

PIN WIRE NAME N/C (CABLE 1) SHIELD A5 (CABLE 1) WIRE 1 A1 (CABLE 1) WIRE 14 A6 (CABLE 1) WIRE 2 A2 (CABLE 1) WIRE 15 A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1 C1 (CABLE 3) WIRE 1	SIGNAL SHIELD SHIELD PD1-K PD1-A LED1-A LED1-K COIL1-FN COIL1-ST	WIRE NAME (CABLE 1) SHIELD (CABLE 1) WIRE 1 (CABLE 1) WIRE 14 (CABLE 1) WIRE 2 (CABLE 1) WIRE 15 (CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4
N/C (CABLE 1) SHIELD A5 (CABLE 1) WIRE 1 A1 (CABLE 1) WIRE 14 A6 (CABLE 1) WIRE 2 A2 (CABLE 1) WIRE 15 A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	SHIELD SHIELD PD1-K PD1-A LED1-A LED1-K COIL1-FN COIL1-ST T SUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) SHIELD (CABLE 1) WIRE 1 (CABLE 1) WIRE 14 (CABLE 1) WIRE 2 (CABLE 1) WIRE 15 (CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4
A5 (CABLE 1) WIRE 1 A1 (CABLE 1) WIRE 14 A6 (CABLE 1) WIRE 2 A2 (CABLE 1) WIRE 15 A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) SHIELD	SHIELD PD1-K PD1-A LED1-A LED1-K COIL1-FN COIL1-ST TSUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) WIRE 1 (CABLE 1) WIRE 14 (CABLE 1) WIRE 2 (CABLE 1) WIRE 15 (CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4
A1 (CABLE 1) WIRE 14 A6 (CABLE 1) WIRE 2 A2 (CABLE 1) WIRE 15 A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) SHIELD	PD1-K PD1-A LED1-A LED1-K COIL1-FN COIL1-ST TSUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) WIRE 14 (CABLE 1) WIRE 2 (CABLE 1) WIRE 15 (CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4
A6 (CABLE 1) WIRE 2 A2 (CABLE 1) WIRE 15 A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	PD1-A LED1-A LED1-K COIL1-FN COIL1-ST TSUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) WIRE 2 (CABLE 1) WIRE 15 (CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4
A2 (CABLE 1) WIRE 15 A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	LED1-A LED1-K COIL1-FN COIL1-ST IT SUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) WIRE 15 (CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4 25X CABLE ASSEMBLE
A7 (CABLE 1) WIRE 3 A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	LED1-K COIL1-FN COIL1-ST IT SUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) WIRE 3 (CABLE 1) WIRE 16 (CABLE 1) WIRE 4 25X CABLE ASSEMBLE
A4 (CABLE 1) WIRE 16 A9 (CABLE 1) WIRE 4 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	COIL1-FN COIL1-ST IT SUMMARY CONNECTOR (PEEK) SIGNAL	(CABLE 1) WIRE 16 (CABLE 1) WIRE 4 25X CABLE ASSEMBLE
V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	COIL1-ST IT SUMMARY CONNECTOR (PEEK) SIGNAL	25X CABLE ASSEMBL
V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	IT SUMMARY CONNECTOR (PEEK) SIGNAL	25X CABLE ASSEMBL
TO CONNECTOR J3 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	CONNECTOR (PEEK) SIGNAL	
PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	SIGNAL	T/
PIN WIRE NAME N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	SIGNAL	1
N/C (CABLE 2) SHIELD B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1		ECTOR J3 - 9 PIN FEMALE
B5 (CABLE 2) WIRE 1 B1 (CABLE 2) WIRE 17 B6 (CABLE 2) WIRE 5 B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	SHIELD	WIRE NAME
B1		(CABLE 2) SHIELD
B6	SHIELD	(CABLE 2) WIRE 1
B2 (CABLE 2) WIRE 18 B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	PD2-K	(CABLE 2) WIRE 17
B7 (CABLE 2) WIRE 6 B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	PD2-A	/·
B4 (CABLE 2) WIRE 19 B9 (CABLE 2) WIRE 7 V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	LED2-A	(CABLE 2) WIRE 18
V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	LED2-K	, , , , , , , , , , , , , , , , , , ,
V25X CABLE ASSEMBLY CIRCU TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	COIL2-FN	,
TO CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	COIL2-ST	(CABLE 2) WIRE 7
CONNECTOR J4 - 9 PIN FEMALE MICRO_D PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	IT SUMMARY	25X CABLE ASSEMBI
PIN WIRE NAME N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1		
N/C (CABLE 3) SHIELD C5 (CABLE 3) WIRE 1	CONNECTOR (PEEK SIGNAL	
C5 (CABLE 3) WIRE 1	SHIELD	
	SHIELD	,
CI (C/\DLE 3) WIKE 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 (CABLE 3) WIRE 22	COIL3-FN	
C9 (CABLE 3) WIRE 10	COIL3-ST	,
V25X CABLE ASSEMBLY CIRCU	IT CIIAAAA A DV	25V CADIE ASSEAADI
TO	- JUNIMAKT	

(CABLE 4) WIRE

(CABLE 4) WIRE 23

(CABLE 4) WIRE 11

(CABLE 4) WIRE 24

(CABLE 4) WIRE 12

(CABLE 4) WIRE 25

(CABLE 4) WIRE 13

1.055in [26.80mm]

DATE

DCN#

DRAWING TREE #

	BILL OF MATERIALS						
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	LENGTH			
<u>1</u>	TICOR #TS0125-3	DB25 MALE CONNECTOR (J1) FOR UHV (PEEK) DB25 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	1				
<u>3</u>	TICOR #TS0094 WITH FLYING LEADS	DB9 (DE9) FEMALE CONNECTOR (J2,J3,J4,J5) FOR UHV (PEEK) DB9 CONNECTOR BACKSHELL FOR UHV (STAINLESS)	4				
5	C1	7 COND. (3 TWISTED PAIR) CABLE (ADD COPPER BRAID (SHIELD) 6. AND PEEK OVERBRAID) 7.	4	VARIOUS LENGTHS* see STANDARD CABLE LENGTH CHART			
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 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 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)

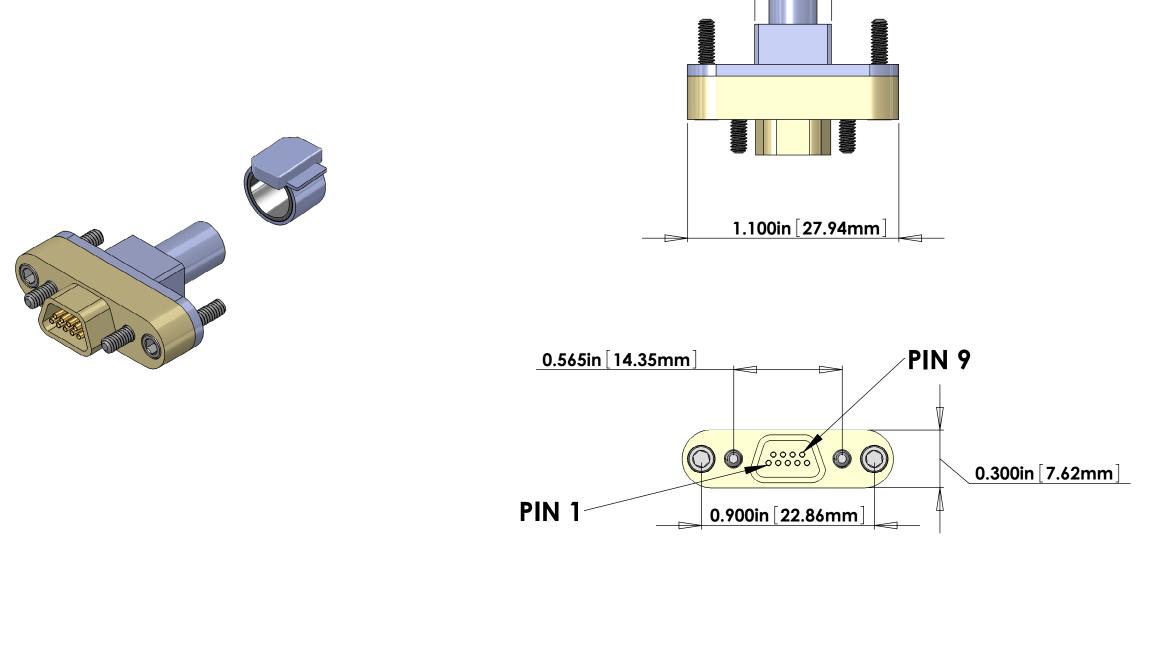
NOTES CONTINUED:

CHARACTERS.

1. MATERIAL: a. CONNECTOR SHELL - PEEK - VICTREX 450GL30.

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

- 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



V-DB25 M	/1-TBD-4_µD9 F/5
STANDARD	USE FOR THIS CABLE
SUBSYSTEM	STANDARD USE

 \emptyset 0.185in [4.70mm]

0.375in 9.53mm

SHIELD

PD4-K

PD4-A

LED4-A

LED2-K

COIL4-FN

COIL4-ST

	NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)		ノリリリ	CALIFORNIA INSTITUTE OF TECHNOLOGY	PART NAM	E				
DIMENSIONS ARE IN	1. INTERPRET DRAWING PER ASME Y14.5-1994. 2. REMOVE ALL SHARP EDGES, .005015. FOR MACHINE	ED PARTS. ROUND ALL	LIGO	CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Cl	JSTOM	CABLE S	SPECIFICATION	V25)	K-TB[
TOLERANCES:	EDGES APPROXIMATLEY R.02 FOR SHEET METAL PARTS. 3. DO NOT SCALE FROM DRAWING.		SYSTEM	SUB-SYSTEM	DESIGNER	R. ABBOTT	OCT/06/2011 SIZE	DWG. NO.		REV.
.XX ± .XXX ±	4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FU AND FREE OF SULFUR, SILICONE, AND CHLORINE.	JLLY WATER SOLUBLE		SUS	DRAFTER	E.BROWN	OCT/06/2011	D10002	34	V
	MATERIAL	FINISH	NEXT ASSY		CHECKER			D 10002	O-T	■ ▼ •
ANGULAR ± °	Material <not specified=""></not>	μinc	h		APPROVAL		SCAL	LE: 2:1 PROJECTION:	- - S	HEET 1 OF 1