Shielded Contacts

Glenair®

M39029/27
852-001
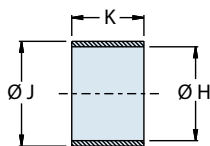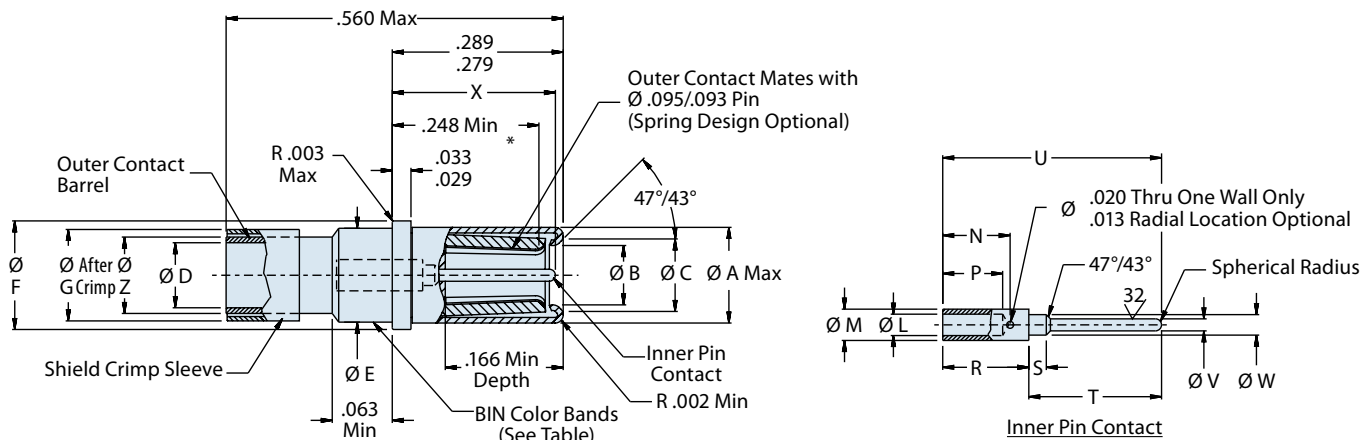**Size 12 Coaxial Socket**

D38999
Series II

B

Size #12 Coaxial Socket Contacts for MIL-DTL-38999 Series II Connectors

These #12 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.

Type	Cable Accommodation	Part Number	Military Part Number	Color Band		
				1st	2nd	3rd
Socket	RG174, RG316, RG179	852-001-12-210	M39029/27-210	Red	Brown	Black
	RG180	852-001-12-402	M39029/27-402	Yellow	Black	Red
	Microdot 250-4070	852-001-12-403	M39029/27-403	Yellow	Black	Orange
	Raychem 48-502, 5022E5111	852-001-12-404	M39029/27-404	Yellow	Black	Yellow
	Raychem 48-950, 9530D5117	852-001-12-405	M39029/27-405	Yellow	Black	Green
	Raychem 7624D1311, 9527A1318	852-001-12-406	M39029/27-406	Yellow	Black	Blue
	Gore GWN1159A	852-001-12-407	M39029/27-407	Yellow	Black	Violet
	1S50MU-16, -20, -40, -70 (D24643/28)	852-001-12-408	M39029/27-408	Yellow	Black	Gray

.560 Max
.289
.279
X
.248 Min
R .003 Max
.033
.029
*
47°/43°
Outer Contact Mates with Ø .095/.093 Pin (Spring Design Optional)
Outer Contact Barrel
Ø F
Ø After Ø G Crimp Z
Ø D
Ø B   Ø C   Ø A Max
Shield Crimp Sleeve
Ø E
.063 Min
.166 Min Depth
BIN Color Bands (See Table)
R .002 Min
Inner Pin Contact

U
N
P
Ø .020 Thru One Wall Only .013 Radial Location Optional
47°/43°
32
Spherical Radius
Ø M   Ø L
R   S
T
Ø V   Ø W
Inner Pin Contact

K
Ø J   Ø H
Shield Crimp Sleeve

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

CAGE Code 06324

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B

Table I										
BIN Code	ØA Max	ØB	ØC	ØD Max	ØE	ØF	ØG Max	ØH Min	ØJ Max	K	ØL Min
210	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.090 (2.3)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.127 (3.2)	0.169 (4.3)	0.125 (3.2) 0.115 (2.9)	0.225 (5.7)
402	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.108 (2.7)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.144 (3.7)	0.169 (4.3)	0.125 (3.2) 0.115 (2.9)	0.225 (5.7)
403	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.108 (2.7)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.144 (3.7)	0.169 (4.3)	0.125 (3.2) 0.115 (2.9)	0.355 (9.0)
404	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.090 (2.3)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.127 (3.2)	0.169 (4.3)	0.125 (3.2) 0.115 (2.9)	0.355 (9.0)
405	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.090 (2.3)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.127 (3.2)	0.169 (4.3)	0.125 (3.2) 0.115 (2.9)	0.225 (5.7)
406	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.117 (3.0)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.156 (4.0)	0.174 (4.4)	0.125 (3.2) 0.115 (2.9)	0.27 (6.9)
407	0.161 (4.1)	0.100 (2.54) 0.097 (2.46)	0.123 (3.1) 0.118 (3.0)	0.090 (2.3)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.144 (3.7)	0.169 (4.3)	0.125 (3.2) 0.115 (2.9)	0.225 (5.7)
408	0.161 (4.1)	0.100 (2.54) 0.118 (3.0)	0.123 (3.1) 0.118 (3.0)	0.108 (2.7)	0.151 (3.84) 0.148 (3.76)	0.182 (4.6) 0.179 (4.5)	0.156 (4.0)	0.156 (4.0)	0.174 (4.4)	0.125 (3.2) 0.115 (2.9)	0.355 (9.0)

Table I (continued)										
BIN Code	ØM Max	N Min	P	R	S	T	U Ref	ØV	ØW	X	ØZ Max
210	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.110 (2.8)
402	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.127 (3.2)
403	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.127 (3.2)
404	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.110 (2.8)
405	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.110 (2.8)
406	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.136
407	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.110 (2.8)
408	0.052 (1.3)	0.112 (2.8)	0.103 (2.6) 0.096 (2.4)	0.146 (3.7) 0.140 (3.6)	0.039 (1.0) 0.033 (0.8)	0.222 (5.64) 0.219 (5.56)	0.364 (9.2)	0.0205 (0.52) 0.0195 (0.5)	0.035 (0.9) 0.033 (0.8)	0.276 (7.0) 0.266 (6.8)	0.127 (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	M81969/8-10 or M81969/14-04

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