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 S.A Naus/GSFC	DATE 6/7/91	FSC: 5935
APPROVED W.B. Thomas/GSFC	6-7-91	CONNECTORS. ELECTRICAL, POLARIZED SHELL, RACK AND PANEL, FOR SPACE FLIGHT USE
CODE 311 APPROVAL	6/7/91	
CODE 311 SUPERVISORY APVL	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

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 Designation 2/	Shell size	Shell MS number	GSFC insert number	Insert MS number 3—	Contact Part Number 4—
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 coresponding connector designated as S (for Sockets).

2/ Connectors consist of the following type designation:

Connector-type designation example:

311P409-1P- -12

- -12: Mounting hole diameter
  - 12 for .120 ± .005 dia.
  - 15 for .154 ± .005 dia.
- - (before -12): Residual magnetism
  - A = 2000 gammas
  - B = 200 gammas
- P: Contact type: P for pins, S for sockets
- 1: GSFC insert arrangement
- 311P409: GSFC specification sheet prefix

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.

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

SHEET REVISION STATUS

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REV																				

ORIGINATOR S.A Naus/GSFC	DATE 6/7/91	FSC: 5935
APPROVED W.B. Thomas/GSFC	8-7-91	CONNECTORS. ELECTRICAL, POLARIZED SHELL, RACK AND PANEL, FOR SPACE FLIGHT USE
CODE 311 APPROVAL	6/7/91	
CODE 311 SUPERVISORY APVL	6/7/91	
ADDITIONAL APPROVAL		S-311-P-4/09

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
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CAGE CODE: 25306

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TABLE I. DESIGN STANDARDS 1/

Connector-type Designation 2/	Shell size	Shell MS number	GSFC insert number	Insert MS number 3—	Contact Part Number 4—
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 coresponding connector designated as S (for Sockets).

2/ Connectors consist of the following type designation:

Connector-type designation example:

311P409-1P- -12

- -12: Mounting hole diameter
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  - 15 for .154 ± .005 dia.
- - (after 1P): Residual magnetism
  - A = 2000 gammas
  - B = 200 gammas
- P: Contact type: P for pins, S for sockets
- 1: GSFC insert arrangement
- 311P409: GSFC specification sheet prefix

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.

REVISIONS			
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C	Contact procurement clarified	6/7/91	

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ORIGINATOR S.A Naus/GSFC	DATE 6/7/91	FSC: 5935
APPROVED W.B. Thomas/GSFC	6-7-91	CONNECTORS. ELECTRICAL, POLARIZED SHELL, RACK AND PANEL, FOR SPACE FLIGHT USE
CODE 311 APPROVAL	6/7/91	
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
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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
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311P409-5S-B-12	5	MS18270-5	-5	MS18277-1	G10S1
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