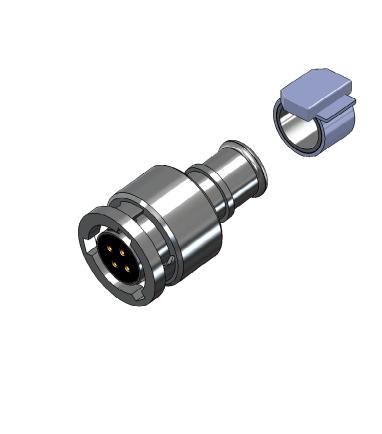


PIN	ECTOR J1 - 25 PIN SUBMINI	_D CONNECTOR	(PEEK)
	WIDE NAME		(<i>)</i>
1 CHELL C	WIRE NAME	LENGTH *	TWISTED PAIR
1, SHELL S	HIELD		
13 (CABLE 1) WIRE 13	36"	TP-1
25 (CABLE 1) WIRE 25	36"	TP-1
12 (CABLE 1) WIRE 12	36"	TP-2
24 (CABLE 1) WIRE 24	36"	TP-2
	CABLE 2) WIRE 11	36"	TP-3
•	CABLE 2) WIRE 23	36"	TP-3
	CABLE 2) WIRE 10	36"	TP-4
22 (CABLE 2) WIRE 22	36"	TP-4
9 (CABLE 3) WIRE 9	36"	TP-5
	CABLE 3) WIRE 21	36"	TP-5
	CABLE 3) WIRE 8	36"	TP-6
	CABLE 3) WIRE 20	36"	TP-6
7 /	CARLE AV WIRE 7	0.411	
	CABLE 4) WIRE 7	36"	TP-7
	CABLE 4) WIRE 19	36"	TP-7
	CABLE 4) WIRE 6	36"	TP-8
18 (CABLE 4) WIRE 18	36"	TP-8
	6,4,17,5 N/C (NOT CONNECT	、	

VENT HOLE

NO COPPER BRAID SHIELD ON CABLE # 1,2,3,4

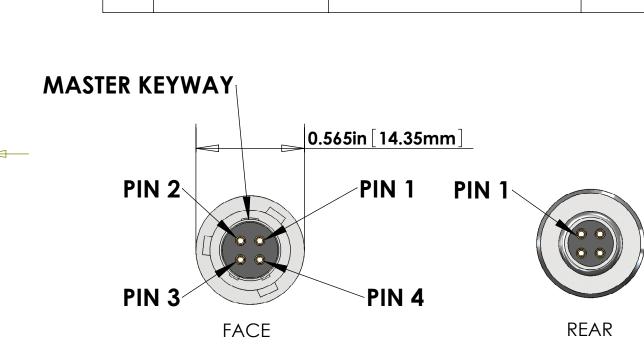


CABLE #3

CABLE #1

SADLE #3

36" [914.4mm]



DATE

4 PIN MIGHTY MOUSE SOCKET CONNECTOR GLENAIR # 803-001-06M6-4SN-598A (MATES WITH GLENAIR # 803-003-07M6-4PN-598A)

DCN#

DRAWING TREE #

NECTOR			TO
J5 <u> </u>		CONNECTOR J5 - 4 PIN SOC	CKET MIGHTY MOUSE CONNECTOR
	PIN	WIRE NAME	SIGNAL
	SHELL	(SHIELD) NOT CONNECTED	
	1	(CABLE 4) WIRE 7	PICOMOTOR PAIR M4 HORIZONTAL SIGNA
	2	(CABLE 4) WIRE 19	PICOMOTOR PAIR M4 HORIZONTAL RETUR
	3 4	(CABLE 4) WIRE 6 (CABLE 4) WIRE 18	PICOMOTOR PAIR M4 VERTICAL SIGNAL PICOMOTOR PAIR M4 VERTICAL RETURN
CTOR	V	25AC-36 CABLE #3 A	ASSEMBLY CIRCUIT SUMMARY
			TO
		CONNECTOR J4 - 4 PIN SOC	CKET MIGHTY MOUSE CONNECTOR
	PIN	WIRE NAME	SIGNAL
	SHELL	(SHIELD) NOT CONNECTED	
	1	(CABLE 3) WIRE 9	PICOMOTOR PAIR M3 HORIZONTAL SIGNA
	3	(CABLE 3) WIRE 21 (CABLE 3) WIRE 8	PICOMOTOR PAIR M3 HORIZONTAL RETURN PICOMOTOR PAIR M3 VERTICAL SIGNAL
	4	(CABLE 3) WIRE 20	PICOMOTOR PAIR M3 VERTICAL RETURN
	V	/25AC-36 CABLE #2 A	SSEMBLY CIRCUIT SUMMARY
			TO
		CONNECTOR J3 - 4 PIN SOC	CKET MIGHTY MOUSE CONNECTOR
	PIN	WIRE NAME	SIGNAL
	SHELL	(SHIELD) NOT CONNECTED	
	1	(CABLE 2) WIRE 11	PICOMOTOR PAIR M2 HORIZONTAL SIGNA
	3	(CABLE 2) WIRE 23 (CABLE 2) WIRE 10	PICOMOTOR PAIR M2 HORIZONTAL RETUR PICOMOTOR PAIR M2 VERTICAL SIGNAL
	4	(CABLE 2) WIRE 10 (CABLE 2) WIRE 22	PICOMOTOR PAIR M2 VERTICAL RETURN
CTOR		/05400/ 04DIE #4	
	V	25AC-36 CABLE #1 A	SSEMBLY CIRCUIT SUMMARY

CONNECTOR J2, J3, J4, J5

0.93in. [23.62mm]

	CONNECTOR J5 - 4 PIN SOC	CKET MIGHTY MOUSE CONNECTOR
PIN	WIRE NAME	SIGNAL
SHELL	(SHIELD) NOT CONNECTED	
1	(CARLE 4) WIRE 7	DICCOLLOTOR RAID ALL HORIZONITAL CICAL
<u> </u>	(CABLE 4) WIRE 7	PICOMOTOR PAIR M4 HORIZONTAL SIGNA
2	(CABLE 4) WIRE 19	PICOMOTOR PAIR M4 HORIZONTAL RETUR
3	(CABLE 4) WIRE 6	PICOMOTOR PAIR M4 VERTICAL SIGNAL
4	(CABLE 4) WIRE 18	PICOMOTOR PAIR M4 VERTICAL RETURN
\	/25AC-36 CABLE #3 A	SSEMBLY CIRCUIT SUMMARY
		TO
	CONNECTOR J4 - 4 PIN SOC	CKET MIGHTY MOUSE CONNECTOR
PIN	WIRE NAME	SIGNAL
SHELL	(SHIELD) NOT CONNECTED	
SHELL	(SHIELD) NOT CONNECTED	
1	(CABLE 3) WIRE 9	PICOMOTOR PAIR M3 HORIZONTAL SIGNA
ı	(CABLE 3) WIRE 21	PICOMOTOR PAIR M3 HORIZONTAL RETUR
2		
2	,	
3	(CABLE 3) WIRE 8	PICOMOTOR PAIR M3 VERTICAL SIGNAL
	,	
3	(CABLE 3) WIRE 8	PICOMOTOR PAIR M3 VERTICAL SIGNAL
3 4	(CABLE 3) WIRE 8 (CABLE 3) WIRE 20	PICOMOTOR PAIR M3 VERTICAL SIGNAL
3 4	(CABLE 3) WIRE 8 (CABLE 3) WIRE 20	PICOMOTOR PAIR M3 VERTICAL SIGNAL PICOMOTOR PAIR M3 VERTICAL RETURN
3 4	(CABLE 3) WIRE 8 (CABLE 3) WIRE 20 /25AC-36 CABLE #2 A	PICOMOTOR PAIR M3 VERTICAL SIGNAL PICOMOTOR PAIR M3 VERTICAL RETURN SSEMBLY CIRCUIT SUMMARY
3 4	(CABLE 3) WIRE 8 (CABLE 3) WIRE 20 /25AC-36 CABLE #2 A	PICOMOTOR PAIR M3 VERTICAL SIGNAL PICOMOTOR PAIR M3 VERTICAL RETURN SSEMBLY CIRCUIT SUMMARY TO

/O + D E O					
(CABLE 2) WIRE 23	PICOMOTOR PAIR M2 HORIZONTAL RETURN				
(CABLE 2) WIRE 10	PICOMOTOR PAIR M2 VERTICAL SIGNAL				
(CABLE 2) WIRE 22	PICOMOTOR PAIR M2 VERTICAL RETURN				
V25AC-36 CABLE #1 A	SSEMBLY CIRCUIT SUMMARY				
	TO				
CONNECTOR J2 - 4 PIN SOC	CKET MIGHTY MOUSE CONNECTOR				
PIN WIRE NAME SIGNAL					
(SHIELD) NOT CONNECTED					
(CABLE 1) WIRE 13	PICOMOTOR PAIR M1 HORIZONTAL SIGNAL				
(CABLE 1) WIRE 25	PICOMOTOR PAIR M1 HORIZONTAL RETURN				
(CABLE 1) WIRE 12	PICOMOTOR PAIR M1 VERTICAL SIGNAL				
(CABLE 1) WIRE 24	PICOMOTOR PAIR M1 VERTICAL RETURN				
<u>'</u>					
	CONNECTOR J2 - 4 PIN SOC WIRE NAME (SHIELD) NOT CONNECTED (CABLE 1) WIRE 13 (CABLE 1) WIRE 25 (CABLE 1) WIRE 12				

		BILL OF MATERIALS		
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH
1	TICOP # TS0125 2	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1	
2	TICOR # TS0125-3	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)		
3	GLENAIR # 803-001-06M6-4SN-598A	MIGHTY MOUSE SOCKET CONNECTOR (J2,J3,J4,J5)	4	
4	COONER WIRE # CZ2205 22GA PFA INSULATED BIOMEDICAL WIRE	4 COND. CABLE 22GA PFA INSULATED (WITH PEEK OVERBRAID) NO SHIELD PARTS SUPPLIED BY LIGO	4	36 in.*
(5)	PART # 6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT - SUPPLIED BY LIGO	4	
6	GLENAIR # 600-052 or BAND-IT # A10086	GLENAIR # 600-052 STANDARD BRAID CLAMP or BAND-IT PART # A10086 (0.240" WIDE) ("BAG OF 100" # A10089)	8	

* NOTE: THE OVERALL LENGTH IS MEASURED FROM PIN TIP (25 PIN) TO PIN TIP (4 PIN) OF THE CABLE. Use whatever length is necessary for the internal wiring of the connectors and strip length to achieve the correct overall length.

NOTES: (IINLESS OTHERWISE SPECIFIED)	

- MOJES: (MNTE22 OTHERWISE 2 LECILIED) 1. MATERIAL: a. CONNECTOR SHELL - PEEK VICTREX GRADE TDS-450G.
 - b. BACKSHELL STAINLESS STEEL WITH VENT HOLE. c. CONTACTS - BERYLLIUM COPPER ALLOY C17300
 - 0.000050 MIN. GOLD OVER NICKEL d. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED
- . CABLE 4 COND. 22 AWG, WITH PFA INSULATION COONER WIRE #CZ2205 OVERALL PEEK BRAID MIN. 50% COVERAGE OVERALL CABLE O.D. WILL BE APPROX. 0.200 IN.

V25	AC - V-DB25 M	/S1-36-4_MM4PIN F/S
	STANDARD USE	FOR THIS CABLE
SUBSYSTEM	AIR/VAC	STANDARD USE
ISC	IN-VAC	PICOMOTORS TABLE TO MOTORS

	NOTES AND TOLERANCES: (UNLESS OTHERWIS	E SPECIFIED)		ノリリリ	CALIEODNIA INSTITUTE OF TECHNOLOGY	PART NAME	CIIC	TOMA CAD	I E CDE	CIEICATION	
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS.				LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		CUS	STOM CABLE SPECIFICATION V25AC-36			
TOLERANCES:	3. DO NOT SCALE FROM DRAW	/ING.		SYSTEM	SUB-SYSTEM	DESIGNER	R.ABBOTT	OCT/12/2011 SIZE	DWG. NO	D.	RE\
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MUS AND FREE OF SULFUR, SILICONE	IT BE FULLY SYNTHETIC, FULLY WATER SC E, AND CHLORINE.	OLUBLE		ISC	DRAFTER	E.BROWN	OCT/05/2011 F		D1000238	
	MATERIAL	FINISH		NEXT ASSY		CHECKER		_		D 1000200	• -
ANGULAR ± °			μinch			APPROVAL		SCAI	. E : 2:1	PROJECTION:	SHEET 1 OF 1