

- C. WIRE MIL-W-16878/4 OR MIL-W-22759/11 OR /44.
- D. SHIELDING P/N QQB575R34T781 PER QQ-B-575 FROM HOUSING TO CONNECTOR P2. P/N QQB575R34T203 PER QQ-B-575 CABLE JUNCTION TO CONNECTOR P3. TWISTED PAIR SHIELDING PER QQ-B-575 OR EQUIVALENT.
- E. SLEEVING MIL-DTL-25053/13.
- F. CABLE JACKET BENTLEY HARRIS (CAGE CODE 81851) EXPANDO FR DM SLEEVING.

HERMETIC SEALED PAVE-Seal REQUIREMENTS:

- A. MEDIA TO BE SEALED AIR, UP TO 67 PSI.
- B. TEMP REQUIREMENTS -40°C TO 125°C
- C. VOLTAGE/AMPERAGE DUTY CYCLE 200VDC/9.2A DC.
- D. LEAK RATE  $\leq$  5 X 10<sup>-6</sup>CC/SEC HELIUM AT 1 ATM, 25°C.
- E. BULKHEAD THICKNESS APPROXIMATELY 0.10 INCHES.
- TEST REQUIREMENTS:
  - A. VERIFY RESISTANCE  $< 50 \text{m}\Omega$  FOR EACH WIRE. USE 4-WIRE MEASUREMENT METHOD FROM STRIPPED WIRE END TO CONNECTOR PIN OR PIN TO PIN AS APPROPRIATE.
  - B. BONDING RESISTANCE SHALL BE  $< 2.0 \text{m}\Omega$  FROM CABLE SHIELDING TO PAVE-Seal HOUSING AND SHIELDING TO BACKSHELL.
  - C. HIPOT TEST AT 630VDC FOR 0.01 SEC MIN., VERIFY RESISTANCE  $\geq$  500M $\Omega$ , WIRE TO WIRE AND HOUSING, WITH MATING CONNECTORS.
  - D. THERMAL CYCLE -40°C TO 125°C WITH 1 HOUR DWELL AT TEMPERATURE EXTREMES, 3
  - E. VERIFY LEAK RATE:  $\leq 5 \times 10^{-6}$  CC/SEC HELIUM AT 1 ATM, 25° C MAX.

10\ ATTACH SHIELDING AND JACKETING USING RETAINING SPRING SUPPLIED WITH BACKSHELL.

11. IDENTIFY WIRE LEADS WITH BRADY MARKERS PER SCHEMATIC PAGE 2 WITHIN 1 INCH OF WIRE ENDS.

 $\sqrt{12}$  CABLE TO BE SHIELDED FROM PAVE—Seal HOUSING TO BACKSHELL. CABLE TO BE JACKETED FROM BACKSHELL SPRING CLAMP TO WITHIN 0.55 FROM PAVE-Seal HOUSING.

13\ CABLE SHIELD TO BE CLAMPED BETWEEN TWO PIECE PAVE—Seal HOUSING.

OPTIONAL URETHANE BOOT TO FIT WITHIN VOLUME INDICATED. BOOT TO BE UNDER SHIELDING.

SHIELD TO BE FASTENED USING NASM20426AD3-4 OR EQUIVALENT. ALTERNATIVELY, CRES THREADED FASTENERS MAY BE USED WITH A LOCKING DEVICE.

SLEEVE SHIELD BEADS.

CABLE BUNDLE SHALL BE TWISTED WITH 2 TO 3 TURNS PER FOOT.

SHIELD AND JACKET FOR CABLE BREAKOUT TO CONNECTOR P3 SHALL RUN UNDER THE MAIN CABLE SHIELD FOR A MINIMUM DISTANCE OF 2 INCHES.

WRAP THE SEAM BETWEEN THE SHIELDING AND THE JACKETING ONCE WITH FIBERGLASS TAPE 4617-1/2W, ADHERING WITH URETHANE.

/20\ no end—strip this end.

ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE  $\pm$ 0.5 .X DECIMAL  $\pm$ 0.1 .XX DECIMAL  $\pm$ 0.02 .XXX DECIMAL  $\pm$ 0.005 ANGLES  $\pm$ 0.1 DEG SURFACE FINISH 128 microinch RMS



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PART NUMBER 230 REVISON LEVEL PROJECTION 0