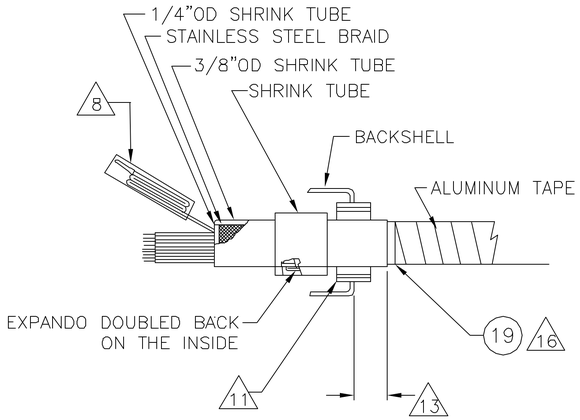
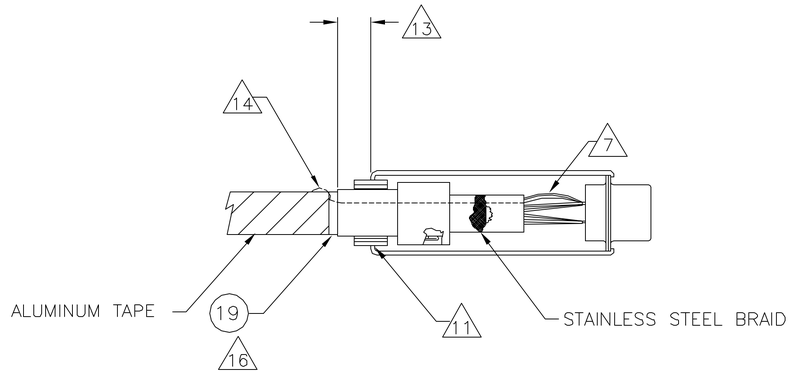
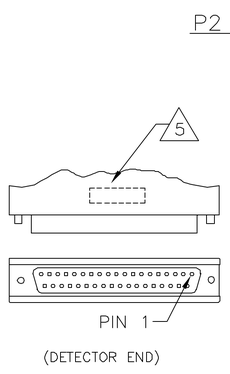
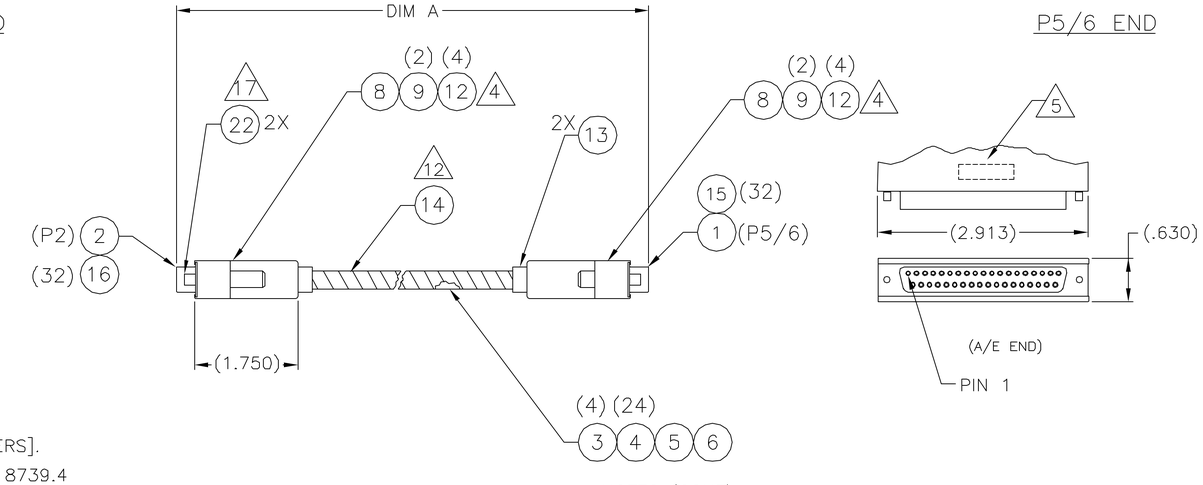
REVISIONS					
REV.	ECO NO.	DESCRIPTION	CHECKED	APPROVED	DATE
A	30-014	RELEASE (from 29-70201_rC)	EAB	RICK F.	12/4/02
B	30-043	REDUCE OVERALL LENGTH			



P2 END







P5/6 END

TABLE I

REFERENCE DESIGNATION MARKING			
ASSY PART NO.	CONNECTOR F/N		DIM A in (mm) Tol +2.0/-0.0 "
	DETECTOR END	AE/TCE END	
30-70201	W5AP2	W5AP5	67.3 [1710]
30-70202	W5BP2	W5BP6	66.3 [1685]
30-70203	W20AP2	W20AP5	51.8 [1315]
30-70204	W20BP2	W20BP6	63.2 [1605]

NOTES:

1. DIMENSION SHOWN ARE IN INCHES [MILLIMETERS].
2. INSTALL AND TEST CONTACTS PER NASA STD 8739.4
3. REFER TO 30-05020.01 FOR SCHEMATIC WIRING LIST.
4. DISCARD HARDWARE SUPPLIED WITH F/N 8 AND SUBSTITUTE WITH F/N 12. HAND TIGHTEN HARWARE. SPOTBOND WITH F/N 10.
5. STAMP CONNECTORS AS SHOWN IN TABLE 1, .25 HIGH CHARACTERS WITH F/N 11
6. CLEAN AND HANDLE IAW 30-01312.
7. CRIMP 7 STRANDS OF SHIELDING (F/N 5) AND ALUMINUM TAPE (F/N 14) DRAIN WIRE INTO CONTACT, (SET TOOL AT SEL #4). INSERT INTO CONNECTOR POSITION 36.
8. CRIMP 7 STRAND OF SHIELDING (F/N 5) INTO CONTACT (SET TOOL AT SEL #4). COVER 1 IN. LENGTH WITH SHRINK TUBING (F/N 23) AND LEAVE INSIDE OF BACKSHELL.
9. SET CRIMP TOOL AT SEL #4 FOR 26 AWG WIRE.
10. PERFORM PULL TESTS FOR CRIMP TOOL QUALIFICATIONS USING G-10-P1 OR G-10-S1 CONTACTS (NOT CONTACTS SUPPLIED WITH CONNECTORS).
11. ADD SHRINK TUBE TO INCREASE DIAMETER OF THE CABLE FOR A SNUG FIT TO PROVIDE STRAIN RELIEF.
12. START SPIRAL WRAP .38 +/-.12 FROM BACKSHELL. WRAP TO HAVE 50% OVERLAP.
13. SHRINK TUBING TO END AT .38 MAX FROM END OF BACKSHELL.

NOTES (CONT):

14. TERMINATION OF F/N 14
    - -SOLDER F/N 18 TO F/N 17.
    - -WRAP F/N 17 AROUND ALUMINUM TAPE F/N 14 .50 FROM BACKSHELL.
    - -ROUTE WIRE THROUGH SHRINK TUBE AT BACKSHELL AND JOIN WITH 1 WEAVE (13 STRANDS OF F/N 5).
    - -CRIMP BOTH INTO CONTACT, SET TOOL TO '4'.
    - -INSERT CONTACT INTO POSITION 36.
    - -COVER F/N 17 WITH F/N 19.
15. PERFORM CONTACT RETENTION TEST AFTER CONTACTS HAVE BEEN INSTALLED IN THE CONNECTORS.
16. ENCLOSE ENDS OF ALUMINUM TAPE WITH F/N 19.
17. DISCARD HARDWARE WITH F/N 8 AND SUBSTITUE WITH F/N 22. P2 END ONLY.

	NAME	DATE
DRAWN	M. SMITH	9/17/02
CHECKED	EAB	12/4/02
APPROVED	RICK F.	12/4/02
RELEASED	D. GAGE	12/4/02
WEIGHT		

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS SHALL BE INTERPRETED IAW ANSI Y14.5 - 1982
DIMENSIONS ARE IN INCHES
TOLERANCE: ANGLES ±1°
3 PLACE DECIMALS ±.005
2 PLACE DECIMALS ±.01
THIRD ANGLE PROJECTION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
CENTER FOR SPACE RESEARCH
CAMBRIDGE, MA 02139

FLIGHT CABLE ASSY, CCD SIGNAL W5A, W5B, W20A, W20B

SIZE	CAGE CODE	DWG. NO.	REV.
D	80230	30-70201	B

SCALE NONE | SHEET 1 OF 1