Gold Plated Crimp Style Coaxial Connectors

Performance Data Summary
For Gold Plated Crimp Style Coaxial Connectors

Mechanical

Captive Contacts — Terminated connector contacts captivated from movement in both directions.

Cable Retention —
50 Ohm connectors, 15 lb. min.
70 Ohm connectors, 25 lb. min.
93 Ohm connectors, 25 lb. min.

Recommended Coupling Torque (Threaded Interface) —
8 inch/pounds max. [.904 Nm]

Recommended Receptacle Mounting Torque (Threaded Interface) — 8 inch/pounds max. [.904 Nm]

Contact Protection (Unmated) — Pin contact protected by coupling nut. Socket protected by insulator and housing.

Assembly Methods

Straight Plugs & Jacks — Cable Inner Conductor: Crimped to contact. Cable Shield: Crimped under housing.

Right-Angle Plugs — Cable Inner Conductor: Crimped to contact. Cable Shield: Crimped under housing.

Environmental

Temperature Range (Continuous Service) — -80°F to +392°F. [-62°C to +200°C].

Vibration[1,2] — MIL-STD-202, Method 204, Test condition B (15 G peak). No physical damage or electrical discontinuities in excess of 1 microsecond.

Shock[1,2] — MIL-STD-202, Method 213, Test Condition H. No physical damage or electrical discontinuity after shock.

Thermal Shock — MIL-STD-202, Method 107, Test Condition C.

Moisture Resistance[1] — MIL-STD-202, Method 106.

Salt Spray[1] — MIL-STD-202, Method 101, Test Condition B (48 hours).

Electrical

Impedance — Designed to be compatible with 50, 70, or 93 Ohm miniature coaxial cable.

Dielectric Withstanding Voltage — 1000 volts RMS at sea level.

Contact Resistance — 4 milliohms max., D.C.

Contact Capacity — 3 amps, D.C.

Insulation Resistance — 5 x 10^3 Megohms min. @ 500 volts D.C.

Voltage Standing Wave Ratio[3] (VSWR) — Typical 50 Ohm series, 1.2 max. to 2 GHz.

Materials

Housing, Nut, Inner Sleeve — Brass per ASTM-B-16, 35% Zinc.

Insulator — TEFLON per ASTM-D-1710.

Pin & Socket Contacts — Beryllium Copper per ASTM-B-196.

Middle Sleeve — Copper Alloy.

Facial Seal[4], Sealing Sleeve & Gasket — Silicone Rubber per ZZ-R-765.

Lockwasher — #425 Bronze Alloy.

Plating

Contacts, Housing, Nut, Inner Sleeve, Middle Sleeve, Lockwasher — Gold per MIL-G-45204, Type II, Grade C, Class 1.

NOTES:
[1]Screw-On Series threaded interface.
[2]Tyco Electronics recommends the use of wired connectors in vibration and shock environments. See individual specifications for connectors with wire holes.
[3]VSWR is a system specification. Where performance is critical, purchase Tyco Electronics cable assemblies (See page 127) and specify VSWR testing and mating connector part numbers.

Catalog 1308638
Revised 8-05

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Gold Plated Crimp Style Coaxial Connectors — Screw-On Series

Straight Plugs

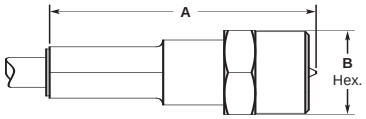


Fig. 1
Partial Hex. Nut

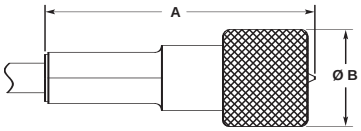


Fig. 2
Knurl Nut

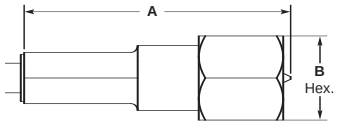


Fig. 3
Full Hex. Nut

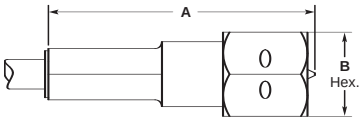


Fig. 4
Hex. Nut w/ 3 Safety Wire Holes

Part No.	Fig.	Dim. A	Dim. B	Cable Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.
50 Ohm Series .190 [4.83] -32 UNF-2B Thread							
132-0112-0001	1	**.800** 20.32	**.250** 6.35	**.088** 2.24		408-08508	RF-ASMB-8
132-0112-0002	2	**.800** 20.32	**.250** 6.35	**.088** 2.24		408-08508	RF-ASMB-8
132-0112-0003	3	**.800** 20.32	**.250** 6.35	**.088** 2.24		408-08508	RF-ASMB-8
132-0112-0004	4	**.800** 20.32	**.250** 6.35	**.088** 2.24		408-08508	RF-ASMB-8
132-0113-0001	1	**.800** 20.32	**.250** 6.35	**.088** 2.24	With environmental seal	408-08508	RF-ASMB-8
132-0113-0002	2	**.800** 20.32	**.250** 6.35	**.088** 2.24	With environmental seal	408-08508	RF-ASMB-8
132-0113-0003	3	**.800** 20.32	**.250** 6.35	**.088** 2.24	With environmental seal	408-08508	RF-ASMB-8
132-0113-0004	4	**.800** 20.32	**.250** 6.35	**.088** 2.24	With environmental seal	408-08508	RF-ASMB-8
132-0114-0001	1	**.800** 20.32	**.250** 6.35	**.110** 2.79		408-08508	RF-ASMB-8
132-0114-0002	2	**.800** 20.32	**.250** 6.35	**.110** 2.79		408-08508	RF-ASMB-8
132-0114-0003	3	**.800** 20.32	**.250** 6.35	**.110** 2.79		408-08508	RF-ASMB-8
132-0114-0004	4	**.800** 20.32	**.250** 6.35	**.110** 2.79		408-08508	RF-ASMB-8
132-0115-0001	1	**.800** 20.32	**.250** 6.35	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0115-0002	2	**.800** 20.32	**.250** 6.35	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0115-0003	3	**.800** 20.32	**.250** 6.35	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0115-0004	4	**.800** 20.32	**.250** 6.35	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0509-0002	2	**.800** 20.32	**.250** 6.35	**.116** 2.95	Dual shield cable version of RG 188 & 316	408-08508	RF-ASMB-8
70 Ohm Series .216 [5.49] -32 UNEF-2B Thread							
132-0200-0001	1	**.800** 20.32	**.281** 7.14	**.110** 2.79		408-08508	RF-ASMB-8
132-0200-0002	2	**.800** 20.32	**.290** 7.37	**.110** 2.79		408-08508	RF-ASMB-8
132-0200-0003	3	**.800** 20.32	**.281** 7.14	**.110** 2.79		408-08508	RF-ASMB-8
132-0200-0004	4	**.800** 20.32	**.281** 7.14	**.110** 2.79		408-08508	RF-ASMB-8
132-0201-0001	1	**.800** 20.32	**.281** 7.14	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0201-0002	2	**.800** 20.32	**.290** 7.37	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0201-0003	3	**.800** 20.32	**.281** 7.14	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8
132-0201-0004	4	**.800** 20.32	**.281** 7.14	**.110** 2.79	With environmental seal	408-08508	RF-ASMB-8

Catalog 1308638
Revised 8-05

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

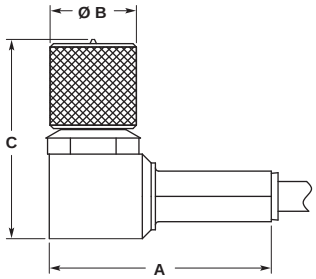
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Gold Plated Crimp Style Coaxial Connectors — Screw-On Series (Continued)

Straight Plugs (Continued)

Part No.	Fig.	Dim. A	Dim. B	Cable Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.
93 Ohm Series .250 [6.35] -32 UNEF-2B Thread							
132-0300-0001	1	**.795** 20.19	**.312** 7.92	**.155** 3.94		408-08508	RF-ASMB-8
132-0300-0002	2	**.795** 20.19	**.320** 8.13	**.155** 3.94		408-08508	RF-ASMB-8
132-0300-0003	3	**.795** 20.19	**.312** 7.92	**.155** 3.94		408-08508	RF-ASMB-8
132-0300-0004	4	**.795** 20.19	**.312** 7.92	**.155** 3.94		408-08508	RF-ASMB-8
132-0301-0001	1	**.795** 20.19	**.312** 7.92	**.155** 3.94	With environmental seal	408-08508	RF-ASMB-8
132-0301-0002	2	**.795** 20.19	**.320** 8.13	**.155** 3.94	With environmental seal	408-08508	RF-ASMB-8
132-0301-0003	3	**.795** 20.19	**.312** 7.92	**.155** 3.94	With environmental seal	408-08508	RF-ASMB-8
132-0301-0004	4	**.795** 20.19	**.312** 7.92	**.155** 3.94	With environmental seal	408-08508	RF-ASMB-8

Right-Angle Plugs



Knurl Nut

Part No.	Dim. A	Dim. B	Dim. C	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.
50 Ohm Series .190 [4.83] -32 UNF-2B Thread							
132-0116-0002	**.660** 16.76	**.250** 6.35	**.620** 15.75	**.088** 2.24		408-08509	RF-ASMB-11
132-0117-0002	**.660** 16.76	**.250** 6.35	**.620** 15.75	**.088** 2.24	With environmental seal	408-08509	RF-ASMB-11
132-0118-0002	**.695** 17.65	**.250** 6.35	**.650** 16.51	**.110** 2.79		408-08509	RF-ASMB-11
132-0119-0002	**.695** 17.65	**.250** 6.35	**.650** 16.51	**.110** 2.79	With environmental seal	408-08509	RF-ASMB-11
70 Ohm Series .216 [5.49] -32 UNEF-2B Thread							
132-0202-0002	**.695** 17.65	**.290** 7.37	**.650** 16.51	**.110** 2.79		408-08509	RF-ASMB-11
132-0203-0002	**.695** 17.65	**.290** 7.37	**.650** 16.51	**.110** 2.79	With environmental seal	408-08509	RF-ASMB-11
93 Ohm Series .250 [6.35] -32 UNEF-2B Thread							
132-0302-0002	**.710** 18.03	**.320** 8.13	**.680** 17.27	**.155** 3.94		408-08509	RF-ASMB-11
132-0303-0002	**.710** 18.03	**.320** 8.13	**.680** 17.27	**.155** 3.94	With environmental seal	408-08509	RF-ASMB-11

Catalog 1308638
Revised 8-05

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Gold Plated Crimp Style Coaxial Connectors — Screw-On Series (Continued)

Jacks

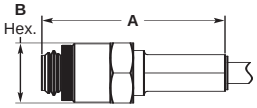


Fig. 1

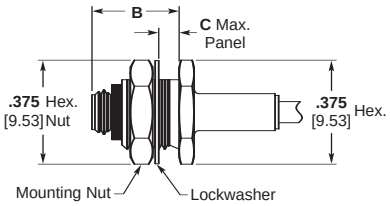
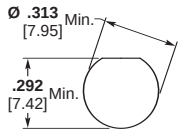


Fig. 2



Mounting Hole

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.
50 Ohm Series .190 [4.83] -32 UNF-2B Thread								
131-0134-0001	1	**.770** 19.56	**.250** 6.35	—	**.088** 2.24		408-08508	RF-ASMB-8
131-0135-0001	2	**.770** 19.56	**.360** 9.14	**.105** 2.67	**.088** 2.24		408-08508	RF-ASMB-8
131-0136-0001	1	**.770** 19.56	**.250** 6.35	—	**.110** 2.79		408-08508	RF-ASMB-8
131-0137-0001	2	**.770** 19.56	**.360** 9.14	**.105** 2.67	**.110** 2.79		408-08508	RF-ASMB-8
131-0150-0001	1	**.770** 19.56	**.250** 6.35	—	**.116** 2.95	Dual Shield Cable Version of RG 188 & 316	408-08508	RF-ASMB-8
131-0151-0001	2	**.770** 19.56	**.360** 9.14	**.105** 2.67	**.116** 2.95	Dual Shield Cable Version of RG 188 & 316	408-08508	RF-ASMB-8
70 Ohm Series .216 [5.49] -32 UNEF-2B Thread								
131-0200-0001	1	**.770** 19.56	**.281** 7.14	—	**.110** 2.79		408-08508	RF-ASMB-8
131-0201-0001	2	**.770** 19.56	**.360** 9.14	**.100** 2.54	**.110** 2.79		408-08508	RF-ASMB-8
93 Ohm Series .250 [6.35] -32 UNEF-2B Thread								
131-0300-0001	1	**.760** 19.30	**.312** 7.92	—	**.155** 3.94		408-08508	RF-ASMB-8
131-0301-0001	2	**.760** 19.30	**.350** 8.89	**.095** 2.41	**.155** 3.94		408-08508	RF-ASMB-8

Catalog 1308638
Revised 8-05

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Gold Plated Crimp Style Coaxial Connectors — Screw-On Series (Continued)

Receptacles

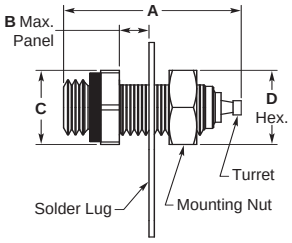


Fig. 1

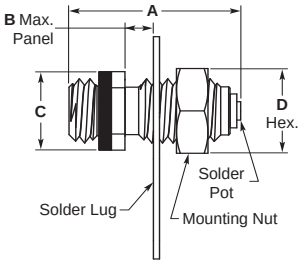
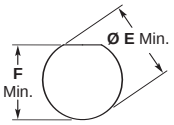


Fig. 2



Mounting Hole
for Fig. 1 & 2

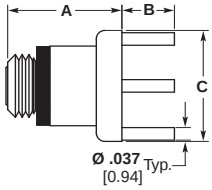


Fig. 3

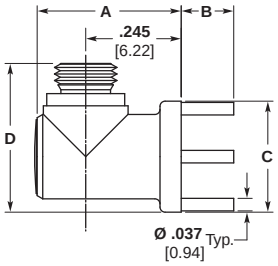
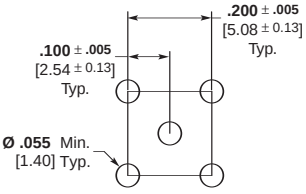


Fig. 4



Mounting Pattern
for Fig. 3 & 4

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Special Features
50 Ohm Series .190 [4.83] -32 UNF-2A Thread								
131-0138-0002	1	**.605** 15.37	**.160** 4.06	**.250** 6.35 Hex.	**.250** 6.35	**.191** 4.85	**.173** 4.39	
131-0139-0002	2	**.515** 13.08	**.150** 3.81	**.187** 4.75 Wrench Flats	**.250** 6.35	**.191** 4.85	—	No Mounting Flat
131-0140-0001	2	**.255** 6.48	—	**.187** 4.75 Wrench Flats	—	**.190** 4.83 -32 Thd.	—	No Nut or Solder Lug, Threads into Panel
131-0141-0002	3	**.340** 8.64	**.155** 3.94	**.330** 8.38 Dia.	—	—	—	
131-0142-0002	4	**.425** 10.80	**.155** 3.94	**.330** 8.38 Dia.	**.480** 12.19	—	—	
70 Ohm Series .216 [5.49] -32 UNEF-2A Thread								
131-0202-0002	1	**.605** 15.37	**.160** 4.06	**.250** 6.35 Hex.	**.281** 7.14	**.217** 5.51	**.197** 5.00	
131-0705-0001	3	**.340** 8.64	**.155** 3.94	**.330** 8.38 Dia.	—	—	—	
93 Ohm Series .250 [6.35] -32 UNEF-2A Thread								
131-0303-0002	3	**.340** 8.64	**.155** 3.94	**.330** 8.38 Dia.	—	—	—	
131-0304-0001	4	**.425** 10.80	**.155** 3.94	**.330** 8.38 Dia.	**.480** 12.19	—	—	
131-0904-0001	1	**.605** 15.37	**.160** 4.06	**.312** 7.92 Hex.	**.312** 7.92	**.251** 6.38	**.232** 5.89	

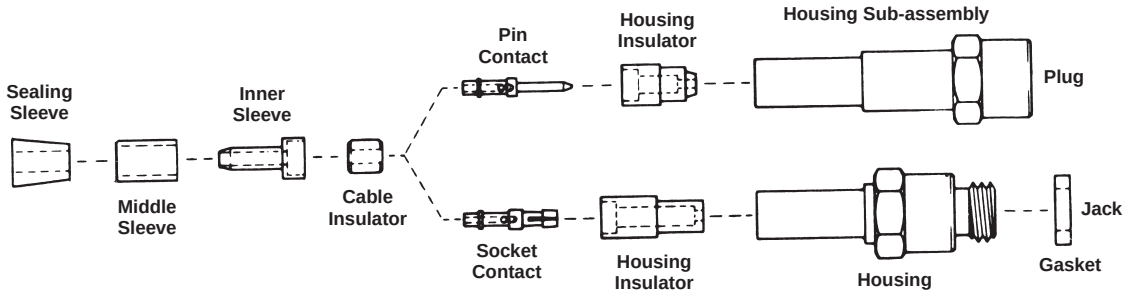
Gold Plated Crimp Style Coaxial Connectors Assembly Tools

Table 1. Contact Crimp Tools

MICRODOT Part No.	Manufacturers Part No.
010-0065-0000	Astro Tool A-810-3

Table 2. Housing Crimp Tools

MICRODOT Part No.	Thomas & Betts Part No.	Max. Cable Diameter
010-0081-0000	WT-400	**.088** [2.24]
010-0082-0000	WT-402	**.110** [2.79]
010-0083-0000	WT-406	**.155** [3.94]



Catalog 1308638
Revised 8-05

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967