

Features

- UHV compatible construction
- Available on CF / KF and Weldable configuration
- Including Air side connector
- TC types K, C, E, J as standard, others on request
- Custom configuration available on request
- Combined TC feedthroughs with Power Pins (PW) possible
- Different connections possible on air and vacuum side



Specification:

Voltage	TC: Milli Volts only PW: up to 5000V@DC
Current	TC: Milli Amp only PW: up to 60A
Temperature range	
CF mounted FT	450 °C
KF mounted FT	150 °C
Weldable	450 °C
Air side connector	125 °C

Type	Thermocouple Material	Polarity	Temperature °C
K	Chromel / Alumel	+ / -	-200 to 1250
C	W 5%Re / W26%Re	+ / -	0 to 2320
E	Chromel / Constantan	+ / -	-200 to 900
J	Iron / Constantan	+ / -	0 to 750
T	Copper / Constantan	+ / -	-200 to 350
N	Ni-Cr-Si / Ni-Si-Mg	+ / -	-270 to 1300
R	Pt 13%Rh / Pt	+ / -	0 to 1450
S	Pt 10%Rh / Pt	+ / -	0 to 1450

TC only 1 to 3 pairs connection fitted

Description	Part Number
TC FT 1 PAIR TYPE C WELD W/AIR CON	1-TC-8030
TC FT 1 PAIR TYPE E WELD W/AIR CON	1-TC-9030
TC FT 1 PAIR TYPE J WELD W/AIR CON	1-TC-0130
TC FT 1 PAIR TYPE K WELD W/AIR CON	1-TC-1130
TC FT 2 PAIR TYPE C WELD W/AIR CON	1-TC-0230
TC FT 2 PAIR TYPE E WELD W/AIR CON	1-TC-1230
TC FT 2 PAIR TYPE J WELD W/AIR CON	1-TC-2230
TC FT 2 PAIR TYPE K WELD W/AIR CON	1-TC-3230
TC FT 3 PAIR TYPE C WELD W/AIR CON	1-TC-2330
TC FT 3 PAIR TYPE E WELD W/AIR CON	1-TC-3330
TC FT 3 PAIR TYPE J WELD W/AIR CON	1-TC-4330
TC FT 3 PAIR TYPE K WELD W/AIR CON	1-TC-5330
TC FT 1 PAIR TYPE C CF16 W/AIR CON	1-TC-0030
TC FT 1 PAIR TYPE E CF16 W/AIR CON	1-TC-1030
TC FT 1 PAIR TYPE J CF16 W/AIR CON	1-TC-2030
TC FT 1 PAIR TYPE K CF16 W/AIR CON	1-TC-3030
TC FT 2 PAIR TYPE C CF16 W/AIR CON	1-TC-2130
TC FT 2 PAIR TYPE E CF16 W/AIR CON	1-TC-3130
TC FT 2 PAIR TYPE J CF16 W/AIR CON	1-TC-4130
TC FT 2 PAIR TYPE K CF16 W/AIR CON	1-TC-5130
TC FT 3 PAIR TYPE C CF16 W/AIR CON	1-TC-4230
TC FT 3 PAIR TYPE E CF16 W/AIR CON	1-TC-5230
TC FT 3 PAIR TYPE J CF16 W/AIR CON	1-TC-6230
TC FT 3 PAIR TYPE K CF16 W/AIR CON	1-TC-7230
TC FT 1 PAIR TYPE C KF16 W/AIR CON	1-TC-4030
TC FT 1 PAIR TYPE E KF16 W/AIR CON	1-TC-5030
TC FT 1 PAIR TYPE J KF16 W/AIR CON	1-TC-6030
TC FT 1 PAIR TYPE K KF16 W/AIR CON	1-TC-7030
TC FT 2 PAIR TYPE C KF16 W/AIR CON	1-TC-6130
TC FT 2 PAIR TYPE E KF16 W/AIR CON	1-TC-7130
TC FT 2 PAIR TYPE J KF16 W/AIR CON	1-TC-8130
TC FT 2 PAIR TYPE K KF16 W/AIR CON	1-TC-9130
TC FT 3 PAIR TYPE C KF16 W/AIR CON	1-TC-8230
TC FT 3 PAIR TYPE E KF16 W/AIR CON	1-TC-9230
TC FT 3 PAIR TYPE J KF16 W/AIR CON	1-TC-0330
TC FT 3 PAIR TYPE K KF16 W/AIR CON	1-TC-1330

TC only 4 to 5 pairs connection fitted

Description	Part Number
TC FT 4 PAIR TYPE C WELD W/AIR CON	1-TC-4430
TC FT 4 PAIR TYPE E WELD W/AIR CON	1-TC-5430
TC FT 4 PAIR TYPE J WELD W/AIR CON	1-TC-6430
TC FT 4 PAIR TYPE K WELD W/AIR CON	1-TC-7430
TC FT 5 PAIR TYPE C WELD W/AIR CON	1-TC-6530
TC FT 5 PAIR TYPE E WELD W/AIR CON	1-TC-7530
TC FT 5 PAIR TYPE J WELD W/AIR CON	1-TC-8530
TC FT 5 PAIR TYPE K WELD W/AIR CON	1-TC-9530
TC FT 4 PAIR TYPE C CF40 W/AIR CON	1-TC-6330
TC FT 4 PAIR TYPE E CF40 W/AIR CON	1-TC-7330
TC FT 4 PAIR TYPE J CF40 W/AIR CON	1-TC-8330
TC FT 4 PAIR TYPE K CF40 W/AIR CON	1-TC-9330
TC FT 5 PAIR TYPE C CF40 W/AIR CON	1-TC-8430
TC FT 5 PAIR TYPE E CF40 W/AIR CON	1-TC-9430
TC FT 5 PAIR TYPE J CF40 W/AIR CON	1-TC-0530
TC FT 5 PAIR TYPE K CF40 W/AIR CON	1-TC-1530
TC FT 4 PAIR TYPE C KF40 W/AIR CON	1-TC-0430
TC FT 4 PAIR TYPE E KF40 W/AIR CON	1-TC-1430
TC FT 4 PAIR TYPE J KF40 W/AIR CON	1-TC-2430
TC FT 4 PAIR TYPE K KF40 W/AIR CON	1-TC-3430
TC FT 5 PAIR TYPE C KF40 W/AIR CON	1-TC-2530
TC FT 5 PAIR TYPE E KF40 W/AIR CON	1-TC-3530
TC FT 5 PAIR TYPE J KF40 W/AIR CON	1-TC-4530
TC FT 5 PAIR TYPE K KF40 W/AIR CON	1-TC-5530

Thermocouple Feedthroughs

TC only 1 to 3 pairs screw type connection

Description	Part Number
TC FT 1PAIR TYPE R&S WELD W/AIR CON	1-TC-2630
TC FT 1PAIR TYPE T WELD W/AIR CON	1-TC-8240
TC FT 2PAIR TYPE R&S WELD W/AIR CON	1-TC-7630
TC FT 2PAIR TYPE T WELD W/AIR CON	1-TC-8630
TC FT 3PAIR TYPE R&S WELD W/AIR CON	1-TC-1730
TC FT 3PAIR TYPE T WELD W/AIR CON	1-TC-2730
TC FT 1PAIR TYPE R&S CF16 W/AIR CON	1-TC-0630
TC FT 1PAIR TYPE T CF16 W/AIR CON	1-TC-1630
TC FT 2PAIR TYPE R&S CF16 W/AIR CON	1-TC-3630
TC FT 2PAIR TYPE T CF16 W/AIR CON	1-TC-4630
TC FT 3PAIR TYPE R&S CF16 W/AIR CON	1-TC-9630
TC FT 3PAIR TYPE T CF16 W/AIR CON	1-TC-0730
TC FT 1PAIR TYPE R&S KF16 W/AIR CON	1-TC-0340
TC FT 1PAIR TYPE T KF16 W/AIR-VAC CONN	1-TC-6240
TC FT 2PAIR TYPE R&S KF16 W/AIR CON	1-TC-5630
TC FT 2PAIR TYPE T KF16 W/AIR CON	1-TC-6630
TC FT 3PAIR TYPE R&S KF16 W/AIR CON	1-TC-9240
TC FT 3PAIR TYPE T KF16 W/AIR CON	1-TC-0340

TC only 4 to 5 pairs screw type connection

Description	Part Number
TC FT 4PAIR TYPE R&S WELD W/AIR CON	1-TC-7730
TC FT 4PAIR TYPE T WELD W/AIR CON	1-TC-8730
TC FT 5PAIR TYPE R&S WELD W/AIR CON	1-TC-3830
TC FT 5PAIR TYPE T WELD W/AIR CON	1-TC-4830
TC FT 4PAIR TYPE R&S CF40 W/AIR CON	1-TC-3730
TC FT 4PAIR TYPE T CF40 W/AIR CON	1-TC-4730
TC FT 5PAIR TYPE R&S CF40 W/AIR CON	1-TC-9730
TC FT 5PAIR TYPE T CF40 W/AIR CON	1-TC-0830
TC FT 4PAIR TYPE R&S KF40 W/AIR CON	1-TC-5730
TC FT 4PAIR TYPE T KF40 W/AIR CON	1-TC-6730
TC FT 5PAIR TYPE R&S KF40 W/AIR CON	1-TC-1830
TC FT 5PAIR TYPE T KF40 W/AIR CON	1-TC-2830

TC 2 to 10 pairs MS connector

Description	Part Number
TC FT MS CON 2PAIR K WELD W/AIR CON	1-TC-7930
TC FT MS CON 3PAIR K WELD W/AIR CON	1-TC-8930
TC FT MS CON 5PAIR K WELD W/AIR CON	1-TC-9930
TC FT MS CON 10PAIR K WELD W/AIR CON	1-TC-0040
TC FT MS CON 2PAIR K CF16 W/AIR CON	1-TC-5830
TC FT MS CON 2PAIR K CF40 W/AIR CON	1-TC-6830
TC FT MS CON 3PAIR K CF16 W/AIR CON	1-TC-7830
TC FT MS CON 3PAIR K CF40 W/AIR CON	1-TC-8830
TC FT MS CON 5PAIR K CF16 W/AIR CON	1-TC-9830
TC FT MS CON 5PAIR K CF40 W/AIR CON	1-TC-0930
TC FT MS CON 10PAIR K CF40 W/AIR CON	1-TC-1930
TC FT MS CON 2PAIR K KF16 W/AIR CON	1-TC-2930
TC FT MS CON 2PAIR K KF40 W/AIR CON	1-TC-3930
TC FT MS CON 3PAIR K KF16 W/AIR CON	1-TC-4930
TC FT MS CON 5PAIR K KF40 W/AIR CON	1-TC-5930
TC FT MS CON 10PAIR K KF40 W/AIR CON	1-TC-6930

Thermocouple Feedthroughs

1.3

1.3 thermocouple feedthroughs

TC only 2 to 5 pairs push-on connector

Description	Part Number
TC FT TC-PW 1PAIR K 5AMP N WELD W/AIR CON	1-TC-4140
TC FT TC-PW 1PAIR K 15AMP C WELD W/AIR CON	1-TC-5140
TC FT TC-PW 1PAIR K 15AMP N WELD W/AIR CON	1-TC-0240
TC FT TC-PW 1PAIR K 30AMP C WELD W/AIR CON	1-TC-1240
TC FT TC-PW 1PAIR K 5AMP N CF16 W/AIR CON	1-TC-0140
TC FT TC-PW 1PAIR K 15AMP C CF16 W/AIR CON	1-TC-1140
TC FT TC-PW 1PAIR K 15AMP N CF16 W/AIR CON	1-TC-6140
TC FT TC-PW 1PAIR C 30AMP C CF16 W/AIR CON	1-TC-5240
TC FT TC-PW 1PAIR K 30AMP C CF16 W/AIR CON	1-TC-7140
TC FT TC-PW 1PAIR K 5AMP N KF16 W/AIR CON	1-TC-2140
TC FT TC-PW 1PAIR K 15AMP C KF16 W/AIR CON	1-TC-3140
TC FT TC-PW 1PAIR K 15AMP N KF16 W/AIR CON	1-TC-8140
TC FT TC-PW 1PAIR K 30AMP C KF16 W/AIR CON	1-TC-9140

TC Power 1 TC pair & 1 PW pair TC connector

Description	Part Number
TC FT PUSH-ON 2PAIR K WELD	1-TC-7040
TC FT PUSH-ON 3PAIR K WELD	1-TC-8040
TC FT PUSH-ON 5PAIR K WELD	1-TC-9040
TC FT PUSH-ON 2PAIR K CF16	1-TC-1040
TC FT PUSH-ON 3PAIR K CF16	1-TC-2040
TC FT PUSH-ON 5PAIR K CF16	1-TC-3040
TC FT PUSH-ON 2PAIR K KF16	1-TC-4040
TC FT PUSH-ON 3PAIR K KF16	1-TC-5040
TC FT PUSH-ON 5PAIR K KF16	1-TC-6040

TC Power 1&2 TC pair & 3 PW pair TC connector

Description	Part Number
TC FT TC-PW 2PAIR K 30AMP C CF40 W/AIR CON	1-TC-2240
TC FT TC-PW 2PAIR C 60AMP C CF40 W/AIR CON	1-TC-7240
TC FT TC-PW 2PAIR K 60AMP C CF40 W/AIR CON	1-TC-4240

TC Power 1&2 TC pair & 1 PW pair TC connector

Description	Part Number
TC FT TC-PW 1PAIR C 150AMP 5KV Cu CF40 W/AIR CON	1-TC-1340
TC FT TC-PW 1PAIR E 150AMP 5KV Cu CF40 W/AIR CON	1-TC-2340
TC FT TC-PW 1PAIR J 150AMP 5KV Cu CF40 W/AIR CON	1-TC-3340
TC FT TC-PW 1PAIR K 150AMP 5KV Cu CF40 W/AIR CON	1-TC-4340
TC FT TC-PW 2PAIR C 150AMP 5KV Cu CF40 W/AIR CON	1-TC-5340
TC FT TC-PW 2PAIR E 150AMP 5KV Cu CF40 W/AIR CON	1-TC-6340
TC FT TC-PW 2PAIR J 150AMP 5KV Cu CF40 W/AIR CON	1-TC-7340
TC FT TC-PW 2PAIR K 150AMP 5KV Cu CF40 W/AIR CON	1-TC-8340