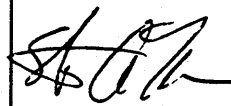
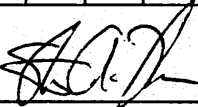
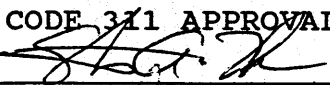


| REVISIONS |                               |        |                                                                                     |
|-----------|-------------------------------|--------|-------------------------------------------------------------------------------------|
| SYMBOL    | DESCRIPTION                   | DATE   | APPROVAL                                                                            |
| C         | Contact procurement clarified | 6/7/91 |  |

| SHEET REVISION STATUS |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| SH                    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REV                   | C  | B  | C  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| SH                    | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REV                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

|                                                                                                                  |                |                                                                                        |
|------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------|
| ORIGINATOR<br>S.A Naus/GSFC   | DATE<br>6/7/91 | FSC: 5935                                                                              |
| APPROVED<br>W.B. Thomas/GSFC  | 6-7-91         | CONNECTORS. ELECTRICAL,<br>POLARIZED SHELL,<br>RACK AND PANEL, FOR<br>SPACE FLIGHT USE |
| CODE 311 APPROVAL<br>         | 6/7/91         |                                                                                        |
| CODE 311 SUPERVISORY APVL<br> | 6/7/91         |                                                                                        |
| ADDITIONAL APPROVAL                                                                                              |                | S-311-P-4/09                                                                           |

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
GODDARD SPACE FLIGHT CENTER  
GREENBELT, MARYLAND 20771

CAGE CODE: 25306

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The requirements for acquiring the product described herein shall consist of this specification and Goddard Space Flight Center Parts Branch Specification S-311-P-4.

REQUIREMENTS: The connectors shall conform to the design standards (MS number) indicated in table I.

TABLE I. DESIGN STANDARDS 1/

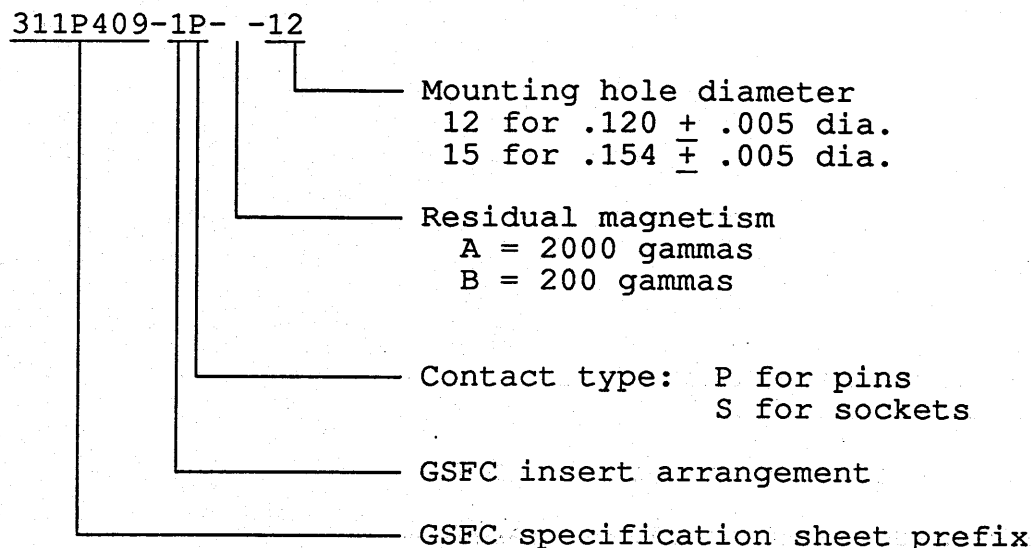
| Connector-type<br>Designation <u>2/</u> | Shell<br>size | Shell<br>MS<br>number | GSFC<br>insert<br>number | Insert<br>MS<br>number<br><u>3-</u> | Contact<br>Part<br>Number<br><u>4-</u> |
|-----------------------------------------|---------------|-----------------------|--------------------------|-------------------------------------|----------------------------------------|
| 311P409-1P-B-12                         | 1             | MS18271-1             | -1                       | MS18273-1                           | G10P1                                  |
| 311P409-1P-B-15                         | 1             | MS18271-1*            | -1                       | MS18273-1                           | G10P1                                  |
| 311P409-2P-B-12                         | 2             | MS18271-2             | -2                       | MS18274-1                           | G10P1                                  |
| 311P409-2P-B-15                         | 2             | MS18271-2*            | -2                       | MS18274-1                           | G10P1                                  |
| 311P409-3P-B-12                         | 3             | MS18271-3             | -3                       | MS18275-1                           | G10P1                                  |
| 311P409-3P-B-15                         | 3             | MS18271-3*            | -3                       | MS18275-1                           | G10P1                                  |
| 311P409-4P-B-12                         | 4             | MS18271-4             | -4                       | MS18276-1                           | G10P1                                  |
| 311P409-4P-B-15                         | 4             | MS18271-4*            | -4                       | MS18276-1                           | G10P1                                  |
| 311P409-5P-B-12                         | 5             | MS18271-5             | -5                       | MS18277-1                           | G10P1                                  |
| 311P409-5P-B-15                         | 5             | MS18271-5*            | -5                       | MS18277-1                           | G10P1                                  |
| 311P409-1S-B-12                         | 1             | MS18270-1             | -1                       | MS18273-1                           | G10S1                                  |
| 311P409-1S-B-15                         | 1             | MS18270-1*            | -1                       | MS18273-1                           | G10S1                                  |
| 311P409-2S-B-12                         | 2             | MS18270-2             | -2                       | MS18274-1                           | G10S1                                  |
| 311P409-2S-B-15                         | 2             | MS18270-2*            | -2                       | MS18274-1                           | G10S1                                  |
| 311P409-3S-B-12                         | 3             | MS18270-3             | -3                       | MS18275-1                           | G10S1                                  |
| 311P409-3S-B-15                         | 3             | MS18270-3*            | -3                       | MS18275-1                           | G10S1                                  |
| 311P409-4S-B-12                         | 4             | MS18270-4             | -4                       | MS18276-1                           | G10S1                                  |
| 311P409-4S-B-15                         | 4             | MS18270-4*            | -4                       | MS18276-1                           | G10S1                                  |
| 311P409-5S-B-12                         | 5             | MS18270-5             | -5                       | MS18277-1                           | G10S1                                  |
| 311P409-5S-B-15                         | 5             | MS18270-5*            | -5                       | MS18277-1                           | G10S1                                  |

See footnotes at end of table

FOOTNOTES:

- 1/ These connector designated as P (for Pins) shall mate with the corresponding connector designated as S (for Sockets).
- 2/ Connectors consist of the following type designation:

Connector-type designation example:



- 3/ MS numbers identified with an asterick (\*) shall have shell design and dimension in accordance with the MS number listed except that the mounting holes shall be 0.154 ± .005 in diameter.
- 4/ The contacts specified herein are found on GSFC S-311-P-4/10 specification. The contact insertion/extraction tool applicable to these connector is M81969/1-02. Contacts are not supplied with connectors specified herein and must be procured separately.