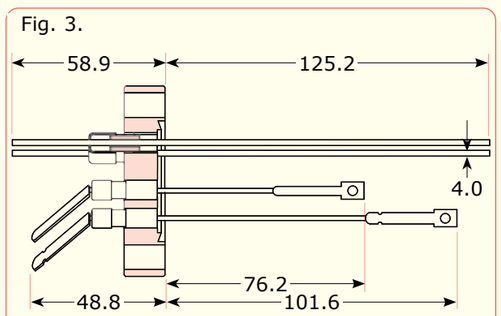
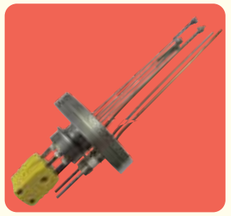


Fig. 3.



All dimensions are nominal in millimetres unless otherwise specified

CF Flange Mounted



No. of TC Pairs	TC Type	Fig.	No. Power Pins	Current A	Conductor Material (Power)	Flange	Part Code	Price £	Price €
2	K	1	3	50	Cu	DN40CF	FHTCK-2-5-50C3-40CF	£415	€478
2	C	1	3	50	Cu	DN40CF	FHTCC-2-5-50C3-40CF	£415	€478
2	E	1	3	50	Cu	DN40CF	FHTCE-2-5-50C3-40CF	£415	€478
2	J	1	3	50	Cu	DN40CF	FHTCJ-2-5-50C3-40CF	£415	€478
1	K	2	3	60	Cu	DN40CF	FHTCK-5-60C3-40CF	£396	€456
1	C	2	3	60	Cu	DN40CF	FHTCC-5-60C3-40CF	£396	€456
1	E	2	3	60	Cu	DN40CF	FHTCE-5-60C3-40CF	£396	€456
1	J	2	3	60	Cu	DN40CF	FHTCJ-5-60C3-40CF	£396	€456
2	K	3	3	60	Cu	DN40CF	FHTCK-2-5-60C3-40CF	£435	€501
2	C	3	3	60	Cu	DN40CF	FHTCC-2-5-60C3-40CF	£435	€501
2	E	3	3	60	Cu	DN40CF	FHTCE-2-5-60C3-40CF	£435	€501
2	J	3	3	60	Cu	DN40CF	FHTCJ-2-5-60C3-40CF	£435	€501
1	K	4	2	150	Cu	DN40CF	FHTCK-5-150C2-40CF	£390	€449
1	C	4	2	150	Cu	DN40CF	FHTCC-5-150C2-40CF	£390	€449
1	E	4	2	150	Cu	DN40CF	FHTCE-5-150C2-40CF	£390	€449
1	J	4	2	150	Cu	DN40CF	FHTCJ-5-150C2-40CF	£390	€449
2	K	5	2	150	Cu	DN40CF	FHTCK-2-5-150C2-40CF	£429	€494
2	C	5	2	150	Cu	DN40CF	FHTCC-2-5-150C2-40CF	£429	€494
2	E	5	2	150	Cu	DN40CF	FHTCE-2-5-150C2-40CF	£429	€494
2	J	5	2	150	Cu	DN40CF	FHTCJ-2-5-150C2-40CF	£429	€494

Accessories



Description	Part Code	Price £	Price €
Power push-on connector BeCu 2.4mm 150°C air 200°C vacuum 10/pk	FHP-BECU-2.4-CON	£39	€45
Power push-on connector BeCu 6.4mm 150°C air 200°C vacuum 2/pk	FHP-BECU-6.4-CON	£48	€56
Power in-line connector BeCu 3.0mm 150°C air 400°C vacuum 10/pk	FHP-BECU-3IL-CON	£42	€49
Power in-line connector BeCu 6.6mm 150°C air 400°C vacuum 10/pk	FHP-BECU-6.6IL-CON	£1117	€1285

Additional air side connectors available, please contact sales office for details.

Fig. 4.

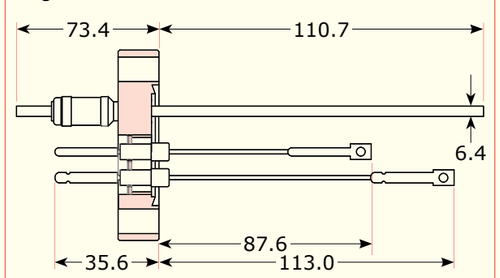
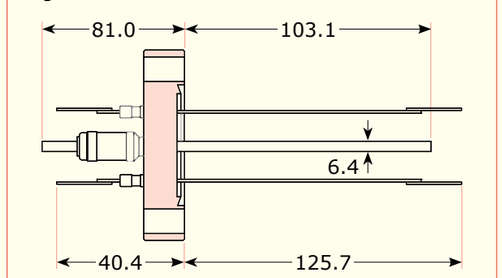


Fig. 5.



All dimensions are nominal in millimetres unless otherwise specified

All dimensions are nominal in millimetres unless otherwise specified

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