

VARIOUS LENGTHS see STANDARD CABLE LENGTH CHART

**V25X-TBD CABLE ASSEMBLY CIRCUIT SUMMARY** 

V-DB25 M/1-TBD-4\_µD9 F/5

		CIRCUIT SUMMARY
	ТО	
CONNE	CTOR J2 - 9 PIN FEMALE M	ICRO_D CONNECTOR (PEEK)
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 1) SHIELD	SHIELD
A5 A1	(CABLE 1) WIRE 1 (CABLE 1) WIRE 14	SHIELD PD1-K
A6	(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
V2	25X CABLE ASSEMBLY	CIRCUIT SUMMARY
	ТО	
CONNE	CTOR J3 - 9 PIN FEMALE MI	CRO_D CONNECTOR (PEEK)
PIN	WIRE NAME	SIGNAL
N/C	(CABLE 2) SHIELD	SHIELD
B5	(CABLE 2) WIRE 1	SHIELD
B1 B6	(CABLE 2) WIRE 17 (CABLE 2) WIRE 5	PD2-K PD2-A
<u>Во</u> В2	(CABLE 2) WIRE 18	LED2-A
B7	(CABLE 2) WIRE 6	LED2-K
B4	(CABLE 2) WIRE 19	COIL2-FN
В9	(CABLE 2) WIRE 7	COIL2-ST
V2	25X CABLE ASSEMBLY	CIRCUIT SUMMARY
	TO	
PIN	WIRE NAME	ICRO_D CONNECTOR (PEEK)  SIGNAL
N/C	(CABLE 3) SHIELD	SHIELD
C5	(CABLE 3) WIRE 1	SHIELD
C1	(CABLE 3) WIRE 20	PD3-K
C6	(CABLE 3) WIRE 8	PD3-A
C2	(CABLE 3) WIRE 21	LED3-A
C7	(CABLE 3) WIRE 9	LED3-K
C4 C9	(CABLE 3) WIRE 22	COIL3-FN COIL3-ST
<u> </u>	(CABLE 3) WIRE 10	COILS-ST
V2	25X CABLE ASSEMBLY	CIRCUIT SUMMARY
	ТО	
CONNE		CRO_D CONNECTOR (PEEK)  SIGNAL
	NATIDE NIA AAE	>1L=IVLI
PIN	WIRE NAME	
PIN N/C	(CABLE 4) SHIELD	SHIELD
PIN		
PIN N/C D5	(CABLE 4) SHIELD (CABLE 4) WIRE 1 (CABLE 4) WIRE 23 (CABLE 4) WIRE 11	SHIELD SHIELD
<b>PIN</b> N/C D5 D1	(CABLE 4) SHIELD (CABLE 4) WIRE 1 (CABLE 4) WIRE 23	SHIELD SHIELD PD4-K

(CABLE 4) WIRE 12

(CABLE 4) WIRE 25

(CABLE 4) WIRE 13

DATE

DCN#

DRAWING TREE #

BILL OF MATERIALS							
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH			
1	TICOD #T00105 2	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK)	1				
2	TICOR #TS0125-3	DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	I				
3	TICOR #TS0094 WITH FLYING LEADS	DB9 (DE9) FEMALE CONNECTOR (J2,J3,J4,J5) FOR UHV (PEEK)	4				
4		DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	4				
<b>(5</b> )	C1	7 COND. (3 TWISTED PAIR) CABLE (ADD COPPER BRAID (SHIELD) 6). AND PEEK OVERBRAID) 7.	4	VARIOUS LENGTHS* see STANDARD CABLE LENGTH CHAR			
6	CONTINENTAL PART #24x3x40BC	COPPER BRAID - CONTINENTAL CORDAGE PART #24x3x40BC	4				
7	PART #6759	PEEK BRAID - PART #6759 MANUFACTURED WITH ZEUS 0.016" BLACK PEEK DRAWN MONOFILAMENT	4				
8	GLENAIR 600-052	GLENAIR 600-052 STANDARD BRAID CLAMP	8				

**0.112in [2.84mm]** 

COPPER BRAID

7 CONDUCTOR 28 AWG

3 TWISTED PAIR

\* NOTE: THE OVERALL LENGTH IS MEASURED FROM BACKSHELL (25 PIN) TO BACKSHELL (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 )

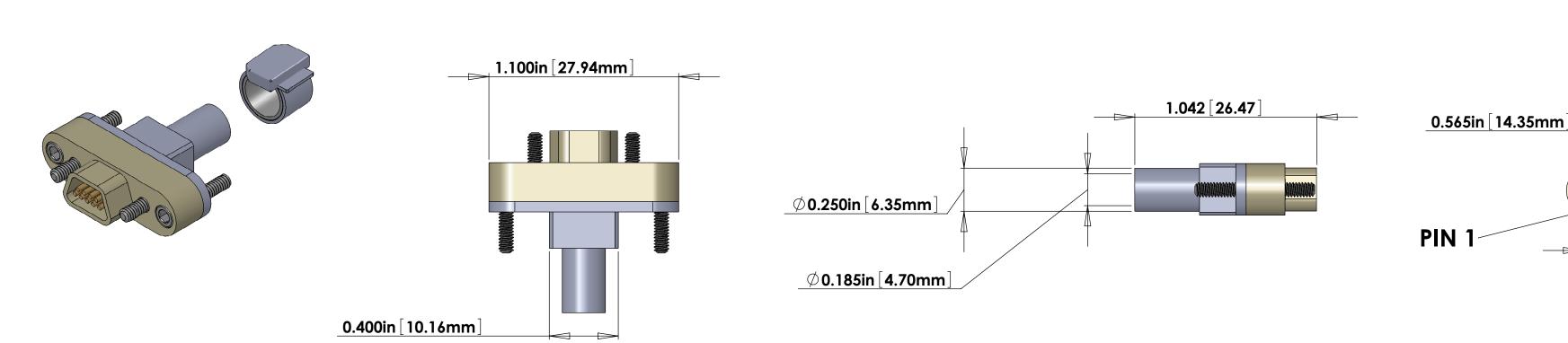
1. MATERIAL: a. CONNECTOR SHELL - PEEK - VICTREX 450GL30. **b. BACKSHELL - STAINLESS STEEL WITH VENT HOLE.** c. CONTACTS - BERYLLIUM COPPER ALLOY C17300 0.000050 MIN. GOLD OVER NICKEL

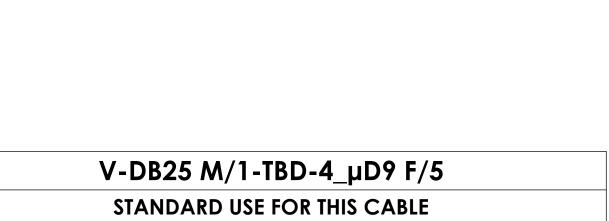
d. HARDWARE: CORROSION RESISTANCE STEEL, PASSIVATED e. PEEK BRAID - PEEK CARBON LOADED - BLACK DRAWN MONOFILAMENT

2. CABLE 7 COND. 28 AWG, (65 STRD 46 AWG) WITH PFA INSULATION COONER WIRE #CZ2205 3 TWISTED PAIRS ( 4 TO 5 TWISTS PER INCH )
OVERALL 40AWG COPPER BRAID 90% COVERAGE OVERALL PEEK BRAID MIN. 50% COVERAGE OVERALL CABLE O.D. WILL BE APPROX. 0.240 IN.

1.852in 47.03mm

2.400in [60.96mm]





0.900in [22.86mm]

SUBSYSTEM

SUS

0.300in 7.62mm

STANDARD USE

QUAD SUSPENSIONS TOP

LED2-K

COIL4-FN

COIL4-ST

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)			7/////	LIFORNIA INICTITUTE OF TECH	INOLOGY	PART NAME								
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER ASME 2. REMOVE ALL SHARP EDGES, .00 EDGES APPROXIMATLEY R.02 FOR	05015. FOR MACHINED PA	arts. round .		ALIFORNIA INSTITUTE OF TECH ASSACHUSETTS INSTITUTE OF	TECHNOLOGY	CU	ISTOM	CABL	E SPEC	IFICATI	ON V2	25X-TE	3D
TOLERANCES:	3. DO NOT SCALE FROM DRAWIN	IG.		SYSTEM	S	UB-SYSTEM	DESIGNER	R. ABBOTT	SEP/20/2011	SIZE DWG. N	Ο.			REV.
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MUST E AND FREE OF SULFUR, SILICONE, A		WATER SOLUB	LE		SUS	DRAFTER	E.BROWN	SEP/20/2011	F	D100	<b>0234</b>		14
ANGULAR±°	MATERIAL		FINISH	NEXT ASSY			CHECKER				D 100	0207	·   \	<i>,</i> –
	Material <not s<="" td=""><td>pecified&gt;</td><td></td><td>μinch</td><td></td><td></td><td>APPROVAL</td><td></td><td></td><td>SCALE: 2:1</td><td>PROJECTION:</td><td><math>\oplus</math></td><td>SHEET 1 C</td><td>)F 1</td></not>	pecified>		μinch			APPROVAL			SCALE: 2:1	PROJECTION:	$\oplus$	SHEET 1 C	)F 1