

Connector	Rack Loc.	Device/Sensor Name	Device/Sensor Type	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, 1A-01	FL03B25	(Piezo Actuator) FastTuner-1-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-1-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-1-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-1-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-1	Piezo Fast Tuner, Interlock			J-K & L-M
CM 1, 1A-02	FL03B25	RTD StepperMotor-1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD MainCoupler1a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD MainCoupler1b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 1A-03	FL02B27	RTD HeVessel-1 Top	Cernox CX-1030-SD-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD HeVessel-1 Bottom	Cernox CX-1030-SD-HT-1.4L			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD HOM Coupler Side-1-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD HOM Tuner Side-1-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 1B-01	FL03B25	(Stepper Motor) SlowTuner-1	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-1-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-1-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 1B-02	FL03B25	C1 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 1B-03	FL03B24	C1 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 1B-04	FL03B24	C1 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 1B-05	FL03B25	Cav 1 e-Cy (EPickup Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 1B-06	FL03B25	Cav 1 e-WG (EPickup Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 1B-07	FL02B27	StrpHtr-HeVessel-1	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 1, Cav 1-F	FL03B25	Cavity 1 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 1-R	FL03B25	Cavity 1 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector		Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, 2A-01	FL03B25	(Piezo Actuator) FastTuner-2-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-2-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-2-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-2-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-2	Piezo Fast Tuner, Interlock			L,M
CM 1, 2A-02	FL03B25	RTD StepperMotor-2	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD MainCoupler2a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD MainCoupler2b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 2A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD HOM Coupler Side-2-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD HOM Tuner Side-2-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 2B-01	FL03B25	(Stepper Motor) SlowTuner-2	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-2-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-2-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 2B-02	FL03B25	C2 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 2B-03	FL03B24	C2 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 2B-04	FL03B24	C2 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 2B-05	FL03B25	Cav 2 e-Cy (EPickup Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 2B-06	FL03B25	Cav 2 e-WG (EPickup Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 2B-07	FL02B27	StrpHtr-HeVessel-2	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 1, Cav 2-F	FL03B25	Cavity 2 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 2-R	FL03B25	Cavity 2 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector		Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, 3A-01	FL03B25	(Piezo Actuator) FastTuner-3-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-3-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-3-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-3-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-3	Piezo Fast Tuner, Interlock			L,M
CM 1, 3A-02	FL03B25	RTD StepperMotor-3	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD MainCoupler2a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD MainCoupler2b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)

		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 3A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-3-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-3-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 3B-01	FL03B25	(Stepper Motor) SlowTuner-3	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-3-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-3-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 3B-02	FL03B25	C3 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 3B-03	FL03B24	C3 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 3B-04	FL03B24	C3 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 3B-05	FL03B25	Cav 3 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 3B-06	FL03B25	Cav 3 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 3B-07	FL02B27	StrpHtr-HeVessel-3	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 1, Cav 3-F	FL03B25	Cavity 3 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 3-R	FL03B25	Cavity 3 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin	
CM 1, 4A-01	FL03B25	(Piezo Actuator) FastTuner-4-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-4-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-4-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-4-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-4	Piezo Fast Tuner, Interlock			L,M
CM 1, 4A-02	FL03B25	RTD_StepperMotor-4	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler4a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler4b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 4A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-4-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-4-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 4B-01	FL03B25	(Stepper Motor) SlowTuner-4	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-4-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-4-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 4B-02	FL03B25	C4 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 4B-03	FL03B24	C4 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 4B-04	FL03B24	C4 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 4B-05	FL03B25	Cav 4 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 4B-06	FL03B25	Cav 4 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 4B-07	FL02B27	StrpHtr-HeVessel-4	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 1, Cav 4-F	FL03B25	Cavity 4 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 4-R	FL03B25	Cavity 4 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin	
CM 1, 5A-01	FL03B34	(Piezo Actuator) FastTuner-5-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-5-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-5-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-5-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-5	Piezo Fast Tuner, Interlock			L,M
CM 1, 5A-02	FL03B34	RTD_StepperMotor-5	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler5a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler5b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 5A-03	FL02B27	RTD_HeVessel-5 Top	Cernox CX-1030-SD-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_HeVessel-5 Bottom	Cernox CX-1030-SD-HT-1.4L			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-5-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-5-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 5B-01	FL03B34	(Stepper Motor) SlowTuner-5	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-5-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-5-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 5B-02	FL03B34	C5 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield

CM 1, 5B-03	FL03B24	C5 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 5B-04	FL03B24	C5 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 5B-05	FL03B34	Cav 5 e-Cy (EPickup Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 5B-06	FL03B34	Cav 5 e-WG (EPickup Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 5B-07	FL02B27	StrpHtr-HeVessel-5	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+), B(-) jumper to D(-)
CM 1, Cav 5-F	FL03B34	Cavity 5 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 5-R	FL03B34	Cavity 5 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector		Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, 6A-01	FL03B34	(Piezo Actuator) FastTuner-6-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-6-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-6-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-6-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-6	Piezo Fast Tuner, Interlock			L,M
CM 1, 6A-02	FL03B34	RTD_StepperMotor-6	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler6a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler6b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 6A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-6-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
CM 1, 6B-01	FL03B34	(Stepper Motor) SlowTuner-6	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-6-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-6-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 6B-02	FL03B34	C6 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 6B-03	FL03B24	C6 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 6B-04	FL03B24	C6 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 6B-05	FL03B34	Cav 6 e-Cy (EPickup Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 6B-06	FL03B34	Cav 6 e-WG (EPickup Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 6B-07	FL02B27	StrpHtr-HeVessel-6	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+), B(-) jumper to D(-)
CM 1, Cav 6-F	FL03B34	Cavity 6 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 6-R	FL03B34	Cavity 6 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector		Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, 7A-01	FL03B34	(Piezo Actuator) FastTuner-7-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-7-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-7-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-7-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-7	Piezo Fast Tuner, Interlock			L,M
CM 1, 7A-02	FL03B34	RTD_StepperMotor-7	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler7a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler7b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 7A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-7-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
CM 1, 7B-01	FL03B34	(Stepper Motor) SlowTuner-7	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-7-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-7-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 7B-02	FL03B34	C7 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 7B-03	FL03B24	C7 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 7B-04	FL03B24	C7 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 7B-05	FL03B34	Cav 7 e-Cy (EPickup Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 7B-06	FL03B34	Cav 7 e-WG (EPickup Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 7B-07	FL02B27	StrpHtr-HeVessel-7	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+), B(-) jumper to D(-)
CM 1, Cav 7-F	FL03B34	Cavity 7 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 7-R	FL03B34	Cavity 7 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, 8A-01	FL03B34	(Piezo Actuator) FastTuner-8-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-8-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-8-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-8-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-8	Piezo Fast Tuner, Interlock			L,M
CM 1, 8A-02	FL03B34	RTD StepperMotor-8	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD MainCoupler8a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD MainCoupler8b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 8A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD HOM Coupler Side-8-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD HOM Tuner Side-8-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, 8B-01	FL03B34	(Stepper Motor) SlowTuner-8	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-8-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-8-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 1, 8B-02	FL03B34	C8 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, 8B-03	FL03B24	C8 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 8B-04	FL03B24	C8 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 1, 8B-05	FL03B34	Cav_8_e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 8B-06	FL03B34	Cav_8_e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 1, 8B-07	FL02B27	StpHtr-HeVessel-8	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 1, Cav 8-F	FL03B34	Cavity 8 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 1, Cav 8-R	FL03B34	Cavity 8 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection (Warm Side)	Feed Through Connector Pin
CM 1, C-01		VD VT Positive Lead (Whole Coil-VT6)	Vertical Dipole Coil Voltage Tap (+)	8cond 22ga Alpha 1298C	MS3126F16-8S	Pin-A - Black
		VD VT Negative Lead (Whole Coil-VT5)	Vertical Dipole Coil Voltage Tap (-)			Pin-B - Brown
		HD VT Positive Lead (Whole Coil-VT4)	Horizontal Dipole Coil Voltage Tap (+)			Pin-C - Red
		HD VT Negative Lead (Whole Coil-VT3)	Horizontal Dipole Coil Voltage Tap (-)			Pin-D - Orange
		Quad VT Positive Lead (Whole Coil-VT1)	Split Quadrupole Coil Voltage Tap (+)			Pin-E - Yellow
		Quad VT Negative Lead (Whole Coil-VT2)	Split Quadrupole Coil Voltage Tap (-)			Pin-F - Green
		Spare	Spare			Pin-G - Blue
		Spare	Spare			Pin-H - White
CM 1, C-02		Vertical Dipole VTRes28 (PosHalf Coil)	Vertical Dipole Coil Voltage Tap (+)	8cond 22ga Alpha 1298C	MS3126F16-8S	Pin-A - Black
		Vertical Dipole VTRes29 (PosHalf Coil)	Vertical Dipole Coil Voltage Tap (-)			Pin-B - Brown
		Vertical Dipole VTRes30 (NegHalf Coil)	Vertical Dipole Coil Voltage Tap (+)			Pin-C - Red
		Vertical Dipole VTRes31 (NegHalf Coil)	Vertical Dipole Coil Voltage Tap (-)			Pin-D - Orange
		Horizontal Dipole VTRes22 (PosHalf Coil)	Horizontal Dipole Coil Voltage Tap (+)			Pin-E - Yellow
		Horizontal Dipole VTRes23 (PosHalf Coil)	Horizontal Dipole Coil Voltage Tap (-)			Pin-F - Green
		Horizontal Dipole VTRes24 (NegHalf Coil)	Horizontal Dipole Coil Voltage Tap (+)			Pin-G - Blue
Horizontal Dipole VTRes25 (NegHalf Coil)	Horizontal Dipole Coil Voltage Tap (-)	Pin-H - White				
CM 1, C-03		Quadrupole VTRes16 (PosHalf Coil)	Split Quadrupole Coil Voltage Tap (+)	8cond 22ga Alpha 1298C	MS3126F16-8S	Pin-A - Black
		Quadrupole VTRes17 (PosHalf Coil)	Split Quadrupole Coil Voltage Tap (-)			Pin-B - Brown
		Quadrupole VTRes18 (NegHalf Coil)	Split Quadrupole Coil Voltage Tap (+)			Pin-C - Red
		Quadrupole VTRes19 (NegHalf Coil)	Split Quadrupole Coil Voltage Tap (-)			Pin-D - Orange
		Spare	Spare			Pin-E - Yellow
		Spare	Spare			Pin-F - Green
		Spare	Spare			Pin-G - Blue
Spare	Spare	Pin-H - White				
CM 1, C-04	FL02B27	Heater Q1 & Q2 Heater Q3 & Q4	Split Quadrupole and Corrector Coils Persistent Current Magnet Heaters	4 cond 18 ga Alpha 2424C	MS24266R14B4SN	1(+), 2(-) 3(+), 4(-)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, D-01		BPM-Top	Beam Position Monitor		N 0°	Single Pin,Shield
CM 1, D-02		BPM-Right	Beam Position Monitor		N 0°	Single Pin,Shield
CM 1, D-03		BPM-Bot	Beam Position Monitor		N 0°	Single Pin,Shield
CM 1, D-04		BPM-Left	Beam Position Monitor		N 0°	Single Pin,Shield

CM 1, D-05		Fluxgate_Cav1	Fluxgate	6pr 20ga	MS3126F14-19S	A,B,C,D (S+,S-,E+,E-)
		Fluxgate_Cav2	Fluxgate			E,F,G,H (S+,S-,E+,E-)
		Fluxgate_Cav5	Fluxgate			J,K,L,M (S+,S-,E+,E-)
		spare	Spare			N,P,R,S
CM 1, D-06		Fluxgate_Cav7	Fluxgate	6pr 20ga	MS3126F14-19S	A,B,C,D (S+,S-,E+,E-)
		Fluxgate_Cav8	Fluxgate			E,F,G,H (S+,S-,E+,E-)
		spare	Spare			J,K,L,M
		spare	Spare			N,P,R,S
CM 1, D-07	FL02B27	CoolDownHtr-1	Primary Cool Down Heater #1 Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+), B(-)
		CoolDownHtr-2	Primary Cool Down Heater #2 Kapton Polyimide Strip Heater, 46.3 Ω			C(+), D(-)
CM 1, D-08	FL02B27	CoolDownHtr-3	Primary Cool Down Heater #3 Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+), B(-)
		Heater in Downstream Level Can	W4C050 50V, 100 Watt Cartridge Heater			C(+), D(-)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, E1-01	FL02B27	LL_Downstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	4 cond 18 ga; Alpha 2424C	16060-02-A	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F
	FL02B27	Baratron				

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, E2-01	FL02B27	LL_Downstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	4 cond 18 ga; Alpha 2424C	MS3126F10-6S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, F-01	FL02B27	RTD_MP_1	Cermox CX-1030-SD-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MP_2	DT-670A1-SD			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MP_3	DT-670A1-SD			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_MP_4	DT-670A1-SD			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, F-02	FL02B27	RTD_50K_LeadThermIntep	DT-670A1-SD	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_5K_LeadThermIntep	DT-670A1-SD			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_2K_LeadThermIntep_1	DT-670A1-SD			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_2K_LeadThermIntep_2	DT-670A1-SD			N,P,R,S (I+R,I-B,V+G,V-Y)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, K-01	FL02B27	RTD_Line_A1	DT-670A1-CU	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_Line_B1	DT-670A1-CU			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_Line_B2	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_Line_C1	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, K-02	FL02B27	RTD_Line_D1	DT-670A1-CU	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_Line_E1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_Line_F1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_Shield_1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, K-03	FL02B27	RTD_Cooldown_1	Cermox CX-1030-CU-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_Cooldown_2	Cermox CX-1030-CU-HT-1.4L			E,F,G,H (I+R,I-B,V+G,V-Y)
		<i>RTD Faraday Window 1 Port</i>	Cermox CX-1030-SD-HT			J,K,L,M (I+R,I-B,V+G,V-Y)
		<i>RTD Faraday Window 2 Port</i>	Cermox CX-1030-SD-HT			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 1, K-04	FL02B27	Heater in Upstream Level Can	W4C050 50V, 100 Watt Cartridge Heater	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+), B(-) jumper to D(-)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 1, L1-01	FL02B27	LL_Upstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	4 cond 18 ga; Alpha 2424C	16060-02-A	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E, F
CM 1, L1-BAR	FL02B27	Baratron				

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
L2-01	FL02B27	LL_Upstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	4 cond 18 ga; Alpha 2424C	MS3126F10-6S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F

Connector	Rack	Device/Sensor Name	Device/Sensor Type	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 1A-01	FL04B34	(Piezo Actuator) FastTuner-1-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-1-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-1-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-1-4	Piezo Fast Tuner, continued			G,H (V+,V-)

		(Piezo Actuators) Interlock-1	Piezo Fast Tuner, Interlock			J-K & L-M
CM 2, 1A-02	FL04B34	RTD_StepperMotor-1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler1a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler1b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 1A-03	FL02B27	RTD_HeVessel-1 Top	Cernox CX-1030-SD-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_HeVessel-1 Bottom	Cernox CX-1030-SD-HT-1.4L			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-1-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-1-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 1B-01	FL04B34	(Stepper Motor) SlowTuner-1	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-1-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-1-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 1B-02	FL04B34	C1 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 1B-03	FL03B24	C1 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 1B-04	FL03B24	C1 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 1B-05	FL04B34	Cav 1 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 1B-06	FL04B34	Cav 1 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 1B-07	FL02B27	StrpHtr-HeVessel-1	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 1-F	FL04B34	Cavity 1 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 1-R	FL04B34	Cavity 1 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 2A-01	FL04B34	(Piezo Actuator) FastTuner-2-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-2-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-2-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-2-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-2	Piezo Fast Tuner, Interlock			L,M
CM 2, 2A-02	FL04B34	RTD_StepperMotor-2	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler2a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler2b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 2A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-2-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-2-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 2B-01	FL04B34	(Stepper Motor) SlowTuner-2	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-2-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-2-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 2B-02	FL04B34	C2 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 2B-03	FL03B24	C2 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 2B-04	FL03B24	C2 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 2B-05	FL04B34	Cav 2 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 2B-06	FL04B34	Cav 2 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 2B-07	FL02B27	StrpHtr-HeVessel-2	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 2-F	FL04B34	Cavity 2 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 2-R	FL04B34	Cavity 2 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 3A-01	FL04B34	(Piezo Actuator) FastTuner-3-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-3-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-3-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-3-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-3	Piezo Fast Tuner, Interlock			L,M
CM 2, 3A-02	FL04B34	RTD_StepperMotor-3	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler2a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler2b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 3A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-3-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-3-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)

CM 2, 3B-01	FL04B34	(Stepper Motor) SlowTuner-3	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-3-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-3-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 3B-02	FL04B34	C3 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 3B-03	FL03B24	C3 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 3B-04	FL03B24	C3 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 3B-05	FL04B34	Cav 3 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 3B-06	FL04B34	Cav 3 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 3B-07	FL02B27	StrpHtr-HeVessel-3	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 3-F	FL04B34	Cavity 3 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 3-R	FL04B34	Cavity 3 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 4A-01	FL04B34	(Piezo Actuator) FastTuner-4-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-4-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-4-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-4-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-4	Piezo Fast Tuner, Interlock			L,M
CM 2, 4A-02	FL04B34	RTD_StepperMotor-4	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler4a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler4b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 4A-03	FL02B27	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-4-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-4-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 4B-01	FL04B34	(Stepper Motor) SlowTuner-4	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-4-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-4-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 4B-02	FL04B34	C4 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 4B-03	FL03B24	C4 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 4B-04	FL03B24	C4 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 4B-05	FL04B34	Cav 4 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 4B-06	FL04B34	Cav 4 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 4B-07	FL02B27	StrpHtr-HeVessel-4	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 4-F	FL04B34	Cavity 4 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 4-R	FL04B34	Cavity 4 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 5A-01	FL04B25	(Piezo Actuator) FastTuner-5-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-5-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-5-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-5-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-5	Piezo Fast Tuner, Interlock			L,M
CM 2, 5A-02	FL04B25	RTD_StepperMotor-5	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler5a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler5b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 5A-03	FL02B25	RTD_HeVessel-5 Top	Cernox CX-1030-SD-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_HeVessel-5 Bottom	Cernox CX-1030-SD-HT-1.4L			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-5-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-5-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 5B-01	FL04B25	(Stepper Motor) SlowTuner-5	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-5-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-5-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 5B-02	FL04B25	C5 Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 5B-03	FL03B24	C5 H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 5B-04	FL03B24	C5 H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 5B-05	FL04B25	Cav 5 e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 5B-06	FL04B25	Cav 5 e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield

CM 2, 5B-07	FL02B25	StrpHtr-HeVessel-5	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 5-F	FL04B25	Cavity 5 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 5-R	FL04B25	Cavity 5 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 6A-01	FL04B25	(Piezo Actuator) FastTuner-6-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-6-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-6-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-6-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-6	Piezo Fast Tuner, Interlock			L,M
CM 2, 6A-02	FL04B25	RTD_StepperMotor-6	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler6a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler6b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 6A-03	FL02B25	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-6-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-6-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 6B-01	FL04B25	(Stepper Motor) SlowTuner-6	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-6-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-6-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 6B-02	FL04B25	C6_Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 6B-03	FL03B24	C6_H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 6B-04	FL03B24	C6_H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 6B-05	FL04B25	Cav_6_e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 6B-06	FL04B25	Cav_6_e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 6B-07	FL02B25	StrpHtr-HeVessel-6	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 6-F	FL04B25	Cavity 6 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 6, Cav 6-R	FL04B25	Cavity 6 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 7A-01	FL04B25	(Piezo Actuator) FastTuner-7-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-7-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-7-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-7-4	Piezo Fast Tuner, continued			G,H (V+,V-)
		(Piezo Actuators) Interlock-7	Piezo Fast Tuner, Interlock			L,M
CM 2, 7A-02	FL04B25	RTD_StepperMotor-7	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler7a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler7b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 7A-03	FL02B25	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-7-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
CM 2, 7B-01	FL04B25	(Stepper Motor) SlowTuner-7	Phyton Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-7-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-7-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 7B-02	FL04B25	C7_Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 7B-03	FL03B24	C7_H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 7B-04	FL03B24	C7_H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 7B-05	FL04B25	Cav_7_e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 7B-06	FL04B25	Cav_7_e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 7B-07	FL02B25	StrpHtr-HeVessel-7	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 7-F	FL04B25	Cavity 7 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 7-R	FL04B25	Cavity 7 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, 8A-01	FL04B25	(Piezo Actuator) FastTuner-8-1	Piezo Fast Tuner, Part# P-844K075	4 pr 22 ga, Alpha 2463C	MS3126F14-12S	A,B (V+,V-)
		(Piezo Actuator) FastTuner-8-2	Piezo Fast Tuner, continued			C,D (V+,V-)
		(Piezo Actuator) FastTuner-8-3	Piezo Fast Tuner, Part# P-844K075			E,F (V+,V-)
		(Piezo Actuator) FastTuner-8-4	Piezo Fast Tuner, continued			G,H (V+,V-)

		(Piezo Actuators) Interlock-8	Piezo Fast Tuner, Interlock			L,M
CM 2, 8A-02	FL04B25	RTD_StepperMotor-8	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	6 pr 20 ga Alpha 6036C	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler8a-12o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_MainCoupler8b-6o'clock	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
		Spare	N/A			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 8A-03	FL02B25	Spare	N/A	4 pr 22 ga	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	N/A			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD_HOM_Coupler_Side-8-2 Copper Clamp	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD_HOM_Tuner_Side-8-4 Copper Clamp	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, 8B-01	FL04B25	(Stepper Motor) SlowTuner-8	Phytron Stepper Motor, Model #: VSS 52.200.2.5-4LP-5M-UHVC	4 pr 20 ga Alpha #2467	MS3126F16-8S	A,B,C,D
		Tuner limit Switch-8-1	Stepper Motor Tuner limit Switches Part #: S15-276			E,F
		Tuner limit Switch-8-2	Stepper Motor Tuner limit Switches Part #: S15-276			G,H
CM 2, 8B-02	FL04B25	C8_Pt (PTrans)	Cavity Pickup -- Transmitted Power (Field Probe)	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, 8B-03	FL03B24	C8_H1 (PTrans HOM-1)	HOM 1 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 8B-04	FL03B24	C8_H2 (PTrans HOM-2)	HOM 2 -- Transmitted Power	1/4" Heliax	N 0°	Single Pin,Shield
CM 2, 8B-05	FL04B25	Cav_8_e-Cy (EPickup_Cavity)	70KCy e- 1.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 8B-06	FL04B25	Cav_8_e-WG (EPickup_Waveguide)	70KWg e- 2.1 (Electron Pickup)	3/8" Heliax	SMA 0°	Single Pin,Shield
CM 2, 8B-07	FL02B25	StrpHtr-HeVessel-8	HK5347R46.3L12AU Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+) jumper to C(+) , B(-) jumper to D(-)
CM 2, Cav 8-F	FL04B25	Cavity 8 coupler forward power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield
CM 2, Cav 8-R	FL04B25	Cavity 8 coupler reflected power	WR650 Waveguide coupler	3/8" Heliax	N 0°	Single Pin,Shield

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection (Warm Side)	Feed Through Connector Pin
CM 2, C-01		VD VT Positive Lead (Whole Coil-VT6)	Vertical Dipole Coil Voltage Tap (+)	8cond 22ga Alpha 1298C	MS3126F16-8S	Pin-A - Black
		VD VT Negative Lead (Whole Coil-VT5)	Vertical Dipole Coil Voltage Tap (-)			Pin-B - Brown
		HD VT Positive Lead (Whole Coil-VT4)	Horizontal Dipole Coil Voltage Tap (+)			Pin-C - Red
		HD VT Negative Lead (Whole Coil-VT3)	Horizontal Dipole Coil Voltage Tap (-)			Pin-D - Orange
		Quad VT Positive Lead (Whole Coil-VT1)	Split Quadrupole Coil Voltage Tap (+)			Pin-E - Yellow
		Quad VT Negative Lead (Whole Coil-VT2)	Split Quadrupole Coil Voltage Tap (-)			Pin-F - Green
		Spare	Spare			Pin-G - Blue
		Spare	Spare			Pin-H - White
CM 2, C-02		Vertical Dipole VTRes28 (PosHalf Coil)	Vertical Dipole Coil Voltage Tap (+)	8cond 22ga Alpha 1298C	MS3126F16-8S	Pin-A - Black
		Vertical Dipole VTRes29 (PosHalf Coil)	Vertical Dipole Coil Voltage Tap (-)			Pin-B - Brown
		Vertical Dipole VTRes30 (NegHalf Coil)	Vertical Dipole Coil Voltage Tap (+)			Pin-C - Red
		Vertical Dipole VTRes31 (NegHalf Coil)	Vertical Dipole Coil Voltage Tap (-)			Pin-D - Orange
		Horizontal Dipole VTRes22 (PosHalf Coil)	Horizontal Dipole Coil Voltage Tap (+)			Pin-E - Yellow
		Horizontal Dipole VTRes23 (PosHalf Coil)	Horizontal Dipole Coil Voltage Tap (-)			Pin-F - Green
		Horizontal Dipole VTRes24 (NegHalf Coil)	Horizontal Dipole Coil Voltage Tap (+)			Pin-G - Blue
Horizontal Dipole VTRes25 (NegHalf Coil)	Horizontal Dipole Coil Voltage Tap (-)	Pin-H - White				
CM 2, C-03		Quadrupole VTRes16 (PosHalf Coil)	Split Quadrupole Coil Voltage Tap (+)	8cond 22ga Alpha 1298C	MS3126F16-8S	Pin-A - Black
		Quadrupole VTRes17 (PosHalf Coil)	Split Quadrupole Coil Voltage Tap (-)			Pin-B - Brown
		Quadrupole VTRes18 (NegHalf Coil)	Split Quadrupole Coil Voltage Tap (+)			Pin-C - Red
		Quadrupole VTRes19 (NegHalf Coil)	Split Quadrupole Coil Voltage Tap (-)			Pin-D - Orange
		Spare	Spare			Pin-E - Yellow
		Spare	Spare			Pin-F - Green
		Spare	Spare			Pin-G - Blue
Spare	Spare	Pin-H - White				
CM 2, C-04		Heater Q1 & Q2 Heater Q3 & Q4	Split Quadrupole and Corrector Coils Persistent Current Magnet Heaters	4 cond 18 ga Alpha 2424C	MS24266R14B4SN	1(+), 2(-) 3(+), 4(-)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, D-01		BPM-Top	Beam Position Monitor		N 0°	Single Pin,Shield
CM 2, D-02		BPM-Right	Beam Position Monitor		N 0°	Single Pin,Shield
CM 2, D-03		BPM-Bot	Beam Position Monitor		N 0°	Single Pin,Shield
CM 2, D-04		BPM-Left	Beam Position Monitor		N 0°	Single Pin,Shield
CM 2, D-05		Fluxgate_Cav1	Fluxgate		MS3126F14-19S	A,B,C,D (S+,S-,E+,E-)
		Fluxgate_Cav2	Fluxgate			E,F,G,H (S+,S-,E+,E-)
		Fluxgate_Cav5	Fluxgate			J,K,L,M (S+,S-,E+,E-)
		spare	Spare			N,P,R,S
CM 2, D-06		Fluxgate_Cav7	Fluxgate		MS3126F14-19S	A,B,C,D (S+,S-,E+,E-)
		Fluxgate_Cav8	Fluxgate			E,F,G,H (S+,S-,E+,E-)

CM 2, D-00		spare	Spare		MS3126F14-19S	J,K,L,M
		spare	Spare			N,P,R,S
CM 2, D-07	FL02B25	CoolDownHtr-1	Primary Cool Down Heater #1 Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+), B(-)
		CoolDownHtr-2	Primary Cool Down Heater #2 Kapton Polyimide Strip Heater, 46.3 Ω			C(+), D(-)
CM 2, D-08	FL02B25	CoolDownHtr-3	Primary Cool Down Heater #3 Kapton Polyimide Strip Heater, 46.3 Ω	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	A(+), B(-)
		Heater in Downstream Level Can	W4C050 50V, 100 Watt Cartridge Heater			C(+), D(-)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, E1-01	FL02B25	LL Downstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	2 pr 20 ga	16060-02-A	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, E2-01	FL02B25	LL Downstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	2 pr 20 ga	MS3126F10-6S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, F-01	FL02B25	RTD MP 1	Cermox CX-1030-SD-HT-1.4L	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD MP 2	DT-670A1-SD			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD MP 3	DT-670A1-SD			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD MP 4	DT-670A1-SD			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, F-02	FL02B25	RTD 50K LeadThermIntcp	DT-670A1-SD	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD 5K LeadThermIntcp	DT-670A1-SD			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD 2K LeadThermIntcp_1	DT-670A1-SD			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD 2K LeadThermIntcp_2	DT-670A1-SD			N,P,R,S (I+R,I-B,V+G,V-Y)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, K-01	FL02B25	RTD Line A1	DT-670A1-CU	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD Line B1	DT-670A1-CU			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD Line B2	DT-670A1-CU			J,K,L,M (I+R,I-B,V+G,V-Y)
		RTD Line C1	DT-670A1-CU			N,P,R,S (I+R,I-B,V+G,V-Y)
CM 2, K-02	FL02B25	RTD Line D1	DT-670A1-CU	8 pr 22 ga Alpha 6379S	MS3126F14-19S	A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD Line E1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD Line F1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)			J,K,L,M (I+R,I-B,V+G,V-Y)
CM 2, K-03	FL02B25	RTD Shield 1	PT-103 (Platinum 100 Ohm, European Standard DIN/IEC 60751)	8 pr 22 ga Alpha 6379S	MS3126F14-19S	N,P,R,S (I+R,I-B,V+G,V-Y)
		RTD Cooldown 1	Cermox CX-1030-CU-HT-1.4L			A,B,C,D (I+R,I-B,V+G,V-Y)
		RTD Cooldown 2	Cermox CX-1030-CU-HT-1.4L			E,F,G,H (I+R,I-B,V+G,V-Y)
		RTD Faraday Window 1 Port	Cermox CX-1030-SD-HT			J,K,L,M (I+R,I-B,V+G,V-Y)
CM 2, K-04	FL02B25	RTD Faraday Window 2 Port	Cermox CX-1030-SD-HT	4 cond 18 ga; Alpha 2424C	MS24266R14B4SN	N,P,R,S (I+R,I-B,V+G,V-Y)
		Heater in Upstream Level Can	W4C050 50V, 100 Watt Cartridge Heater			A(+) jumper to C(+), B(-) jumper to D(-)

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, L1-01	FL02B25	LL Upstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	2 pr 20 ga	16060-02-A	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F

Connector	Rack	Device/Sensor Name	Device/Sensor Type/Serial Number	Cable	Feed Through Mating Connection(AIR)	Feed Through Connector Pin
CM 2, L2-01	FL02B25	LL Upstream	Cryomagnetics 3D-031-033-PB-RAD-2K 12" Liquid Level Probe	2 pr 20 ga	MS3126F10-6S	A,B,C,D (I+R,I-B,V+G,V-Y)
		Spare	Jumper/ Potential for Interlock			E,F