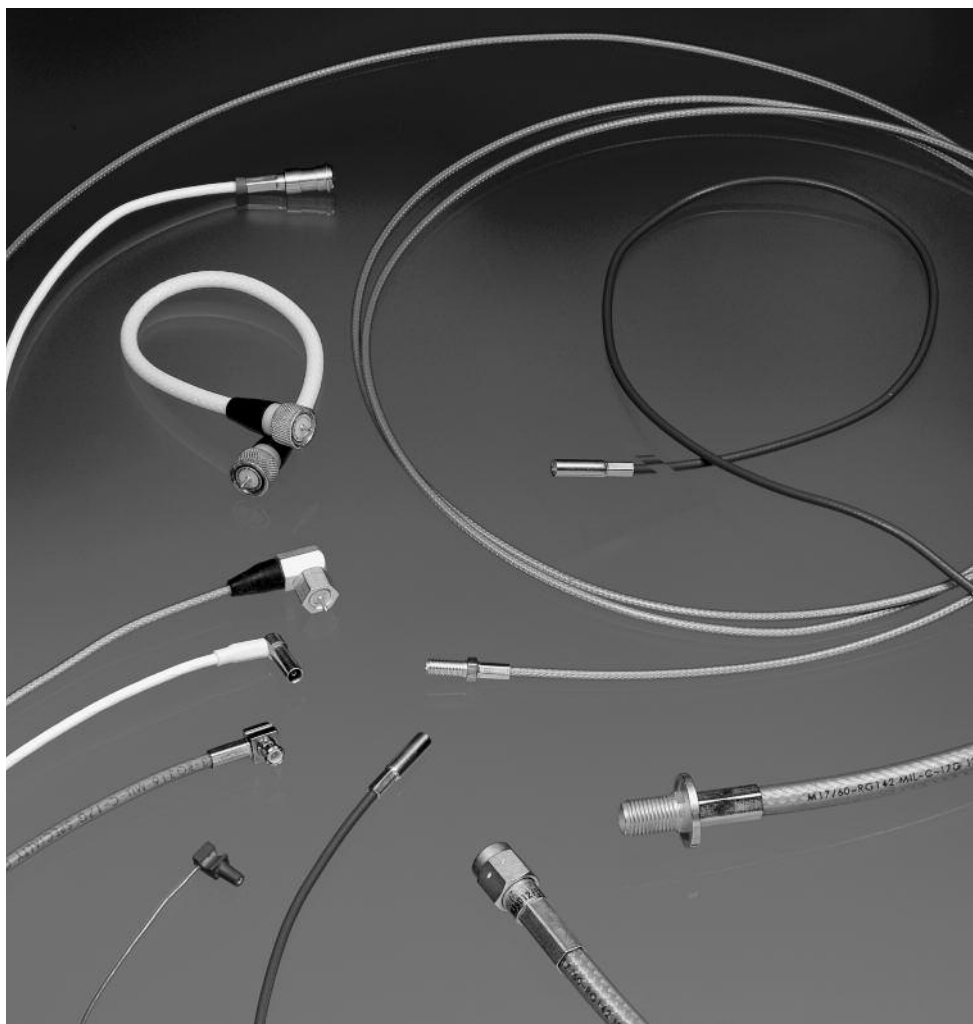


MICRODOT Coaxial Connectors Introduction

Product Facts

- Designed to accept 50, 70 and 93 ohm miniature coaxial cables
- Three types of connectors: Screw-on Series, Slide-on Series and Quick-Connect Series
- Temperature range —
-85°F to +257°F [-65°C to +125°C] (with neoprene gasket or bend relief cap)
-80°F to 392°F [-62°C to +200°C] (with silicone gasket or bend relief cap)
- Dielectric Withstanding Voltage — 1000 volts RMS at sea level
- Contact Resistance — 3 milliohms max., D.C.
- Captive Contacts — Terminated connector contacts captivated from movement in both directions



MICRODOT Standard Coaxial Connectors are designed to accept 50, 70, and 93 Ohm miniature coaxial cables. These connectors are available as Screw-On Series, Slide-On Series, or Quick-Connect Series. The Screw-On Series is intermateable with

the Gold Plated Crimp Style Coaxial Connector Series and offers the dependability of a threaded coupling. For enhanced safety, choose connectors with wire holes.

Choose Slide-On Series for the fastest, most convenient mating and unmating.

The Quick-Connect Series offers the convenience of Slide-On coupling with added retention provided by a snap ring located on the jack/receptacle side.

Consult TE Connectivity for special cable accommodations and mounting features.

MICRODOT Standard Connectors

Performance Data Summary For Standard Connectors

Mechanical

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

Cable Retention

50 Ohm connectors, 15 lb. min.¹
70 Ohm connectors, 25 lb. min.¹
93 Ohm connectors, 35 lb. min.¹

Recommended Coupling Torque (Threaded Interface) —

8 inch/pounds max.

Recommended Receptacle

Mounting Torque (All Series) —
8 inch/pounds max.

Unmating Force (Slide-On Series) —
1-7 pounds.

Contact Protection (Unmated) —

Pin contact protected by coupling nut (threaded series)² or by housing (Quick-Connect and Slide-On Series). Socket protected by insulator and housing.

Assembly Methods

Straight Plugs & Jacks —

Cable Inner Conductor — Soldered to contact.

Cable Shield — Crimped to jerk ring (solder optional).

Angle Plugs —

Cable Inner Conductor — Soldered to contact.

Cable Shield — Soldered to ring & housing.

Environmental

Temperature Range (Continuous Service) — -85°F to +257°F [-65°C to +125°C] (with Neoprene gasket or bend relief cap). -80°F to 392°F [-62°C to +200°C] (with Silicone gasket or bend relief cap).

Vibration^{3,4} — MIL-STD-202, Method 204, Test condition B (15 G peak). No physical damage or electrical discontinuities in excess of 1 microsecond.

Shock^{3,4} — 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 B.

Moisture Resistance³ — MIL-STD-202, Method 106.

Salt Spray³ — 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 — 3 milliohms max., D.C.

Current Capacity — 3 amps, D.C.

Insulation Resistance — 5 x 10³ Megohms min. @ 500 volts D.C.

Voltage Standing Wave Ratio⁵ (VSWR) — Typical 50 Ohm series, 1.2 max. to 2 GHz.

Materials

Housing, Nut, Jerk Ring — Brass per ASTM-B-16.

Insulator — PTFE per ASTM-D-1710.

Pin Contact (Plugs) — Brass per ASTM-B-16.

Socket Contact (Jacks & Receptacles) — Beryllium Copper per ASTM-B-196.

Bend Relief Caps (Plugs & Jacks) —
Neoprene or Silicone Rubber per ZZ-R-765.

Gaskets (Jacks & Receptacles) —
Neoprene or Silicone Rubber per ZZ-R-765.

Lockwasher — #425 Bronze Alloy.

Plating

Contacts — Gold per MIL-G-45204, Type II, Grade C, Class 1.

Housing, Nut, Jerk Ring, Lockwasher — Silver per QQ-S-365, Type II, Grade A, .0002 [.005] min.

Notes:

¹Termination to cables with foamed dielectrics excluded. Straight connector jerk rings must be soldered to cable shield.

²Pin protector required. See individual connector specifications.

³Screw-On Series, threaded interface.

⁴TE Connectivity recommends the use of safety wired connectors in vibration and shock environment. See individual specifications for connectors with safety wire holes.

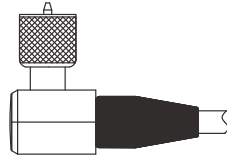
⁵VSWR is a system specification. Where performance is critical, purchase TE cable assemblies with Screw-On or Quick-Connect Series connectors and specify VSWR testing and mating connector part number.

MICRODOT Standard Connectors — Screw-On Series



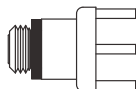
Plug

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
032-0021-0001	032-0010-0001	032-0011-0001
032-0023-0001	032-0022-0001	032-0017-0001
032-0025-0001	032-0067-0001	032-0066-0001
032-0033-0001	032-0078-0001	032-0071-0001
032-0097-0001	032-0222-0001	032-0092-0001
032-0098-0001	052-0092-0001	032-0099-0001
032-0155-0001		052-0200-0001
032-0156-0001		
052-0213-0001		
052-0235-0001		
052-0235-0003		
052-0370-0001		
052-0542-0001		



Right-Angle Plug

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
032-0015-0001	032-0013-0001	032-0014-0001
052-0204-0001	052-0299-0001	032-0068-0001
052-0215-0001	052-0379-0001	032-0153-0001
052-0337-0001		052-0207-0001
		052-0298-0001
		052-0304-0022



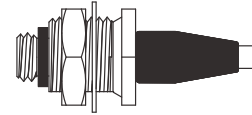
Printed Circuit Receptacle

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
031-0059-0001	031-0069-0001	031-0067-0001
031-0062-0001		031-0080-0001
051-0450-0001		



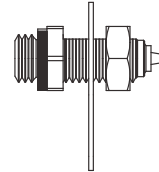
Jack

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
031-0034-0001	031-0036-0001	031-0037-0001
051-0467-0001	031-0090-0001	031-0088-0001



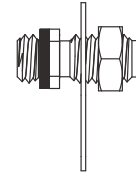
Bulkhead Jack

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
031-0033-0001	031-0048-0001	031-0032-0001
		031-0089-0001



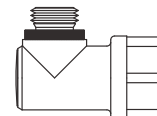
Receptacle

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
031-0050-0001	031-0051-0001	031-0052-0001
051-0318-0001		



Receptacle

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
031-0001-0001	031-0017-0001	031-0016-0001
031-0001-0003	031-0018-0001	031-0019-0001
031-0002-0001		031-0046-0001
031-0003-0001		
031-0024-0001		
051-0125-0001		



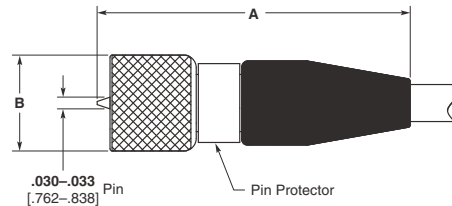
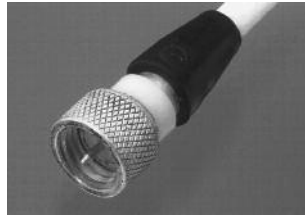
Right-Angle Printed Circuit Receptacle

S-50 Ohm Series	S-70 Ohm Series	S-93 Ohm Series
031-0061-0001	031-0072-0001	031-0073-0001
051-0459-0001		

MICRODOT Standard Connectors — Screw-On Series (Continued)

Plugs

S-50, 70 & 93

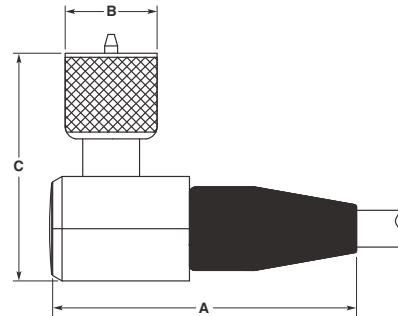
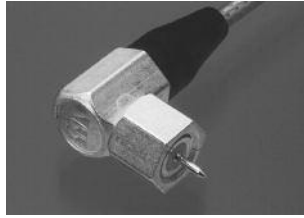


Part No.	Dim. A	Dim. B	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
S-50 Series (50 Ohm) .190 [4.83] -32 UNF-2B Thread							
032-0021-0001	.745 18.92	.230 5.84 Dia.	.087 2.21	¹ Solderless Assembly	408-8521	RF-ASMB-88	010-0003-0000
032-0023-0001	.745 18.92	.230 5.84 Dia.	.087 2.21	¹	408-8522	RF-ASMB-89	010-0003-0000
032-0025-0001	.745 18.92	.230 5.84 Dia.	.093 2.36	¹ Solderless Assembly	408-8521	RF-ASMB-88	010-0003-0000
032-0033-0001	.745 18.92	.230 5.84 Dia.	.093 2.36	¹	408-8522	RF-ASMB-89	010-0003-0000
032-0097-0001	.745 18.92	.250 6.35 Hex.	.087 2.21	¹ Solderless Assembly, Hex Nut	408-8521	RF-ASMB-88	010-0003-0000
032-0098-0001	.745 18.92	.250 6.35 Hex.	.087 2.21	Hex Nut	408-8522	RF-ASMB-89	010-0003-0000
032-0155-0001	.700 17.78	.250 6.35 Hex.	.088 2.24	^{1,2} Hex Nut, .187 [4.75] Hex Cable Clamp Nut	408-8522	RF-ASMB-89	010-0003-0000
032-0156-0001	.700 17.78	.250 6.35 Dia.	.088 2.24	^{1,2} .187 [4.75] Hex Cable Clamp Nut	408-8522	RF-ASMB-89	010-0003-0000
052-0213-0001	.745 18.92	.250 6.35 Hex.	.087 2.21	¹ Solderless, Hex Nut w/ Safety Wire Holes, .021 [0.53] Wire Max.	408-8521	RF-ASMB-88	010-0003-0000
052-0235-0001	.745 18.92	.250 6.35 Hex.	.087 2.21	^{1,2} Hex Nut	408-8522	RF-ASMB-89	010-0003-0000
052-0235-0003	.745 18.92	.250 6.35 Hex.	.087 2.21	^{1,2} Hex Nut w/ Safety Wire Holes, .021 [0.53] Wire Max.	408-8522	RF-ASMB-89	010-0003-0000
052-0370-0001	.745 18.92	.250 6.35 Hex.	.093 2.36	¹ Hex Nut, Designed for Dual Shield Cable	408-8522	RF-ASMB-89	010-0003-0000
052-0542-0001	.745 18.92	.250 6.35 Hex.	.087 2.21	¹ Hex Nut	408-8522	RF-ASMB-89	010-0003-0000
S-70 Series (70 Ohm) .216 [5.49] -32 UNEF-2B Thread							
032-0010-0001	.760 19.30	.255 6.48 Dia.	.093 2.36	¹ Solderless Assembly	408-8521	RF-ASMB-88	010-0004-0000
032-0022-0001	.760 19.30	.255 6.48 Dia.	.093 2.36	¹	408-8525	RF-ASMB-95	010-0004-0000
032-0067-0001	.755 19.18	.255 6.48 Dia.	.108 2.74	¹	408-8522	RF-ASMB-89	010-0035-0000
032-0078-0001	.755 19.18	.255 6.48 Dia.	.108 2.74	¹ Solderless Assembly	408-8521	RF-ASMB-88	010-0035-0000
032-0222-0001	.760 19.30	.281 7.14 Hex.	.093 2.36	¹ Hex Nut w/ Safety Wire Holes, .014 [0.35] Wire Max.	408-8525	RF-ASMB-95	010-0004-0000
052-0092-0001	.760 19.30	.255 6.48 Dia.	.093 2.36	²	408-8525	RF-ASMB-95	010-0004-0000
S-93 Series (93 Ohm) .250 [6.35] -32 UNEF-2B Thread							
032-0011-0001	.760 19.30	.320 8.13 Dia.	.134 3.40	¹ Solderless Assembly	408-8521	RF-ASMB-88	010-0005-0000
032-0017-0001	.760 19.30	.320 8.13 Dia.	.134 3.40	¹	408-8525	RF-ASMB-95	010-0005-0000
032-0066-0001	.950 24.13	.350 8.89 Dia.	.154 3.91	¹ Silicone Bend Relief Cap	408-8523	RF-ASMB-90	—
032-0071-0001	.760 19.30	.320 8.13 Dia.	.134 3.40	¹ Cable Inner Conductor, .031 [0.78] Max.	408-8525	RF-ASMB-95	010-0005-0000
032-0092-0001	.760 19.30	.320 8.13 Dia.	.155 3.94	¹	408-8525	RF-ASMB-95	010-0044-0000
032-0099-0001	.760 19.30	.312 7.92 Hex.	.134 3.40	¹ Hex Nut	408-8525	RF-ASMB-95	010-0005-0000
052-0200-0001	.760 19.30	.312 7.92 Hex.	.134 3.40	¹ Hex Nut w/ Safety Wire Holes, .015 [0.38] Wire Max.	408-8525	RF-ASMB-95	010-0005-0000

¹Pin protected.

²Hole in ferrule permits soldering to clamp ring and shield for increased cable pullout strength.

MICRODOT Standard Connectors — Screw-On Series (Continued)

Right-Angle Plugs
S-50, 70 & 93


Part No.	Dim. A	Dim. B	Dim. C	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
S-50 Series (50 Ohm) .190 [4.83] -32 UNF-2B Thread								
032-0015-0001	.735 18.67	.225 5.72 Dia.	.570 14.48	.092 2.34		408-8520	RF-ASMB-87	010-0016-0000
052-0204-0001	.735 18.67	.250 6.35 Hex.	.570 14.48	.092 2.34	Hex Nut	408-8520	RF-ASMB-87	010-0016-0000
052-0215-0001	.735 18.67	.250 6.35 Hex.	.570 14.48	.092 2.34	Hex Nut w/ Safety Wire Holes, .021 [.533] Wire Max.	408-8520	RF-ASMB-87	010-0016-0000
052-0337-0001	.745 18.92	.225 5.72 Dia.	.570 14.48	.111 2.82	Dual Shield Cable	408-8520	RF-ASMB-87	010-0016-0000
S-70 Series (70 Ohm) .216 [5.49] -32 UNEF-2B Thread								
032-0013-0001	.745 18.92	.255 6.48 Dia.	.570 14.48	.111 2.82		408-8520	RF-ASMB-87	010-0016-0000
052-0299-0001	.745 18.92	.281 7.14 Hex.	.570 14.48	.111 2.82	Hex Nut w/ Safety Wire Holes, .014 [.355] Wire Max.	408-8520	RF-ASMB-87	010-0016-0000
052-0379-0001	.745 18.92	.281 7.14 Hex.	.570 14.48	.111 2.82	Hex Nut	408-8520	RF-ASMB-87	010-0016-0000
S-93 Series (93 Ohm) .250 [6.35] -32 UNEF-2B Thread								
032-0014-0001	.745 18.92	.320 8.13 Dia.	.630 16.00	.134 3.40		408-8520	RF-ASMB-87	010-0017-0000
032-0068-0001	.745 18.92	.320 8.13 Dia.	.630 16.00	.155 3.94		408-8520	RF-ASMB-87	010-0017-0000
032-0153-0001	.745 18.92	.312 7.92 Hex.	.630 16.00	.155 3.94	Hex Nut	408-8520	RF-ASMB-87	010-0017-0000
052-0207-0001	.745 18.92	.312 7.92 Hex.	.630 16.00	.134 3.40	Hex Nut	408-8520	RF-ASMB-87	010-0017-0000
052-0298-0001	.745 18.92	.312 7.92 Hex.	.630 16.00	.134 3.40	Hex Nut w/ Safety Wire Holes, .015 [.381] Wire Max.	408-8520	RF-ASMB-87	010-0017-0000
052-0304-0022	.745 18.92	.312 7.92 Hex.	.630 16.00	.155 3.94	Hex Nut w/ Safety Wire Holes, .015 [.381] Wire Max., Silicone Bend Relief Cap	408-8520	RF-ASMB-87	010-0017-0000

MICRODOT Standard Connectors — Screw-On Series (Continued)

Jacks

S-50, 70 & 93

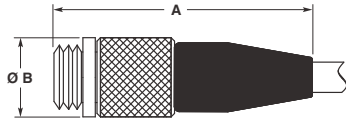


Fig. 1

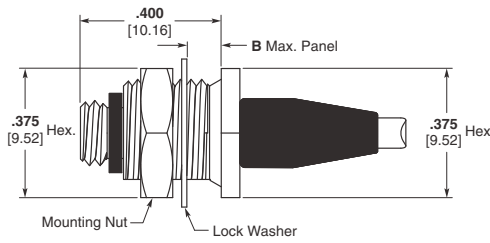
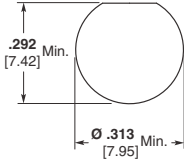


Fig. 2



Mounting Hole

Part No.	Fig.	Dim. A	Dim. B	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
S-50 Series (50 Ohm) .190 [4.83] -32 UNF-2A Thread								
031-0033-0001	2	.870 22.10	.140 3.56	.088 2.24		408-8522	RF-ASMB-89	010-0003-0000
031-0034-0001	1	.750 19.05	.235 5.97	.087 2.21		408-8522	RF-ASMB-89	010-0003-0000
051-0467-0001	1	.720 18.30	.235 5.97	.079 2.01	Hex Collet Cable Clamp	408-8522	RF-ASMB-89	010-0003-0000
S-70 Series (70 Ohm) .216 [5.49] -32 UNEF-2A Thread								
031-0036-0001	1	.760 19.30	.255 6.48	.093 2.36		408-8522	RF-ASMB-89	010-0004-0000
031-0048-0001	2	.880 22.35	.140 3.56	.093 2.36		408-8525	RF-ASMB-95	010-0004-0000
031-0090-0001	1	.760 19.30	.255 6.48	.109 2.77		408-8522	RF-ASMB-89	010-0035-0000
S-93 Series (93 Ohm) .250 [6.35] -32 UNEF-2A Thread								
031-0032-0001	2	.880 22.35	.155 3.94	.134 3.40		408-8525	RF-ASMB-95	010-0005-0000
031-0037-0001	1	.760 19.30	.320 8.13	.134 3.40		408-8525	RF-ASMB-95	010-0005-0000
031-0088-0001	1	1.000 25.40	.320 8.13	.154 3.91		408-8533	RF-ASMB-106	—
031-0089-0001	2	.750 19.05	.140 3.56	.154 3.91	No Mounting Flat, Hex Nut Cable Clamp	408-8524	RF-ASMB-92	—

MICRODOT Standard Connectors — Screw-On Series (Continued)

Receptacles

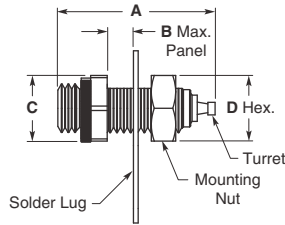


Fig. 1

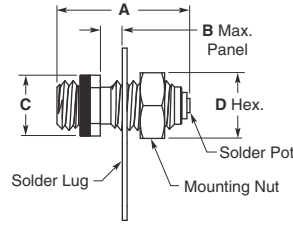


Fig. 2

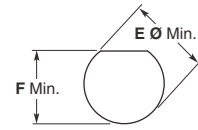
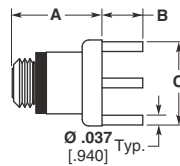

Mounting Hole
for Fig. 1 & 2


Fig. 3

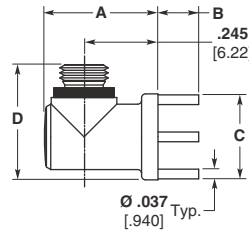
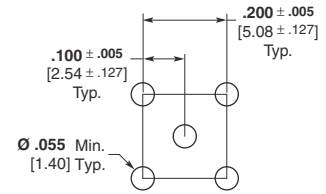


Fig. 4


Mounting Pattern
for Fig. 3 & 4

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Special Features
S-50 Series (50 Ohm) .190 [4.83] -32 UNF-2A Thread								
031-0001-0001	2	.515 13.08	.080 2.03	.187 4.75	Wrench Flats	.250 6.35	.191 4.85	No Mounting Flat
031-0001-0003	2	.510 12.95	.110 2.80	.187 4.75	Wrench Flats	.250 6.35	.191 4.85	No Mounting Flat
031-0002-0001	2	.515 13.08	.150 3.81	.187 4.75	Wrench Flats	.250 6.35	.191 4.85	No Mounting Flat
031-0003-0001	2	.255 6.48	—	.187 4.75	Wrench Flats	—	.190 4.83	-32 No Nut or Solder Lug, Threads into Panel
031-0024-0001	2	.555 14.10	.120 3.05	.344 8.74	Wrench Flats	.438 11.13	.345 8.76	Housing Isolated by Nylon Insulator
031-0050-0001	1	.605 15.37	.160 4.06	.250 6.35	Hex.	.250 4.75	.191 4.85	.173 4.39
031-0059-0001	3	.340 8.64	.155 3.93	.330 8.38	Dia.	—	—	—
031-0061-0001	4	.425 10.80	.155 3.93	.330 8.38	Dia.	.480 12.20	—	—
031-0062-0001	3	.345 8.76	.250 6.35	.330 8.38	Dia.	—	—	—
051-0125-0001	2	.315 8.00	.125 3.18	.187 4.75	Wrench Flats	—	.138 3.50	No Mounting Thread, Solder or Press into Panel
051-0318-0001	1	.605 15.37	.160 4.06	.250 6.35	Hex.	.250 4.75	.191 4.85	.173 4.39
051-0450-0001	3	.340 8.64	.050 1.27	.330 8.38	Dia.	—	—	—
051-0459-0001	4	.425 10.80	.155 3.93	.330 8.38	Dia.	.480 12.20	—	—
S-70 Series (70 Ohm) .216 [5.49] -32 UNEF-2A Thread								
031-0017-0001	2	.555 14.10	.100 2.54	.250 6.35	Hex.	.281 7.14	.217 5.51	No Mounting Flat
031-0018-0001	2	.555 14.10	.160 4.06	.250 6.35	Hex.	.281 7.14	.217 5.51	No Mounting Flat
031-0051-0001	1	.605 15.37	.160 4.06	.250 6.35	Hex.	.281 7.14	.217 5.51	.197 5.00
031-0069-0001	3	.340 8.64	.155 3.94	.330 8.38	Dia.	—	—	—
031-0072-0001	4	.425 10.80	.155 3.94	.330 8.38	Dia.	.480 12.20	—	—

MICRODOT Standard Connectors — Screw-On Series (Continued)

Receptacles (Continued)

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Special Features
S-93 Series (93 Ohm) .250 [6.35] -32 UNEF-2A Thread								
031-0016-0001	2	.555 14.10	.100 2.54	.312 7.92 Hex.	.312 7.92	.251 6.38	—	No Mounting Flat
031-0019-0001	2	.555 14.10	.160 2.54	.312 7.92 Hex.	.312 7.92	.251 6.38	—	No Mounting Flat
031-0046-0001	2	.555 3.05	.120 3.05	.345 8.76 Wrench Flats	.438 11.13	.345 8.76	—	Housing Isolated by Nylon Insulator
031-0052-0001	1	.605 15.37	.160 2.54	.312 7.92 Hex.	.312 7.92	.251 6.38	.232 5.89	
031-0067-0001	3	.340 8.64	.155 3.94	.330 8.38 Dia.	—	—	—	
031-0073-0001	4	.425 10.80	.155 3.94	.330 8.38 Dia.	.480 12.20	—	—	
031-0080-0001	3	.345 8.76	.250 6.35	.330 8.38 Dia.	—	—	—	

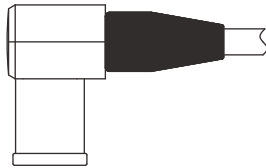
MICRODOT Standard Connectors — Slide-On Series

All plugs shown below mate with all jacks/receptacles shown below.



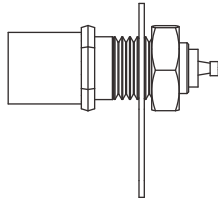
Plug

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
032-0055-0001	032-0060-0001	032-0077-0001
	032-0087-0001	032-0084-0001



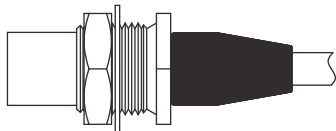
Right-Angle Plug

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
032-0063-0001	032-0062-0001	032-0059-0001
		032-0083-0001



Plug Receptacle

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
032-0042-0001	032-0042-0001	032-0042-0001
052-0061-0001	052-0061-0001	052-0061-0001
052-0471-0001	052-0471-0001	052-0471-0001



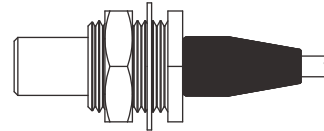
Bulkhead Plug

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
032-0056-0001	032-0061-0001	032-0058-0001



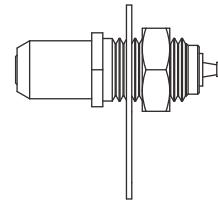
Jack

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
031-0053-0001	031-0095-0001	031-0063-0001
		031-0093-0001



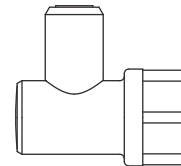
Bulkhead Jack

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
031-0054-0001		031-0064-0001
		031-0094-0001



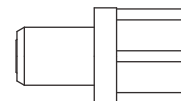
Receptacle

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
031-0049-0001	031-0049-0001	031-0049-0001
051-0258-0001	051-0258-0001	051-0258-0001
051-0325-0001	051-0325-0001	051-0325-0001



Right-Angle Printed Circuit Receptacle

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
031-0070-0001	031-0070-0001	031-0070-0001



Printed Circuit Receptacle

SOS-50 Ohm Series	SOS-70 Ohm Series	SOS-93 Ohm Series
031-0060-0001	031-0060-0001	031-0060-0001
031-0065-0001	031-0065-0001	031-0065-0001

MICRODOT Standard Connectors — Slide-On Series (Continued)

Straight Plugs

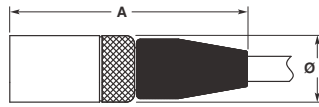
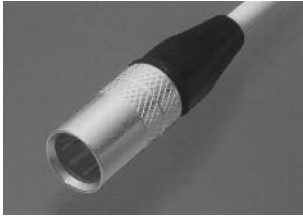
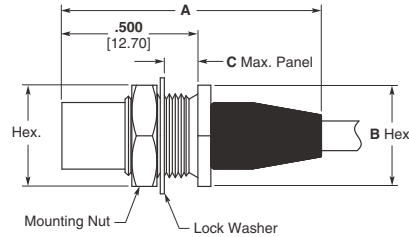
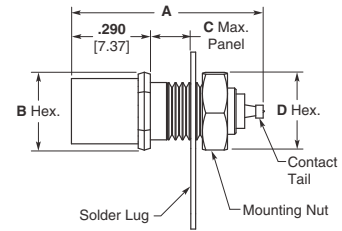
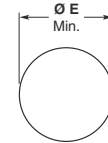


Fig. 1

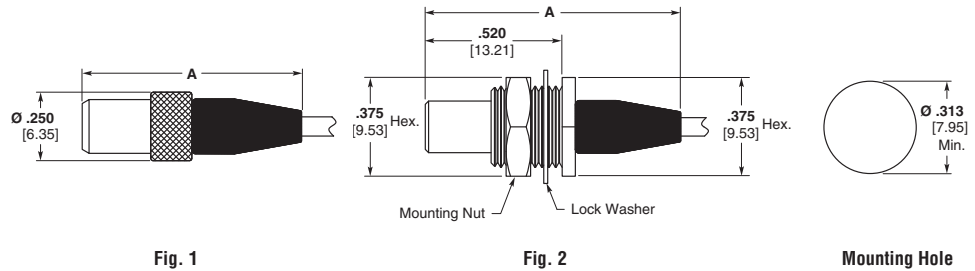

Fig. 3
Bulkhead Plug

Fig. 2
Plug Receptacle

Mounting Hole
for Fig. 2 & 3

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Cable Max. Jacket	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
SOS-50 Series (50 Ohm)											
032-0042-0001	2	.705 17.91	.250 6.35	.160 4.06	.281 7.14	.217 5.51	—	Turret Pin Contact Tail	—	—	—
032-0055-0001	1	.870 22.10	.250 6.35	—	—	—	.088 2.24	—	408-8526	RF-ASMB-97	010-0007-0000
032-0056-0001	3	.950 24.13	.375 9.53	.145 3.68	.375 9.53	.313 7.95	.088 2.24	—	408-8526	RF-ASMB-97	010-0007-0000
052-0061-0001	2	.750 19.05	.250 6.35	.160 4.06	.281 7.14	.217 5.51	—	Solder Pot Contact Tail	—	—	—
052-0471-0001	2	.590 14.99	.250 6.35	.095 2.41	.281 7.14	.217 5.51	—	Straight Pin Contact Tail ¹	—	—	—
SOS-70 Series (70 Ohm)											
032-0042-0001	2	.705 17.91	.250 6.35	.160 4.06	.281 7.14	.217 5.51	—	Turret Pin Contact Tail	—	—	—
032-0060-0001	1	.880 22.35	.250 6.35	—	—	—	.093 2.36	—	408-8529	RF-ASMB-102	010-0007-0000
032-0061-0001	3	.960 24.38	.375 9.53	.145 3.68	.375 9.53	.313 7.95	.093 2.36	—	408-8526	RF-ASMB-97	010-0007-0000
032-0087-0001	1	.880 22.35	.250 6.35	—	—	—	.108 2.24	—	408-8526	RF-ASMB-97	010-0036-0000
052-0061-0001	2	.750 19.05	.250 6.35	.160 4.06	.281 7.14	.217 5.51	—	Solder Pot Contact Tail	—	—	—
052-0471-0001	2	.590 14.99	.250 6.35	.095 2.41	.281 7.14	.217 5.51	—	Straight Pin Contact Tail ¹	—	—	—
SOS-93 Series (93 Ohm)											
032-0042-0001	2	.705 17.91	.250 6.35	.160 4.06	.281 7.14	.217 5.51	—	Turret Pin Contact Tail	—	—	—
032-0058-0001	3	.960 24.38	.375 9.53	.145 3.68	.375 9.53	.313 7.95	.134 3.40	—	408-8529	RF-ASMB-102	010-1008-0000
032-0077-0001	1	.880 22.35	.250 6.35	—	—	—	.134 3.40	—	408-8529	RF-ASMB-102	010-1008-0000
032-0084-0001	1	1.06 26.92	.250 6.35	—	—	—	.154 3.91	—	408-8523	RF-ASMB-90	—
052-0061-0001	2	.750 19.05	.250 6.35	.160 4.06	.281 7.14	.217 5.51	—	Solder Pot Contact Tail	—	—	—
052-0471-0001	2	.590 14.99	.250 6.35	.095 2.41	.281 7.14	.217 5.51	—	Straight Pin Contact Tail ¹	—	—	—

¹Lockwasher supplied in place of solder lug.

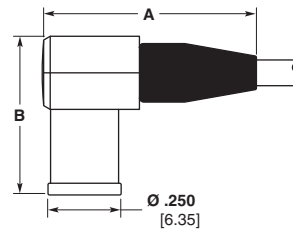
MICRODOT Standard Connectors — Slide-On Series (Continued)

Jacks



Part No.	Fig.	Dim. A	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
SOS-50 Series (50 Ohm)							
031-0053-0001	1	.800 20.32	.088 2.24		408-8531	RF-ASMB-104	010-0007-0000
031-0054-0001	2	.970 24.64	.088 2.24		408-8531	RF-ASMB-104	010-0007-0000
SOS-70 Series (70 Ohm)							
031-0095-0001	1	.810 20.57	.108 2.74		408-8531	RF-ASMB-104	010-0036-0000
SOS-93 Series (93 Ohm)							
031-0063-0001	1	.810 20.57	.134 3.40		408-8530	RF-ASMB-103	010-1008-0000
031-0064-0001	2	.980 24.89	.134 3.40		408-8530	RF-ASMB-103	010-1008-0000
031-0093-0001	1	1.100 27.94	.154 3.91	.305 [7.75] Dia. Over B.R. Cap	408-8532	RF-ASMB-105	—
031-0094-0001	2	.750 19.05	.154 3.91	Hex Nut Cable Clamp	408-8524	RF-ASMB-92	—

Right-Angle Plugs



Part No.	Dim. A	Dim. B	Cable Max. O.D.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
SOS-50 Series (50 Ohm)							
032-0063-0001	.735 18.67	.545 13.84	.092 2.34		408-8520	RF-ASMB-87	010-0016-0000
SOS-70 Series (70 Ohm)							
032-0062-0001	.745 18.92	.545 13.84	.111 2.82		408-8520	RF-ASMB-87	010-0016-0000
SOS-93 Series (93 Ohm)							
032-0059-0001	.745 18.92	.605 15.37	.134 3.40		408-8520	RF-ASMB-87	010-0017-0000
032-0083-0001	.745 18.92	.605 15.37	.155 3.94		408-8520	RF-ASMB-87	010-0017-0000

MICRODOT Standard Connectors — Slide-On Series (Continued)

Receptacles

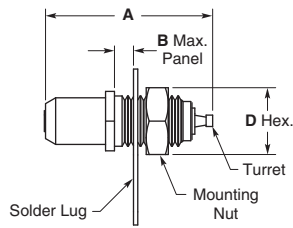


Fig. 1

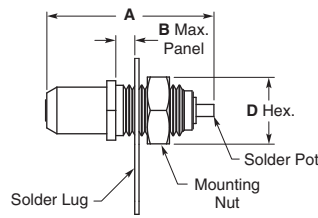
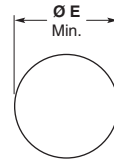


Fig. 2



**Mounting Hole
for Fig. 1 & 2**

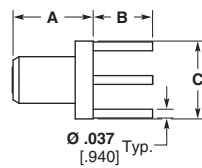


Fig. 3

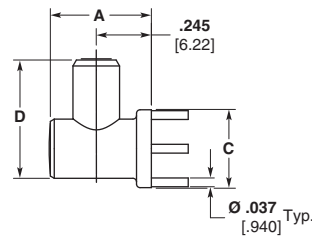
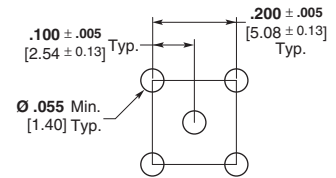


Fig. 4



**Mounting Pattern
for Fig. 3 & 4**

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Special Features
SOS-50 (50 Ohm), SOS-70 (70 Ohm), & SOS-93 (93 Ohm) Series							
031-0049-0001	1	.715 18.16	.160 4.06	.250 6.35 Hex.	.281 7.14	.217 5.51	
031-0060-0001	3	.340 8.64	.155 3.94	.330 8.38 Dia.	—	—	
031-0065-0001	3	.340 8.64	.250 6.35	.330 8.38 Dia.	—	—	
031-0070-0001	4	.425 10.79	.155 3.94	.330 8.38 Dia.	.540 13.72	—	
051-0258-0001	2	.715 18.16	.160 4.06	.250 6.35 Hex.	.281 7.14	.217 5.51	
051-0325-0001	1	.570 14.48	.140 3.56	.250 6.35 Hex.	—	.216-.32 5.49 Thd.	No Nut or Lockwasher, Threads into Panel

MICRODOT Standard Connectors — Quick-Connect Series



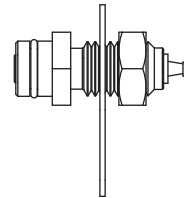
Plug

QC-50 Ohm Series	QC-70 Ohm Series	QC-93 Ohm Series
032-0002-0001	032-0016-0001	032-0012-0001
032-0030-0001	032-0031-0001	032-0032-0001
	032-0079-0001	032-0072-0001



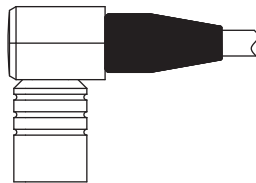
Jack

QC-50 Ohm Series	QC-70 Ohm Series	QC-93 Ohm Series
031-0038-0001		031-0040-0001



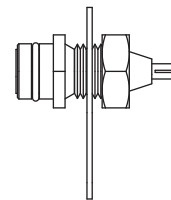
Receptacle

QC-50 Ohm Series	QC-70 Ohm Series	QC-93 Ohm Series
031-0057-0001	031-0057-0001	031-0058-0001
		031-0085-0001



Right-Angle Plug

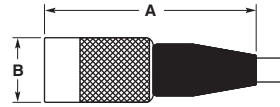
QC-50 Ohm Series	QC-70 Ohm Series	QC-93 Ohm Series
032-0026-0001	032-0027-0001	032-0020-0001
		052-0228-0001



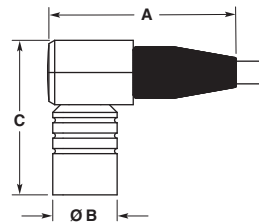
Receptacle

QC-50 Ohm Series	QC-70 Ohm Series	QC-93 Ohm Series
031-0004-0001	031-0004-0001	031-0020-0001
031-0005-0001	031-0005-0001	031-0021-0001
031-0006-0001	031-0006-0001	
051-0586-0001	051-0586-0001	

MICRODOT Standard Connectors — Quick-Connect Series (Continued)

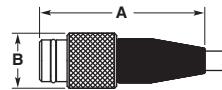
Straight Plugs


Part No.	Dim. A	Dim. B	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
QC-50 Series (50 Ohm)							
032-0002-0001	.820 20.83	.250 6.35	.093 2.36	Solderless Assembly	408-8527	RF-ASMB-100	010-0007-0000
032-0030-0001	.820 20.83	.250 6.35	.093 2.36		408-8526	RF-ASMB-97	010-0007-0000
QC-70 Series (70 Ohm)							
032-0016-0001	.830 21.08	.250 6.35	.093 2.36	Solderless Assembly	408-8527	RF-ASMB-100	010-0007-0000
032-0031-0001	.830 21.08	.250 6.35	.093 2.36		408-8529	RF-ASMB-102	010-0007-0000
032-0079-0001	.840 21.34	.250 6.35	.108 2.74		408-8526	RF-ASMB-97	010-0036-0000
QC-93 Series (93 Ohm)							
032-0012-0001	.845 21.46	.312 7.92	.134 3.40	Solderless Assembly	408-8527	RF-ASMB-100	010-0008-0000
032-0032-0001	.845 21.46	.312 7.92	.134 3.40		408-8529	RF-ASMB-102	010-0008-0000
032-0072-0001	1.050 26.67	.312 7.92	.154 3.91	Mates with 031-0085-0001 Only	408-8523	RF-ASMB-90	—

Right-Angle Plugs


Part No.	Dim. A	Dim. B	Dim. C	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
QC-50 Series (50 Ohm)								
032-0026-0001	.735 18.67	.250 6.35	.605 15.37	.092 2.34		408-8520	RF-ASMB-87	010-0016-0000
QC-70 Series (70 Ohm)								
032-0027-0001	.745 18.92	.250 6.35	.605 15.37	.111 2.82		408-8520	RF-ASMB-87	010-0016-0000
QC-93 Series (93 Ohm)								
032-0020-0001	.745 18.92	.312 7.92	.635 16.13	.134 3.40		408-8520	RF-ASMB-87	010-0017-0000
052-0228-0001	.745 18.92	.312 7.92	.720 18.29	.155 3.94	Mates with 031-0085-0001 Only	408-8520	RF-ASMB-87	010-0017-0000

MICRODOT Standard Connectors — Quick-Connect Series (Continued)

Jacks


Part No.	Dim. A	Dim. B	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
QC-50 Series (50 Ohm)							
031-0038-0001	.750 19.05	.250 6.35	.093 2.36		408-8531	RF-ASMB-104	010-0007-0000
QC-93 Series (93 Ohm)							
031-0040-0001	.760 19.30	.320 8.13	.134 3.40		408-8530	RF-ASMB-103	010-1009-0000

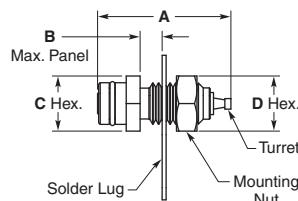
Receptacles


Fig. 1

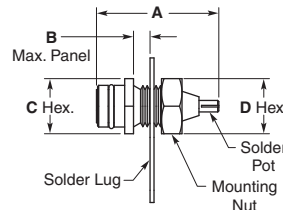
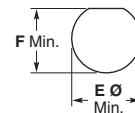


Fig. 2



Mounting Hole

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Special Features
QC-50 Series (50 Ohm) & QC-70 Series (70 Ohm)								
031-0004-0001	2	.555 14.10	.095 2.41	.250 6.35	.250 6.35	.191 4.85	—	No Mounting Flat
031-0005-0001	2	.555 14.10	.165 4.19	.250 6.35	.250 6.35	.191 4.85	—	No Mounting Flat
031-0006-0001	2	.250 6.35	—	.250 6.35	—	.190-.32 4.83	Thd	No Nut or Solder Lug, Threads into Panel
031-0057-0001	1	.605 15.37	.165 4.19	.250 6.35	.250 6.35	.191 4.85	.173 4.39	
051-0586-0001	2	.555 14.10	.165 4.19	.250 6.35	.250 6.35	.191 4.85	—	No Mounting Flat, Split Solder Lug
QC-93 Series (93 Ohm)								
031-0020-0001	2	.555 14.10	.095 2.41	.312 7.92	.312 7.92	.251 6.38	—	No Mounting Flat
031-0021-0001	2	.555 14.10	.165 4.19	.312 7.92	.312 7.92	.251 6.38	—	No Mounting Flat
031-0058-0001	1	.605 15.37	.160 4.06	.312 7.92	.312 7.92	.251 6.38	.232 5.89	
031-0085-0001	1	.715 18.16	.165 4.19	.312 7.92	.312 7.92	.251 6.38	—	No Mounting Flat, Mates with 032-0072-0001 & 052-0228-0001 Only

MICRODOT Standard Connectors — Twinax Series

Twinax Plugs:

For cables with two inner conductors and one shield

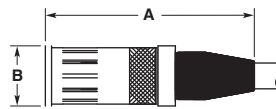


Fig. 1
Slide-On Series

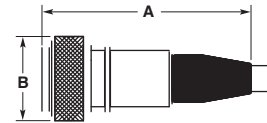


Fig. 2
Screw-On Series

Part No.	Fig.	Dim. A	Dim. B	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
032-0088-0001	1	1.085 27.56	.312 7.92	.167 4.24		408-8528	RF-ASMB-101	010-0031-0000
032-0093-0001	1	1.085 27.56	.312 7.92	.123 3.12		408-8528	RF-ASMB-101	010-0031-0000
052-0229-0001	2	1.085 27.56	.440 11.18	.123 3.12		408-8517	RF-ASMB-61	010-0172-0000
052-0324-0001	2	1.095 27.81	.440 11.18	.167 4.24		408-8517	RF-ASMB-61	010-0172-0000

Twinax Receptacles and Jacks:

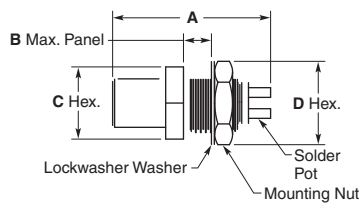


Fig. 1
Slide-On Series

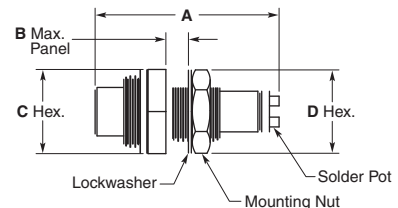


Fig. 2
Slide-On Series or Screw-On Series

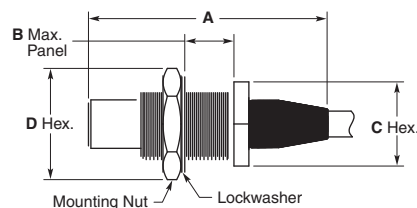
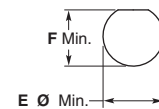


Fig. 3
Slide-On Series or Screw-On Series



Mounting Hole

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Cable Max. Jacket	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
031-0098-0001	1	.812 20.62	.155 3.94	.375 9.53	.375 9.53	.313 7.95	.292 7.42	—		—	—	—
051-0248-0001	2	.960 24.38	.155 3.94	.437 11.10	.375 9.53	.313 7.95	.292 7.42	—		—	—	—
051-0358-0001	3	1.060 26.92	.075 ¹ 1.91	.437 11.10	.500 12.7	.376 9.55	.351 8.92	.167 4.24	Lockwasher not included	408-8516	RF-ASMB-44	010-0186-0000
051-0389-0001	3	1.255 31.88	.255 ² 6.48	.437 11.10	.500 12.7	.376 9.55	.351 8.92	.167 4.24		408-8516	RF-ASMB-44	010-0186-0000

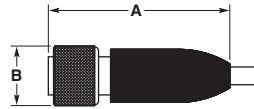
¹.075 [1.91] Max. Panel when mated with a Screw-On plug, .180 [4.57] Max. Panel when mated with a Slide-On plug.

².255 [6.48] Max. Panel when mated with a Screw-On plug, .360 [9.14] Max. Panel when mated with a Slide-On plug.

MICRODOT Standard Connectors — Triax Series and Terminals

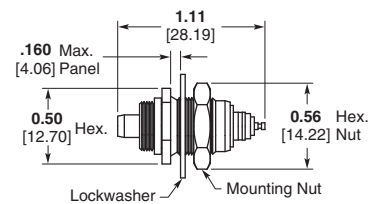
Triax Plugs:

For cables with one inner conductor and two isolated shields

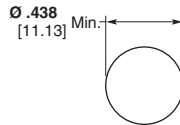


Part No.	Dim. A	Dim. B	Cable Jacket Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.	Assembly Tool
052-0130-0001	1.37 34.80	.440 11.18 Dia.	.124 3.15		408-8514	RF-ASMB-20	—
052-0138-0001	1.37 34.80	.440 11.18 Dia.	.183 4.65		408-8515	RF-ASMB-21	—
052-0593-0001	1.37 34.80	.438 11.13 Hex.	.214 5.44	Hex Nut w/ Safety Wire Holes, .027 [.686] Wire Max.	408-8518	RF-ASMB-73	—

Triax Receptacle:

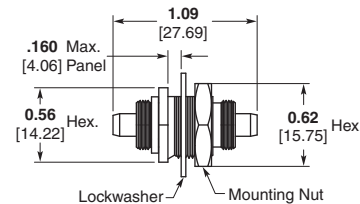


Part Number 051-0618-0001

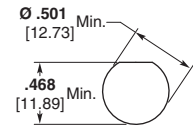


Mounting Hole

Triax Adapter:



Part Number 053-0161-0001
Mates with Triax Plug, Both Ends



Mounting Hole

Terminals

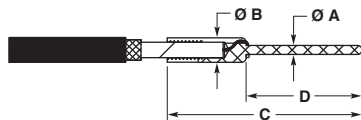


Fig. 1

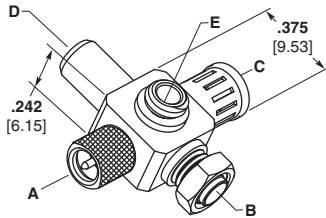


Fig. 2

Part No.	Fig.	Dim. A	Dim. B	Dim. C	Dim. D	Cable Max. Dielectric	Cable Max. Inner Conductor
053-0354-0003	1	.030 .762	.080 2.03	.630 16.00	.375 9.53	.050 1.27	.015 .381
053-0249-0001	1	.030 .762	.105 2.67	.630 16.00	.375 9.53	.071 1.80	.021 .533
053-0495-0001	1	.030 .762	.125 3.18	.880 22.35	.610 15.49	.083 2.11	.022 .559
053-0656-0001	1	.030 .762	.145 3.68	.880 22.35	.375 9.53	.108 2.74	.023 .584
053-0294-0002	1	.030 .762	.145 3.68	.880 22.35	.625 15.88	.108 2.74	.023 .584
033-0115-0002	2	.040 1.02	.063 1.60	.255 6.48	.100 2.54	.042 1.07	.023 .584
033-0116-0001	2	.040 1.02	.094 2.39	.300 7.62	.100 2.54	.068 1.73	.023 .584
033-0117-0001	2	.040 1.02	.140 3.56	.350 8.89	.200 5.08	.108 2.74	.023 .584
053-0154-0001	1	.041 1.04	.080 2.03	.430 10.92	.175 4.45	.050 1.27	.019 .483
053-0250-0001	1	.041 1.04	.080 2.03	.505 12.83	.250 6.35	.050 1.27	.019 .483
053-0020-0003	1	.041 1.04	.080 2.03	.630 16.00	.375 9.53	.050 1.27	.015 .381
053-0021-0003	1	.041 1.04	.105 2.67	.630 16.00	.375 9.53	.071 1.80	.023 .584
053-0267-0003	1	.041 1.04	.105 2.67	.875 22.23	.625 15.88	.071 1.80	.023 .584
053-0265-0001	2	.041 1.04	.128 3.25	.505 12.83	.250 6.35	.102 2.59	.021 .533
053-0230-0001	2	.041 1.04	.128 3.25	.630 16.00	.375 9.53	.102 2.59	.018 .457
053-0155-0001	1	.041 1.04	.145 3.68	.430 10.82	.175 4.45	.108 2.74	.023 .584
053-0022-0003	1	.041 1.04	.145 3.68	.630 16.00	.375 9.53	.108 2.74	.023 .584
053-0388-0001	2	.042 1.07	.098 2.49	.500 12.70	.250 6.35	.065 1.65	.021 .533
053-0251-0001	2	.042 1.07	.098 2.49	.630 16.00	.375 9.53	.065 1.65	.021 .533

Terminals are gold plated.
See applicable MICRODOT
drawing for solder and crimp
instructions.

MICRODOT Standard Connectors — Module Blocks



The five faces of basic block can be used to mount any one of 10 different terminations. The 5 faces are coded with letters as shown above. The 10 terminations are coded with Nos. 1–10. Part number, to be complete, must show face location and termination Nos.

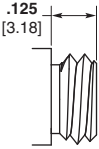
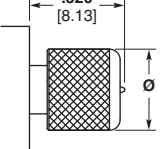
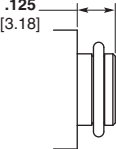
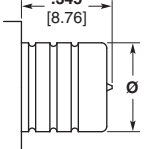
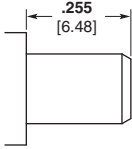
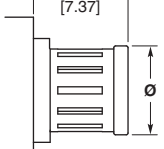
desired. (Ex: illustration shows 033-0042—A2—B7—C6—D5—E1) Ordering part number will be converted to a MICRODOT assigned number at time of ordering.

We do not stock complete assemblies.

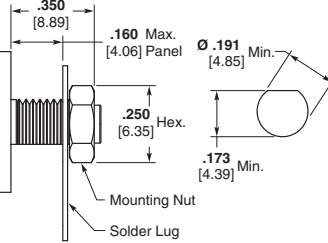
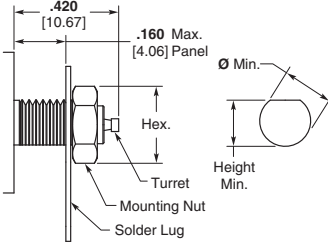
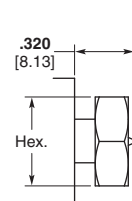
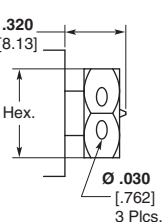
Size	Part No.	Dim. H
50 Ohm	033-0042*	.250 6.35
70 Ohm	033-0043*	.250 6.35
93 Ohm	033-0044*	.300 7.62

*Part number to be completed by customer. A Computer Part Number will be assigned by TE Connectivity.

Interfaces/Terminations

Termination Number	1	2	3	4	5	6
Mating Type	S	S	QC	QC	SOS	SOS
Description	Receptacle	Plug with Knurl Nut	Receptacle	Plug	Receptacle	Plug
						
	Thread	Thread Dia.		Dia.		Dia.
50 Series	.190-32 UNF 4.83	.190-32 UNF 4.83		.250 6.35		.250 6.35
70 Series	.216-32 UNEF 5.49	.216-32 UNEF 5.49		.250 6.35		.250 6.35
93 Series	.250-32 UNEF 6.35	.250-32 UNEF 6.35		.312 7.92		.250 6.35

Interfaces/Terminations (Continued)

Termination Number	7	8	9	10
Mating Type	—	—	S	S
Description	Bulkhead Stud	Bulkhead Receptacle	Plug with Hex. Nut	Plug, Hex. Nut With Wire Holes
				
	Thread	Thread Hex. Min. Hole Dia. Min. Hole Height	Thread Hex.	Thread Hex.
50 Series	.190-32 UNF 4.83	.190-32 UNF 4.83	.190-32 UNF 4.83	.190-32 UNF 4.83
70 Series	.190-32 UNF 4.83	.216-32 UNEF 5.49	.216-32 UNEF 5.49	.216-32 UNEF 5.49
93 Series	.190-32 UNF 4.83	.250-32 UNEF 6.35	.250-32 UNEF 6.35	.250-32 UNEF 6.35

MICRODOT Standard Connectors — Caps, Hoods

Caps, Screw-On Series For Receptacles and Jacks

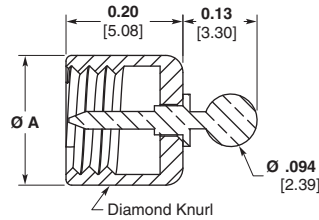


Fig. 1
With Grounding Pin

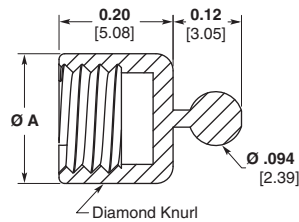


Fig. 2
Without Grounding Pin

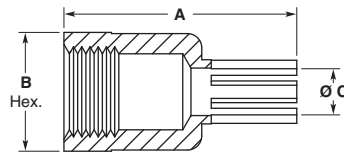
Part No.	Fig.	Dim. A
S-50 Series		
033-0046-0001	1	.235 5.97
033-0056-0001	2	.235 5.97
S-70 Series		
033-0047-0001	1	.255 6.48
033-0057-0001	2	.255 6.48
S-93 Series		
033-0048-0001	1	.315 8.00
033-0058-0001	2	.315 8.00

Material — Brass per QQ-B-626

Finish — Silver plate per QQ-S-365, .0002 [.005] min.

Note: All caps can be supplied with .094 [2.39] Dia. bead chain and end ring. When ordering, specify chain length and end ring hole size (.130 [3.30], .140 [3.56], .167 [4.24], or .193 [4.90] Dia.)

Receptacle Hoods



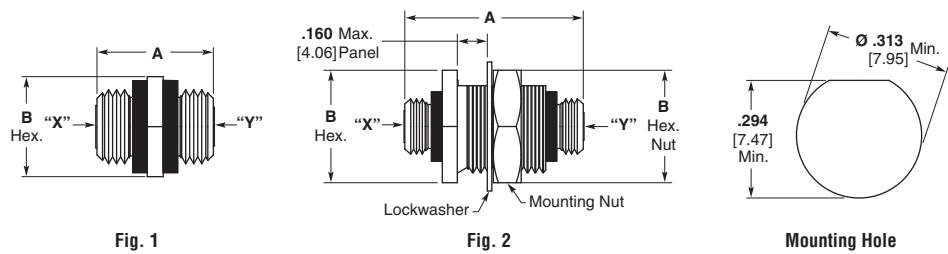
Part No.	Dim. A	Dim. B	Dim. C	Thread	For Receptacle Series
033-0067-0001	.490 12.45	.250 6.35	.098 2.49	.190-32 UNF 4.83	S-50, QC-50, QC-70
033-0068-0001	.490 12.45	.250 6.35	.114 2.90	.216-32 UNEF 5.49	S-70, SOS-50, SOS-70, SOS-93
033-0069-0001	.490 12.45	.312 7.92	.156 3.96	.250-32 UNEF 6.35	S-93, QC-93
033-0084-0001	.490 12.45	.250 6.35	.156 3.96	.216-32 UNEF 5.49	S-70, SOS-50, SOS-70, SOS-93
053-0147-0001	.840 21.34	.437 11.10	.156 3.96	.375-32 UNEF 9.53	Twinax/Triax Receptacle

Material — Brass per QQ-B-626

Finish — Silver plate per QQ-S-365, .0002 [.005] min.

MICRODOT Standard Connectors — Adapters

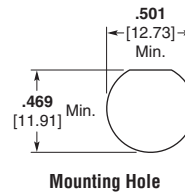
Feed-Thru Adapters for Screw-On Series



Part No.	Fig.	Dim. A	Dim. B	End "X" Is	End "Y" Is
033-0001-0001	1	.300 7.62	.250 6.35	S-50 Receptacle	S-50 Receptacle
033-0053-0001	2	.600 15.24	.375 9.53	S-50 Receptacle	S-50 Receptacle
033-0023-0001	1	.400 10.16	.250 6.35	S-70 Receptacle	S-70 Receptacle
033-0054-0001	2	.600 15.24	.375 9.53	S-70 Receptacle	S-70 Receptacle
033-0036-0001	1	.410 10.41	.312 7.92	S-93 Receptacle	S-93 Receptacle
033-0055-0001	2	.600 15.24	.375 9.53	S-93 Receptacle	S-93 Receptacle

BNC and TNC/MICRODOT Adapters for Screw-On, Slide-On, and Quick-Connect Series

For mating BNC/TNC connectors to MICRODOT standard connectors.

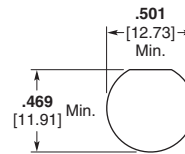


End "A" Is:	Configuration	End "B" Is:	50 Series Part No.	70 Series Part No.	93 Series Part No.
BNC Plug		Screw-On (S) Type Plug	033-0103-0001	033-0107-0001	033-0111-0001
BNC Plug		Screw-On Type Receptacle	033-0101-0001	033-0105-0001	033-0109-0001
BNC Receptacle		Screw-On (S) Type Plug	033-0104-0001	053-0108-0001	033-0112-0001
BNC Receptacle		Screw-On (S) Type Receptacle	033-0102-0001	033-0106-0001	033-0110-0001
BNC Bulkhead Receptacle		Screw-On (S) Type Plug	033-0127-0001 ¹	—	033-0129-0001 ¹

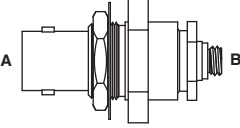
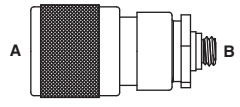
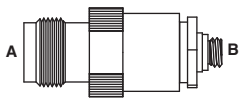
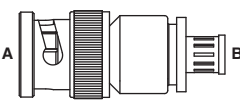
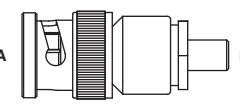
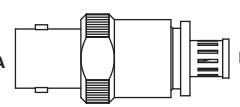
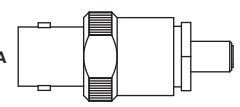
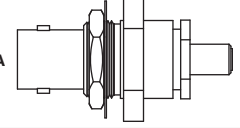
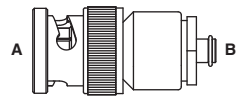
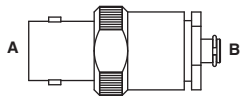
¹Mounting information: Housing Hex. .688 [17.48], Mtg. Nut Hex. .625 [15.88], Max. Panel .090 [2.29].

MICRODOT Standard Connectors — Adapters (Continued)

**BNC and TNC/MICRODOT
Adapters for Screw-On,
Slide-On, and Quick-
Connect Series (Continued)**



Mounting Hole

End "A" Is:	Configuration	End "B" Is:	50 Series Part No.	70 Series Part No.	93 Series Part No.
BNC Bulkhead Receptacle		Screw-On (S) Type Receptacle	033-0090-0001 ¹	033-0125-0001 ¹	033-0126-0001 ¹
TNC Plug		Screw-On (S) Type Receptacle	033-0141-0001	033-0143-0001	033-0145-0001
TNC Receptacle		Screw-On (S) Type Receptacle	033-0153-0001	—	—
BNC Plug		Slide-On (SOS) Type Plug	053-0339-0001	053-0339-0001	053-0339-0001
BNC Plug		Slide-On (SOS) Type Receptacle	033-0081-0001	033-0081-0001	033-0081-0001
BNC Receptacle		Slide-On (SOS) Type Plug	033-0092-0001	033-0092-0001	033-0092-0001
BNC Receptacle		Slide-On (SOS) Type Receptacle	033-0082-0001	033-0082-0001	033-0082-0001
BNC Bulkhead Receptacle		Slide-On (SOS) Type Receptacle	033-0124-0001 ¹	033-0124-0001 ¹	033-0124-0001 ¹
BNC Plug		Quick-Connect (QC) Type Receptacle	033-0093-0001	033-0093-0001	033-0097-0001
BNC Receptacle		Quick-Connect (QC) Type Receptacle	033-0094-0001	033-0094-0001	—

¹Mounting information: Housing Hex. .688 [17.48], Mtg. Nut Hex. .625 [15.88], Max. Panel .090 [2.29].

MICRODOT 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 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 — PTFE per ASTM-D-1710.

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

Middle Sleeve — Copper Alloy.

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

Lockwasher — #425 Bronze Alloy.

Plating

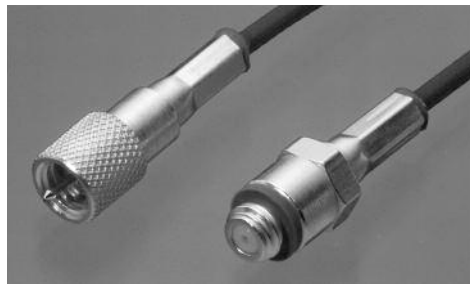
Contacts, Housing, Nut, Inner Sleeve, Middle Sleeve, Lockwasher — Gold per MIL-G-45204, Type II, Grade C, Class 1.

Notes:

¹Screw-On Series threaded interface.

²TE Connectivity 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 TE cable assemblies (See page 2-138) and specify VSWR testing and mating connector part numbers.



MICRODOT Gold Plated Crimp Style Coaxial Connectors — Screw-On Series

Straight Plugs

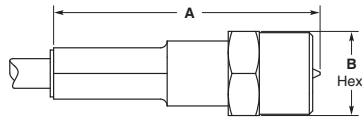


Fig. 1
Partial Hex. Nut

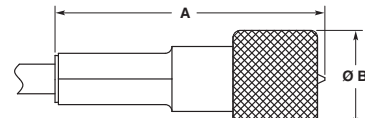


Fig. 2
Knurl Nut

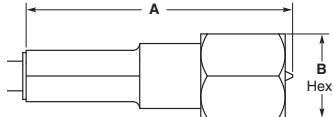


Fig. 3
Full Hex. Nut

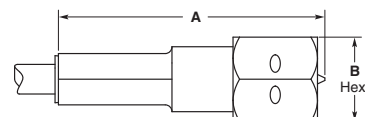


Fig. 4
Hex. Nut w/ 3 Safety Wire Holes

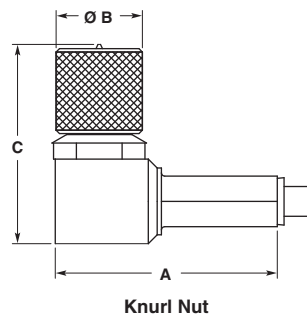
Part No.	Fig.	Dim. A	Dim. B	Cable Max.	Special Features	Instruction Sheet No.	Former MICRODOT I.S. No.
50 Ohm Series .190 [4.83] -32 UNF-2B Thread							
132-0112-0001	1	.800 20.32	.250 6.35	.088 2.24		408-8508	RF-ASMB-8
132-0112-0002	2	.800 20.32	.250 6.35	.088 2.24		408-8508	RF-ASMB-8
132-0112-0003	3	.800 20.32	.250 6.35	.088 2.24		408-8508	RF-ASMB-8
132-0112-0004	4	.800 20.32	.250 6.35	.088 2.24		408-8508	RF-ASMB-8
132-0113-0001	1	.800 20.32	.250 6.35	.088 2.24	With environmental seal	408-8508	RF-ASMB-8
132-0113-0002	2	.800 20.32	.250 6.35	.088 2.24	With environmental seal	408-8508	RF-ASMB-8
132-0113-0003	3	.800 20.32	.250 6.35	.088 2.24	With environmental seal	408-8508	RF-ASMB-8
132-0113-0004	4	.800 20.32	.250 6.35	.088 2.24	With environmental seal	408-8508	RF-ASMB-8
132-0114-0001	1	.800 20.32	.250 6.35	.110 2.79		408-8508	RF-ASMB-8
132-0114-0002	2	.800 20.32	.250 6.35	.110 2.79		408-8508	RF-ASMB-8
132-0114-0003	3	.800 20.32	.250 6.35	.110 2.79		408-8508	RF-ASMB-8
132-0114-0004	4	.800 20.32	.250 6.35	.110 2.79		408-8508	RF-ASMB-8
132-0115-0001	1	.800 20.32	.250 6.35	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0115-0002	2	.800 20.32	.250 6.35	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0115-0003	3	.800 20.32	.250 6.35	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0115-0004	4	.800 20.32	.250 6.35	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0509-0002	2	.800 20.32	.250 6.35	.116 2.95	Dual shield cable version of RG 188 & 316	408-8508	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		408-8508	RF-ASMB-8
132-0200-0002	2	.800 20.32	.290 7.37	.110 2.79		408-8508	RF-ASMB-8
132-0200-0003	3	.800 20.32	.281 7.14	.110 2.79		408-8508	RF-ASMB-8
132-0200-0004	4	.800 20.32	.281 7.14	.110 2.79		408-8508	RF-ASMB-8
132-0201-0001	1	.800 20.32	.281 7.14	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0201-0002	2	.800 20.32	.290 7.37	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0201-0003	3	.800 20.32	.281 7.14	.110 2.79	With environmental seal	408-8508	RF-ASMB-8
132-0201-0004	4	.800 20.32	.281 7.14	.110 2.79	With environmental seal	408-8508	RF-ASMB-8

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

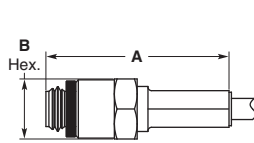
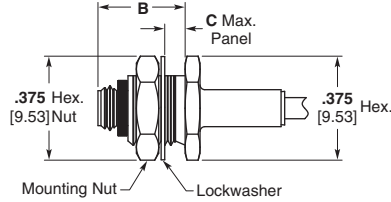
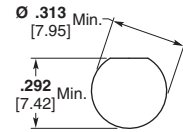
Straight Plugs (Continued)

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		408-8508	RF-ASMB-8
132-0300-0002	2	.795 20.19	.320 8.13	.155 3.94		408-8508	RF-ASMB-8
132-0300-0003	3	.795 20.19	.312 7.92	.155 3.94		408-8508	RF-ASMB-8
132-0300-0004	4	.795 20.19	.312 7.92	.155 3.94		408-8508	RF-ASMB-8
132-0301-0001	1	.795 20.19	.312 7.92	.155 3.94	With environmental seal	408-8508	RF-ASMB-8
132-0301-0002	2	.795 20.19	.320 8.13	.155 3.94	With environmental seal	408-8508	RF-ASMB-8
132-0301-0003	3	.795 20.19	.312 7.92	.155 3.94	With environmental seal	408-8508	RF-ASMB-8
132-0301-0004	4	.795 20.19	.312 7.92	.155 3.94	With environmental seal	408-8508	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		408-8509	RF-ASMB-11
132-0117-0002	.660 16.76	.250 6.35	.620 15.75	.088 2.24	With environmental seal	408-8509	RF-ASMB-11
132-0118-0002	.695 17.65	.250 6.35	.650 16.51	.110 2.79		408-8509	RF-ASMB-11
132-0119-0002	.695 17.65	.250 6.35	.650 16.51	.110 2.79	With environmental seal	408-8509	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		408-8509	RF-ASMB-11
132-0203-0002	.695 17.65	.290 7.37	.650 16.51	.110 2.79	With environmental seal	408-8509	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		408-8509	RF-ASMB-11
132-0303-0002	.710 18.03	.320 8.13	.680 17.27	.155 3.94	With environmental seal	408-8509	RF-ASMB-11

MICRODOT 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		408-8508	RF-ASMB-8
131-0135-0001	2	.770 19.56	.360 9.14	.105 2.67	.088 2.24		408-8508	RF-ASMB-8
131-0136-0001	1	.770 19.56	.250 6.35	—	.110 2.79		408-8508	RF-ASMB-8
131-0137-0001	2	.770 19.56	.360 9.14	.105 2.67	.110 2.79		408-8508	RF-ASMB-8
131-0150-0001	1	.770 19.56	.250 6.35	—	.116 2.95	Dual Shield Cable Version of RG 188 & 316	408-8508	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	408-8508	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		408-8508	RF-ASMB-8
131-0201-0001	2	.770 19.56	.360 9.14	.100 2.54	.110 2.79		408-8508	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		408-8508	RF-ASMB-8
131-0301-0001	2	.760 19.30	.350 8.89	.095 2.41	.155 3.94		408-8508	RF-ASMB-8

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

Receptacles

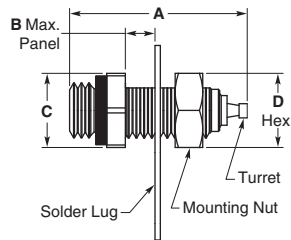


Fig. 1

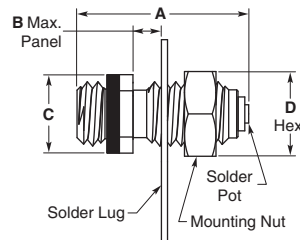


Fig. 2

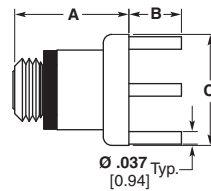


Fig. 3

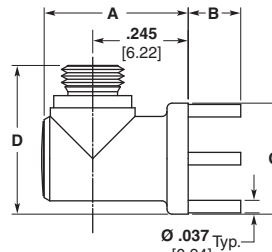
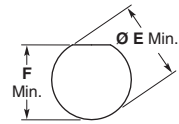
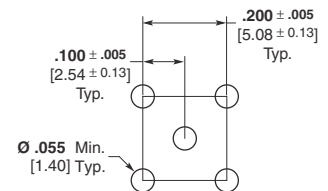


Fig. 4


Mounting Hole
for Fig. 1 & 2

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	

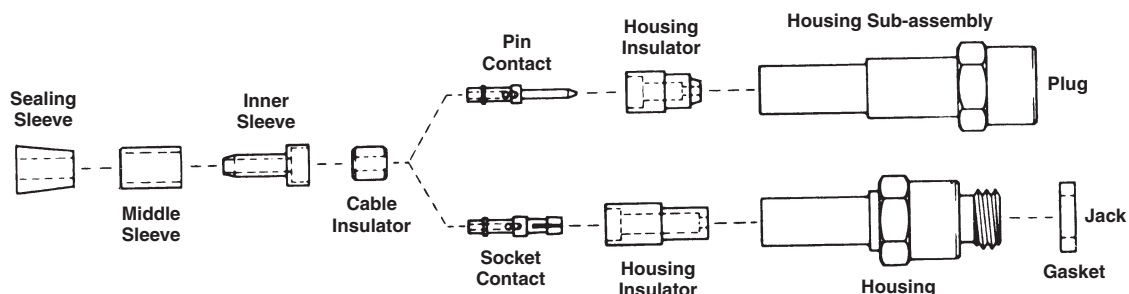
Gold Plated Crimp Style Coaxial Connectors Assembly Tools

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]



MICRODOT LEPRA/CON Ultra-Miniature Connectors

Performance Data Summary For LEPRA/CON Connectors

Mechanical

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

Cable Retention — 10 lb. min. when properly assembled to RG196/U and RG178/U cable.

Recommended Coupling Torque (Threaded Interface) — 24 inch/ounces max.

Recommended Receptacle Mounting Torque (All Series) — 24 inch/ounces max.

Typical Cable Acceptance Dimensions — Inner conductor: .012 [0.31] nom. Dielectric: .039 [0.99] max. Shield: .059 [1.50] max. Jacket: .081 [2.06] max.

Contact Protection (Unmated) — Twist pin contact protected from damage by insulator. Tube socket protected by connector housing.

Assembly Methods

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

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

Environmental

Temperature Range (Continuous Service) — -85°F to +392°F [-65°C to +200°C].

Vibration^{1,2} — MIL-STD-202, Method 204, Test Condition B (15 G peaks). 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 Ohm coaxial cable RG178/U.

Dielectric Withstanding Voltage — 450 volts RMS at sea level, 250 volts RMS at 50,000 ft [15,240 m], 150 volts RMS at 70,000 ft. [21,336 m]

Contact Resistance — 8 milliohms max., D.C.

Contact Capacity — 3 amps, D.C.

Insulation Resistance — 10⁴ Megohms min. @ 500 volts D.C.

Voltage Standing Wave Ratio³ (VSWR) — Typical 50 Ohm Series, 1.2 Maximum to 2 GHz.

Materials

Housing, Nut, Ferrule — Brass per ASTM-B-16.

Insulator — PTFE per ASTM-D-1710.

Pin & Socket Contact — Copper Alloy.

Crimp Sleeve — Copper Alloy.

Lockwasher — #425 Bronze Alloy.

Plating

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

Notes:

¹Screw-On Series, threaded interface.

²TE Connectivity recommends the use of safety wired connectors in vibration and shock environments. See individual specifications with wire holes.

³VSWR is a system specification. Where performance is critical, purchase TE cable assemblies with Screw-On connectors (See page 2-140) and specify VSWR testing and mating connector part numbers.

MICRODOT LEPR/CON Ultra-Miniature Connectors — Screw-On Series

Featuring Twist Pin, Pin and Socket Contacts, Standard Interface

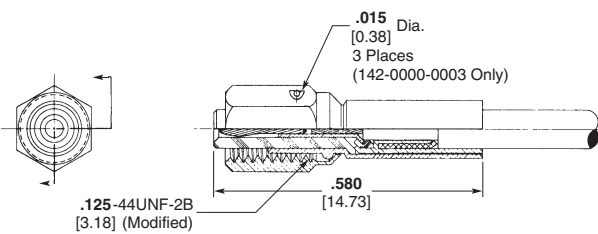


MICRODOT twist pin, pin and socket contacts are used in LEPR/CON connectors. Twist pin contact pins are produced from beryllium copper material with a gold-plated finish and constructed with helically-wound stress free cable of spring copper around a highly conductive soft copper core, terminated with a hemispherical weld. Twist pin

contacts contain seven self-wiping spring surfaces, designed for consistent continuity and very low noise level. Twist pin contacts are self-aligning because of the contact-engaging-end configuration. The sockets are a closed entry tubular-type contact, made of gold-plated copper alloy.

The connectors are designed to be used with coaxial cables RG196/U and RG178/U.

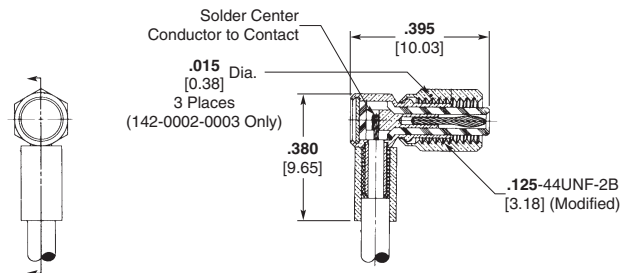
The connectors are designed with the contacts completely protected for reliability. The use of twist pin contacts makes the connectors very rugged for their size.



Straight Plugs¹

Part No.	Nut Style
142-0000-0001	.156 [3.96] Hex.
142-0000-0002	.160 [4.06] Dia. Knurl
142-0000-0003	.156 [3.96] Hex. w/ Safety Wire Holes

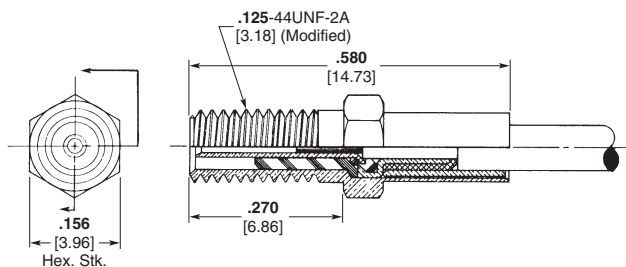
Assembly instructions: RF-ASMB-12



Right-Angle Plug¹

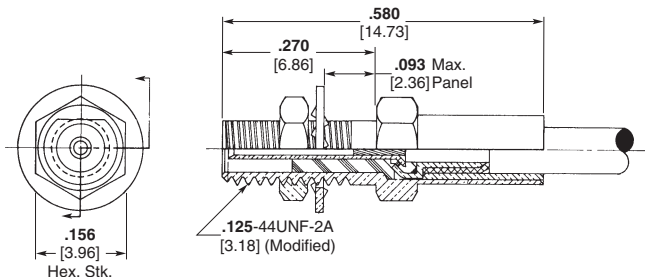
Part No.	Nut Style
142-0002-0001	.156 [3.96] Hex.
142-0002-0002	.160 [4.06] Dia. Knurl
142-0002-0003	.156 [3.96] Hex. w/ Safety Wire Holes

Assembly instructions: RF-ASMB-13



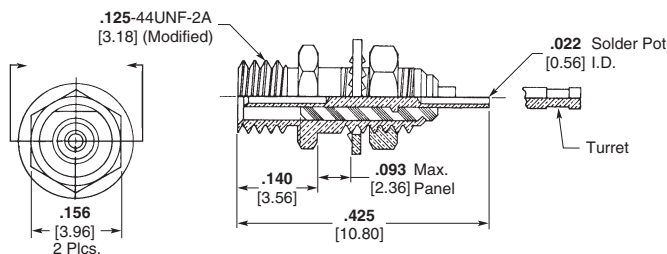
Jack¹

Part Number 141-0000-0001
Instruction Sheet Number 408-8510
Former MICRODOT I.S. Number RF-ASMB-12



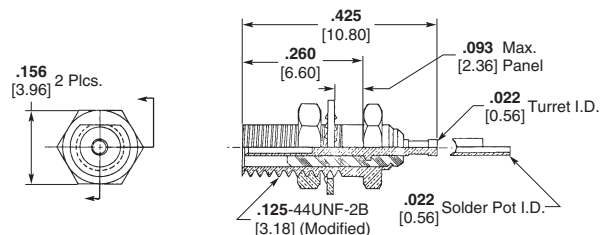
Bulkhead Jack¹

Part Number 141-0001-0001
Instruction Sheet Number 408-8510
Former MICRODOT I.S. Number RF-ASMB-12



Front Mount Receptacle¹

Part No.	Contact Tail
141-0002-0001	Turret
141-0002-0002	Solder Pot



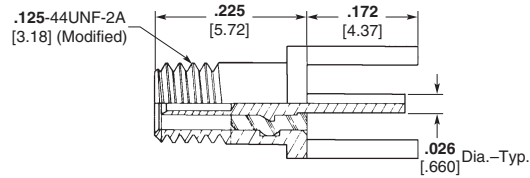
Rear Mount Receptacle¹

Part No.	Contact Tail
141-0003-0001	Turret
141-0003-0002	Solder Pot

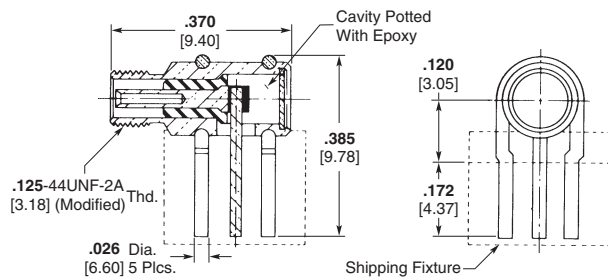
¹Mounting hole pattern and assembly tools shown on page 2-134.

MICRODOT LEpra/CON Ultra-Miniature Connectors — Screw-On Series (Continued)

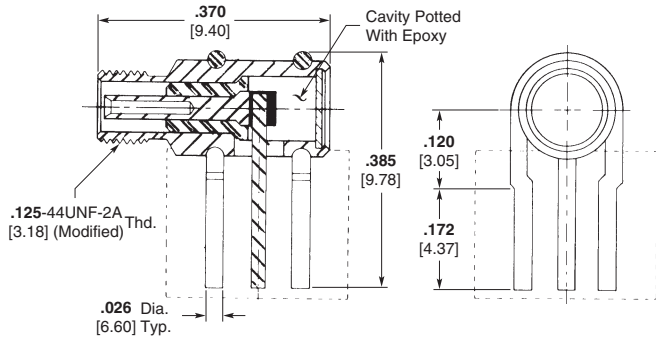
**Featuring Twist Pin,
Pin and Socket Contacts,
Standard Interface (Continued)**



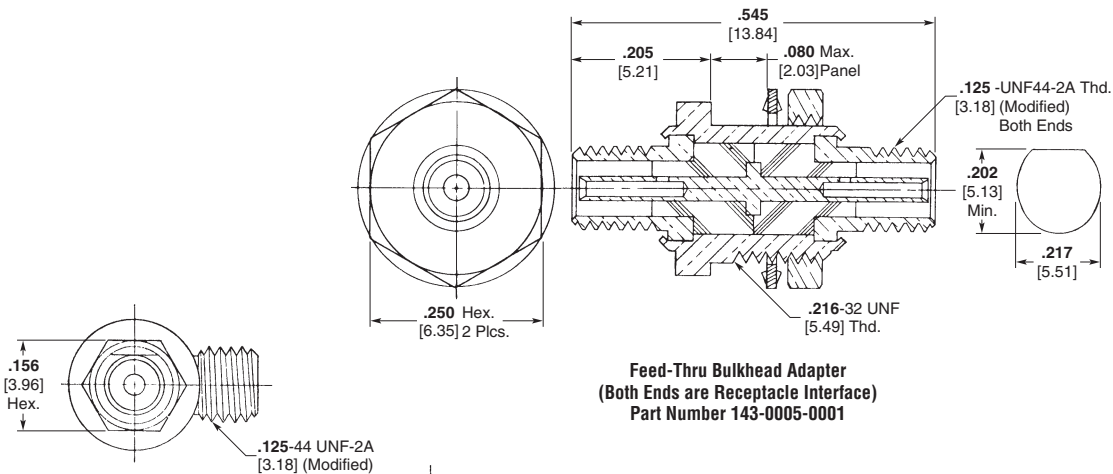
Straight Printed Circuit Receptacle¹
Part No. 141-0004-0001



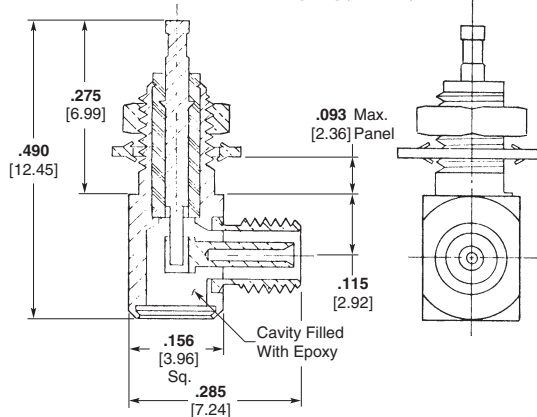
Right-Angle Printed Circuit Receptacle¹
(Small Mounting Pattern)
Part Number 141-0019-0001



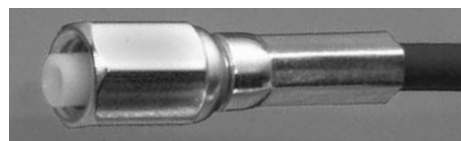
Right-Angle Printed Circuit Receptacle¹
(Standard Mounting Pattern)
Part Number 141-0010-0001



Feed-Thru Bulkhead Adapter
(Both Ends are Receptacle Interface)
Part Number 143-0005-0001



Right-Angle Receptacle¹
Part Number 141-0013-0001



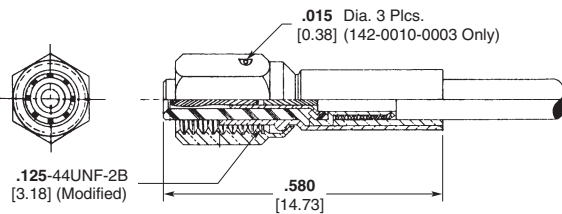
Straight Plug

¹Mounting hole pattern and assembly tools shown on page 2-134.

MICRODOT LEPRA/CON Ultra-Miniature Connectors — Screw-On Series (Continued)
**Featuring Twist Pin,
Pin and Socket Contacts
with Locking Interface**

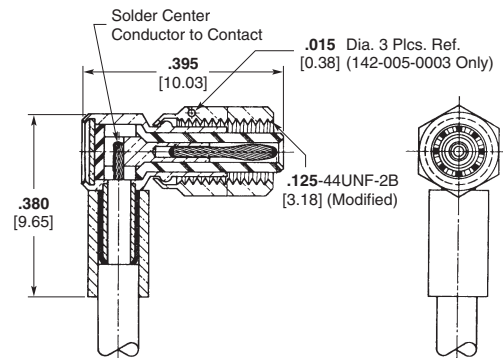
The MICRODOT LEPRA/CON coaxial connector series is now offered with a unique locking interface feature. This new coupling design permits the user to lock the coaxial plug, when mated to its receptacle, preventing any axial rotation. This

adaptation is especially popular on connector installations requiring straight or 90° cable terminations firmly held in a fixed position. The locking interface is especially suited for telecommunications and instrumentation applications.


Straight Plug¹

Part No.	Nut Style
142-0010-0001	.156 [3.96] Hex.
142-0010-0002	.160 [4.06] Dia. Knurl
142-0010-0003	.156 [3.96] Hex. w/ Safety Wire Holes

Assembly instructions: RF-ASMB-12, 142-0010-0001


Right-Angle Plug¹

Part No.	Nut Style
142-0005-0001	.156 [3.96] Hex.
142-0005-0002	.160 [4.06] Dia. Knurl
142-0005-0003	.156 [3.96] Hex. w/ Safety Wire Holes

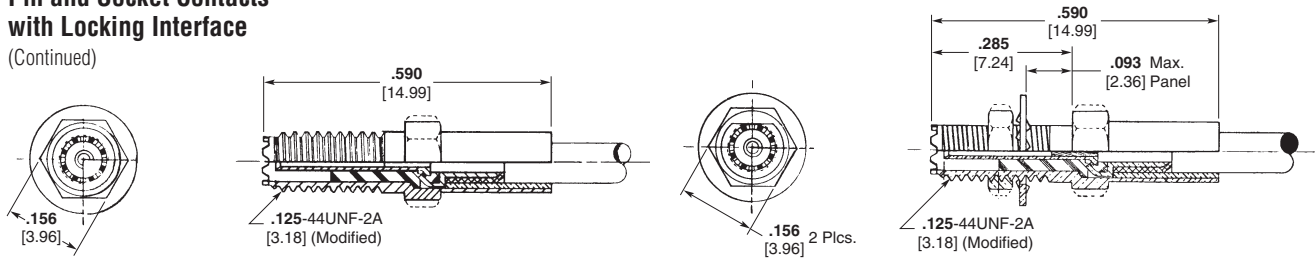
Assembly instructions: RF-ASMB-13, 142-0005-0001

¹Assembly tools; page 2-134.

MICRODOT LEPPA/CON Ultra-Miniature Connectors — Screw-On Series (Continued)

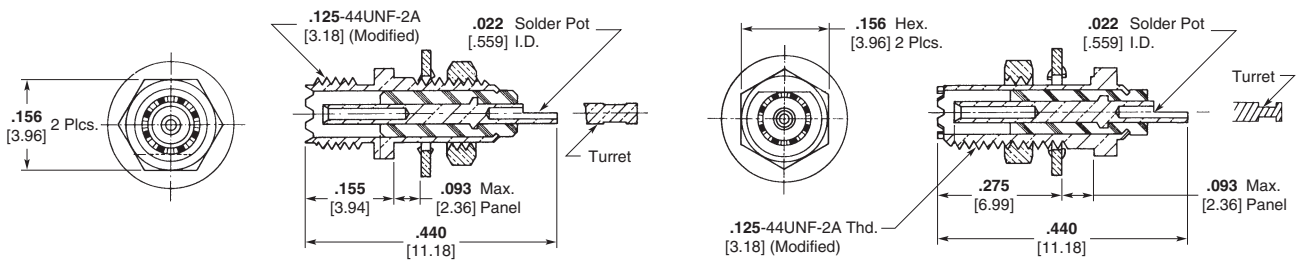
**Featuring Twist Pin,
Pin and Socket Contacts
with Locking Interface**

(Continued)



Straight Jack¹
Part Number 141-0017-0001
Instruction Sheet Number 408-8510
Former MICRODOT I.S. Number RF-ASMB-12

Bulkhead Jack¹
Part Number 141-0014-0001
Instruction Sheet Number 408-8510
Former MICRODOT I.S. Number RF-ASMB-12

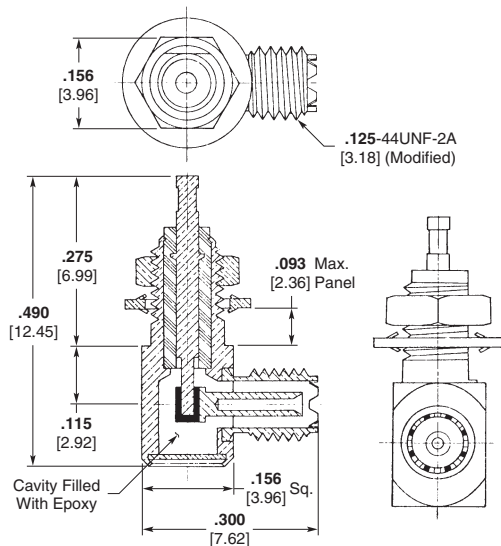


Front Mount Receptacle¹

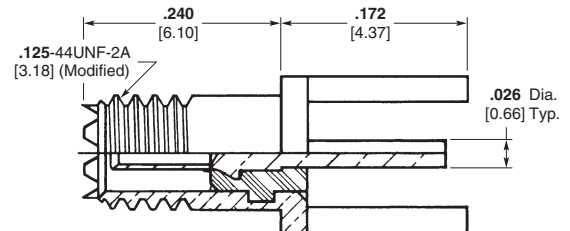
Rear Mount Receptacle w/ Locking Interface¹

Part No.	Contact Tail
141-0012-0001	Solder Pot
141-0012-0002	Turret

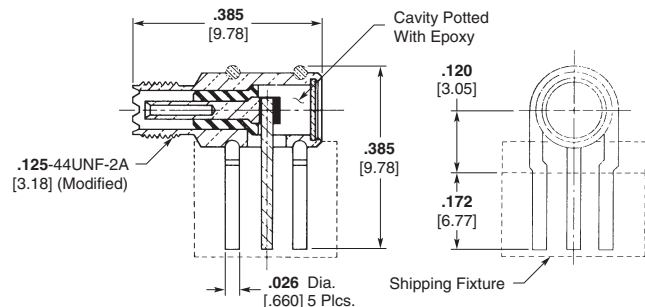
Part No.	Contact Tail
141-0011-0001	Turret
141-0011-0002	Solder Pot



Right-Angle Receptacle¹
Part Number 141-0020-0001



Straight Printed Circuit Receptacle¹
Part Number 141-0015-0001



Right-Angle Printed Circuit Receptacle¹
Part Number 141-0023-0001

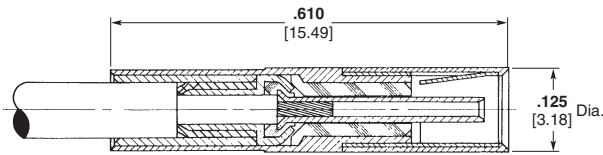
¹Mounting hole pattern and assembly tools shown on page 2-134.

MICRODOT LEPRA/CON Ultra-Miniature Connectors — Slide-On Series

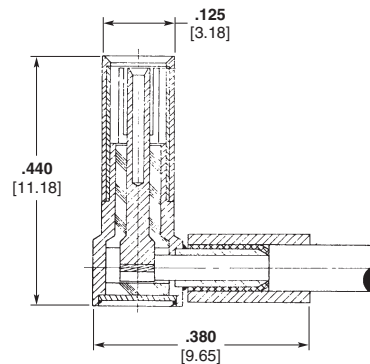
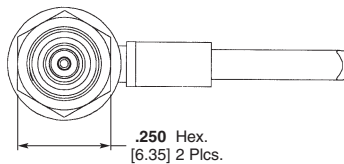
Featuring Twist Pin,
Pin and Socket Contacts



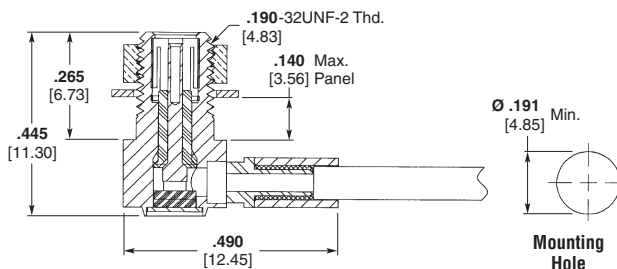
LEPRA/CON Slide-On Connectors offer a convenient mating style along with Ultra-miniature size. Inner contacts are twist pin tubular sockets in plugs and twist pin contacts for jacks and receptacles. Positive housing contact is provided by a three finger contact in the plug housing.



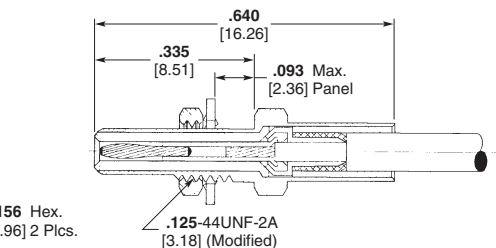
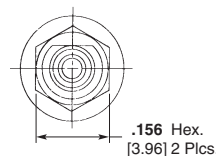
Straight Plug'
Part Number 142-1000-0001
Instruction Sheet Number 408-8512
Former MICRODOT I.S. Number RF-ASMB-15



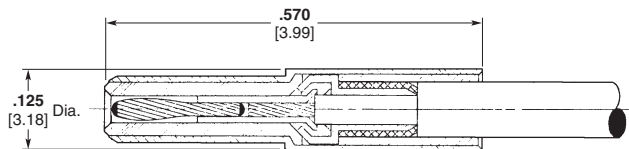
Right-Angle Plug'
Part Number 142-1002-0001
Instruction Sheet Number 408-8513
Former MICRODOT I.S. Number RF-ASMB-16



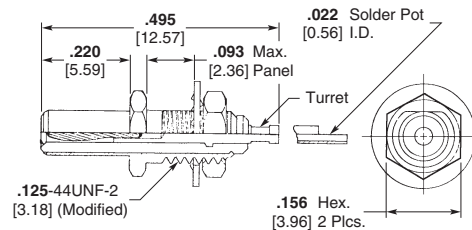
Right-Angle Bulkhead Mount Plug'
Part Number 142-1021-0001
Instruction Sheet Number 408-8519
Former MICRODOT I.S. Number RF-ASMB-76



Straight Bulkhead Jack'
Part Number 141-1001-0001
Instruction Sheet Number 408-8512
Former MICRODOT I.S. Number RF-ASMB-15



Straight Jack'
Part Number 141-1000-0001
Instruction Sheet Number 408-8512
Former MICRODOT I.S. Number RF-ASMB-15



Front Mount Receptacle'

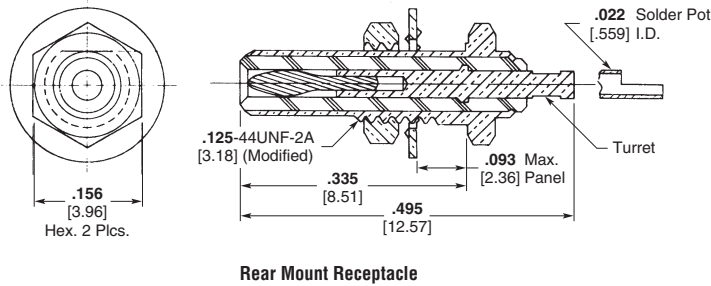
Part No.	Contact Tail
141-1002-0001	Turret
141-1002-0002	Solder Pot

*Mounting hole and assembly tools shown on page 2-134.

MICRODOT LEPRA/CON Ultra-Miniature Connectors — Slide-On Series (Continued)

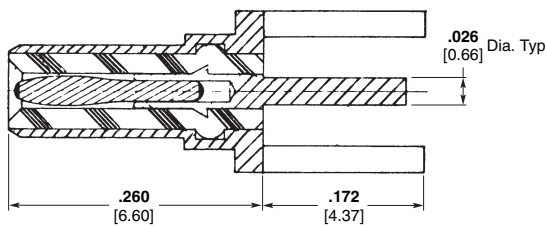
**Featuring Twist Pin,
Pin and Socket Contacts**

(Continued)

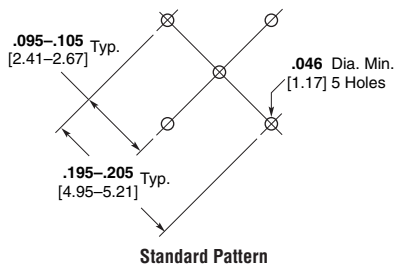
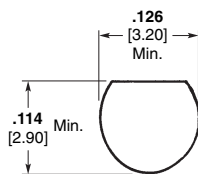


Part No.	Contact Tail
141-1003-0001	Turret
141-1003-0002	Solder Pot

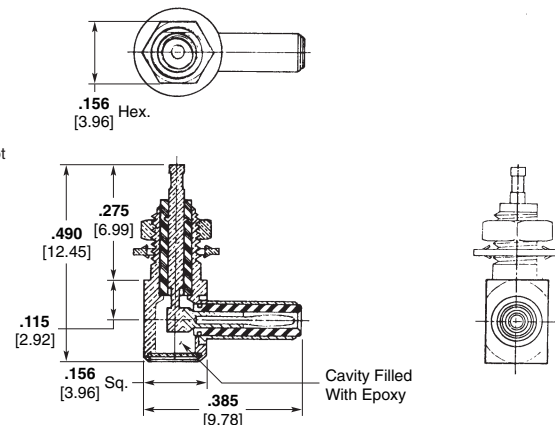
Mounting Hole shown below.



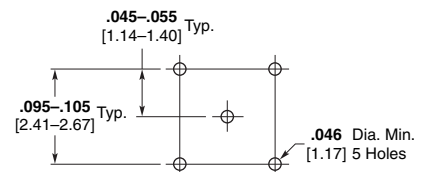
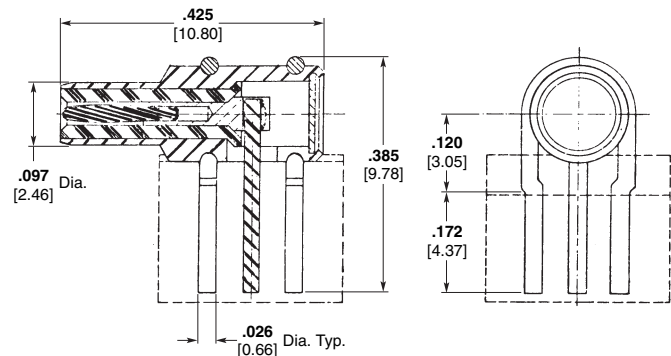
Bulkhead Receptacle Mounting Hole



Printed Circuit Receptacle Mounting Hole Pattern



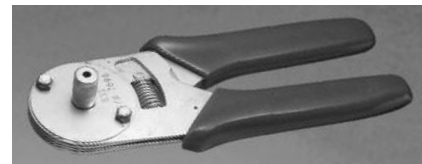
Right-Angle Printed Circuit Receptacle
Mounting Hole Pattern Shown Below
Part Number 141-1005-0001



LEPRA/CON Connector Assembly Tools



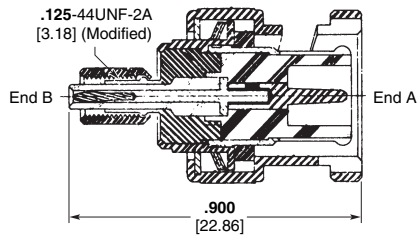
Part No.	Thomas & Betts Part No.
010-0132-0000	WT-419



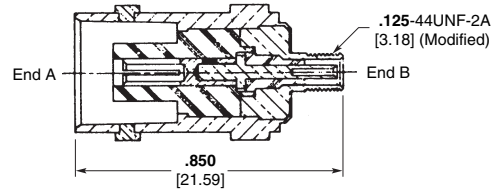
Connector	Contact Crimp No.	Astro Tool Part No.
Straight Connector Only	010-0150-0000	A-826-1
141-1001-0001	010-0161-0000	827

MICRODOT LEPRA/CON Ultra-Miniature Connectors (Continued)

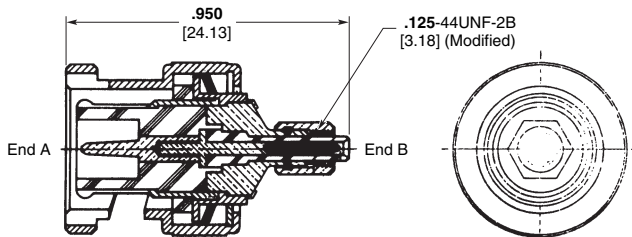
**BNC / LEPRA/CON
Connector Adapters**



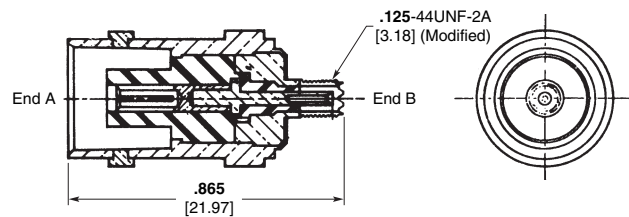
End "B" is MICRODOT
Screw-On Plug End "A" is BNC Plug
Part Number 143-0001-0001



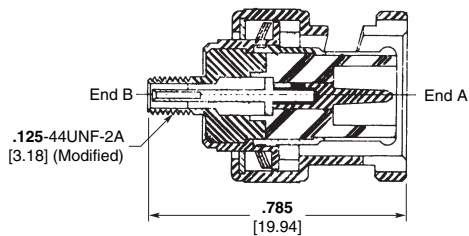
End "A" is BNC Receptacle End "B" is MICRODOT
Screw-On Receptacle
Part Number 143-0003-0001



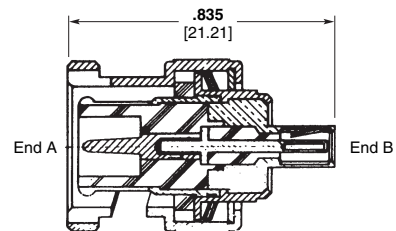
End "A" is BNC Plug End "B" is MICRODOT Screw-On Plug
with Locking Interface
Part Number 143-0029-0001



End "A" is BNC Receptacle End "B" is MICRODOT Screw-On
Receptacle with Locking Interface
Part Number 143-0032-0001



End "B" is Screw-On Receptacle End "A" is BNC Plug
Part Number 143-0002-0001

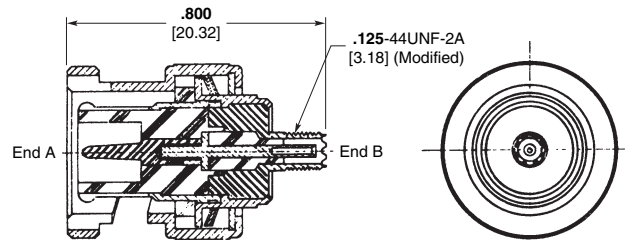


End "A" is BNC Plug End "B" is MICRODOT
Slide-On Plug
Part Number 143-1000-0001

MICRODOT LEPRA/CON Ultra-Miniature Connectors (Continued)

**BNC / LEPRA/CON
Connector Adapters**

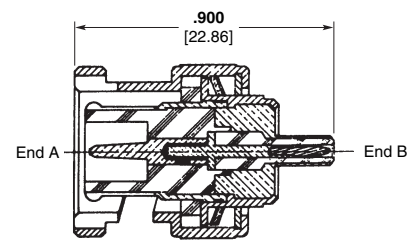
(Continued)



End "A" is BNC Plug

End "B" is MICRODOT Receptacle with
Locking Interface

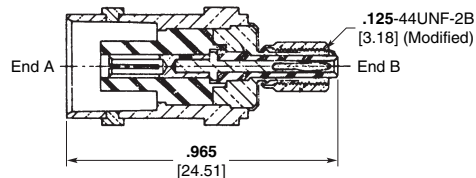
Part Number 143-0031-0001



End "A" is BNC Plug

End "B" is MICRODOT
Slide-On Receptacle

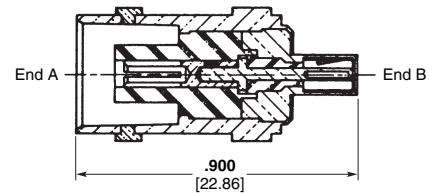
Part Number 143-1002-0001



End "A" is BNC Receptacle

End "B" is MICRODOT
Screw-On Plug

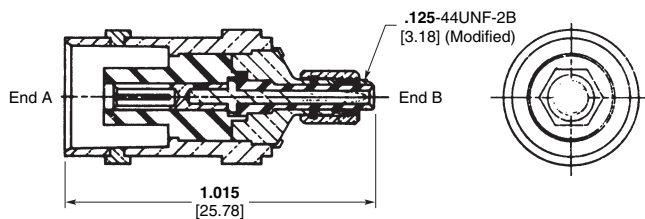
Part Number 143-0004-0001



End "A" is BNC Receptacle

End "B" is MICRODOT
Slide-On Plug

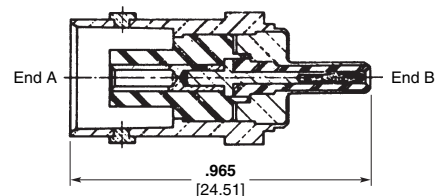
Part Number 143-1001-0001



End "A" is BNC Receptacle

End "B" is MICRODOT Screw-On Plug
with Locking Interface

Part Number 143-0030-0001



End "A" is BNC Receptacle

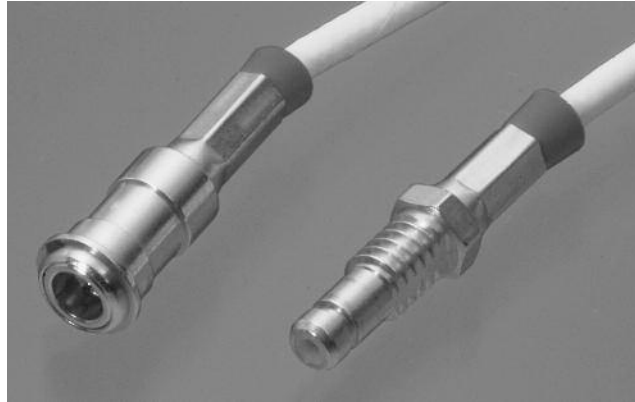
End "B" is MICRODOT
Slide-On Receptacle

Part Number 143-1003-0001

MICRODOT LEPRA/CON Ultra-Miniature Connectors — Snap-Lock Series

Product Facts

- Simple coupling design eliminates the need for tools and saves assembly time
- Positive locking mechanism provides its own fail-safe features
- Inspection of the mated connector is fast, simple and effective
- Push-Pull design allows higher panel density
- Quick-connect and disconnect features



Performance Data Summary For Snap-Lock Connectors

Electrical

Impedance — Designed to be compatible with 50 Ohm coaxial cables (Dual Shield RG 196).

Dielectric Withstanding Voltage — 450 volts RMS at sea level (Operating).

Contact Resistance — 8 milliohms max. at 3 amps. Average resistance: 4 milliohms

Insulation Resistance — 10^4 megohms min.

Voltage Standing Wave Ratio (VSWR) — 3.4 max., 1.3 min. to 12 GHz.

Environmental

Temperature Range — -85°F to +257°F [-65°C to +125°C].

Vibration — MIL-STD-202, Method 204, Test condition D. No change in electrical discontinuity in excess of 1 microsecond.

Shock — MIL-STD-202, Method 213A, Test Condition C. No electrical discontinuity or evidence of physical damage.

Mechanical

Cable Acceptance Dimensions —

Center conductor — .012 [0.31] nom.

Dielectric — .040 [1.02] max.

Shield — .080 [2.03] max.

Jacket — .090 [2.29] max..

All-Crimp Assembly —

Center contacts and shield are crimped individually.

Durability — 500 mating cycles.

Materials

Body and Body Components — Brass per QQ-B-626 Comp 360.

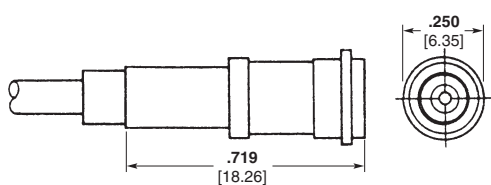
Contact Material — Copper Alloy.

Crimp Sleeves — Leaded Copper.

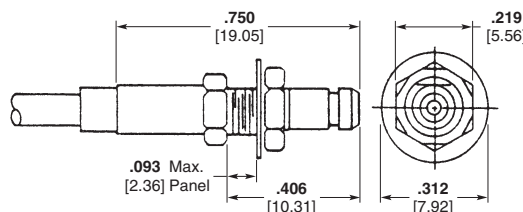
Insulators — PTFE per ASTM-D-1710.

Lockwashers — #425 Bronze Alloy.

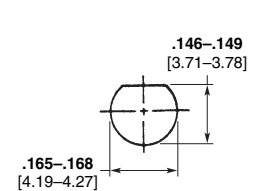
Plating — Gold per MIL-G-45204, Type II, Grade C, Class 1.



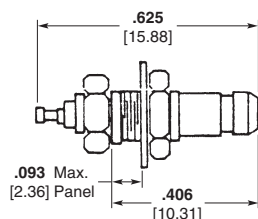
Straight Plug
Part Number 144-0001-0001



Bulkhead Jack, Rear Mount
Part Number 145-0001-0001



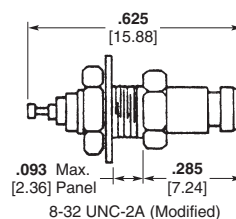
"D" Hole Dimensions
For Panel Mounting



Receptacle, Rear Mount
Part Number 145-0003-0001



Receptacle, Front Mount
Part Number 145-0002-0001



Connector/Cable Assembly Crimp Tools — Center Contact and Shield

Tool	Part No.
SKT & Pin Crimp	010-1004-0000
Housing Crimp	010-0081-0000

MICRODOT Cable Assemblies

Capability

The experience TE Connectivity has gained through years of pioneering efforts in the development of MICRODOT miniaturized cable and connectors is available to customers in the assembly of complex cable/connector combinations. This experience offers the customer low cost and

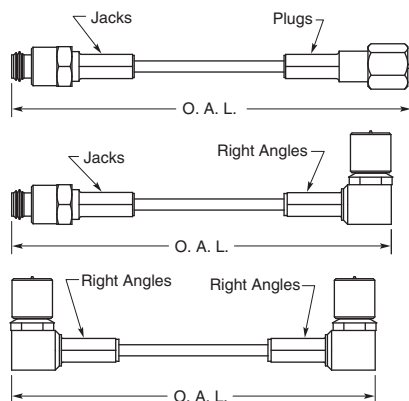
no tooling charges, precision construction, thorough inspection and prompt delivery. The capability also makes it possible for the designer to specify a complete assembly or harness with the understanding that TE will deliver a custom fabrication equal in quality to the MICRODOT compo-

nents it contains. These assemblies are made to the customer's specifications or are designed by the Company's experienced engineers to fit particular requirements. Special features are light weight, reduced size, high operating temperatures and comprehensive layouts.

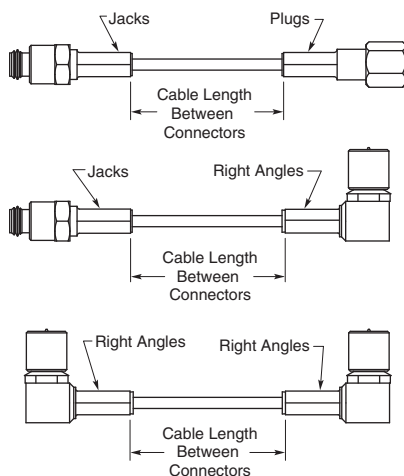
How To Order

1. Specify MICRODOT part numbers
 - A. Connector, one end
 - B. Connector, other end
 - C. Cable

2. Specify normal length
 - A. Overall length



- B. Or length between connectors



3. Specify length tolerance
 - A. Standard tolerance

Assembly Length	Tolerance
0 thru 12-1/2"	±1/8"
Over 12-1/2" thru 1000"	±1% rounded to nearest 1/4"
Over 1000"	±1% rounded to nearest 1"

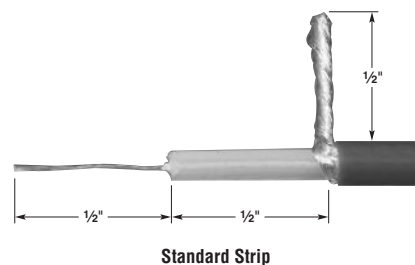
- B. Special tolerance

Tolerances as close as $\pm 0.5\%$ are available for most cable assemblies at a premium rate. Consult TE Connectivity for details.

4. Specify cable strip (Applies to cable assemblies with only one connector)

- A. Not stripped

- B. Standard strip



- C. Special strip - specify style

Example:

Connector:

142-1000-0001 one end

142-1002-0001 other end

Length:

36" overall, standard tolerance

MICRODOT Cable Assemblies (Continued)

Mating Interface Chart

Plugs			Jacks and Receptacles		
Series	Description	Page	Series	Description	Page
S50	Standard	2-105, 2-106	S50	Standard	2-107, 2-108
50 Ohm	Gold Plated Crimp Style	2-124, 2-125	50 Ohm	Gold Plated Crimp Style	2-126, 2-127
50 Ohm	Cap	2-120	50 Ohm	Feed Thru Adapter	2-121, 2-122
S70	Standard	2-105, 2-106	S70	Standard	2-107, 2-108
70 Ohm	Gold Plated Crimp Style	2-124, 2-125	70 Ohm	Gold Plated Crimp Style	2-126, 2-127
70 Ohm	Cap	2-120	70 Ohm	Feed Thru Adapter	2-121, 2-122
S93	Standard	2-105, 2-106	S93	Standard	2-107, 2-109
93 Ohm	Gold Plated Crimp Style	2-125	93 Ohm	Gold Plated Crimp Style	2-126, 2-127
93 Ohm	Cap	2-120	93 Ohm	Feed Thru Adapter	2-121, 2-122
SOS 50	Standard	2-110, 2-111	SOS 50	Standard	2-110, 2-113
SOS 70	Standard	2-111, 2-112	SOS 70	Standard	2-112, 2-113
SOS 93	Standard	2-111, 2-112	SOS 93	Standard	2-112, 2-113
QC 50	Standard	2-114, 2-115	QC 50	Standard	2-114
QC 70	Standard	2-115	QC 70	Standard	2-114
QC 93	Standard	2-115	QC 93	Standard	2-114
Screw-On	Twinax	2-117	Screw-On	Twinax	2-117
Slide-On	Twinax	2-117	Slide-On	Twinax	2-117
Screw-On	Triax	2-118	Screw-On	Triax	2-118
Screw-On	LEPRA/CON Connector	2-129	Screw-On	LEPRA/CON Connector	2-129, 2-130
Screw-On	LEPRA/CON Connector Interlocking Interface	2-131	Screw-On	LEPRA/CON Connector Interlocking Interface	2-132
Slide-On	LEPRA/CON Connector	2-133	Slide-On	LEPRA/CON Connector	2-133, 201

MICRODOT Cable Acceptance Dimensions

Standard Connectors

Screw-On Series

Straight Plugs — Page 2-105

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
S-50				
032-0021-0001	.087 2.21	.061 1.55	.050 1.27	.013 .330
032-0023-0001	.087 2.21	.061 1.55	.041 1.04	.015 .381
032-0025-0001	.093 2.36	.068 1.73	.050 1.27	.013 .330
032-0033-0001	.093 2.36	.077 1.96	.047 1.00	.015 .381
032-0097-0001	.087 2.21	.061 1.55	.050 1.27	.015 .381
032-0098-0001	.087 2.21	.061 1.55	.041 1.04	.015 .381
032-0155-0001	.088 2.24	.061 1.55	.041 1.04	.015 .381
032-0156-0001	.088 2.24	.061 1.55	.041 1.04	.015 .381
052-0213-0001	.087 2.21	.061 1.55	.050 1.27	.013 .330
052-0235-0001	.087 2.21	.061 1.55	.041 1.04	.015 .381
052-0235-0003	.087 2.21	.061 1.55	.041 1.04	.015 .381
052-0370-0001	.093 2.36	.068 1.73	.041 1.04	.015 .381
052-0542-0001	.087 2.21	.061 1.55	.041 1.04	.015 .381
S-70				
032-0010-0001	.093 2.36	.075 1.91	.061 1.55	.013 .330
032-0022-0001	.093 2.36	.075 1.91	.059 1.50	.015 .381
032-0067-0001	.108 2.74	.079 2.01	.059 1.50	.015 .381
032-0078-0001	.108 2.74	.079 2.01	.061 1.55	.013 .330
032-0222-0001	.093 2.36	.075 1.91	.059 1.50	.015 .381
052-0092-0001	.093 2.36	.075 1.91	.059 1.50	.015 .381
S-93				
032-0011-0001	.134 3.40	.118 2.99	.100 2.54	.013 .330
032-0017-0001	.134 3.40	.118 2.99	.100 2.54	.015 .381
032-0066-0001	.154 3.91	.118 2.99	.101 2.67	.015 .381
032-0071-0001	.134 3.40	.118 2.99	.097 2.446	.031 .787
032-0092-0001	.155 3.94	.125 3.18	.107 2.72	.015 .381
032-0099-0001	.134 3.40	.118 2.99	.100 2.54	.015 .381
052-0200-0001	.134 3.40	.118 2.99	.100 2.54	.015 .381

MICRODOT Cable Acceptance Dimensions (Continued)

Screw-On Series (Continued)

Right-Angle Plugs — Page 2-106

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Nom. Inner Conductor
S-50				
032-0015-0001	.092 2.34	.060 1.52	Any	.012 .305
052-0204-0001	.092 2.34	.060 1.52	Any	.012 .305
052-0215-0001	.092 2.34	.060 1.52	Any	.012 .305
052-0337-0001	.111 2.81	.074 1.88	Any	.012 .305
S-70				
032-0013-0001	.111 2.81	.074 1.88	Any	.012 .305
052-0299-0001	.111 2.81	.074 1.88	Any	.012 .305
052-0379-0001	.111 2.81	.074 1.88	Any	.012 .305
S-93				
032-0014-0001	.134 3.40	.123 3.12	Any	.012 .305
032-0068-0001	.155 3.94	.118 2.99	Any	.012 .305
032-0153-0001	.155 3.94	.118 2.99	Any	.012 .305
052-0207-0001	.134 3.40	.123 3.12	Any	.012 .305
052-0298-0001	.134 3.40	.123 3.12	Any	.012 .305
052-0304-0022	.155 3.94	.118 2.99	Any	.012 .305

Jacks — Page 2-107

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
S-50				
031-0033-0001	.088 2.24	.061 1.55	.041 1.04	.021 .533
031-0034-0001	.087 2.21	.061 1.55	.041 1.04	.021 .533
051-0467-0001	.079 2.01	.061 1.55	.041 1.04	.021 .533
S-70				
031-0036-0001	.093 2.36	.075 1.91	.059 1.50	.021 .533
031-0048-0001	.093 2.36	.075 1.91	.059 1.50	.021 .533
031-0090-0001	.109 2.77	.079 2.01	.059 1.50	.021 .533
S-93				
031-0032-0001	.134 3.40	.118 2.99	.100 2.54	.021 .533
031-0037-0001	.134 3.40	.118 2.99	.100 2.54	.021 .533
031-0088-0001	.154 3.91	.118 2.99	.101 2.57	.021 .533
031-0089-0001	.154 3.91	.118 2.99	.101 2.57	.021 .533

MICRODOT Cable Acceptance Dimensions (Continued)

Slide-On Series

Straight Plugs — Page 2-111

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
SOS-50				
032-0055-0001	.088 2.24	.058 1.47	.041 1.04	.015 .381
032-0056-0001	.088 2.24	.058 1.47	.041 1.04	.015 .381
SOS-70				
032-0060-0001	.093 2.36	.075 1.71	.059 1.50	.015 .381
032-0061-0001	.093 2.36	.075 1.71	.059 1.50	.015 .381
032-0087-0001	.108 2.74	.079 2.01	.059 1.50	.015 .381
SOS-93				
032-0058-0001	.134 3.40	.118 2.99	.100 2.54	.015 .381
032-0077-0001	.134 3.40	.118 2.99	.100 2.54	.015 .381
032-0084-0001	.154 3.91	.118 2.99	.101 2.57	.015 .381

Right-Angle Plugs — Page 2-112

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Nom. Inner Conductor
SOS-50				
032-0063-0001	.092 2.34	.060 1.52	Any	.012 .305
SOS-70				
032-0062-0001	.111 2.82	.074 1.88	Any	.012 .305
SOS-93				
032-0059-0001	.134 3.40	.123 3.12	Any	.012 .305
032-0083-0001	.155 3.94	.118 2.99	Any	.012 .305

Jacks — Page 2-112

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
SOS-50				
031-0053-0001	.088 2.24	.061 1.55	.041 1.04	.021 .533
031-0054-0001	.088 2.24	.061 1.55	.041 1.04	.021 .533
SOS-70				
031-0095-0001	.108 2.74	.079 2.01	.059 1.50	.021 .533
SOS-93				
031-0063-0001	.134 3.40	.118 2.99	.100 2.54	.021 .533
031-0064-0001	.134 3.40	.118 2.99	.100 2.54	.021 .533
031-0093-0001	.154 3.91	.118 2.99	.101 2.57	.021 .533
031-0094-0001	.154 3.91	.118 2.99	.101 2.57	.021 .533

MICRODOT Cable Acceptance Dimensions (Continued)

Quick-Connect Series

Straight Plugs — Page 2-115

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
QC-50				
032-0002-0001	.093 2.36	.058 1.47	Any	.013 .330
032-0030-0001	.093 2.36	.058 1.47	.041 1.04	.015 .381
QC-70				
032-0016-0001	.093 2.36	.075 1.91	.061 1.55	.013 .330
032-0031-0001	.093 2.36	.075 1.71	.059 1.50	.015 .381
032-0079-0001	.108 2.74	.079 2.01	.059 1.50	.015 .381
QC-93				
032-0012-0001	.134 3.40	.118 2.99	.100 2.54	.013 .330
032-0032-0001	.134 3.40	.118 2.99	.100 2.54	.015 .381
032-0072-0001	.154 3.91	.118 2.99	.101 2.57	.015 .381

Right-Angle Plugs — Page 2-115

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Nom. Inner Conductor
QC-50				
032-0026-0001	.092 2.34	.060 1.52	Any	.012 .305
QC-70				
032-0027-0001	.111 2.82	.074 1.88	Any	.012 .305
QC-93				
032-0020-0001	.134 5.40	.123 3.12	Any	.012 .305
052-0228-0001	.155 3.94	.118 2.99	Any	.012 .305

Jacks — Page 2-116

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
QC-50				
031-0038-0001	.093 2.36	.061 1.55	.041 1.04	.021 .533
QC-93				
031-0040-0001	.134 3.40	.118 2.99	.100 2.54	.021 .533

Twinax

Plugs — Page 2-117

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
032-0088-0001	.167 4.24	.142 3.60	.061 1.55	.014 .356
032-0093-0001	.123 3.12	.092 2.34	.042 1.07	.014 .356
052-0229-0001	.123 3.12	.092 2.34	.042 1.07	.014 .356
052-0324-0001	.167 4.24	.142 3.61	.061 1.55	.014 .356

Jacks — Page 2-117

Connector Part No.	Max. Jacket	Max. Shield	Max. Dielectric	Max. Inner Conductor
051-0358-0001	.167 4.24	.142 3.60	.061 1.55	.020 .508
051-0389-0001	.167 4.24	.142 3.61	.061 1.55	.020 .508

MICRODOT Cable Acceptance Dimensions (Continued)
Triax
Plugs — Page 2-118

Connector Part No.	Max. Jacket	Max. Outer Shield	Max. Outer Dielectric	Max. Inner Shield	Max. Inner Dielectric	Max. Inner Conductor
052-0130-0001	.124 3.15	Single Shield	.085 2.26	Single Shield	.041 1.04	.014 .356
052-0138-0001	.183 4.65	Single Shield	.146 3.71	.118 2.99	.107 2.72	.014 .356
052-0593-0001	.214 5.44	Single Shield	.166 4.22	.161 4.09	.131 3.33	.020 .508

Gold Plated Crimp Style Coaxial Connectors
Straight Plugs — Pages 2-124, 2-125

Connector Part No.	Max. Jacket	Max. Dielectric	Nom. Inner Conductor
50 Ohm Series			
132-0112-000*	.088 2.24	.039 .991	.012 .305
132-0113-000*	.088 2.24	.039 .991	.012 .305
132-0114-000*	.110 2.79	.070 1.78	.012 .305
132-0115-000*	.110 2.79	.070 1.78	.012 .305
132-0509-0002	.116 2.95	.070 1.78	.012 .305
70 Ohm Series			
132-0200-000*	.110 2.79	.070 1.78	.012 .305
132-0201-000*	.110 2.79	.070 1.78	.012 .305
93 Ohm Series			
132-0300-000*	.155 3.94	.107 2.72	.012 .305
132-0301-000*	.155 3.94	.107 2.72	.012 .305

Right-Angle Plugs — Page 2-125

Connector Part No.	Max. Jacket	Max. Dielectric	Nom. Inner Conductor
50 Ohm Series			
132-0116-0002	.088 2.24	.039 .991	.012 .305
132-0117-0002	.088 2.24	.039 .991	.012 .305
132-0118-0002	.110 2.79	.074 1.88	.012 .305
132-0119-0002	.110 2.79	.074 1.88	.012 .305
70 Ohm Series			
132-0202-0002	.110 2.79	.074 1.88	.012 .305
132-0203-0002	.110 2.79	.074 1.88	.012 .305
93 Ohm Series			
132-0302-0002	.155 3.94	.107 2.72	.012 .305
132-0303-0002	.155 3.94	.107 2.72	.012 .305

MICRODOT Cable Acceptance Dimensions (Continued)

Gold Plated Crimp Style Coaxial Connectors (Continued)

Jacks — Page 2-126

Connector Part No.	Max. Jacket	Max. Dielectric	Nom. Inner Conductor
50 Ohm Series			
131-0134-0001	.088 2.24	.039 .991	.012 .305
131-0135-0001	.088 2.24	.039 .991	.012 .305
131-0136-0001	.110 2.79	.070 1.78	.012 .305
131-0137-0001	.110 2.79	.070 1.78	.012 .305
70 Ohm Series			
131-0200-0001	.110 2.79	.070 1.78	.012 .305
131-0201-0001	.110 2.79	.070 1.78	.012 .305
93 Ohm Series			
131-0300-0001	.155 3.94	.107 2.72	.012 .305
131-0301-0001	.155 3.94	.107 2.72	.012 .305

LEPRA/CON Connectors
All — Pages 2-129 to 2-137

Connector Part No.	Max. Jacket	Max. Dielectric	Nom. Inner Conductor
All	.081 2.06	.040 1.02	.012 .305

MICRODOT Hermetic Connectors

Coaxial Screw-On, Slide-On Series



Material and Finish

50 Connector uses 10-32 thread.

70 Connector uses 12-32 thread.

93 Connector uses 1/4-32 thread.

Housing (1) — Cold rolled steel silver plate.

Gasket (2) — Neoprene or silicone rubber.

Insulator (3) — PTFE.

Glass Seal (4)

Center Contact (5) — Nickel Iron alloy contact with slotted turret type solder pot (other terminations available).

Service and Performance Data

Temperature Range —

-65°F to 450°F [-54°C to 232°C]

Electrical — 750 VAC working voltage.

Performance — 1200 VAC test at sea level.

Insulation Resistance — 5000 megohms at 500 VDC (room temperature).

Shock — 100 G's minimum.

Pressure — 100 PSI minimum.

Leak Rate Per Seal — Less than 1.04×10^{-8} cc/sec. (.001 Micron cubic ft/hr) of 100% helium tested at one atmosphere pressure differential far exceeding requirements of MIL-C-26500 and MIL-C-26482.

Plating — Silver unless otherwise specified.

Bulkhead Solder Mount

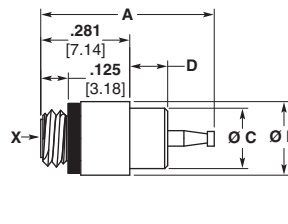


Fig. 1

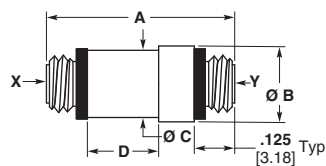


Fig. 2

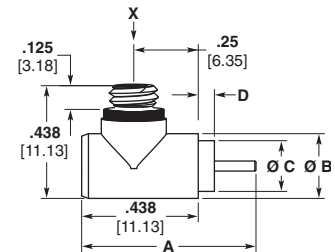


Fig. 3

Part No.	Fig.	A	B Dia.	C Dia. ±.015	D	X*	Y*
051-0049-0001	1	.563 14.30	.25 6.35	.200 5.08	.125 3.18	S-50	—
051-0056-0001	1	.563 14.30	.313 7.95	.251 6.38	.125 3.18	S-93	—
053-0228-0001	2	.594 15.09	.25 6.35	.227 5.77	.234 5.94	S-50	S-50
051-0315-0001	3	.656 16.66	.25 6.35	.195 4.95	.063 1.60	S-50	—

* "S" indicates Screw-On Series

Dimensions are subject to change without notice.

Bulkhead Solder Mount, Panel Insulated

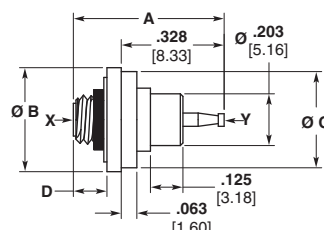


Fig. 1

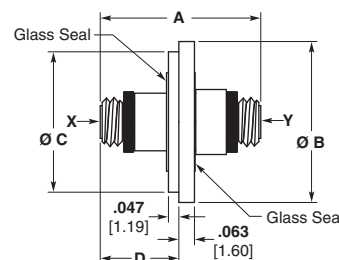


Fig. 2

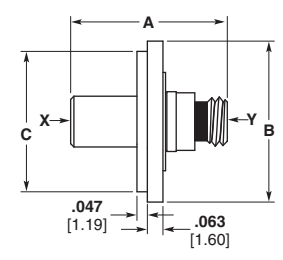


Fig. 3

Part No.	Fig.	A	B Dia.	C Dia.	D	X*	Y*
051-0232-0001	1	.563 14.30	.406 10.31	.370 9.40	.172 4.37	S-50	—
053-0227-0001	2	.609 15.47	.625 15.88	.540 13.72	.297 7.54	S-50	S-50
053-0412-0001	2	.609 15.47	.625 15.88	.540 13.72	.297 7.54	S-93	S-93
053-0028-0001	3	.609 15.47	.625 15.88	.540 13.72	.297 7.54	SOS-50	S-50

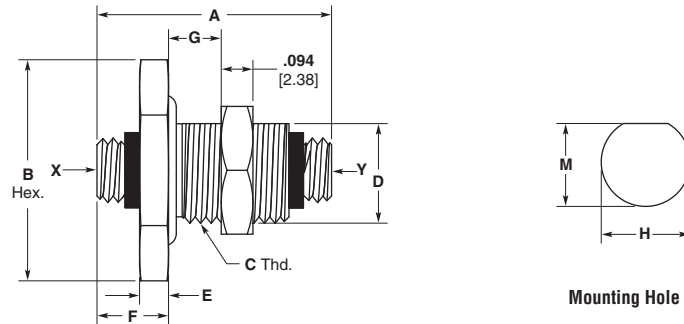
* "S" indicates Screw-On Series; "SOS" indicates Slide-On Series

Dimensions are subject to change without notice.

MICRODOT Hermetic Connectors (Continued)

Coaxial Screw-On, Slide-On Series

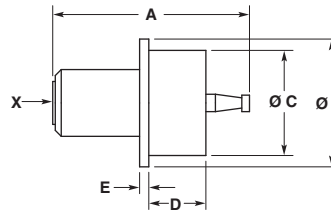
(Continued)

Microminiature Coaxial Receptacles


Part No.	A	B Hex.	C Thd.	D	E	F	G	H	M	X*	Y*
053-0455-0001	.688 17.46	.563 14.29	5/16-32 UNEF-2A	.297 7.54	.094 2.38	.203 5.16	.25 6.35	.312 7.92	.291 7.39	S-50	S-50
053-0636-0001	.922 23.42	.625 15.88	3/8-32 UNEF-2A	.344 8.73	.078 1.98	.203 5.16	.438 11.11	.375 9.53	.347 8.81	S-93	S-93

* "S" indicates Screw-On Series

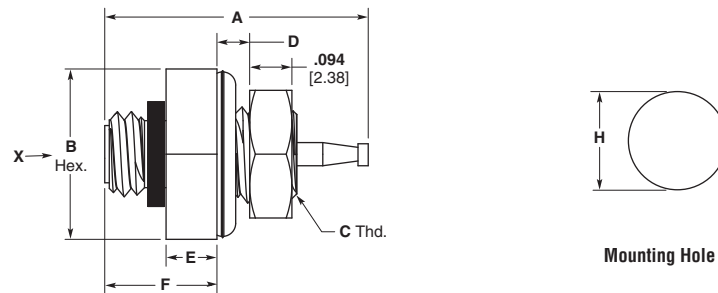
Dimensions are subject to change without notice.

Solder Mount Slide-On Series Receptacles


Part No.	A	B Dia.	C Dia. ±.015	D	E	X*
051-0134-0001	.563 14.29	.375 9.53	.309 7.85	.172 4.37	.031 .794	SOS-50, 70, 93
051-0158-0001	.563 14.29	.25 6.35	.200 5.08	.125 3.18	.047 1.19	SOS-50, 70, 93

* "SOS" indicates Slide-On Series

Dimensions are subject to change without notice.

Single Hole Mount Receptacles


Part No.	A	B Hex.	C Thd.	D	E	F	H	X*
051-0249-0001	.563 14.29	.375 9.53	12-32 UNEF-2A	.078 1.98	.109 2.78	.234 5.95	.218 5.54	S-50
051-0154-0001	.656 16.67	.625 15.88	3/8-32 UNEF-2A	.156 3.97	.078 1.98	.203 5.16	.375 9.53	S-93

* "S" indicates Screw-On Series

Dimensions are subject to change without notice.

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