

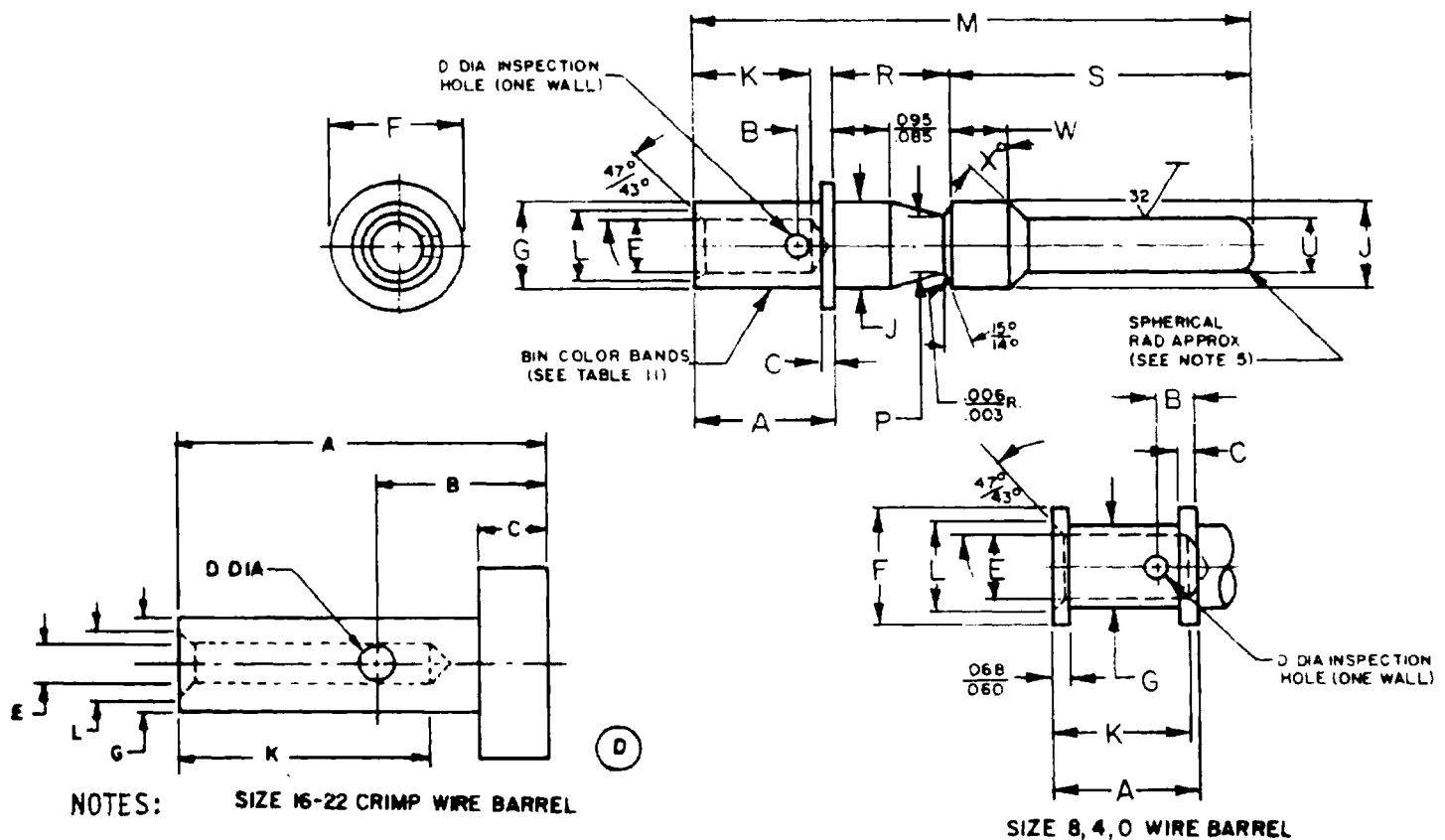
MIL-C-39029/44D
15 November 1988
SUPERSEDING
MIL-C-39029/44C
9 April 1987

MILITARY SPECIFICATION SHEET

CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-C-5015 SERIES MS3400 CONNECTORS)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the contacts described herein shall consist of this document and the latest issue of specification MIL-C-39029.



NOTES: SIZE 16-22 CRIMP WIRE BARREL

SIZE 8, 4, 0 WIRE BARREL

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Metric equivalents are in parentheses for overall length and diameter only.
4. Dimensions shown apply after plating.
5. Spherical end dimensions shall conform to MIL-C-39029.
6. Manufacturers are permitted to supply MIL-C-39029/44A size 16-22 contacts until 15 May 1989 or deplete their inventory, whichever comes first.

(D) Denotes changes.

AMSC N/A

FSC 5935

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

TABLE I. Dimensions.

BIH Code	(D) E Dia	(D) F Dia	(D) J Dia	(D) H Ref	(D) P Dia	R	S	U Dia	W	X°	A	B	C	U Dia	(D) G Dia	(D) K	(D) L
287	.0355	.148 (3.76)	.113	1.159	.087		.694	.0635			.285	.106	.042	.032	.078	.216	.067
288	.0335	.133 (3.38)	.110	1.172 (29.77)	.083		.684	.0615			.280	.100	.036	.026	.076	.206	.061
289	.063 .066	.202 (5.13)	.161	1.360 (34.54)	.135	.189 .185		.095	.183 .173	50 40	.298 .294	.079 .073	.048 .044	.042 .036	.105 .101	.281 .250	.090 .080
290	.102	.189 (4.80)	.158		.131	.682		.093							.153 .147	.125 .115	
291	.098 .184	.313 (7.95)	.252		.225		.672	.143							.269 .263		.230 .220
	.179	.309 (7.85)	.249	1.579 (40.11)	.221			.141			.520 .510	.094 .084		.066 .060		.534 .480	
292	.286	.419 (10.64)	.336		.310			.226	.118	32					.370 .360	.354 .364	
	.279	.409 (10.39)	.333		.307		.817	.224									
293	.458	.611 (15.52)	.518	1.733 (44.02)	.492	.253	.807	.358	.108	28	.675 .665				.568 .558	.690 .636	.542 .532
	.451	.601 (15.27)	.515		.489			.356									

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INCH	mm	INCH	mm	INCH	mm	INCH	mm
.026	.66	.101	2.57	.225	5.72	.480	12.19
.029	.74	.102	2.59	.226	5.74	.489	12.42
.032	.81	.105	2.67	.230	5.84	.492	12.50
.033	.84	.108	2.74	.249	6.33	.510	12.95
.036	.91	.110	2.79	.250	6.35	.515	13.08
.042	.61	.113	2.87	.252	6.40	.518	13.16
.048	1.22	.115	2.92	.253	6.43	.520	13.21
.050	1.27	.118	3.0	.263	6.68	.524	13.31
.057	1.45	.125	3.18	.279	7.09	.532	13.51
.060	1.52	.131	3.33	.281	7.14	.542	13.77
.0615	1.56	.133	3.38	.286	7.26	.557	14.15
.063	1.6	.135	3.43	.294	7.47	.567	14.40
.0635	1.61	.141	3.58	.296	7.52	.601	15.27
.0640	1.63	.143	3.63	.298	7.57	.611	15.52
.066	1.68	.147	3.73	.307	7.80	.636	16.15
.068	1.73	.148	3.76	.309	7.85	.665	16.89
.073	1.85	.153	3.89	.310	7.87	.675	17.15
.076	1.93	.158	4.01	.313	7.95	.684	17.37
.078	1.98	.161	4.09	.333	8.46	.690	17.53
.079	2.01	.173	4.39	.336	8.53	.694	17.63
.080	2.03	.179	4.55	.354	8.99	.807	20.50
.083	2.11	.183	4.65	.356	9.04	.817	20.75
.084	2.13	.184	4.67	.358	9.09	.872	22.15
.087	2.21	.185	4.70	.364	9.25	.882	22.40
.090	2.29	.189	4.80	.380	9.65	1.172	29.77
.093	2.36	.202	5.13	.409	10.39	1.360	34.54
.094	2.39	.220	5.59	.419	10.64	1.579	40.11
.095	2.41	.221	5.61	.458	11.63	1.733	44.02
.098	2.49	.224	5.69				

TABLE II. Design characteristics.

BIN Code	Color Bands			Mating End Size	Wire Barrel Size	Type Size	Class
	1st	2nd	3rd				
287	Red	Gray	Violet	16	22		
288	Red	Gray	Gray	16	16		
289 1/	Red	Gray	White	12	16		
290	Red	White	Black	12	12	A	B
291	Red	White	Brown	8	8		
292	Red	White	Red	4	4		
293	Red	White	Orange	0	0		

1/ 289 shall meet all applicable test requirements for size 12-14 in MIL-C-39029.

TABLE III. Tools.

BIN Code	Basic Crimping Tool	Die Set	Locator	Positioner	Installing Tool	Removal Tool
287	M22520/1-01	---	---	M22520/1-02 Blue	M81969/17-09	M81969/19-01
288	M22520/1-01	---	---	M22520/1-02 Blue	M81969/17-01	M81969/19-01
289	M22520/1-01	---	---	M22520/1-02 Yellow	M81969/17-01	M81969/19-02
290	M22520/1-01	---	---	M22520/1-02 Yellow	M81969/17-02	M81969/19-02
291	M22520/23-01	M22520/23-02	M22520/23-09	---	M81969/17-06	M81969/19-03
292	M22520/23-01	M22520/23-04	M22520/23-11	---	M81969/17-07	M81969/19-04
293	M22520/23-01	M22520/23-05	M22520/23-13	---	M81969/17-08	M81969/19-05

TABLE IV. Size 16-22 crimp wire barrel selector data.

<u>Wire Size</u>	<u>Selector No.</u>
22	3
24	2
26	1

REQUIREMENTS:

Dimensions, design characteristics and configuration: See figure and Tables I and II.

Tools: See Table III.

Vibration: Method 2005 of MIL-STD-1344A, test condition III; following the test the contacts shall be tested for endurance in accordance with MIL-STD-167-1 (SHIPS).

Shock (specified pulse): Method 2004 of MIL-STD-1344, test condition A.

Mating contact: MIL-C-39029/45.

QPL evaluating activity: Naval Avionics Center, Code B-714, Indianapolis, IN 46219-2189.

International interest: NEPR 57.

Military part number: See Table IV.

TABLE V. Military part number.

BIN Code	Military Part Number	Supersedes
287	M39029/44-287	MS90453-16-22
288	M39029/44-288	MS90453-16-16
289	M39029/44-289	MS90453-12-16
290	M39029/44-290	MS90453-12-12
291	M39029/44-291	MS90453-8-8
292	M39029/44-292	MS90453-4-4
293	M39029/44-293	MS90453-0-0

Custodians:

Army - CR
 Navy - AS
 Air Force - 85

Preparing activity:

Navy - AS
 (Project No. 5935-3719-01)

Review activities:

Army - MU, MI
 Navy - EC, MC
 Air Force - 11, 99
 DLA - ES

User activities:

Navy - OS