

Performance Data Summary
For Gold Plated Crimp Style Coaxial Connectors

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 Resistance¹ — MIL-STD-202, Method 106.

Salt Spray¹ — 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 10³ Megohms min. @ 500 volts D.C.

Voltage Standing Wave Ratio³ (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 Seal⁴, 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:

¹Screw-On Series threaded interface.

²Tyco Electronics recommends the use of wired connectors in vibration and shock environments. See individual specifications for connectors with wire holes.

³VSWR 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.



Gold Plated Crimp Style Coaxial Connectors — Screw-On Series

Straight Plugs

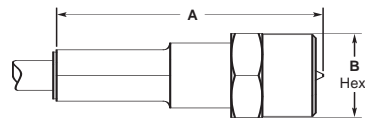


Fig. 1
Partial Hex. Nut

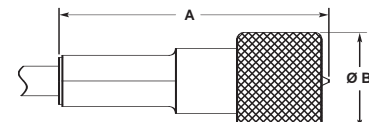


Fig. 2
Knurl Nut

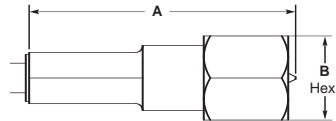


Fig. 3
Full Hex. Nut

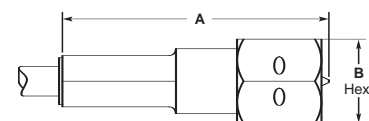


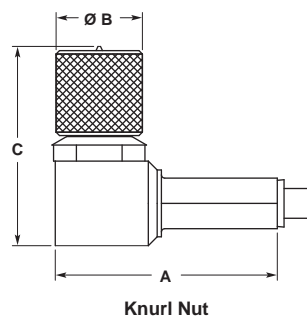
Fig. 4
Hex. Nut w/ 3 Safety Wire Holes

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

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



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

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

Jacks

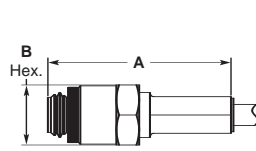


Fig. 1

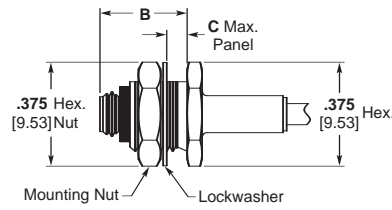
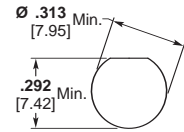


Fig. 2



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

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

Receptacles

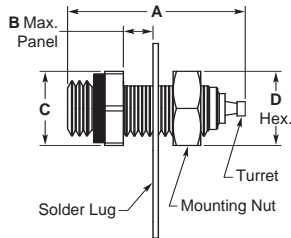


Fig. 1

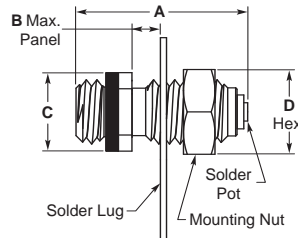
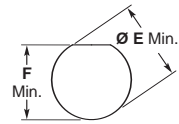


Fig. 2



Mounting Hole for Fig. 1 & 2

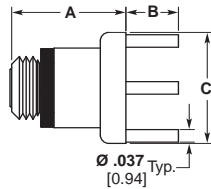


Fig. 3

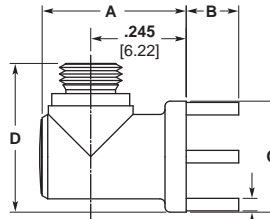
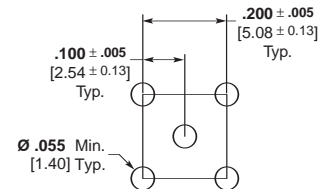


Fig. 4



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	

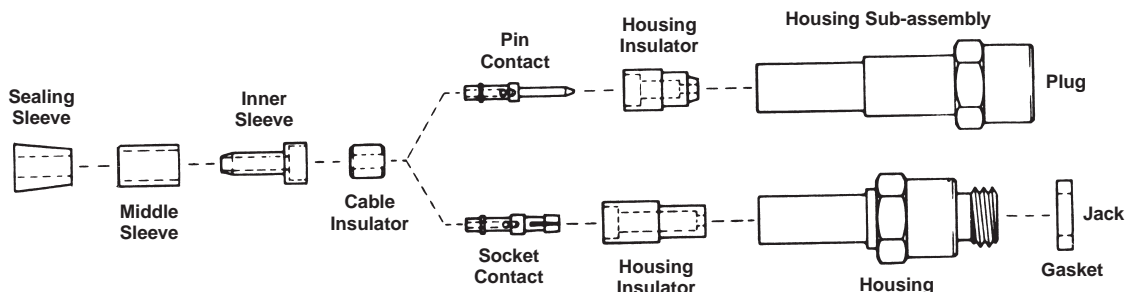
Gold Plated Crimp Style Coaxial Connectors Assembly Tools

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]



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