NOTES:

1. LASER MARK ON BACK SIDE OF P1 BACKSHELL (NOT THE COVERPLATE) WITH 1.0 mm MINIMUM HIGH CHARACTERS THE TEXT SHOWN IN TABLE 1. (THE VENDOR DESIGNATION AND THE STARTING SERIAL NUMBER SHALL BE IN ACCORDANCE WITH THE VALUES PROVIDED IN THE PURCHASE ORDER). LABEL INDIVIDUAL CABLE ENDS AS SHOWN.

2. ALL DIMENSIONS IN mm.

3. LENGTH TOLERANCE IS ±1.0 mm EXCEPT AS NOTED.

ON J1-J7, USE AN 8mm ±1mm LENGTH OF 1.2mm I.D. HEATSHRINK, ITEM 7, ON THE INSULATION OF EACH INDIVIDUAL WIRE TO ENSURE A GOOD SEAL WITH THE CONNECTOR HOUSING.

5. USE MANUFACTURER SPECIFIED TOOLING FOR ITEMS 1, 4, AND 5.

6. STRIP CABLE JACKET AND WIRE INSULATION PER NASA-STD-8739.4A, SECTION 10. (TMT.CTR.TEC.16.052.DRF01)

7. CRIMP AND INSPECT ITEM 5 PER JST “PRECAUTION FOR CRIMPING PROCESS.” (TMT.CTR.TEC.16.051.DRF01)

8. CRIMP AND INSPECT ITEM 5 PER JST “PRECAUTION FOR CRIMPING PROCESS.” (TMT.CTR.TEC.16.051.DRF01)

9. CRIMP AND INSPECT ITEM 5 PER JST “PRECAUTION FOR CRIMPING PROCESS.” (TMT.CTR.TEC.16.051.DRF01)

10. WIPE PULLOUT TEST: VALIDATE CRIMPING PROCESSES PER NASA-STD-8739.4A, SECTION 12. (TMT.CTR.TEC.16.052.DRF01)

11. CONTACT RETENTION TEST: 100% OF CONTACTS SHALL BE PUSH TESTED FOR SEATING PER NASA-STD8739.4A SECTION 13. (TMT.CTR.TEC.16.052.DRF01)

12. SPOT TIE CABLE BUNDLE TOGETHER UNDER BLACK HEAT SHRINK AS NEEDED USING ITEM 12.

13. USE FUSION WRAP, ITEM 11, AS NEEDED TO BUILD UP DIAMETER OF THE WIRE BUNDLE FOR THE STRAIN RELIEF INSIDE OF THE P1 CABLE Clamp, ITEM 3.

14. EACH CABLE SHALL BE 100% ELECTRICALLY TESTED.

- CONNECTION RESISTANCE LESS THAN 0.5 OHMS.
- INSULATION RESISTANCE MORE THAN 5 MÖHMMS.

15. P1 BACKSHELL SUPPORTS CABLE EGRESS FROM EITHER SIDE. ASSEMBLE AS SHOWN.

16. ALTERTNE JST CONTACT SWPR-001T-P025 (TIN FINISH) CAN BE USED WITH TMT PERMISSION.

17. SILICONE INTERFACE SEAL (INCLUDED WITH ITEM 1) TO BE INSTALLED ON MATING FACE OF CONNECTOR P1.

18. ALL CONNECTOR PINS SHALL BE FITTED TO CONNECTOR P1 EVEN IF NOT USED FOR CONNECTIVITY.

19. INSTALL SEALING PLUGS, ITEM 13, IN CONNECTOR P1, ITEM 1, IN ALL UNUSED LOCATIONS (1, 6, 11, 16, 19, 24, 29, 36, AND 37).

FOR PRODUCTION

CABLE ASSEMBLY, WARPing HArNESS MOTOR HYDRA

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### TABLE 1: CABLE MARKING TEXT

| LINE 1 | WARPPING HARNESS MOTOR HYDRA | 10398530-L REV M |
| LINE 2 | S/N NNN-XXXXX |

WHERE L IS THE DASH NUMBER FROM THE PARTS LIST, M IS THE CURRENT REVISION, NNN IS A 3-LETTER VENDOR DESIGNATION (ASSIGNED BY TMT) AND XXXXX IS A UNIQUE SERIAL NUMBER FOR EACH CABLE ASSEMBLY.

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**LEGEND**

- AL = ADHESIVE LINED
- AR = AS REQUIRED
- EQUIV. = EQUIVALENT
- PBT = POLYBUTYLENE TEREPTHALATE
- PTFE = POLYTETRAFLUOROETHYLENE
- POS = POSITION
- QL = QUICK LOCK
- REC = RECEPTACLE
- SOC = SOCKET
- UJ = UNSHIELDED JACKETED

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<th>QTY REQD</th>
<th>ITEM NO</th>
<th>REF DES</th>
<th>CAGE CODE</th>
<th>PART OR IDENTIFYING NO</th>
<th>NOMENCLATURE OR DESCRIPTION</th>
<th>SPECIFICATION</th>
<th>MATERIAL OR NOTE</th>
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<td>P1</td>
<td>4737-37-0-0</td>
<td>SEALING PLUG</td>
<td>POSITRONIC</td>
<td>PTFE</td>
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<td>LTN-4C OR EQUIV.</td>
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<td>NYLON</td>
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**PARTS LIST**