NOTES CONTINUED:

© SCRIE, FNCEAVE, OR MICCHANICALLY STAMP
(NO RISK OF DYSS) DRAWING PART NUMBER AND
REVISON ON NOTES DISPACE FOLLOWED ON THE
RIAT LINE BY A HORE DIGIT STAM, NAMERS STRAIN
PROCEED CONSECUTIVITY U.S. OF VIGCH
CHARACTES.

DIXXXXXXXIV. SIN DOI:

A VIRRACTORY TOOL MAY BE USED.

A

APPROXIMATE WEIGHT = X XXX LB.
 MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH, USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364.

ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.

ALL HELI-COIL HOLES TO BE PREPARED ACCORDING TO EMHART HELI-COIL PRODUCT CATALOG, HC2000, REV 4

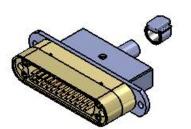
D. ALL HELF-COIL INSERTS TO BE INSTALLED BY LIGO PERSONNEL, AFTER DELIVERY OF FINISHED PARTS, USE NITRONIC 60 THREADED INSERTS.

2. SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER, FREE FROM SCRATCHES OR GOUGES.

3. PART WILL BE PORCELAIN COATED PER LIGO SPECIFICATION E 1000083 AFTER FABRICATION. THE INDICATED HOLES WILL BE MASKED PRIOR TO PORCELAIN COATING TO APPROXIMATELY 2.5-3X HOLE DIAMETER CENTERED ON BOTH SIDES OF THE HOLE.

5. BEND RADIUS: UNLESS OTHERWISE NOTED, THE BEND RADIUS SHOULD BE THE MINIMUM REQUIRED TO FORM WITHOUT CRACKING OR REQUIRING ADDITIONAL WORK WHEN FORMING. IN PARTICULAR F SHEET METAL IS TO BE PORCELAIN COATED, THE BEND RADIUS SHALL BE A MINIMUM OF .12" OUTSIDE RADIUS OF BEND UNLESS. OTHERWISE NOTED.





	V25AB CABLE ASSEMBL' V-DB25 M/S1-TBD	-MM4PIN		
	FROM	1		
	CONNECTOR J1 - 25 PIN SUBMI	NI_D CONNE	CTOR (PEEK)	
PIN	WIRE NAME	COLOR	LENGTH	TWISTED PAIR
1,	(SHIELD)			(SHIELD)
1	(CABLE 1) WIRE 1A	White	TBD	
2	(CABLE 1) WIRE 2A, WIRE 2B	White		TP-1
14	(CABLE 1) WIRE 14A, WIRE 14B	White		TP-1
3	(CABLE 1) WIRE 3A, WIRE 3B	White		TP-2
15	(CABLE 1) WIRE 15A, WIRE 15B	White		TP-2

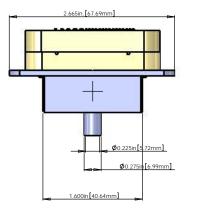


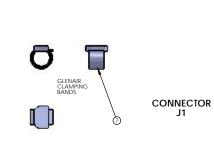


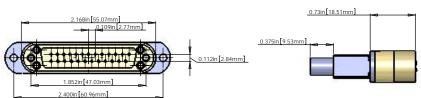


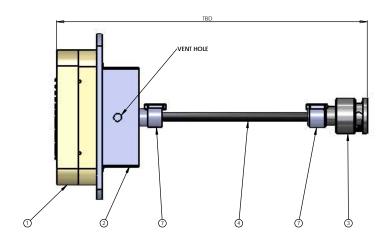








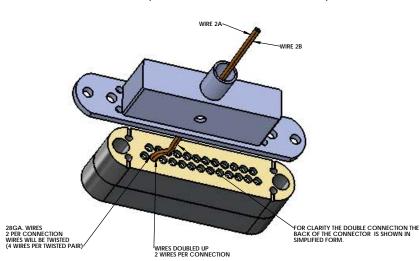




V25AB CABLE ASSEMBLY CIRCUIT SUMMARY							
	TO						
C	CONNECTOR J2 - 4 PIN PLUG MIGHTY MOUSE CONNECTOR						
Pin	Wire Name	Signal					
SHELL	SHIELD WIRE 1A	SHIELD					
1	(CABLE 1) WIRE 2A, WIRE 2B	PICOMOTOR #1 XY M1					
2	(CABLE 1) WIRE 14A, WIRE 14B	PICOMOTOR #1 XY M2					
3	(CABLE 1) WIRE 3A, WIRE 3B	PICOMOTOR #1 XY M3					
4	(CABLE 1) WIRE 15A, WIRE 15B	PICOMOTOR #1 XY M4					

2 WIRES PER CONNECTION AS SHOWN

(ONLY ONE CONNECTION SHOWN FOR CLARITY)



	V25AB	- V-DB2	25 M/S1-TBD-MM4PIN F/S					
	STANDARD USE FOR THIS CABLE							
SUBSYSTEM		AIR/VAC	STANDARD USE					
	ISC	IN-VAC	PICOMOTORS (WITH DOUBLE WIRES)					

<u> </u>	4	PEEK OVERBRAID	PLATED COPPER BRAID (5) (SHIELD)	9 CONDUCTOR 28 AWG 4 TWISTED PAIRS (4 WIRES PER PAIR) + 1 SHIELD WIRE
777777		****		

BILL OF MATERIALS								
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH				
① ②	TICOR #TS0125-3	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK) DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1					
Ğ	GLENAIR # 803-001-06M6-4SN-598A	MIGHTY MOUSE SOCKET CONNECTOR (J2)	1					
4	C1	9 COND. (2 TWISTED PAIR) (4 WIRES PER TWISTED PAIR) CABLE (ADD COPPER BRAID (SHIELD). AND PEEK OVERBRAID).	1	TBDin.*				
(5)	CONTINENTAL PART #24x3x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART #24x3x40BC	1					
0	PART #6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	4					
0	GLENAID 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP	2					

GLENAIR 600-052 GLENAIR 600-052 STANDARD BRAID CLAMP

* NOTE: THE OVERALL LENGTH IS MEASURED FROM PIN TIP (25 PIN) TO PIN TIP (9 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: (UNLESS OTHERWISE SPECIFIED)

1. MATERIAL: a. CONNECTOR SHELL - PEEK VICTREX GRADE TDS-450G.

b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
C. CONTACTS - BETVLIUM COPPER ALLOY C 17300
0.000050 MIN. GOLD OVER NICKEL
d. HARDWARE: CORROSION RESISTANCE STEEL PASSIVATED
e. PEEK BRAID - PEEK VICITEX GRADE IDS-450CA30 CARBON LOADED

CABLE 9 COND. 28 AWG, (40 SIRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE
 4 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + SHIELD WIRE (WIRES DOUBLED UP) (4 WIRES PER TWISTED PAIR)
 OVERALL 40AWG SILVER PALTED COPPER BRAID 90% COVERAGE
 OVERALL PEEK BRAID MIN. 50% COVERAGE
 OVERALL CABLE 0.D. WILL BE APPROX. 0.240 IN.

	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		וווווע	CALIFORNIA INSTITUTE OF TECHNOLOGY	P P	PART NAME								
IMENSIONS ARE IN	1. INTERPRET DRAWNING PER ASME Y14.5-1994. 2. REMOVE ALI SHAPE PEGGS. 005-015. FOR MACHINED PARTS. ROUND ALL EDGSS APPROXIMATILEY R0.7 FOR SHEET METAL PARTS. 3. DO NOT SCALE FROM DRAWNING. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR. SLICOONE, AND CHLORINE.		LIGO MASSACHUSETTS INSTITUTE OF TECHNOLOGY			CUSTOM CABLE SPECIFICATION						' NOITA	I V25AB	
DLERANCES:			SYSTEM	SUB-SYSTEM	M D	DESIGNER	B.ABBOTT	FEB/11/2011	11/2011 SIZE DWG).			REV.
OX ±					El 🗖	DRAFTER	E.BROWN	FEB/11/2011] _F		D1000237			v1
	MATERIAL	FINISH	NEXT ASSY		C	CHECKER			ויו		סוס	00237		V 1
NGULAR± *		μinch			4	APPROVAL			SCALE	2:1	PROJECTION:	⊕ -□	SHEET 1	OF 1