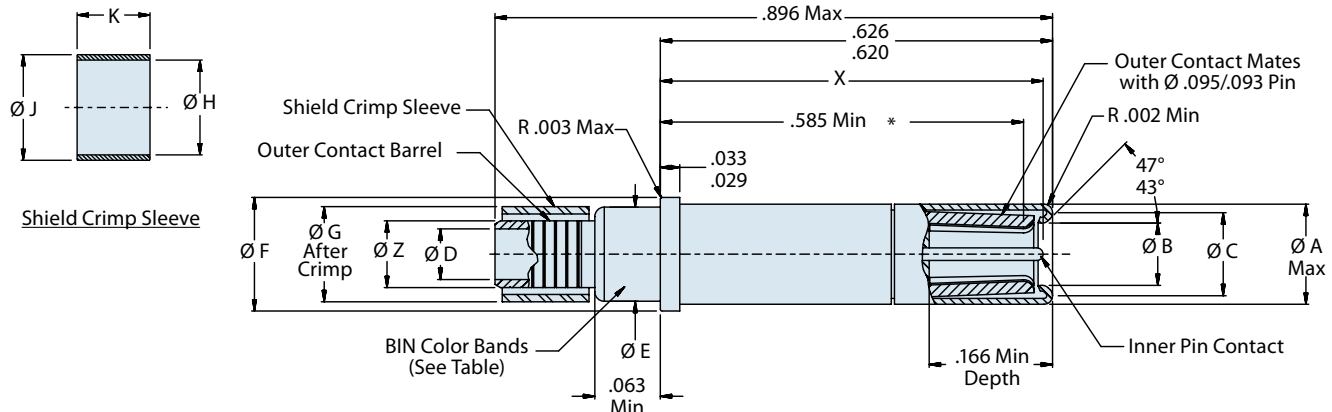


**D38999**  
 Ser. I, III, IV

**Size #12 Coaxial Socket Contacts for MIL-DTL-38999 Series I, III and IV Connectors**


These #12 socket contacts accept 50 ohm and 75 ohm coaxial cable. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV rating is 1000 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. One contact consists of outer contact, fluorocarbon dielectric, inner contact and shield crimp sleeve. Inner and outer contacts are gold-plated copper alloy. Approved to SAE AS39029. 5000 megohm insulation resistance. Mates with: M39029/28.

Type	Cable Accommodation	Part Number	Military Part Number	Color Band		
				1st	2nd	3rd
Socket	M17/119-RG174, M17/113-RG316, M17/094-RG179, Times AA3248, Teledyne 11299, Haveg 8100207, Thermax 75-738-BCCWXE, Tensolite 3088/L707YX-1	<b>852-003-12-416</b>	M39029/75-416	Yellow	Brown	Blue
	M17/095-RG, Raychem 9527D1514-2L, Raychem 9528A1318, Microdot 293-3922	<b>852-003-12-417</b>	M39029/75-417	Yellow	Brown	Violet
	Microdot 250-4070	<b>852-003-12-418</b>	M39029/75-418	Yellow	Brown	Gray
	Raychem 48-502, 5022E5111	<b>852-003-12-419</b>	M39029/75-419	Yellow	Brown	White
	Raychem 48-950, 9530D5117	<b>852-003-12-420</b>	M39029/75-420	Yellow	Red	Black
	Raychem 7624D1311, 9527A1318	<b>852-003-12-421</b>	M39029/75-421	Yellow	Red	Brown
	Gore GWN1159A, M17/152-00001	<b>852-003-12-422</b>	M39029/75-422	Yellow	Red	Red
	1550MU-16, -20, -40, -70 (D24643/28)	<b>852-003-12-423</b>	M39029/75-423	Yellow	Red	Orange


**Material and Finish**

Contact Body: Copper Alloy/Gold Plated  
 Hood: Stainless Steel/Passivated  
 Center Contact: Copper Alloy/Gold Plated  
 Crimp Sleeve: Copper Alloy/Gold Plated  
 Insulator: Teflon

\* Indicates point at which a square ended pin of the same basic diameter as the mating contact first engages the outer contact spring

**M39029/75**  
**852-003**  
**Size 12 Coaxial Socket**



**Table I**

BIN Code	ØA Max	ØB	ØC	ØD Max	ØE	ØF	ØG Max	ØH Min	ØJ Max	K	ØL Min
416	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.090 (2.3)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.127 (3.2)	.169 (4.3)	.125 (3.2) .115 (2.9)	.0225 (.57)
417	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.108 (2.7)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.144 (3.7)	.169 (4.3)	.125 (3.2) .115 (2.9)	.0225 (.57)
418	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.108 (2.7)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.144 (3.7)	.169 (4.3)	.125 (3.2) .115 (2.9)	.0355 (.90)
419	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.090 (2.3)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.127 (3.2)	.169 (4.3)	.125 (3.2) .115 (2.9)	.0355 (.90)
420	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.090 (2.3)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.127 (3.2)	.169 (4.3)	.125 (3.2) .115 (2.9)	.0225 (.57)
421	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	0.117 (3.0)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.156 (4.0)	0.174 (4.4)	.125 (3.2) .115 (2.9)	.0270 (.70)
422	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.090 (2.3)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.138 (3.5)	0.174 (4.4)	.125 (3.2) .115 (2.9)	.0225 (.57)
423	0.161 (4.1)	.100 (2.54) .097 (2.46)	.123 (3.1) .118 (3.0)	.108 (2.7)	.151 (3.84) .148 (3.76)	.182 (4.6) .179 (4.5)	.156 (4.0)	.156 (4.0)	0.174 (4.4)	.125 (3.2) .115 (2.9)	.0355 (.90)

**Table I (Continued)**

BIN Code	ØM Max	N Min	P	R	S	T	U Ref	ØV	ØW	X	ØZ Max
416	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.110 (2.8)
417	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.127 (3.2)
418	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.127 (3.2)
419	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.110 (2.8)
420	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.110 (2.8)
421	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.136 (3.5)
422	.052 (1.3)	.112 (2.8)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.110 (2.8)
423	.052 (1.3)	0.355 (9.0)	.103 (2.6) .096 (2.4)	.146 (3.7) .140 (3.6)	.039 (1.0) .033 (0.8)	.222 (5.64) .219 (5.56)	.3635 (9.2)	.0205 (.52) .0195 (.50)	.035 (0.9) .033 (0.8)	.613 (15.6) .603 (15.3)	.127 (3.2)

**Table III**

Inner Contact		Outer Contact		Insertion Tool	Extraction Tool
Basic Crimping Tool	Positioner	Basic Crimping Tool	Positioner		
M22520/2-01	M22520/2-34	M22520/31-01	M22520/31-02	M81969/8-09 or M81969/14-04; DAK95-12B or DAK264-12	M81969/8-10 or M81969/14-04; DRK95-12B or DRK264-12

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