REVISIONS			
SYMBOL	DESCRIPTION	DATE	APPROVAL
B	Revise and redrawn	9/5/91	

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	B	B	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 9/5/91	FSC: 5935
APPROVED W.B. Thomas/GSFC	9-5-91	CONTACTS, ELECTRICAL, CRIMP STYLE, SIZE 20
CODE 311 APPROVAL	9/5/91	
CODE 311 SUPERVISORY APVL	9/5/91	
ADDITIONAL APPROVAL		S-311-P-4/10

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

CAGE CODE: 25306

1. SCOPE.

1.1 Purpose. This specification delineates the requirements for rear insertable and rear removable contacts for use with electrical connectors as specified in GSFC S-311-P-4/09.

1.2 Contact-type designation. Contacts shall be of the following designation, and shall be ordered by their designation type only.

```
G 10 P 1 ------ Contact accommodation (see 1.3)
|  |  └------- Contact type : P for pin
|  |                          S for Socket
|  └---------- Specification slash sheet
└------------- GSFC prefix (standard)
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1.3 Contact accommodation. The contact accommodation shall be selected from Table I.

Table I - Contact Accommodation

Contact Style	Designator	Wire size or cable type
Power (Size 20)	1	AWG 20-22-24 *

* MIL-W-16878, type E

2. APPLICABLE DOCUMENTS

The applicable documents, of the issue in effect on date of invitation for bid or request for proposal, form a part of this specification to the extent specified herein.

Military Specifications and Standards

MIL-C-39029 Contacts, Electrical Connector, General Specification for

Other Publications

NASA, Goddard Space Flight Center

S-311-P-4 Connector, Electrical, Rectangular, For Space Flight Use, General Specification For

S-311-P-4/09 Connector, Electrical, Rectangular, For Space Flight Use, Detail Specification For

3. REQUIREMENTS

3.1 General. The contacts shall meet all requirements of MIL-C-39029 and the requirements of the specification.

3.2 Materials, design and construction.

3.2.1 Pin contacts. The pin contact shall be in accordance with M39029/64-369, except contact underplating shall be copper in accordance with MIL-C-14550.

3.2.2 Socket contact. The socket contact shall be in accordance with M39029/63-368, except contact underplating shall be in accordance with MIL-C-14550.

3.3 Performance. The contacts shall meet the performance requirements of MIL-C-39029 and as speciifed herein.

3.3.1 Residual magnetism. When tested in accordance with 4.2.1 the residual magnetism shall not exceed a gamma level greater than one-tenth (1/10) times the number of contacts. The contacts shall be grouped into quantities not to exceed 500 per group. This test shall only be performed when contacts are procured separate from the connectors as specified in S-311-P-4/09.

3.4 Part marking. The individual contacts may, at the option of the manufacturer, be marked with a manufacturer's part number. Contacts shall not be marked with BIN code color bands as specified in MIL-C-39029.

4. QUALITY ASSURANCE PROVISIONS

4.1 The Quality Assurance Provisions of MIL-C-39029 except where modified herein shall be met.

4.2 Test Methods.

4.2.1 Residual magnetism. The residual magnetism test shall be performed in accordance with S-311-P-4.

5. PACKAGING. The packaging requirement shall be in accordance with S-311-P-4.

6. NOTES. None.