

0.565in 14.35mm

0.900in 22.86mm

TEST LIST		TES	TEST LIST	
FROM	то	FROM	то	
J1	J4	J1	J5	
PIN	PIN	PIN	PIN	
J1 - 1, SHELL	J4 - 5 - SHELL	J1 - 1, SHELL	. J5 - 5 - SHE	
J1 - 20	J4 - 1	J1 - 23	J5 -1	
J1 - 8	J4 - 6	J1 - 11	J5 -6	
J1 - 21	J4 - 2	J1 - 24	J5 -2	
J1 - 9	J4 - 7	J1 - 12	J5 -7	
J1 - 22	J4 - 4	J1 - 25	J5 -4	
J1 - 10	J4 - 9	J1 - 13	J5 -9	

DCN#

**DRAWING TREE #** 

DATE

V25A	M-23-A CABLE ASSE	EMBLY CIRCUIT SUMMARY			
TO					
CONNECTOR J2 - 9 PIN FEMALE MICRO_D CONNECTOR (PEEK)					
PIN	WIRE NAME	SIGNAL			
A5	(CONNECTOR SHELL)	SHIELD			
A5	(CABLE 1) SHIELD	SHIELD			
A5	(CABLE 1) WIRE 1	SHIELD			
A1	(CABLE 1) WIRE 14	PD1-K			
Α6	(CABLE 1) WIRE 2	PD1-A			
A2	(CABLE 1) WIRE 15	LED1-A			
A7	(CABLE 1) WIRE 3	LED1-K			
A4	(CABLE 1) WIRE 16	COIL1-FN			
A9	(CABLE 1) WIRE 4	COIL1-ST			

## V25AM-23-A CABLE ASSEMBLY CIRCUIT SUMMARY

	TO		
CONNE	CTOR J3 - 9 PIN FEMALE	MICRO_D CONNECTOR (PEEK)	
PIN	WIRE NAME	SIGNAL	
B5	(CONNECTOR SHELL)	SHIELD	
B5	(CABLE 2) SHIELD	SHIELD	
В5	(CABLE 2) WIRE 1	SHIELD	
В1	(CABLE 2) WIRE 17	PD2-K	
В6	(CABLE 2) WIRE 5	PD2-A	
B2	(CABLE 2) WIRE 18	LED2-A	
В7	(CABLE 2) WIRE 6	LED2-K	
B4	(CABLE 2) WIRE 19	COIL2-FN	
В9	(CABLE 2) WIRE 7	COIL2-ST	

## V25AM-23-A CABLE ASSEMBLY CIRCUIT SUMMARY TO **CONNECTOR J4 - 9 PIN FEMALE MICRO\_D CONNECTOR (PEEK)** SIGNAL **WIRE NAME** (CONNECTOR SHELL) (CABLE 3) SHIELD SHIELD SHIELD (CABLE 3) WIRE SHIELD PD3-K PD3-A LED3-A LED3-K COIL3-FN COIL3-ST (CABLE 3) WIRE 20 (CABLE 3) WIRE 8 (CABLE 3) WIRE 2 (CABLE 3) WIRE 9 (CABLE 3) WIRE 22 (CABLE 3) WIRE 10

## V25AM-23-A CABLE ASSEMBLY CIRCUIT SUMMARY

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## CONNECTOR J5 - 9 PIN FEMALE MICRO\_D CONNECTOR (PEEK)

PIN	WIRE NAME	SIGNAL
D5	(CONNECTOR SHELL)	SHIELD
D5	(CABLE 4) SHIELD	SHIELD
D5	(CABLE 4) WIRE 1	SHIELD
D1	(CABLE 4) WIRE 23	PD4-K
D6	(CABLE 4) WIRE 11	PD4-A
D2	(CABLE 4) WIRE 24	LED4-A
D7	(CABLE 4) WIRE 12	LED2-K
D4	(CABLE 4) WIRE 25	COIL4-FN
D9	(CABLE 4) WIRE 13	COIL4-ST





VµD25 M/1S-	23-4_µD9 F/5\$:A	
STANDARD USE FOR THIS CABLE		
SUBSYSTEM	STANDARD USE	
SUS	QUAD SUSPENSIONS UIA	

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY I. INTERPRET DRAWING PER ASME Y14.5-1994. CUSTOM CABLE SPECIFICATIONS V25AM-23-A DIMENSIONS ARE IN 2. REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS. **TOLERANCES:** 3. DO NOT SCALE FROM DRAWING. DESIGNER J. HEEFNER MAY/10/2012 SIZE DWG. NO. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE .XX ± DRAFTER E. BROWN MAY/10/2012 .XXX ± AND FREE OF SULFUR, SILICONE, AND CHLORINE. **NEXT ASSY** CHECKER ANGULAR ± ° APPROVAL PROJECTION: SHEET 1 OF 1

1.115in 28.32mm

NOTES: ( UNLESS OTHERWISE SPECIFIED )

A. MATERIAL: a. CONNECTOR SHELL - PEEK - VICTREX 450GL30. b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.

OVERALL PEEK BRAID MIN. 50% COVERAGE (SUPPLIED BY LIGO).

b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.
c. CONTACTS - BERYLLIUM COPPER ALLOY C17300.
0.000050 MIN. GOLD OVER NICKEL

d. HARDWARE: STAINLESS STEEL, PASSIVATED.e. PEEK BRAID - PEEK VICTREX GRADE TDS-450CA30 CARBON LOADED - SUPPLIED BY LIGO.

B. CABLE 7 COND. 28 AWG, (40 STRD 44 AWG) WITH 2 LAYERS OF KAPTON TAPE (SUPPLIED BY LIGO). 3 TWISTED PAIRS (4 TO 5 TWISTS PER INCH) + 1 WIRE. OVERALL 40AWG COPPER BRAID 50% COVERAGE (SUPPLIED BY LIGO).

OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

C. CONNECTORS WILL BE SUPPLIED WITH HARDWARE. SCREWS SHOULD BE THE PROPER LENGTH FOR MATING.