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AS39029/86

FEDERAL SUPPLY CLASS
5935

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THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

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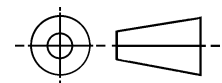
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THIRD ANGLE PROJECTION



ISSUED 2000-07 REAFFIRMED 2006-10

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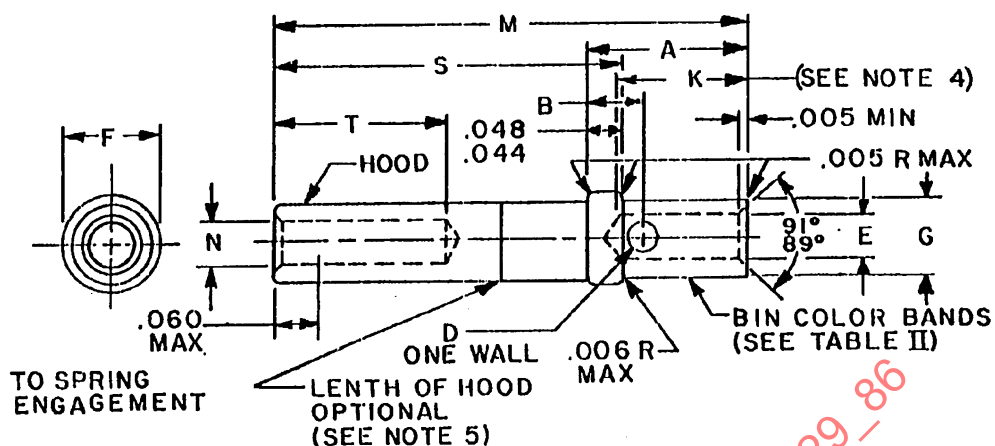
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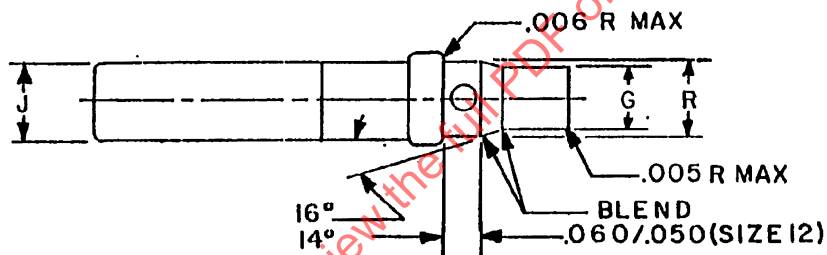
CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP
REMOVABLE, THERMOCOUPLE (FOR MIL-C-5015 MS3450
SERIES AND MIL-C-83723 SERIES II CONNECTORS)

AS39029/86
SHEET 1 OF 5

THE REQUIREMENTS FOR ACQUIRING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF MIL-C-39029.



Size 16S - 16 Bin Codes 510 thru 513
Size 16 - 16 Bin Codes 462 thru 465



Size 12 - 12 Bin Codes 466 thru 469

FIGURE 1. SOCKET CONTACT ELECTRICAL.

Inches	mm	Inches	mm	Inches	mm
.003	0.08	.098	2.49	.189	4.80
.005	0.13	.100	2.54	.231	5.87
.006	0.15	.101	2.57	.237	6.02
.020	0.51	.102	2.59	.250	6.35
.029	0.74	.103	2.62	.290	7.37
.033	0.84	.113	2.87	.295	7.49
.036	0.91	.130	3.30	.300	7.62
.042	1.07	.133	3.38	.399	10.13
.065	1.65	.147	3.73	.430	10.92
.066	1.68	.150	3.81	.656	16.66
.068	1.73	.155	3.94	.666	16.92
.073	1.85	.160	4.06	.846	21.74
.079	2.01	.161	4.09	.856	21.74
.097	2.46	.186	4.72	.911	23.14
				1.101	27.97

DIMENSIONS

BIN code	A	B	D DIA	E DIA	F DIA	G DIA	J DIA	K	M REF	N DIA	R	S	T
510 thru 513				.068	.133	.103	.113	.280	.911	.068		.666 .656	.560 .399
462 thru 465	.300	.082	.042	.066	.130	.101	.106	.250		.065			.560
	.290	.070	.036						1.101			.856	.430
466 thru 469				.102	.189	.150	.161			.100	.160	.846	.710
				.098	.186	.147	.154			.097	.155		.587

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions shown apply after plating.
4. The K bore shall not break through to the T bore.
5. Maximum gap of .010 inch between hood and body of the contact.
6. Unless otherwise specified, surface finish shall be 63/.

FIGURE 1. SOCKET CONTACT ELECTRICAL - CONTINUED.

TABLE I. DESIGN CHARACTERISTICS.

BIN code	Color bands			Mating end size	Wire barrel size	Type	Class
	1st.	2nd.	3rd.				
510	Green	Brown	Black	16S	16	See table IV for composition	B
511	Green	Brown	Brown	16S	16		
512	Green	Brown	Red	16S	16		
513	Green	Brown	Orange	16S	16		
462	Yellow	Blue	Red	16	16		
463	Yellow	Blue	Orange	16	16		
464	Yellow	Blue	Yellow	16	16		
465	Yellow	Blue	Green	16	16		
466	Yellow	Blue	Blue	12	12		
467	Yellow	Blue	Violet	12	12		
468	Yellow	Blue	Gray	12	12		
469	Yellow	Blue	White	12	12		

TABLE II. TOOLS.

BIN code	Basic crimping tool	Positioner	Installing tool	Removal tool
462 thru 465	M22520/1-01 thru M22520/7-01	M22520/1-02 Blue thru M22520/7-03	M81969/8-07 thru M81969/14-03	M81969/8-08 thru M81969/14-03
466 thru 469	M22520/1-01	M22520/1-02 Yellow	M81969/8-09 thru M81969/14-04	M81969/8-10 thru M81969/14-04

TABLE III. MATERIALS, PLATING, AND TENSILE STRENGTH.

BIN code	Materials	Plating	Wire size	Axial load lbf-min	Wire size	Axial load lbf-min	Wire size	Load lbf-min
510 511 512 513	Constantan Alumel Chromel Iron	None None None Cad. Plate	16	33	18	23	20	14
462 463 464 465	Constantan Alumel Chromel Iron	None None None Cad. Plate						
466 467 468 469	Constantan Alumel Chromel Iron	None None None Cad. plate	12	85	14	53	16	33

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

Mating contacts: MIL-C-39029/85.

Tools: See table II.

Materials and plating: See table III.

Tensile strength: See table III.