

REVISIONS					
ECO	REV	DESCRIPTION	APPROVED	CHECKED	DATE
85-061	01	INITIAL RELEASE			

NOTES:

1. REFER TO MIT DRAWING 85-03020.01 FOR SCHEMATIC. AND FOR REFERENCE ONLY SEE WIRE RUN LIST 85-40801.28
2. CLEAN ITEM IAW MIT SPECIFICATION 85-xxxxxxx
3. WEIGH ASSEMBLY AFTER FINAL FABRICATION. RECORD IN AWO.
4. FABRICATE IAW NASA STD 8739.4
5. FINAL LENGTH TO BE DETERMINED AFTER ENGINEERING EVALUATION.
6. ADD SHRINK TUBING (ITEM 25) TO INCREASE CABLE DIAMETER FOR SNUG FIT INTO CABLE CLAMP.
7. APPLY F/N 31 TO THREADS OF BACK SHELLS F/N 10-16. TIGHTEN AS REQUIRED.
8. DO NOT INSTALL CONTACTS IN UNUSED POSITIONS.
9. PERFORM CONTACT RETENTION TEST ON ALL CONTACTS AFTER INSTALLATION.
10. PERFORM CONTINUITY AND DISCONTINUITY TESTS AFTER CABLE COMPLETION.
11. TYPE LABEL IDENTIFICATION PER TABLE A IN .125 HIGH CHARACTERS USING BRADY MARKER XC PC PLUS PRINTER ROLL FILM (ITEM 24) FOR CABLE MARKING. AT THE DESIRED LOCATION, WRAP 2-3 TIMES WITH GLASS CLOTH TAPE (ITEM 26). PLACE ROLL FILM (ITEM 24) ON GLASS CLOTH TAPE (ITEM 26) WITH MARKING SHOWING & WRAP TWICE WITH TEFLON TAPE (ITEM 44). TRIM OFF EXCESS MATERIALS.
12. MARK LABELS PER TABLE A. CHARACTERS TO BE .125" HIGH, EXACTLY AS SHOWN (EXCEPT SERIAL NUMBER TO BE AS NOTED.)
13. DISCARD HARDWARE SUPPLIED WITH F/N'S 10-16 AND SUBSTITUTE F/N 30 AND 33. HAND TIGHTEN AND SPOTBOND PER NOTE 18.
14. RECORD EPOXIES USED, MIX RATIOS AND EXPIRATION DATES ON "MATERIALS PROCESSING MIXING RECORD" SECTION OF AWO.
15. APPLY IMS LABEL (ITEM 43) TO THE RIGHT OF PART NUMBER LABEL AT THE MIDPOINT OF CABLE. PLACE SO TEXT IS READING IN THE SAME DIRECTION AS CABLE LABEL. COVER WITH 2-3 TURNS OF CLEAR TAPE ITEM 44. TRIM OFF EXCESS.
- 16.
17. APPLY LABEL 27.0 INCHES APART. START AT MIDPOINT OF CABLE AND WORK TOWARDS THE CONNECTORS.
18. MAX ALLOWED PROTURUSION OF SCREW IS TWO THREADS AFTER FINAL TORQUE. CUT AND FILE IS ACCEPTABLE. APPLY F/N 32 OVER EXPOSED THREADS.
19. SERIALIZE TRAINING UNIT STARTING WITH "10x" AND FLIGHT UNIT STARTING WITH "30x".
20. MARK ON CONNECTOR BACKSHELL THE ORIENTATION OF CONNECTOR MAIN KEYWAY USING MARKING INK (ITEM 29).
21. INSTALL WASHER (ITEM 30) AS REQUIRED TO BALANCE PRESSURE ON BACKSHELL CABLE CLAMP SCREWS.
22. LOCATE F/N 54 AT MIDPOINT OF CABLE LEG.
23. LOCATE F/N 54 IN 4 EQUALLY SPACED PLACES STARTING AT P106.

TABLE A

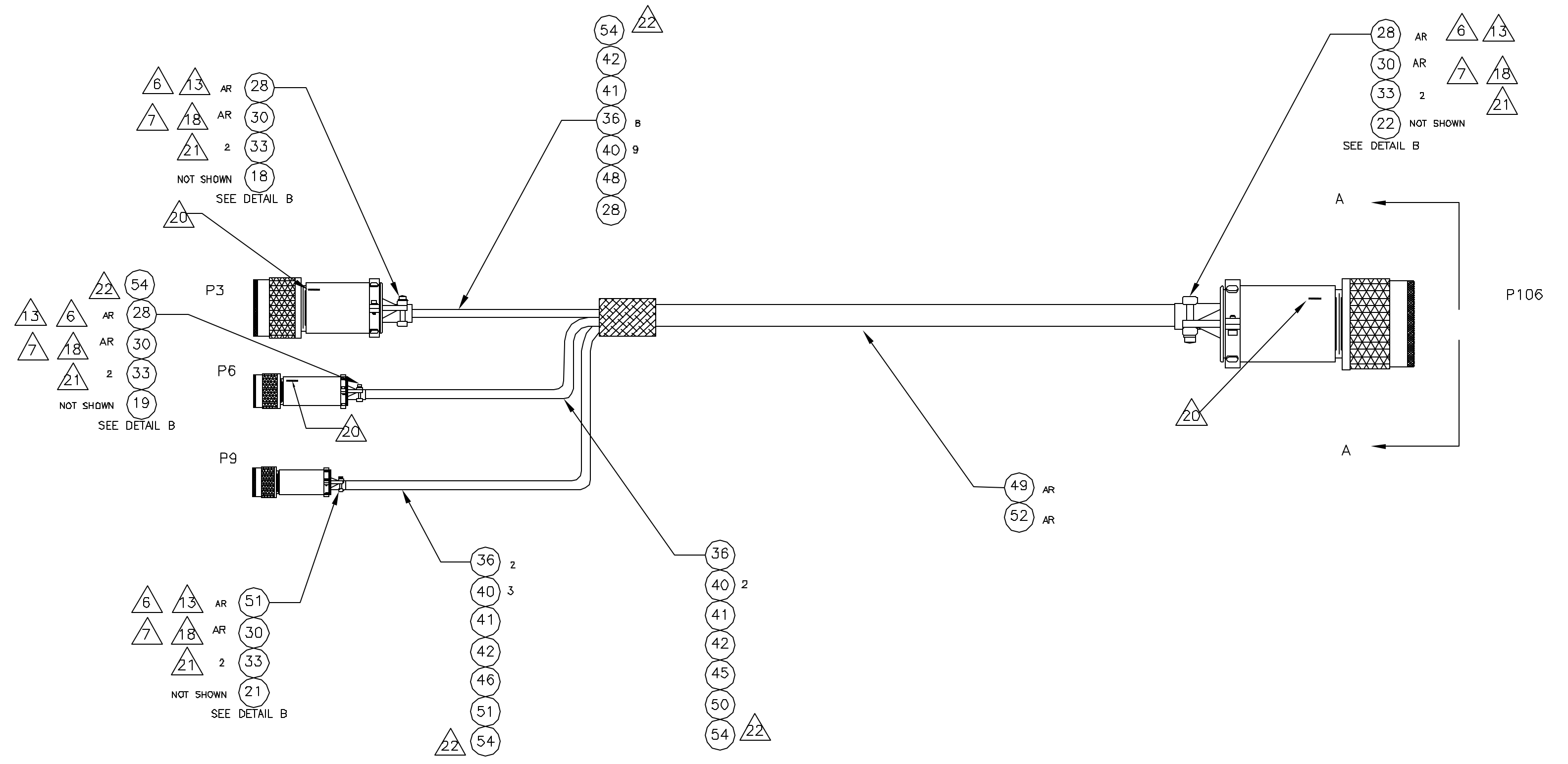
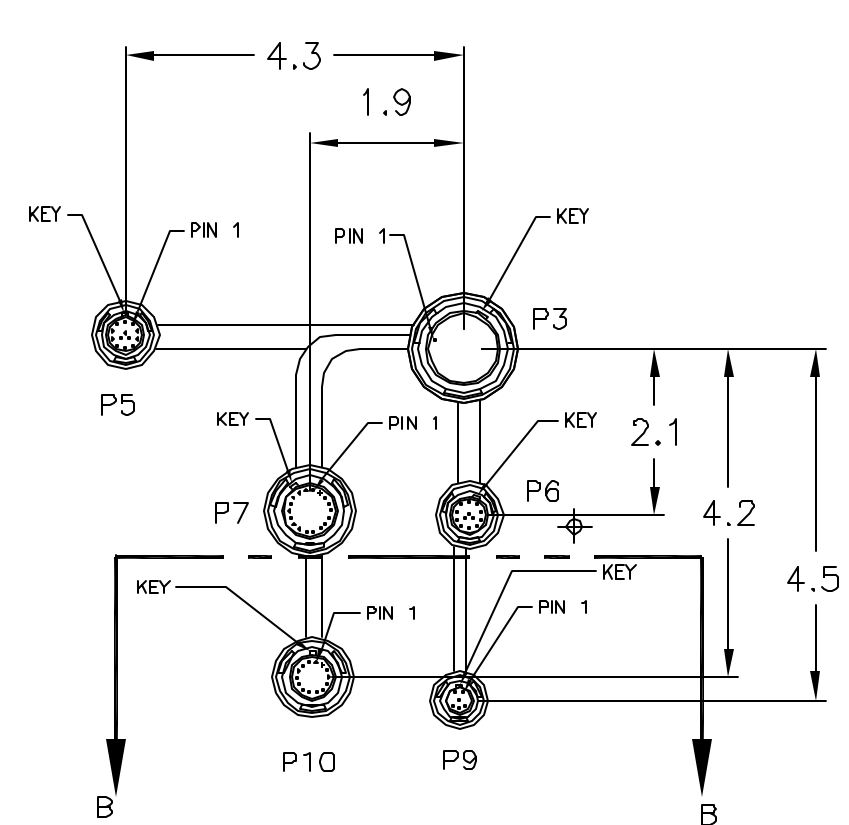
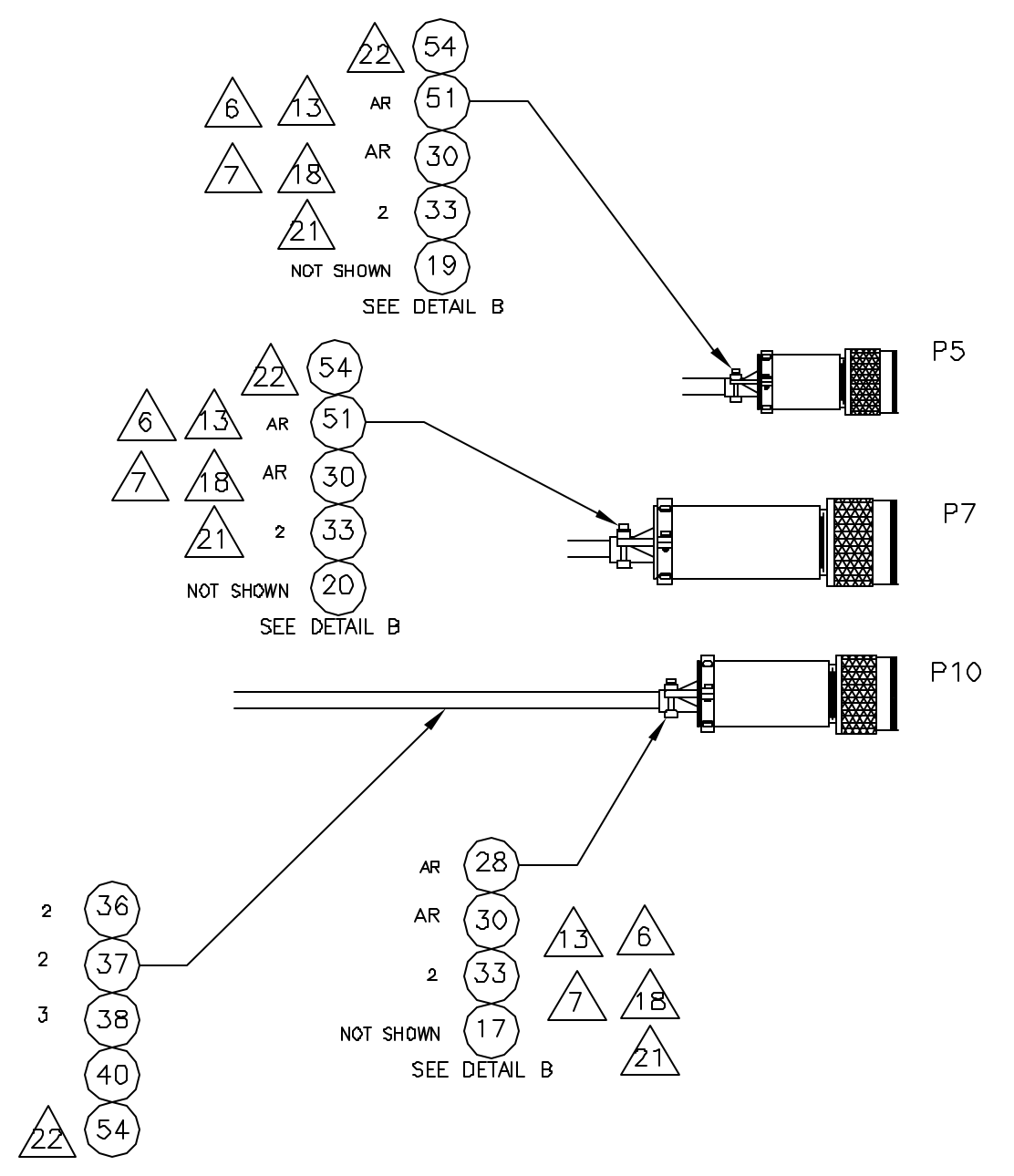
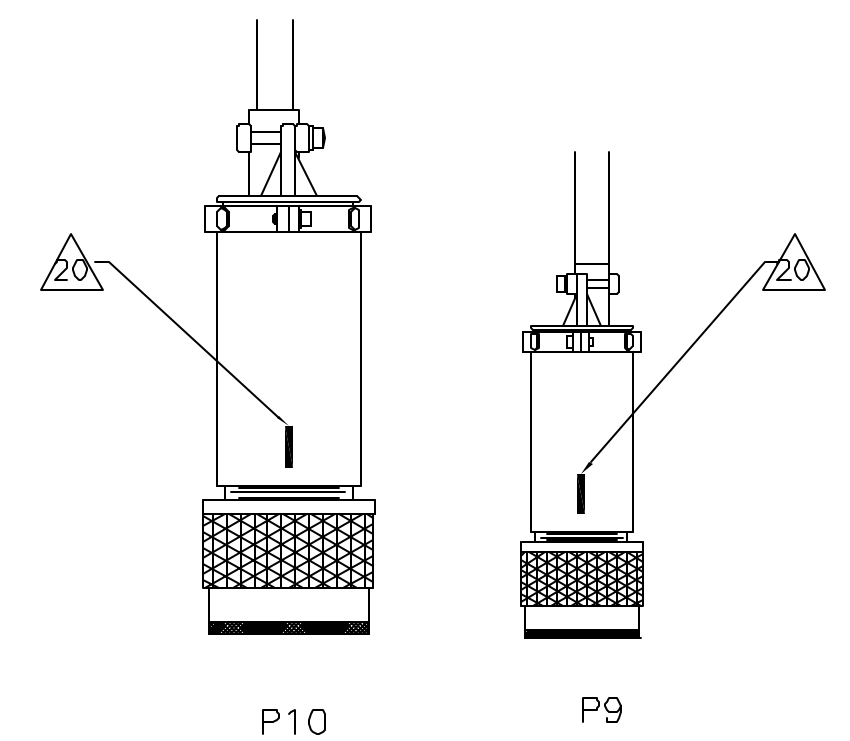
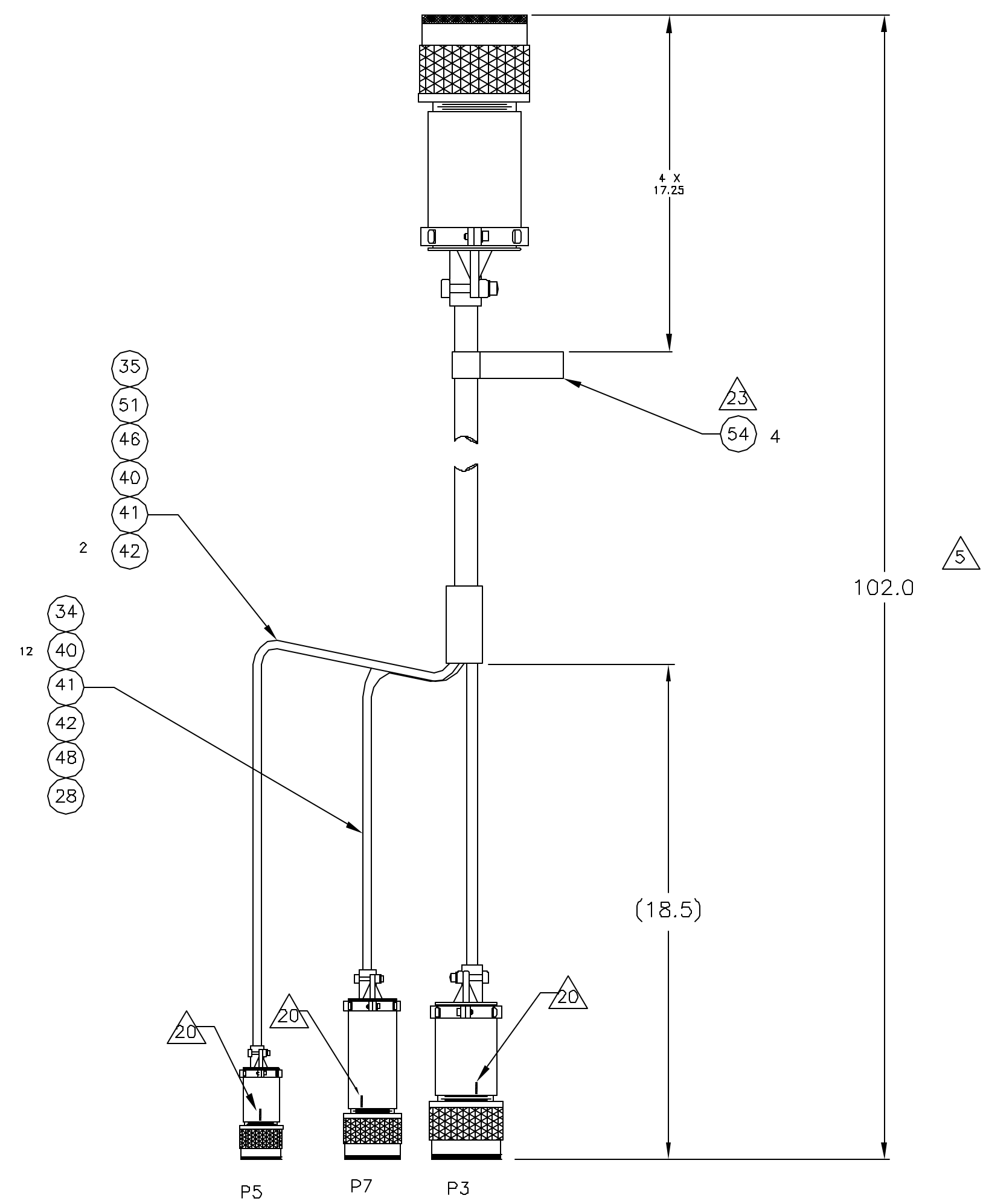
REF	TEXT	QTY
A	P5 To WS2 NTSC/AUDIO J5	1
B	P7 To WS2 RGB VIDEO J7	1
C	P3 To WS2 A/D, D/A, DIO J3	1
D	P6 To WS2 IRIG-B J6	1
E	P9 To WS2 ETHERNET J9	1
F	P10 To WS2 IEEE 1394 J10	1
G	VOILA WS2 Cable P/N 85-40801 S/N YXX 19	3
H	P106 To VOILA EE WS2 J106	1

TABLE B

REF	LENGTH "A" +/- .5
P5	21.5
P7	20.5
P3	18.5
P6	20.5
P9	21.5
P10	21.5

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE: ANGLES +/- 1° 3 PLACE DECIMALS +/- .003 3 PLACE DECIMALS +/- .01		NAME	DATE	Massachusetts Institute of Technology Center for Space Research VOILA	
MATERIAL N/A		DRAWN M. SMITH	FEB 20, 02	CABLE VOILA WS2 (VOILA EE TO WS2)	
FINISH N/A		CHECKED		SIZE D 80230 DWG NO. 85-40801 REV 01	
85-40800	VOILA	APPROVED		SCALE 1:1 SHEET 1 OF 3	
NEXT ASSEMBLY	USED ON	RELEASED			
APPLICATION		CAD FILE			

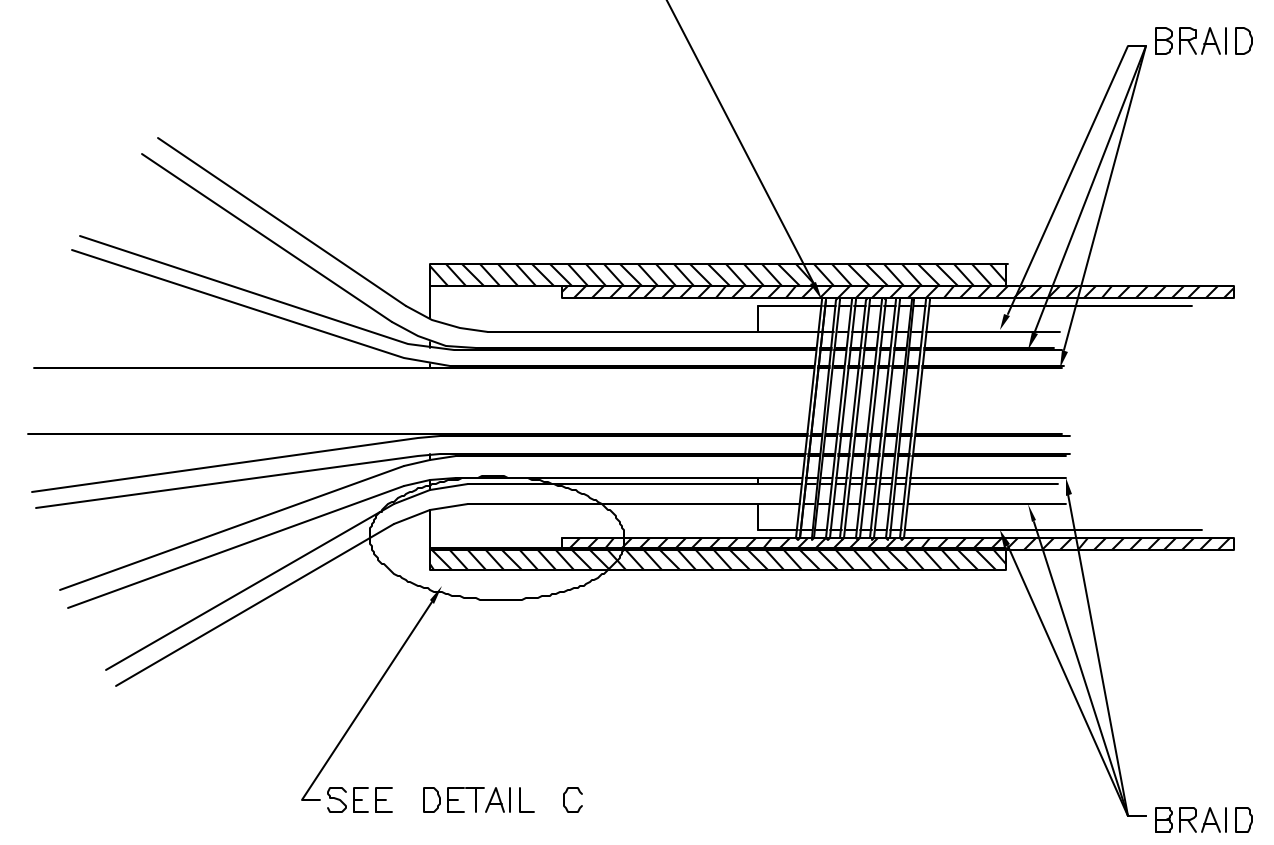
REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		



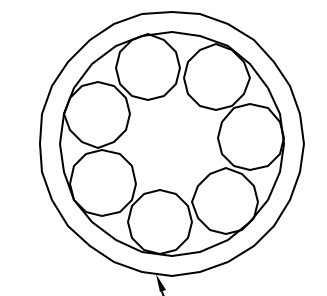
Massachusetts Institute of Technology Center for Space Research VOILA				
CABLE, VOILA WS2 (VOILA EE TO WS2)				
SIZE D	FSCM NO. 80230	DWG NO. 85-40801	REV 01	
SCALE 1:1	SHEET 2 OF 3			

REVISIONS				
ECO	REV	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		

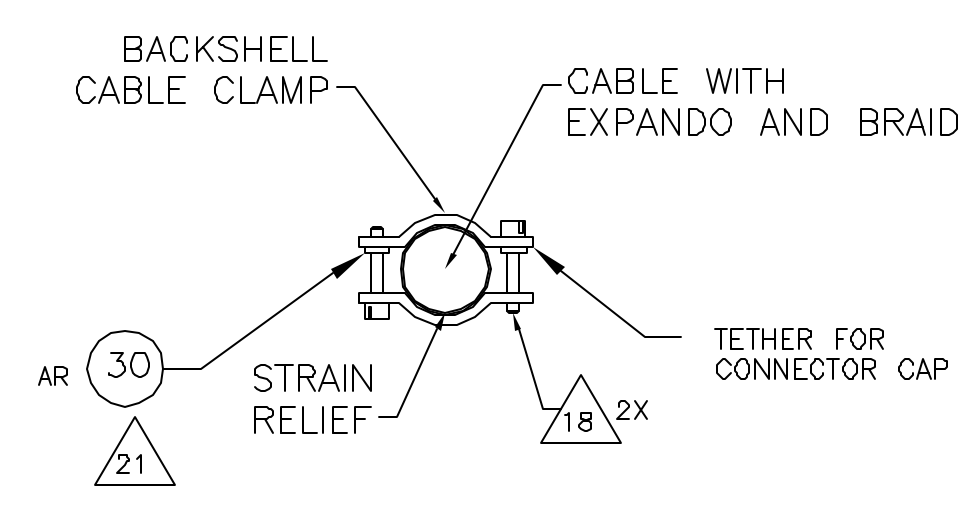
SPLICE SHIELDS(BRAID) WITH 8 TURNS OF BUS WIRE (ITEM XXX) THEN SOLDER.



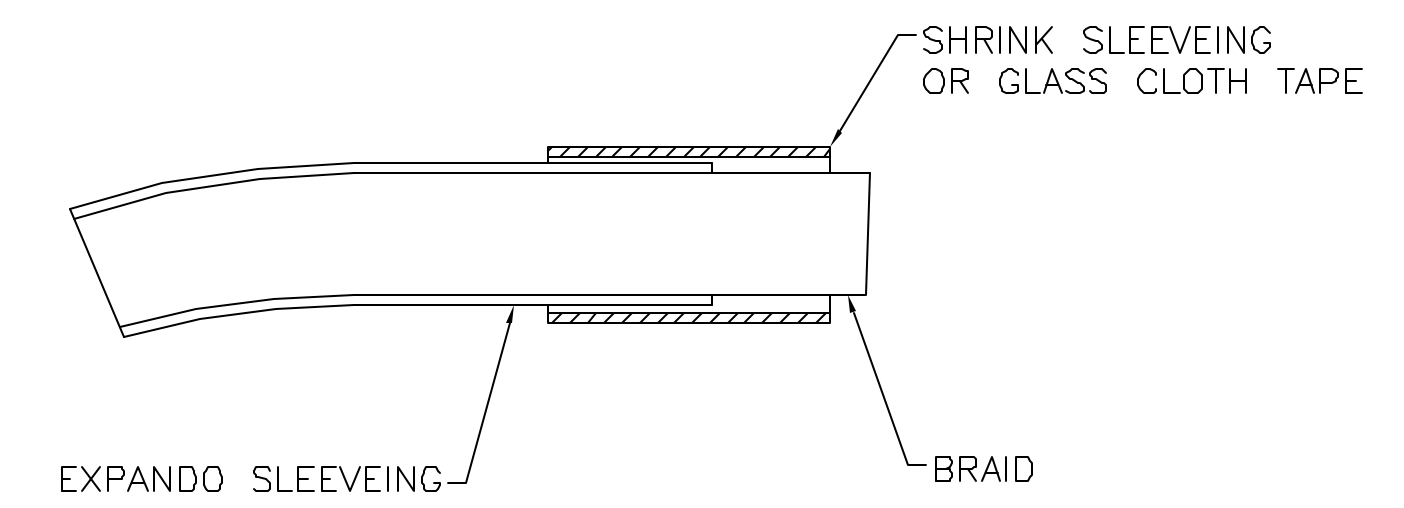
DETAIL A



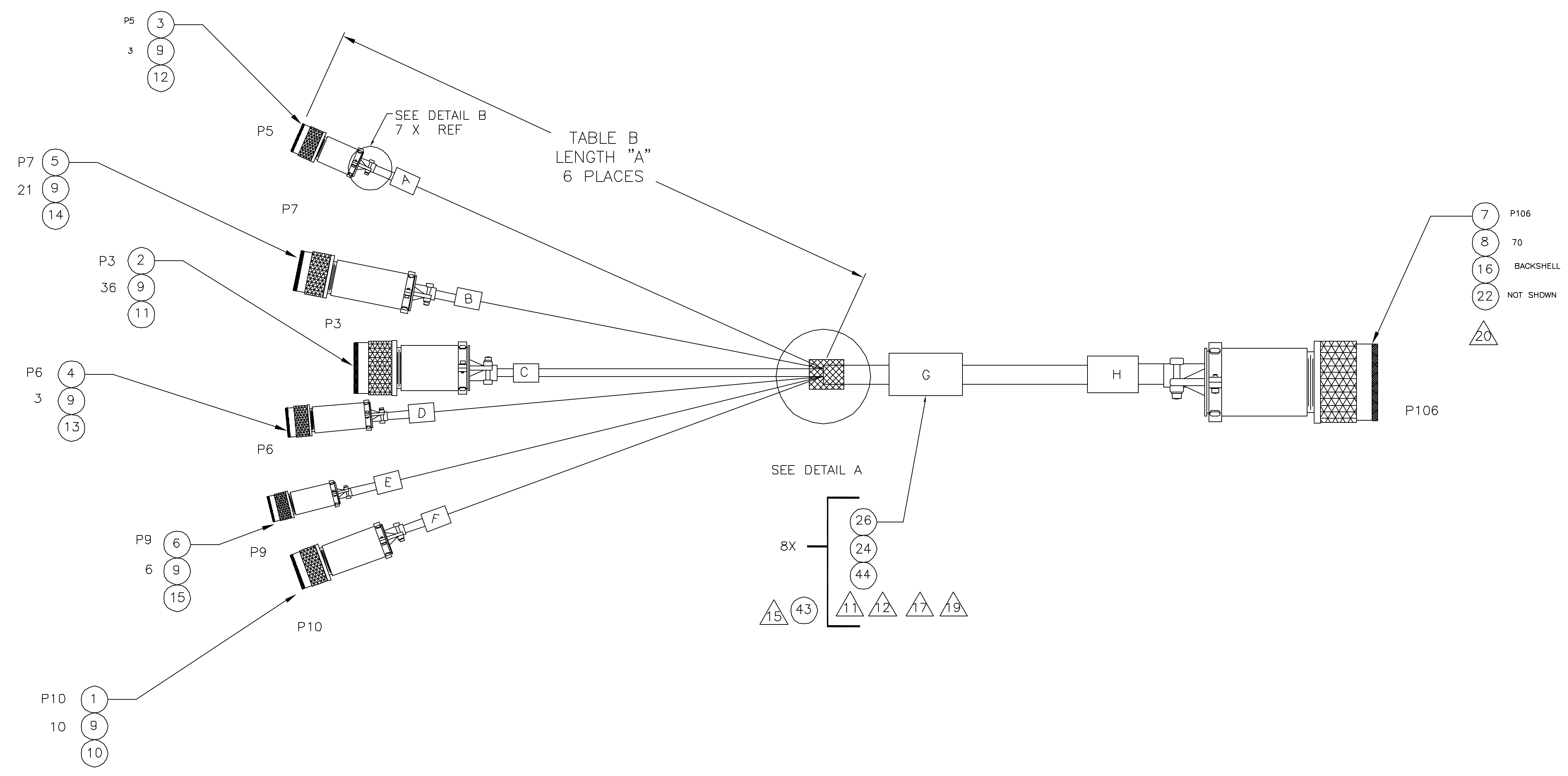
APPLY SHIRINK SLEEVING OR GLASS CLOTH TAPE OVER FINISHED KNOT.



DETAIL B
7X
SOME ITEMS NOT SHOWN FOR CLARITY



DETAIL C
7X
SCALE 6:1



Massachusetts Institute of Technology
Center for Space Research
VOILA

CABLE, VOILA
WS2
(VOILA EE TO WS2)

SIZE D	FSCM NO. 80230	DWG NO. 85-40801	REV 01
SCALE 1:1	SHEET 3 OF 3		