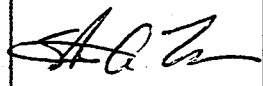
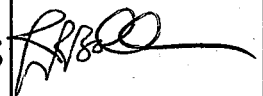
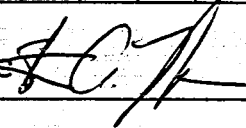
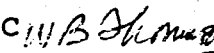
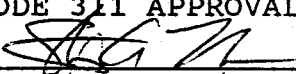
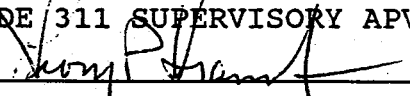


REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVAL
B	Revised and Redrawn	5/25/91	
C	Revised per RN # 62	10/7/93	

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	B	C	B														
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 5/14/91	FSC: 5935
APPROVED W.B. Thomas/GSFC		5-21-91	CONNECTORS, ELECTRICAL, RECTANGULAR, SUBMINIATURE, POLARIZED SHELL, DETAILED SPECIFICATION FOR
CODE 311 APPROVAL		5/20/91	
CODE 311 SUPERVISORY APVL		5/23/91	
ADDITIONAL APPROVAL			S-311-P-4/05

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

CAGE CODE: 25306

PAGE 1 OF 6

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 3/	GSFC insert number	Insert MS number	Contact Part Number	
					#20 4/	Coaxial
311P405-1P-B-12	-----	SUPERSEDED	5/	-----		
311P405-1P-B-15	-----	SUPERSEDED	5/	-----		
311P405-2P-B-12	-----	SUPERSEDED	5/	-----		
311P405-2P-B-15	-----	SUPERSEDED	5/	-----		
311P405-3P-B-12	-----	SUPERSEDED	5/	-----		
311P405-3P-B-15	-----	SUPERSEDED	5/	-----		
311P405-4P-B-12	-----	SUPERSEDED	5/	-----		
311P405-4P-B-15	-----	SUPERSEDED	5/	-----		
311P405-5P-B-12	-----	SUPERSEDED	5/	-----		
311P405-5P-B-15	-----	SUPERSEDED	5/	-----		
311P405-6P-B-12	1	MS18268-1	6	6/	G10P1	7/
311P405-6P-B-15	1	MS18268-1*	6	6/	G10P1	7/
311P405-7P-B-12	2	MS18268-2	7	6/	none	7/
311P405-7P-B-15	2	MS18268-2*	7	6/	none	7/
311P405-8P-B-12	2	MS18268-2	8	6/	G10P1	7/
311P405-8P-B-15	2	MS18268-2*	8	6/	G10P1	7/
311P405-9P-B-12	2	MS18268-2	9	6/	G10P1	7/
311P405-9P-B-15	2	MS18268-2*	9	6/	G10P1	7/
311P405-10P-B-12	3	MS18268-3	10	6/	none	7/
311P405-10P-B-15	3	MS18268-3*	10	6/	none	7/
311P405-11P-B-12	3	MS18268-3	11	6/	G10P1	7/
311P405-11P-B-15	3	MS18268-3*	11	6/	G10P1	7/
311P405-12P-B-12	3	MS18268-3	12	6/	G10P1	7/
311P405-12P-B-15	3	MS18268-3*	12	6/	G10P1	7/

See footnotes at end of table

TABLE I. DESIGN STANDARDS 1/

Connector-type Designation 2/	Shell size	Shell MS number 3/	GSFC insert number	Insert MS number	Contact Part Number	
					#20 4/	Coaxial
311P405-13P-B-12	3	MS18268-3	13	6/	G10P1	7/
311P405-13P-B-15	3	MS18268-3*	13	6/	G10P1	7/
311P405-14P-B-12	3	MS18268-3	14	6/	G10P1	7/
311P405-14P-B-15	3	MS18268-3*	14	6/	G10P1	7/
311P405-15P-B-12	4	MS18268-4	15	6/	--	7/
311P405-15P-B-15	4	MS18268-4*	15	6/	--	7/
311P405-16P-B-12	4	MS18268-4	16	6/	G10P1	7/
311P405-16P-B-15	4	MS18268-4*	16	6/	G10P1	7/
311P405-17P-B-12	4	MS18268-4	17	6/	G10P1	7/
311P405-17P-B-15	4	MS18268-4*	17	6/	G10P1	7/
311P405-18P-B-12	4	MS18268-4	18	6/	G10P1	7/
311P405-18P-B-15	4	MS18268-4*	18	6/	G10P1	7/
311P405-19P-B-12	4	MS18268-4	19	6/	G10P1	7/
311P405-19P-B-15	4	MS18268-4*	19	6/	G10P1	7/
311P405-20P-B-12	4	MS18268-4	20	6/	G10P1	7/
311P405-20P-B-15	4	MS18268-4*	20	6/	G10P1	7/
311P405-21P-B-12	4	MS18268-4	21	6/	G10P1	7/
311P405-21P-B-15	4	MS18268-4*	21	6/	G10P1	7/
311P405-22P-B-12	5	MS18268-5	22	6/	G10P1	7/
311P405-22P-B-15	5	MS18268-5*	22	6/	G10P1	7/
311P405-23P-B-12	5	MS18268-5	23	6/	G10P1	7/
311P405-23P-B-15	5	MS18268-5*	23	6/	G10P1	7/
311P405-24P-B-12	5	MS18268-5	24	6/	G10P1	7/
311P405-24P-B-15	5	MS18268-5*	24	6/	G10P1	7/
311P405-25P-B-12	5	MS18268-5	25	6/	G10P1	7/
311P405-25P-B-15	5	MS18268-5*	25	6/	G10P1	7/
311P405-25P-B-12	4	MS18268-4	26	6/	G10P1	7/
311P405-25P-B-15	4	MS18268-4*	26	6/	G10P1	7/

See footnotes at end of table

TABLE I. DESIGN STANDARDS 1/

Connector-type Designation 2/	Shell size	Shell MS number 3/	GSFC insert number	Insert MS number	Contact Part Number	
					#20 4/	Coaxial
311P405-1S-B-12	-----	SUPERSEDED	5/	-----		
311P405-1S-B-15	-----	SUPERSEDED	5/	-----		
311P405-2S-B-12	-----	SUPERSEDED	5/	-----		
311P405-2S-B-15	-----	SUPERSEDED	5/	-----		
311P405-3S-B-12	-----	SUPERSEDED	5/	-----		
311P405-3S-B-15	-----	SUPERSEDED	5/	-----		
311P405-4S-B-12	-----	SUPERSEDED	5/	-----		
311P405-4S-B-15	-----	SUPERSEDED	5/	-----		
311P405-5S-B-12	-----	SUPERSEDED	5/	-----		
311P405-5S-B-15	-----	SUPERSEDED	5/	-----		
311P405-6S-B-12	1	MS18268-1	6	6/	G10S1	7/
311P405-6S-B-15	1	MS18268-1*	6	6/	G10S1	7/
311P405-7S-B-12	2	MS18268-2	7	6/	none	7/
311P405-7S-B-15	2	MS18268-2*	7	6/	none	7/
311P405-8S-B-12	2	MS18268-2	8	6/	G10S1	7/
311P405-8S-B-15	2	MS18268-2*	8	6/	G10S1	7/
311P405-9S-B-12	2	MS18268-2	9	6/	G10S1	7/
311P405-9S-B-15	2	MS18268-2*	9	6/	G10S1	7/
311P405-10S-B-12	3	MS18268-3	10	6/	none	7/
311P405-10S-B-15	3	MS18268-3*	10	6/	none	7/
311P405-11S-B-12	3	MS18268-3	11	6/	G10S1	7/
311P405-11S-B-15	3	MS18268-3*	11	6/	G10S1	7/
311P405-12S-B-12	3	MS18268-3	12	6/	G10S1	7/
311P405-12S-B-15	3	MS18268-3*	12	6/	G10S1	7/

See footnotes at end of table

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Connector-type Designation 2/	Shell size	Shell MS number 3/	GSFC insert number	Insert MS number	Contact Part Number	
					#20 4/	Coaxial
311P405-13S-B-12	3	MS18268-3	13	6/	G10S1	7/
311P405-13S-B-15	3	MS18268-3*	13	6/	G10S1	7/
311P405-14S-B-12	3	MS18268-3	14	6/	G10S1	7/
311P405-14S-B-15	3	MS18268-3*	14	6/	G10S1	7/
311P405-15S-B-12	4	MS18268-4	15	6/	--	7/
311P405-15S-B-15	4	MS18268-4*	15	6/	--	7/
311P405-16S-B-12	4	MS18268-4	16	6/	G10S1	7/
311P405-16S-B-15	4	MS18268-4*	16	6/	G10S1	7/
311P405-17S-B-12	4	MS18268-4	17	6/	G10S1	7/
311P405-17S-B-15	4	MS18268-4*	17	6/	G10S1	7/
311P405-18S-B-12	4	MS18268-4	18	6/	G10S1	7/
311P405-18S-B-15	4	MS18268-4*	18	6/	G10S1	7/
311P405-19S-B-12	4	MS18268-4	19	6/	G10S1	7/
311P405-19S-B-15	4	MS18268-4*	19	6/	G10S1	7/
311P405-20S-B-12	4	MS18268-4	20	6/	G10S1	7/
311P405-20S-B-15	4	MS18268-4*	20	6/	G10S1	7/
311P405-21S-B-12	4	MS18268-4	21	6/	G10S1	7/
311P405-21S-B-15	4	MS18268-4*	21	6/	G10S1	7/
311P405-22S-B-12	5	MS18268-5	22	6/	G10S1	7/
311P405-22S-B-15	5	MS18268-5*	22	6/	G10S1	7/
311P405-23S-B-12	5	MS18268-5	23	6/	G10S1	7/
311P405-23S-B-15	5	MS18268-5*	23	6/	G10S1	7/
311P405-24S-B-12	5	MS18268-5	24	6/	G10S1	7/
311P405-24S-B-15	5	MS18268-5*	24	6/	G10S1	7/
311P405-25S-B-12	5	MS18268-5	25	6/	G10S1	7/
311P405-25S-B-15	5	MS18268-5*	25	6/	G10S1	7/
311P405-25S-B-12	4	MS18268-4	26	8/	G10S1	7/
311P405-25S-B-15	4	MS18268-4*	26	8/	G10S1	7/

See footnotes at end of table

FOOTNOTES:

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

Connector-type designation example:

311P405-1P-#-12

Mounting hole diameter:

12 for $.120 \pm .005$ dia.

15 for $.154 \pm .005$ dia.

Residual magnetism:

A = 2000 gammas

B = 200 gammas

Contact type: P for pins
S for sockets

GSFC insert arrangement

GSFC specification sheet prefix

- 3/ MS numbers identified with an asterick (*) shall have shell design and dimensions 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 in GSFC S-311-P-4/10. The contact insertion/extraction tool applicable to these connector is MS81969/1-04. Contacts are not supplied and must be procured separately.
- 5/ These connectors have been superseded by GFSC S-311-P-4/09.
- 6/ The insert arrangements shall be in accordance with GSFC S-311-P-10.
- 7/ Coaxial contacts specified herein are found in S-311-P-4/06. Contacts are not supplied and must be procured separately.
- 8/ Insert arrangement in accordance with figure 1.