

INCH-POUND

MS14056A  
 3 January 2003  
 SUPERSEDING  
 MS14056  
 8 December 1972

## DETAIL SPECIFICATION SHEET

CONTACTS, ELECTRICAL CONNECTOR,  
 SHIELDED CABLE APPLICATIONS, SIZE 8

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

The requirements for acquiring the product described herein  
 shall consist of this specification and MIL-C-22992.

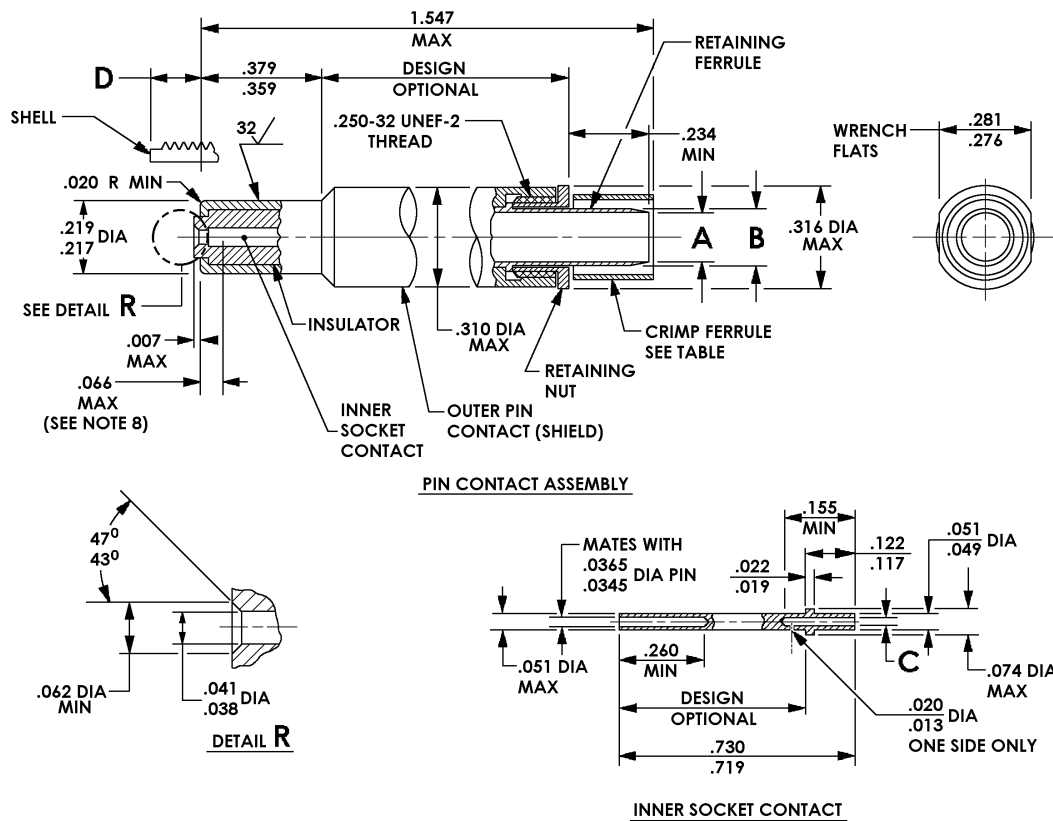
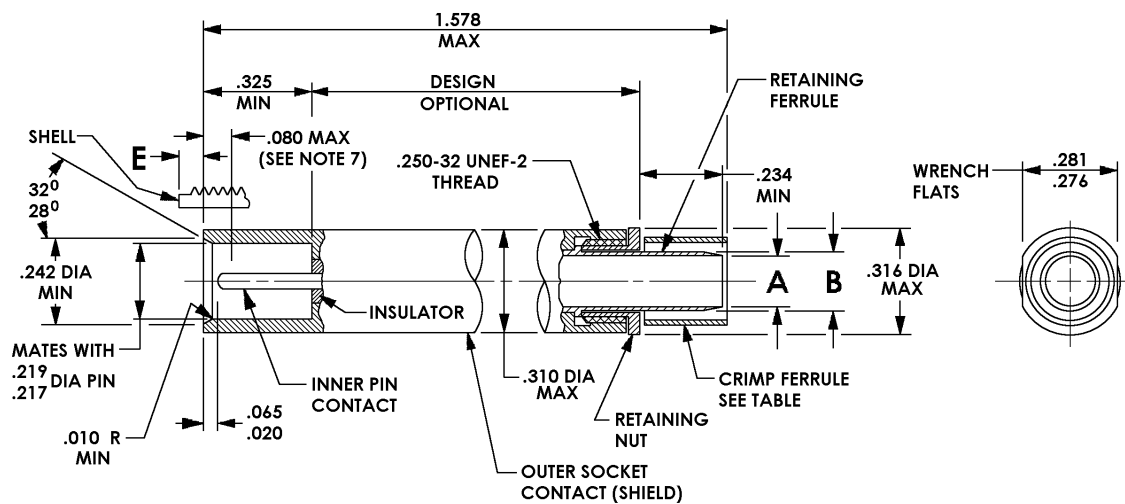
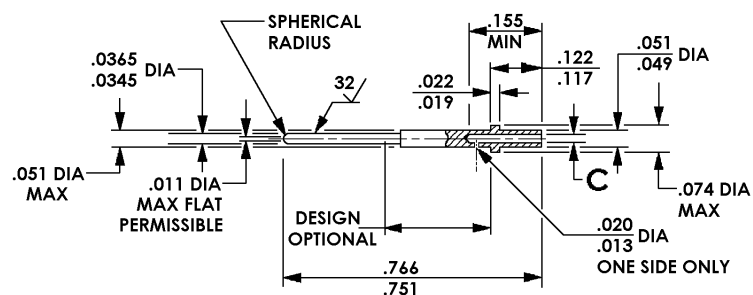


FIGURE 1. Pin.

MS14056A



SOCKET CONTACT ASSEMBLY



INNER PIN CONTACT

FIGURE 2. Socket.

## MS14056A

Dash NO.	Coaxial cable	A dia min	B dia	C dia min	Crimp Ferrule	Hex crimp dies <u>6/</u>
-1	M17/94-RG179	.067	.110 .106	.014	MS21980-128 MS21981-058	M22520/5-35
-2	M17/184-00001 M17/185-00001 M17/97-RG210	.152	.185 .181	.027	MS21980-225 MS21981-134	M22520/5-45

DASH NO.	D				E			
	MIL-C-5015		MIL-C-22992		MIL-C-5015		MIL-C-22992	
	Plug	Receptacle	Plug	Receptacle	Plug	Receptacle	Plug	Receptacle
-1								
-2	.269 .204	.267 .207	.269 .204	.314 .254	.240 .174	.237 .177	.240 .174	.284 .224

FIGURE 3. General Dimensions.

## MS14056A

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.007	.18	.074	1.88	.240	6.10	.731	19.08
.010	.25	.080	2.03	.242	6.15	.766	19.46
.011	.28	.106	2.69	.250	6.35	1.547	39.29
.013	.33	.110	2.79	.254	6.45	1.578	40.08
.014	.36	.117	2.97	.260	6.60		
.019	.48	.122	3.10	.264	6.71		
.020	.51	.152	3.86	.267	6.78		
.022	.56	.155	3.94	.269	6.83		
.027	.69	.174	4.42	.276	7.01		
.0345	.88	.177	4.50	.281	7.14		
.0365	.93	.179	4.55	.284	7.21		
.038	.97	.181	4.60	.310	7.87		
.041	1.04	.185	4.70	.314	7.98		
.049	1.24	.207	5.26	.316	8.03		
.051	1.30	.217	5.51	.325	8.26		
.062	1.57	.219	5.56	.359	9.12		
.065	1.65	.224	5.69	.379	9.63		
.066	1.68	.234	5.94	.719	18.26		
.067	1.70	.237	6.02	.730	18.54		

FIGURE 3. General Dimensions – Continued.

## MS14056A

## NOTES:

1. All dimensions are in inches and are after plating.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. All surfaces to be 63/ or better in accordance with ANSI B46 1-1962 unless otherwise specified.
4. Remove all burrs and sharp edges .003-.005 (.08 -.13 mm) R unless otherwise specified.
5. All diameters to be concentric to each other within .005 (.13mm) total indicator reading (TIR), unless otherwise specified.
6. Outer contacts (shields) shall be crimped with a tool conforming to MIL-C-22520/5 with appropriate dies (see table). The inner pin and socket contacts shall be either crimped with a MIL-C-22520/2 crimp tool or soldered in accordance with manufacturer's instructions.
7. Point at which a square ended .218 (5.54 mm) dia pin first engages the outer socket contact spring.
8. Point at which a square ended .0355 (.90 mm) dia pin first engages the inner socket contact spring.
9. Materials:  
Outer socket contact, inner socket contact – beryllium copper in accordance with ASTM-B196, ASTM-B197, and ASTM-B194.  
Outer pin contact, retaining ferrule, retaining nut – brass in accordance with ASTM-B121, ASTM-B36, ASTM-B16, ASTM-B16M, and ASTM-B124.  
Inner pin contact – brass in accordance with ASTM-B134, ASTM-B159, ASTM-B159M, ASTM-B206, AND ASTM-B206M.  
Insulators – polytetrafluoroethylene (TFE) or fluorinated – ethylene – propylene (FEP) resin.
10. Engaging and separation forces – test pins to be in accordance with SAE-AS31971 except for the diameters listed below:
  - A. Outer socket contact – 48 oz max engaging force with .2192/.2190 (5.568/5.563 mm) dia pin 4 oz min separation force with a .2170/.2168 (5.512/5.507 mm) dia pin.
  - B. Inner socket contact – 18 oz max engaging force with .0367/-.0365 (.932/.927 mm) dia pin. 3/4 oz min separation force with a .0345/.0343 ( .876/.871 mm) dia pin.
11. Dielectric withstanding voltage – 1500 vac rms, applied between inner and outer contacts.
12. Insulation resistance – measured between inner and outer contacts.
13. Probe damage – not applicable.
14. Crimp tensile strength –

Dash no.	Tensile strength (lbs. min)	
	Inner contact	Outer contact
-1	4	18
-2	20	60

15. Contact retention:
  - A. Outer contact. 20 pounds.
  - B. Inner contact: 5 pounds.
16. Contact resistance:
  - A. Outer contact: 5 mv at 1 amp.
  - B. Inner contact: 15 mv at 1 amp.

FIGURE 3. General Dimensions – Continued.

MS14056A

## CONCLUDING MATERIAL

### Custodians:

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Navy – EC  
Air Force – 11  
DLA – CC

Preparing activity  
DAL – CC

### Review activities:

Army – MI  
Navy – AS, CG, OS, SH  
Air Force – 19

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I RECOMMEND A CHANGE:		1. DOCUMENT NUMBER <b>MS14056A</b>	2. DOCUMENT DATE (YYYYMMDD) <b>2003/01/03</b>
3. DOCUMENT TITLE <b>Contacts, Electrical, Connector, Shielded Cable Applications, Size 8</b>			
4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i>			
5. REASON FOR RECOMMENDATION			
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c. ADDRESS <i>(Include zip code)</i>	d. TELEPHONE <i>(Include Area Code)</i> (1) Commercial (2) DSN <i>(if applicable)</i>		7. DATE SUBMITTED (YYYYMMDD)
8. PREPARING ACTIVITY			
a. NAME <b>Defense Logistics Agency Defense Supply Center, Columbus</b>		b. TELEPHONE <i>(Include Area Code)</i> (1) Commercial <b>614-692-0565</b> (2) DSN <b>850-0565</b>	
c. ADDRESS <i>(Include Zip Code)</i>  <b>DSCC-VAI 3990 E. Broad St. Columbus, Ohio 43213</b>		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: <b>Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6621 Telephone (703) 767-6888 DSN 427-6888</b>	