

USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF

THE CONNECTORS AND STRIP LENGTH TO ACHIEVE THE CORRECT OVERALL LENGTHS.: INCLUDE NOM. 40in. LENGTH + STRIP LENGTH +

INTERNAL SERVICE LOOPS + 6in. FOR PIGTAILS.

V-DB	25 M/S1-40,40	-2_QPD		
STANDARD USE FOR THIS CABLE				
SUBSYSTEM	AIR/VAC	STANDARD USE		
ISC	IN-VAC	QPD'S		
		FOR TRANSMON		

APPROVAL

**DRAWING TREE #** 

DCN#

SEE DRAWNING

FOR MOUNTING

1.500in 38.10mm

 $A4^{/}$ 

PIN

**J1 - 1,SHELL** 

J1 - 13

J1 - 25

J1 - 12

J1 - 24

J1 - 11

J1 - 23

J1 - 1,SHELL

J1 - 10

J1 - 22

J1 - 9

J1 - 21

J1 - 8

J1 - 20

PROJECTION:

**A1** S

**TEST LIST** 

TO

PIN

**NOT CONNECTED** 

J2 - A4

J2 - A3

J2 - A2

J2 - A1

J2 - S

J2 - CAT

NOT CONNECTED

J3 - A4

J3 - A3

J3 - A2

J3 - A1

J3 - S

J3 - CAT

DCC#-LIGO-D1002106

**SANDWICHED** 

0.250in 6.35mm

PIN CALLOUT

A. MATERIAL: a. J1 CONNECTOR SHELL - GOLD OVER ELECTRO-LESS NICKEL SELECTIVELY METALIZED PEEK VICTREX 450GL30.

GLENAIR # 600-057 STANDARD BRAID CLAMP or

BAND-IT PART # A31186 (0.120" WIDE) ("BAG OF 100" # A31189)

#4-40 Nitronic 60® HELICOIL 0.336" LENGTH

b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE. c. CONTACTS - BERYLLIUM COPPER ALLOY C17300

0.000050 MIN. GOLD OVER NICKEL.

GLENAIR # 600-057 or

BAND-IT # A31186

HELICOIL #1185-04EN336

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

THE CORRECT OVERALL LENGTHS.

NOTES: (UNLESS OTHERWISE SPECIFIED)

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

\* NOTE: USE WHATEVER LENGTH IS NECESSARY FOR THE INTERNAL WIRING OF THE CONNECTORS AND STRIP LENGTH TO ACHIEVE

B. CABLE 6 COND. 28 AWG, (40 STRD 44 AWG) WITH PFA INSULATION COONER WIRE # CZ1105. OVERALL 40AWG COPPER BRAID 90% COVÉRAGE - SUPPLIED BY LIGO. OVERALL PEEK BRAID MIN. 50% COVERAGE - SUPPLIED BY LIGO.

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

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED) CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY CUSTOM CABLE SPECIFICATION V25T-40 I. INTERPRET DRAWING PER ASME Y14.5-1994. DIMENSIONS ARE IN INCHES 2. REMOVE ALL SHARP EDGES, .005-.015. FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS. SUB-SYSTEM **TOLERANCES:** 3. DO NOT SCALE FROM DRAWING. DESIGNER | R. ABBOTT | MAY/07/2012 SIZE | DWG. NO. 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE .XX ± DRAFTER E. BROWN MAY/07/2012 .XXX ± AND FREE OF SULFUR, SILICONE, AND CHLORINE. **NEXT ASSY** CHECKER ANGULAR ± ° Material <not specified> μinch