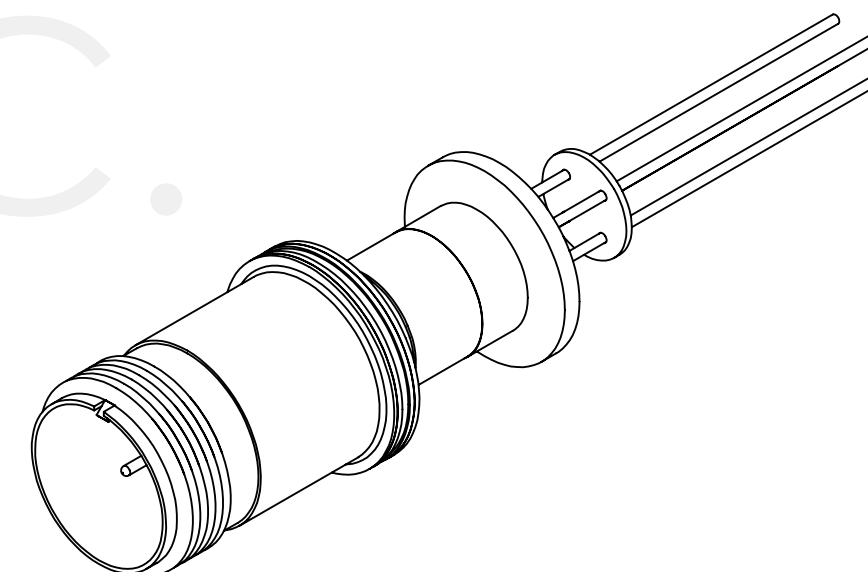
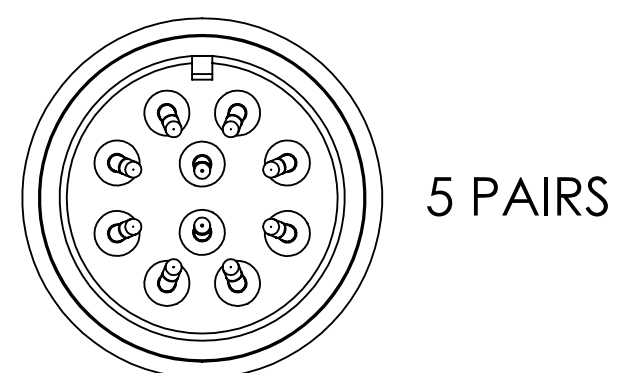
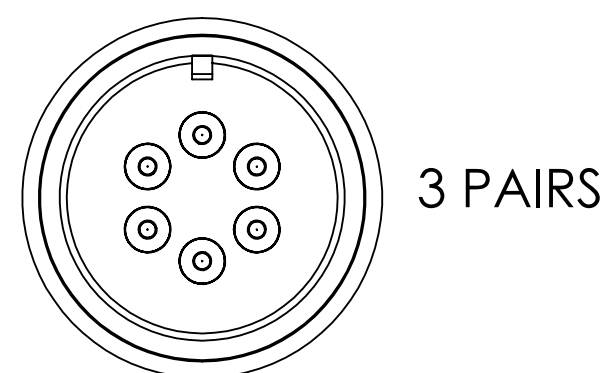
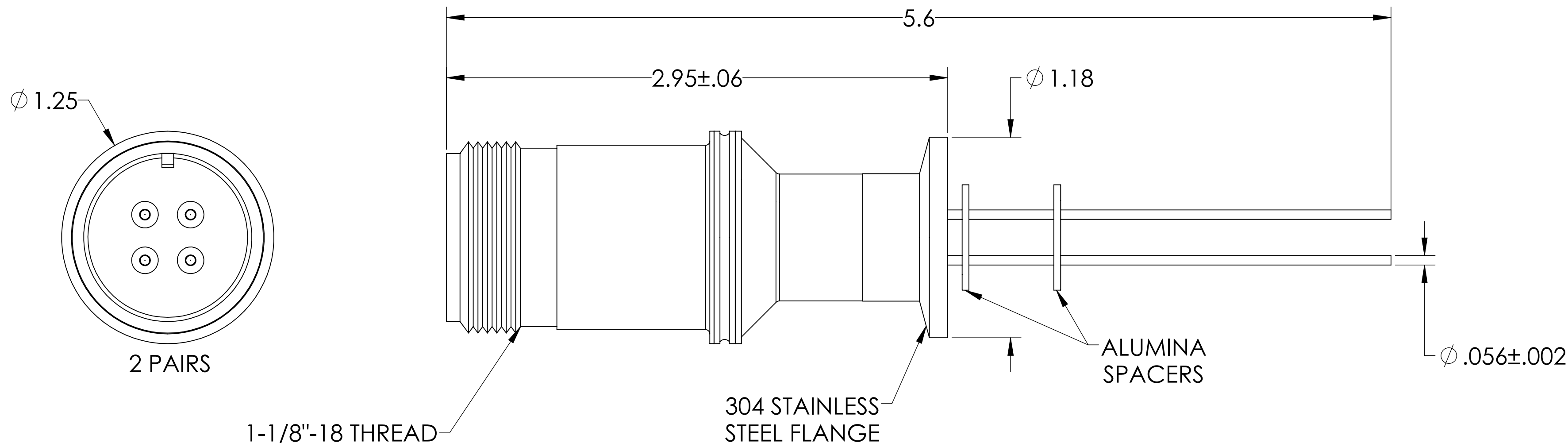


# MPF PRODUCTS INC.

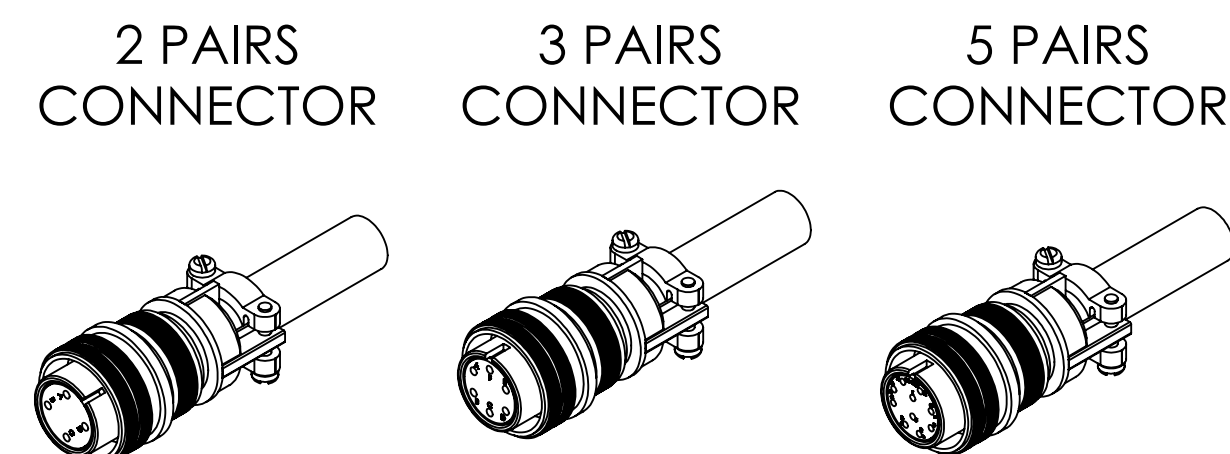


**NOTES:**

- \* TYPE K:  
ALUMEL CONDUCTORS HAVE A NEGATIVE POLARITY ( MAGNETIC ) AND THE VACUUM SIDE ENDS ARE FLAT.  
CHROMEL CONDUCTORS HAVE A POSITIVE POLARITY ( NON - MAGNETIC ) AND THE VACUUM SIDE ENDS HAVE A RADIUS.
- \* TYPE J:  
CONSTANTAN CONDUCTORS HAVE A NEGATIVE POLARITY ( NON - MAGNETIC ) AND THE VACUUM SIDE ENDS ARE FLAT.  
IRON CONDUCTORS HAVE A POSITIVE POLARITY ( MAGNETIC ) AND THE VACUUM SIDE ENDS HAVE A RADIUS.
- \* TYPE E:  
CONSTANTAN CONDUCTORS HAVE A NEGATIVE POLARITY ( NON - MAGNETIC ) AND THE VACUUM SIDE ENDS ARE FLAT.  
CHROMEL CONDUCTORS HAVE A POSITIVE POLARITY ( NON - MAGNETIC ) AND THE VACUUM SIDE ENDS HAVE A RADIUS.



PART #	T/C TYPE	# OF PAIRS
A0197-1-QF	K	2
A0197-2-QF	J	2
A0197-3-QF	E	2
A0197-5-QF	K	3
A0197-6-QF	J	3
A0197-7-QF	E	3
A0197-9-QF	K	5
A0197-10-QF	J	5
A0197-11-QF	E	5



**SPECIFICATIONS:**

1. TEMPERATURE RATING: -100 TO 450°C
2. LEAK RATE < 1X10-9 ATM CC/SEC HE

MS Series, Thermocouple Feedthrough, w/Air-side Connector, 1.18" QF/KF

UNLESS OTHERWISE SPECIFIED:		QUOTATION #		N/A	
DIMENSIONS ARE IN INCHES TOLERANCES:		NAME	DATE	MPF PRODUCTS INC.	
ANGULAR: MACH ± 1/2°		DRAWN	9/11/2015		
TWO PLACE DECIMAL ± .030		CHECKED	9/11/2015		
THREE PLACE DECIMAL ± .015		ENG APPR.	9/11/2015		
MATERIAL		THIRD ANGLE:		THERMOCOUPLE, MS CONNECTOR, 1.18" QF/KF	
FINISH		APPLICATION			
PLATING		NEXT ASSY USED ON			
SURFACE FINISH: 63 OR BETTER		UNLESS OTHERWISE SPECIFIED:		DOWNLOADED FROM MPFPI.COM	
ALL DIAMETERS CONCENTRIC WITHIN .005. REMOVE ALL BURRS AND SHARP EDGES		DWG. NO.		REV	
		A0197		Friday, February 8, 2019 8:58:11 AM	