


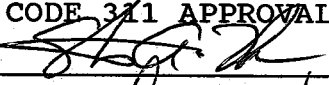



REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVAL
C	Contact procurement clarified	6/7/91	

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 PAGE 1 OF 3

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

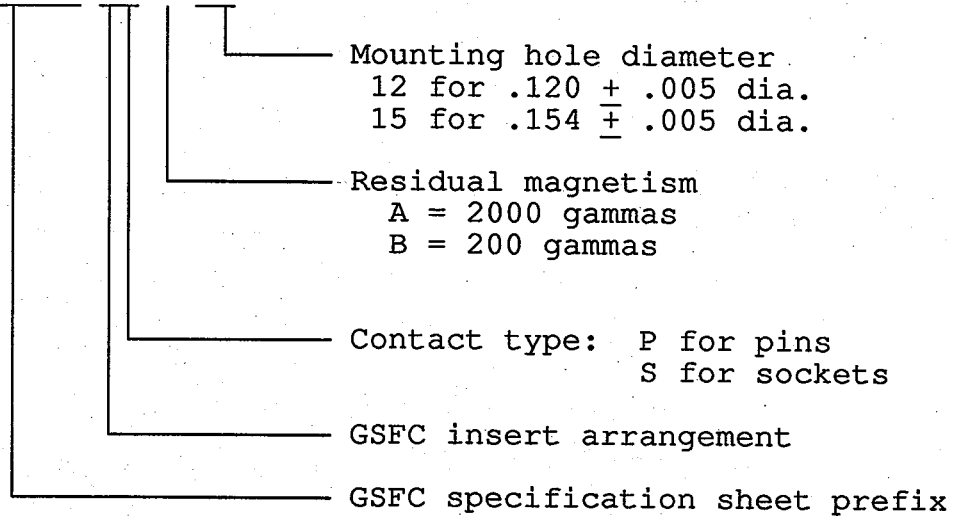
See footnotes at end of table

FOOTNOTES:


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

Connector-type designation example:

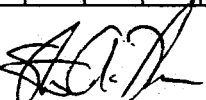


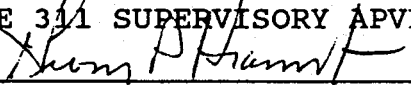
311P409-1P- -12



- 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 $0.154 \pm .005$ 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.

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TABLE I. DESIGN STANDARDS 1/

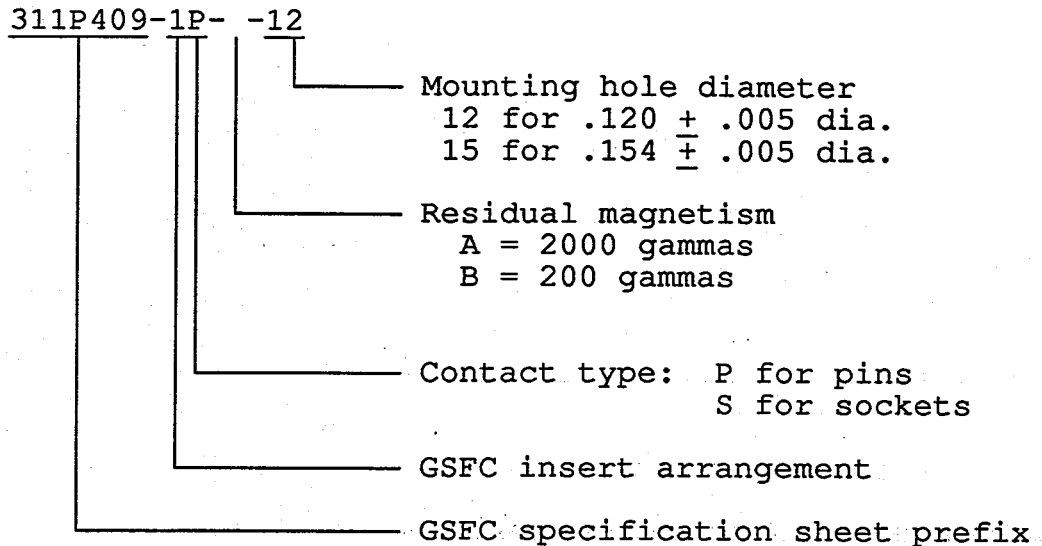
Connector-type Designation 2/	Shell size	Shell MS number	GSFC insert number	Insert MS number 3-	Contact Part Number 4-
311P409-1P-B-12	1	MS18271-1	-1	MS18273-1	G10P1
311P409-1P-B-15	1	MS18271-1*	-1	MS18273-1	G10P1
311P409-2P-B-12	2	MS18271-2	-2	MS18274-1	G10P1
311P409-2P-B-15	2	MS18271-2*	-2	MS18274-1	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
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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

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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:



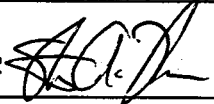

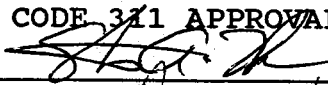

- 3/ MS numbers identified with an asterick (*) shall have shell design and dimension in accordance with the MS number listed except that the mounting holes shall be $0.154 \pm .005$ in diameter.
- 4/ The contacts specified herein are found on GSEFC S-311-P-4/10 specification. The contact insertion/extraction 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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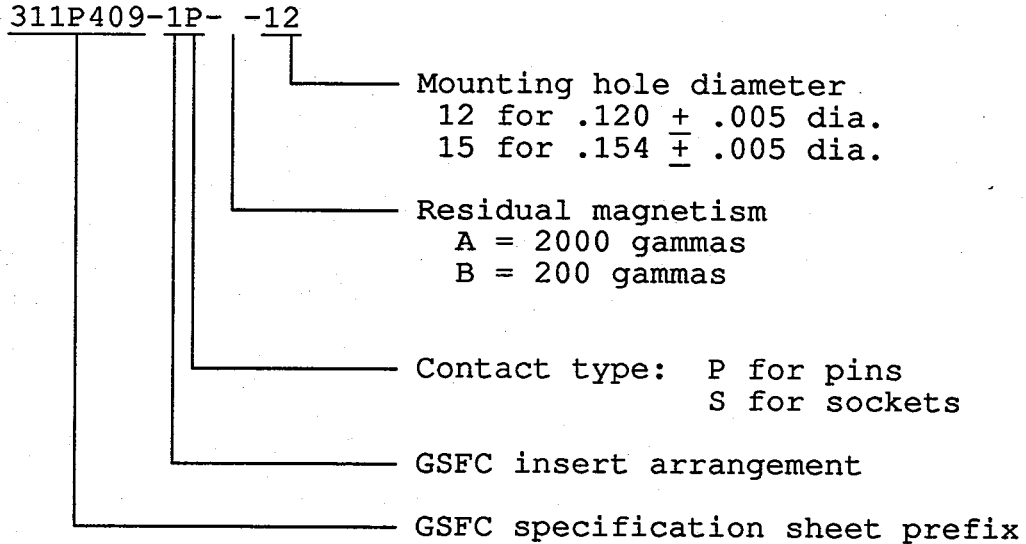
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311P409-2P-B-12	2	MS18271-2	-2	MS18274-1	G10P1
311P409-2P-B-15	2	MS18271-2*	-2	MS18274-1	G10P1
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311P409-5P-B-15	5	MS18271-5*	-5	MS18277-1	G10P1
311P409-1S-B-12	1	MS18270-1	-1	MS18273-1	G10S1
311P409-1S-B-15	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
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