



D. G. O'BRIEN, INC.

*Innovative Technologies
for Harsh Environments*

Standard Products



D. G. O'BRIEN, INC.

How to use this catalog

This catalog will help you identify and select standard connection products from D. G. O'Brien, Inc.

When you find the product you're looking for, please fax one of the EasyQuote forms (located in the last section of the catalog) to our offices. We will respond to your fax quickly with a price quote and product availability. Many items are available for *immediate* delivery.

If you are interested in a specific product but would like additional information and/or installation specifications, please contact the factory or your local area representative.

Please note: this collection is the "*tip of the iceberg*" in our comprehensive collection of products and engineering services. In addition to standard product lines, our custom engineering division designs innovative solutions for new and unique applications.

About D. G. O'Brien

A history of creating innovative technologies for harsh environments.

Since its founding in 1962, D. G. O'Brien, Inc. has focused on applying innovative thinking to the creation of infallible connection systems.

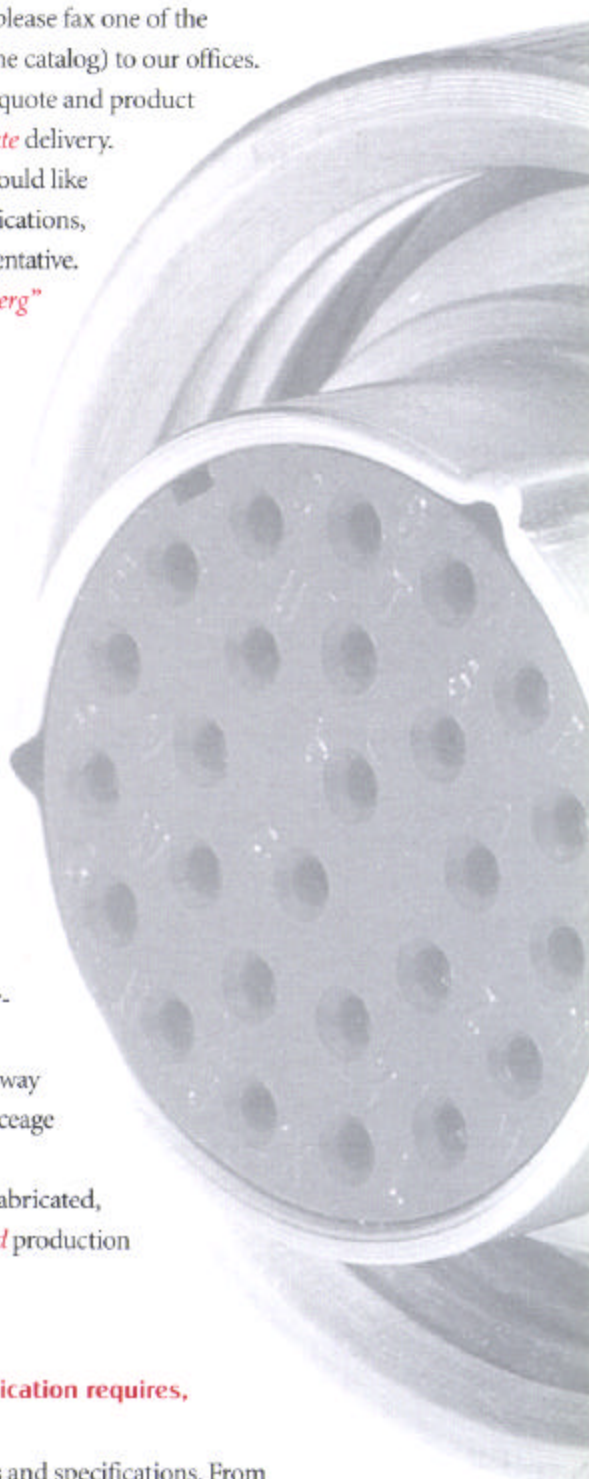
We have engineered, manufactured, and tested thousands of products for a wide range of customers who demand the highest standards in performance and reliability.

Today, D. G. O'Brien, Inc. continues to pave the way as an industry leader, applying new ideas and spaceage materials to create evermore reliable systems.

All of our products are engineered, machined, fabricated, and tested in our *fully-integrated ISO-9001 certified* production facility.

If you do not see what your program or application requires, please call us immediately.

The odds are good that we can meet your needs and specifications. From design to manufacturing and testing, D. G. O'Brien, Inc. provides solutions that stand the test of time.





D. G. O'BRIEN, INC.

Catalog Directory / Product Briefs

107 Series Connectors

MIL-C-24217

A rugged, metal shell connector series for submerged applications where reliability is crucial. Designs are based on Mil-C-24217. These plugs are designed to be molded to cables.

- 3-48 Contacts: #16 (1.5mm), #12 (4.0mm), #8 (10.0mm), and #0 (50mm)
- Glass-to-metal sealed pressure barrier in receptacles
- Dual O-ring seals between plug and receptacle
- Operating pressure: 0 to 6,500 psig (450 bar)
- Basic body material: 316/316L stainless steel (others available)

110 Series Connectors

COAX

Our simplest connector series, designed to accommodate 50 ohm cables. The receptacle contains integral glass-to-metal seals. Plugs can be provided with integral glass-to-metal seals for water blocking the plug/receptacle interface in molded or PBOF cable terminations.

- 1-50 ohm coax configuration (single pin version also available)
- Glass-to-metal sealed pressure barrier in the receptacle
- Dual O-ring seals between plug and receptacle
- Operating pressure: 0 to 10,000 psig (690 bar)
- Basic body material: 316/316L stainless steel (others available)

128 Series Connectors

HIGH DENSITY

A high density, instrumentation connector series for submerged applications where size and cost are major drivers in selection. The plugs are usually molded to cables.

- 6-55 contacts: #20 Awg (1.0 mm)
- Glass-to-metal sealed pressure barrier in the receptacle
- Single O-ring seal between plug and receptacle
- Operating pressure: 0 to 2,000 psig (138 bar)
- Body material: 316/316L stainless steel (others available)



D. G. O'BRIEN, INC.

107 Series Connectors

Receptacle



Features

- **Mil-C-24217 design** (see Mil-Spec Cross Reference)
- **Instrumentation & Power:** Coax, #16, #12, #8, #4 awg
- **3-48 contacts**
- **Glass to metal seal** pressure barrier in receptacle for maximum protection of equipment (10,000 psig open face pressure capability)
- **Dual O-ring seals**
- **Dual keys** (120° standard, other MS options available)
- **Simple, rugged construction;** excellent for instruments or equipment used in water or other harsh environments
- Certain standard designs and sizes **available from stock**

Materials (standard)

Body: 316/316L
Coupling Rings: Al-Ni-Br
Insulators:
Plug: Nylon
Receptacle: Glass
O-rings: Buna-N

Performance

Pressure: 14 pin and above operate to 6,500 psig mated; receptacles up to 10,000 psig open face

Insulation Resistance: 5 Gohms at 500VDC

DWV: 1900 VRMS @ 60Hz

Rated Voltage: 625 VRMS

Contact Ratings:	Size (awg)	Test	Operation
	#16	13	4-8 amps*
	#12	23	8-15 amps*
	#8	46	40 amps
	#4	80	70 amps
	#0	150	100 amps

Temperature Range:

Operating -40°F to 165°F

Storage -65°F to 175°F

Physical Shock: Mil-Std-202 Method 207

Vibration: 0-2,000 Hz at 10G

*Depends on number of contacts.

(Note: Alternate materials options are available—e.g. titanium, monel, and Inconel. Consult factory for details.)

Plug Kit



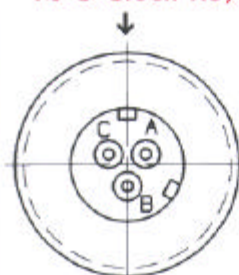


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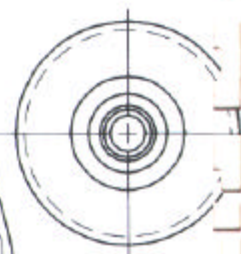
107 Series Connectors

Pin Patterns (shown actual size)

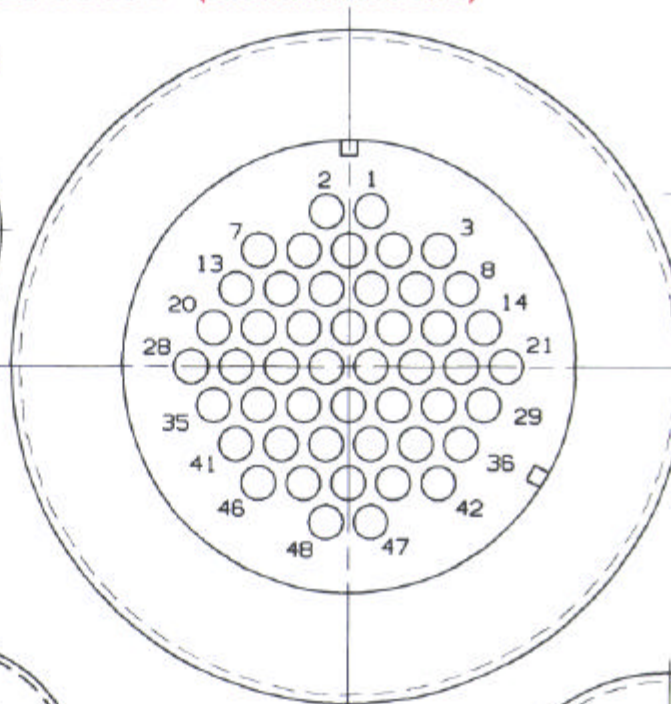
12 O'Clock Key



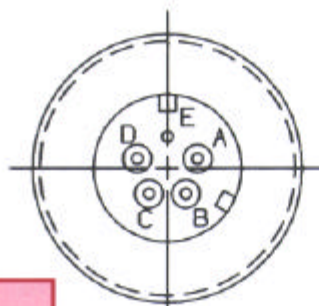
3#16



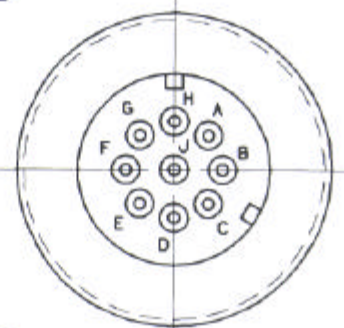
Coax



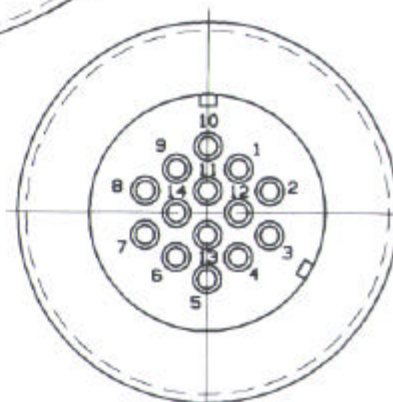
48#16



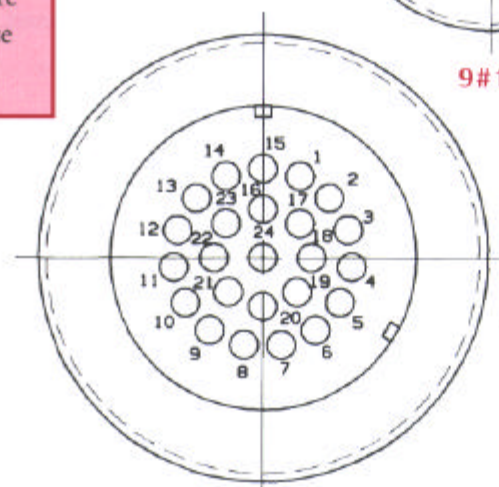
5#16



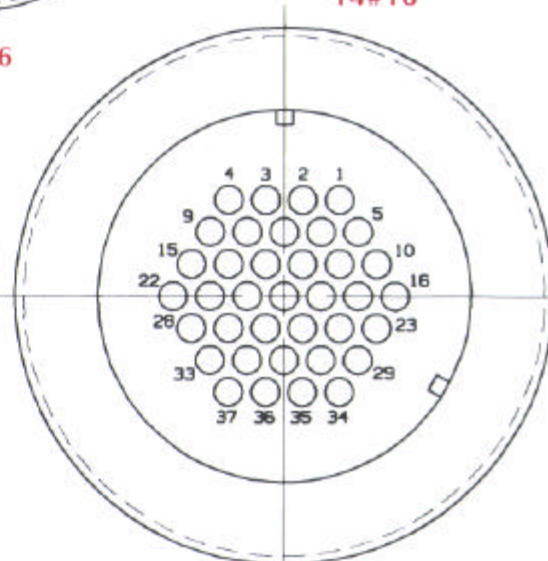
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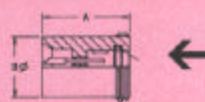
14#16



24#16



37#16

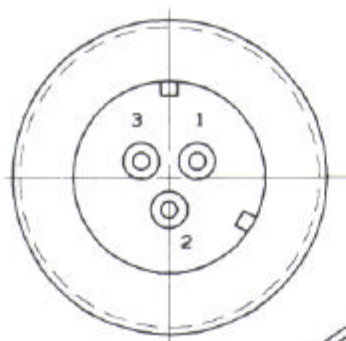


Note:

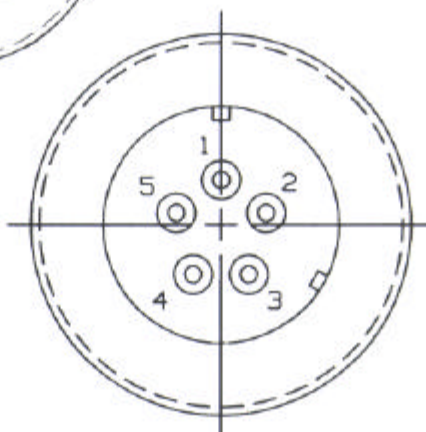
Views of pin patterns are looking into mating face of receptacles.



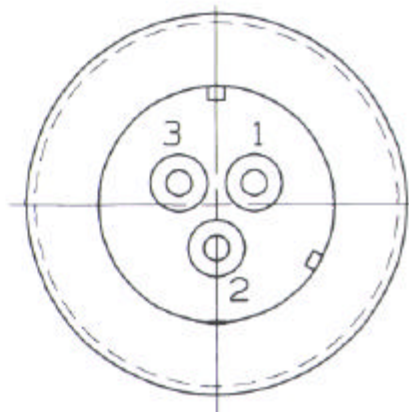
D. G. O'BRIEN, INC.
107 Series Connectors



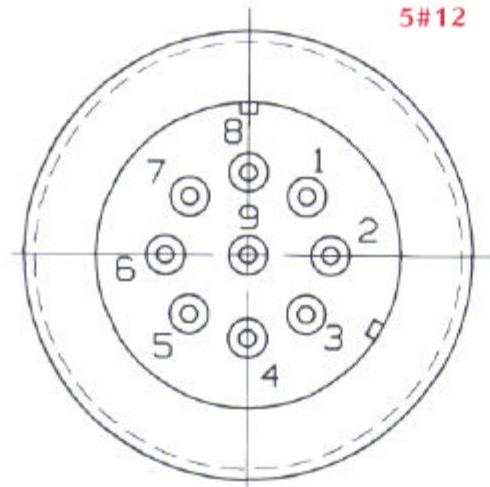
3#12



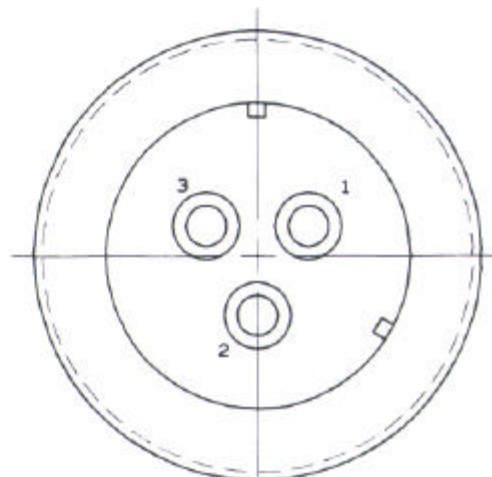
5#12



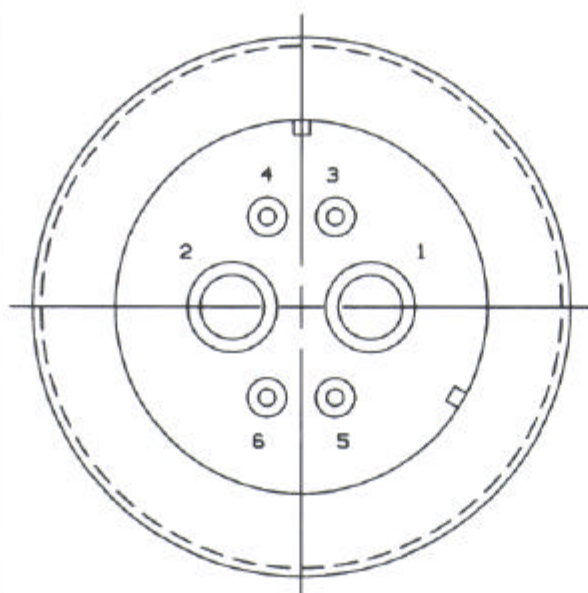
3#8



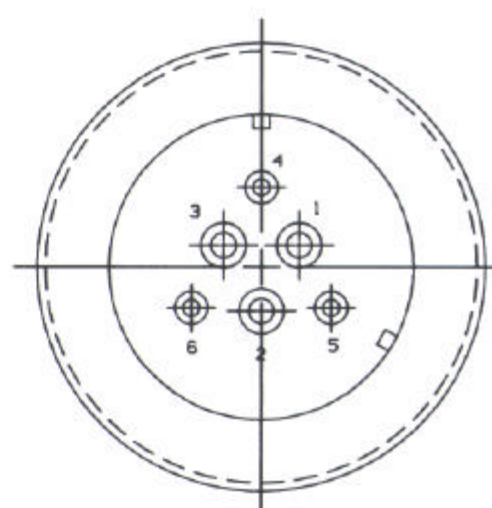
9#12



3#4



4#12/2#0



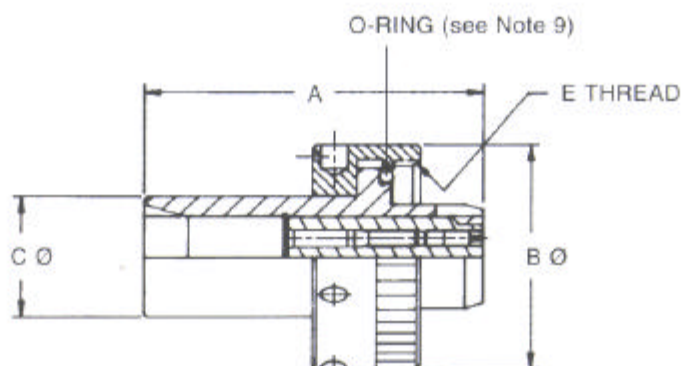
3#12/3#8



D. G. O'BRIEN, INC.

107 Series Connectors

Plug Kits



Straight

Technical Specs

No. of Contacts	120° Key Part No.	Wire Accom.	A NOM	B NOM	C NOM	E Thread
3#16	M24217/7-001	16-20	2.310	1.375	0.874	1 1/4-12UN
3#16	M24217/7-002	20-24	2.310	1.375	0.874	1 1/4-12UN
5#16	M24217/7-003	16-20	2.510	1.750	1.061	1 1/2-12UN
5#16	M24217/7-004	20-24	2.510	1.750	1.061	1 1/2-12UN
9#16	M24217/7-005	16-20	2.635	2.000	1.186	1 3/4-12UN
9#16	M24217/7-006	20-24	2.635	2.000	1.186	1 3/4-12UN
14#16	M24217/7-007	16-20	3.010	2.375	1.501	2 1/8-12UN
14#16	M24217/7-008	20-24	3.010	2.375	1.501	2 1/8-12UN
24#16	M24217/7-009	16-20	3.135	2.750	1.874	2 1/2-12UN
24#16	M24217/7-010	20-24	3.135	2.750	1.874	2 1/2-12UN
37#16	M24217/7-011	16-20	3.385	3.500	2.314	3-12UN
37#16	M24217/7-012	20-24	3.385	3.500	2.314	3-12UN
48#16	M24217/7-013	16-20	3.635	4.125	2.749	3 3/4-12UN
48#16	M24217/7-014	20-24	3.635	4.125	2.749	3 3/4-12UN
3#12	M24217/7-015	12	3.087	2.000	1.186	1 3/4-12UN
5#12	M24217/7-016	12	3.598	2.375	1.501	2 1/8-12UN
9#12	M24217/7-017	12	3.598	2.750	1.874	2 1/2-12UN
3#8	M24217/7-018	8	3.460	2.375	1.501	2 1/8-12UN
3#4	M24217/7-019	4	3.598	2.750	1.874	2 1/2-12UN
3#12 & 3#8	M24217/7-020	12 & 8	3.598	2.750	1.874	2 1/2-12UN
2#0 & 4#12	M24217/7-021	0 & 12	3.848	3.375	2.314	3-12UN
50 ohm	1071016-101	Coax	2.310	1.375	0.874	1 1/4-12UN

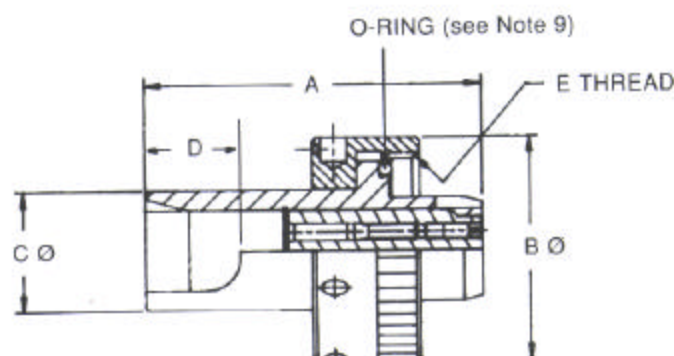
(Dimensions in inches.)



D. G. O'BRIEN, INC.

107 Series Connectors

Plug Kits, continued



Right Angle

Technical
Specs

No. of Contacts	120° Key Part No.	Wire Accom.	A NOM	B NOM	C NOM	D* NOM	E Thread
3#16	M24217/8-001	16-20	2.310	1.375	0.874	n/a	1 1/4-12UN
3#16	M24217/8-002	20-24	2.310	1.375	0.874	n/a	1 1/4-12UN
5#16	M24217/8-003	16-20	2.510	1.750	1.061	n/a	1 1/2-12UN
5#16	M24217/8-004	20-24	2.510	1.750	1.061	n/a	1 1/2-12UN
9#16	M24217/8-005	16-20	2.635	2.000	1.186	n/a	1 3/4-12UN
9#16	M24217/8-006	20-24	2.635	2.000	1.186	n/a	1 3/4-12UN
14#16	M24217/8-007	16-20	3.010	2.375	1.501	.665	2 1/8-12UN
14#16	M24217/8-008	20-24	3.010	2.375	1.501	.665	2 1/8-12UN
24#16	M24217/8-009	16-20	3.135	2.750	1.874	.790	2 1/2-12UN
24#16	M24217/8-010	20-24	3.135	2.750	1.874	.790	2 1/2-12UN
37#16	M24217/8-011	16-20	3.385	3.500	2.314	.915*	3-12UN
37#16	M24217/8-012	20-24	3.385	3.500	2.314	.915*	3-12UN
48#16	M24217/8-013	16-20	3.635	4.125	2.749	.730	3 3/4-12UN
48#16	M24217/8-014	20-24	3.635	4.125	2.749	.730	3 3/4-12UN
3#12	M24217/8-015	12	3.087	2.000	1.186	n/a	1 3/4-12UN
5#12	M24217/8-016	12	3.598	2.375	1.501	.790	2 1/8-12UN
9#12	M24217/8-017	12	3.598	2.750	1.874	.790	2 1/2-12UN
3#8	M24217/8-018	8	3.460	2.375	1.501	.650	2 1/8-12UN
3#4	M24217/8-019	4	3.598	2.750	1.874	.790	2 1/2-12UN
3#12 & 3#8	M24217/8-020	12 & 8	3.598	2.750	1.874	.790	2 1/2-12UN
2#0 & 4#12	M24217/8-025	0 & 12	5.010	3.375	2.314	2.125	3-12UN
50 ohm	1071032-101	Coax	2.310	1.375	0.874	n/a	1 1/4-12UN

(Dimensions in inches)

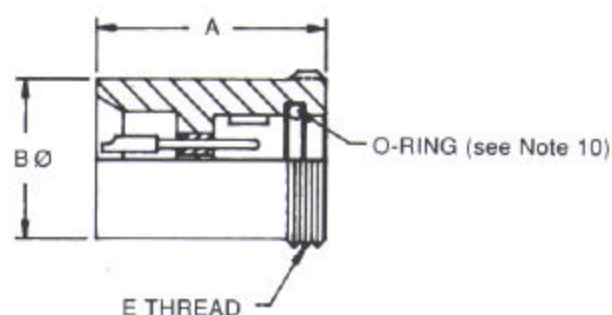
*See Note 7 on page 107-15



D. G. O'BRIEN, INC.

107 Series Connectors

Receptacles



Weld

No. of Contacts	120° Key Part No.	A NOM	B NOM	E Thread
3#16	M24217/1-001	1.617	1.125	1 1/4-12UN
5#16	M24217/1-002	1.742	1.370	1 1/2-12UN
9#16	M24217/1-003	1.867	1.585	1 3/4-12UN
14#16	M24217/1-004	1.992	1.962	2 1/8-12UN
24#16	M24217/1-005	2.117	2.338	2 1/2-12UN
37#16	M24217/1-006	2.117	2.870	3-12UN
48#16	M24217/1-007	2.410	3.745	3 3/4-12UN
3#12	M24217/1-008	2.880	1.585	1 3/4-12UN
5#12	M24217/1-009	2.880	1.995	2 1/8-12UN
9#12	M24217/1-010	2.880	2.307	2 1/2-12UN
3#8	M24217/1-011	2.880	1.995	2 1/8-12UN
3#4	M24217/1-012	2.880	2.307	2 1/2-12UN
3#12 & 3#8	M24217/1-013	2.880	2.307	2 1/2-12UN
2#0 & 4#12	M24217/1-014	2.880	2.870	3-12UN
50 ohm	1070016-101	1.617	1.125	1 1/4-12UN

(Dimensions in inches)

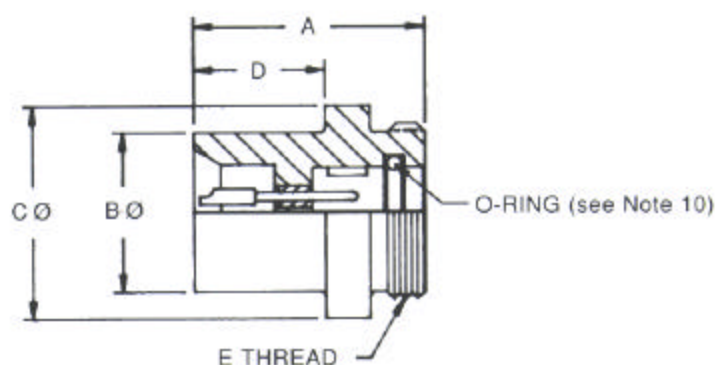
Technical
Specs



D. G. O'BRIEN, INC.

107 Series Connectors

Receptacles, continued



Flange Weld

Technical Specs

No. of Contacts	120° Key Part No.	A NOM	B NOM	C NOM	D NOM	E Thread
3#16	M24217/2-001	1.617	1.125	1.500	.920	1 1/4-12UN
5#16	M24217/2-002	1.742	1.370	1.875	1.045	1 1/2-12UN
9#16	M24217/2-003	1.867	1.585	2.062	1.170	1 3/4-12UN
14#16	M24217/2-004	1.992	1.962	2.500	1.295	2 1/8-12UN
24#16	M24217/2-005	2.117	2.338	2.875	1.420	2 1/2-12UN
37#16	M24217/2-006	2.117	2.870	3.375	1.420	3-12UN
48#16	M24217/2-007	2.410	3.745	4.248	1.550	3 3/4-12UN
3#12	M24217/2-008	2.880	1.585	2.062	1.510	1 3/4-12UN
5#12	M24217/2-009	2.880	1.995	2.375	1.690	2 1/8-12UN
9#12	M24217/2-010	2.880	2.307	2.750	1.690	2 1/2-12UN
3#8	M24217/2-011	2.880	1.995	2.375	1.690	2 1/8-12UN
3#4	M24217/2-012	2.880	2.307	2.750	1.690	2 1/2-12UN
3#12 & 3#8	M24217/2-013	2.880	2.307	2.750	1.690	2 1/2-12UN
2#0 & 4#12	M24217/2-014	2.880	2.870	3.375	1.630	3-12UN
50 ohm	1070032-101	1.617	1.125	1.500	.920	1 1/4-12UN

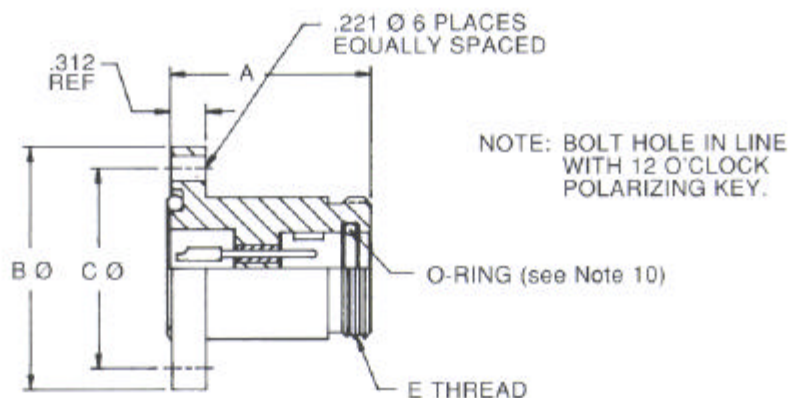
(Dimensions in inches.)



D. G. O'BRIEN, INC.

107 Series Connectors

Receptacles, continued



End Flange Bolted

No. of Contacts	120° Key Part No.	A NOM	B NOM	C NOM	E Thread
3#16	M24217/5-001	1.617	2.125	1.688	1 1/4-12UN
5#16	M24217/5-002	1.742	2.375	1.938	1 1/2-12UN
9#16	M24217/5-003	1.867	2.625	2.188	1 3/4-12UN
14#16	M24217/5-004	1.992	3.000	2.563	2 1/8-12UN
24#16	M24217/5-005	2.117	3.375	2.938	2 1/2-12UN
37#16	M24217/5-006	2.117	3.875	3.438	3-12UN
48#16	M24217/5-007	2.410	4.625	4.188	3 3/4-12UN
3#12	M24217/5-008	2.880	2.625	2.188	1 3/4-12UN
5#12	M24217/5-009	2.880	3.000	2.563	2 1/8-12UN
9#12	M24217/5-010	2.880	3.375	2.938	2 1/2-12UN
3#8	M24217/5-011	2.880	3.000	2.563	2 1/8-12UN
3#4	M24217/5-012	2.880	3.375	2.938	2 1/2-12UN
3#12 & 3#8	M24217/5-013	2.880	3.375	2.938	2 1/2-12UN
2#0 & 4#12	M24217/5-014	2.880	3.875	3.438	3-12UN
50 ohm	1070038-101	1.617	2.125	1.688	1 1/4-12UN

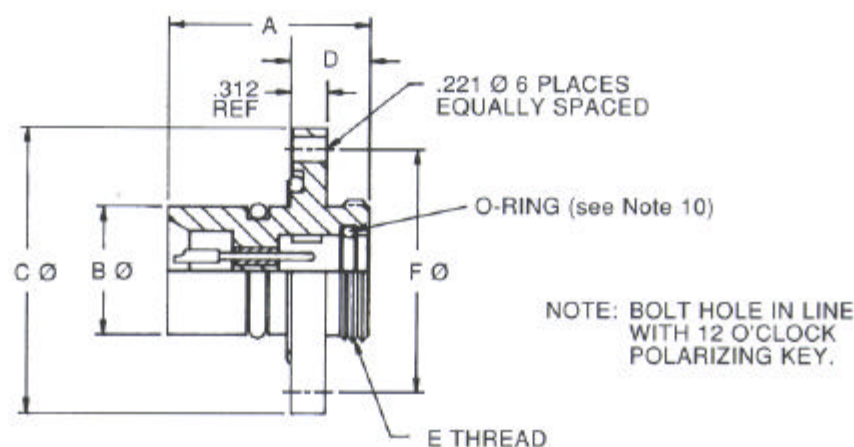
(Dimensions in inches.)

Technical
Specs



D. G. O'BRIEN, INC.
107 Series Connectors

Receptacles, continued



Mid Flange Bolted

Technical Specs

No. of Contacts	120° Key Part No.	A NOM	B NOM	C NOM	D NOM	E Thread	F NOM
3#16	M24217/4-001	1.617	1.120	2.500	.687	1 1/4-12UN	2.125
5#16	M24217/4-002	1.742	1.370	2.750	.687	1 1/2-12UN	2.375
9#16	M24217/4-003	1.867	1.495	3.000	.687	1 3/4-12UN	2.625
14#16	M24217/4-004	1.992	1.870	3.375	.687	2 1/8-12UN	3.000
24#16	M24217/4-005	2.117	2.245	3.750	.687	2 1/2-12UN	3.375
37#16	M24217/4-006	2.117	2.745	4.437	.687	3-12UN	4.062
48#16	M24217/4-007	2.410	3.493	5.000	.869	3 3/4-12UN	4.625
3#12	M24217/4-008	2.880	1.495	3.000	1.187	1 3/4-12UN	2.625
5#12	M24217/4-009	2.880	1.870	3.375	1.187	2 1/8-12UN	3.000
9#12	M24217/4-010	2.880	2.245	3.750	1.187	2 1/2-12UN	3.375
3#8	M24217/4-011	2.880	1.870	3.375	1.187	2 1/8-12UN	3.000
3#4	M24217/4-012	2.880	2.245	3.750	1.187	2 1/2-12UN	3.375
3#12 & 3#8	M24217/4-013	2.880	2.245	3.750	1.187	2 1/2-12UN	3.375
2#0 & 4#12	M24217/4-014	2.880	2.745	4.437	1.187	3-12UN	4.062
50 ohm	1070254-101	1.617	1.120	2.500	.687	1 1/4-12UN	2.125

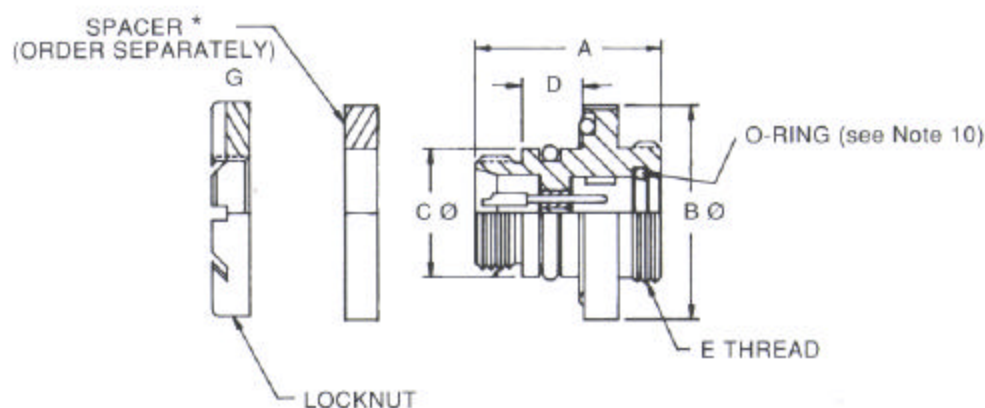
(Dimensions in inches.)



D. G. O'BRIEN, INC.

107 Series Connectors

Receptacles, continued



Locknut Flange

No. of Contacts	120° Key Part No.	A NOM	B NOM	C NOM	D NOM	E Thread
3#16	M24217/6-001	1.617	1.875	1.120	0.53	1 1/4-12UN
5#16	M24217/6-002	1.742	2.125	1.370	0.65	1 1/2-12UN
9#16	M24217/6-003	1.867	2.250	1.495	0.78	1 3/4-12UN
14#16	M24217/6-004	1.992	2.625	1.870	0.90	2 1/8-12UN
24#16	M24217/6-005	2.117	3.125	2.245	1.03	2 1/2-12UN
37#16	M24217/6-006	2.117	3.625	2.745	1.03	3-12UN
48#16	M24217/6-007	2.410	4.375	3.493	1.14	3 3/4-12UN
3#12	M24217/6-008	2.880	2.250	1.495	1.12	1 3/4-12UN
5#12	M24217/6-009	2.880	2.625	1.870	1.12	2 1/8-12UN
9#12	M24217/6-010	2.880	3.125	2.245	1.12	2 1/2-12UN
3#8	M24217/6-011	2.880	2.625	1.870	1.12	2 1/8-12UN
3#4	M24217/6-012	2.880	3.125	2.245	1.12	2 1/2-12UN
3#12 & 3#8	M24217/6-013	2.880	3.125	2.245	1.12	2 1/2-12UN
2#0 & 4#12	M24217/6-014	2.880	3.625	2.745	1.12	3-12UN
50 ohm	1070111-101	1.617	1.875	1.120	0.53	1 1/4-12UN

(Dimensions in inches.)

* Note: Order spacer separately depending upon bulkhead thickness.
Consult factory for proper part number.

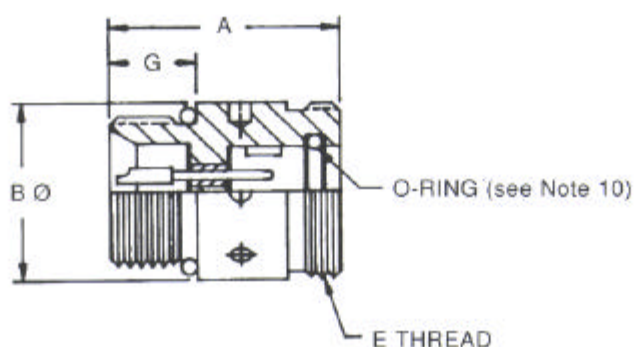
Technical
Specs



D. G. O'BRIEN, INC.

107 Series Connectors

Receptacles, continued



Bulkhead

Technical Specs

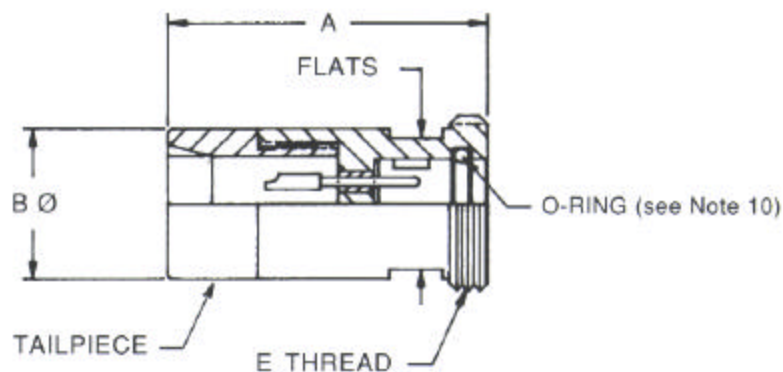
No. of Contacts	120° Key Part No.	A NOM	B NOM	G NOM	E Thread
3#16	1070119-101	1.617	1.245	0.617	1 1/4-12UN
5#16	1070120-101	1.742	1.500	0.742	1 1/2-12UN
9#16	1070121-101	1.867	1.750	0.867	1 3/4-12UN
14#16	1070122-101	1.992	2.125	0.842	2 1/8-12UN
24#16	1070123-101	2.117	2.495	0.842	2 1/2-12UN
37#16	1070124-101	2.117	3.000	0.842	3-12UN
48#16	1070125-101	2.410	3.750	0.842	3 3/4-12UN
3#12	1070131-101	2.880	1.750	0.862	1 3/4-12UN
5#12	1070132-1 *	2.880	2.125	0.842	2 1/8-12UN
9#12	1070133-101	2.880	2.495	0.845	2 1/2-12UN
3#8	1070126-1 *	2.880	2.125	0.842	2 1/8-12UN
3#4	1070128-101	2.880	2.495	0.845	2 1/2-12UN
3#12 & 3#8	1070129-1 *	2.880	2.495	0.845	2 1/2-12UN
2#0 & 4#12	1070130-1 *	2.880	3.000	0.857	3-12UN
50 ohm	1070134-101	1.617	1.245	0.617	1 1/4-12UN

(Dimensions in inches.) * Consult Factory



D. G. O'BRIEN, INC.
107 Series Connectors

Receptacles, continued



Inline

Technical Specs

No. of Contacts	120° Key Part No.	A NOM	B NOM	E Thread
3#16	M24217/3-001	2.247	1.061	1 1/4-12UN
5#16	M24217/3-002	2.612	1.186	1 1/2-12UN
9#16	M24217/3-003	2.862	1.501	1 3/4-12UN
14#16	M24217/3-004	3.049	1.874	2 1/8-12UN
24#16	M24217/3-005	3.422	2.314	2 1/2-12UN
37#16	M24217/3-006	4.354	2.811	3-12UN
48#16	M24217/3-007	4.330	3.624	3 3/4-12UN
3#12	M24217/3-008	3.565	1.501	1 3/4-12UN
5#12	M24217/3-009	3.565	1.874	2 1/8-12UN
9#12	M24217/3-010	3.875	2.249	2 1/2-12UN
3#8	M24217/3-011	3.565	1.874	2 1/8-12UN
3#4	M24217/3-012	3.875	2.249	2 1/2-12UN
3#12 & 3#8	M24217/3-013	3.875	2.249	2 1/2-12UN
2#0 & 4#12	M24217/3-014	4.105	2.749	3-12UN
50 ohm	1070149-101	2.247	1.061	1 1/4-12UN

(Dimensions in inches.)

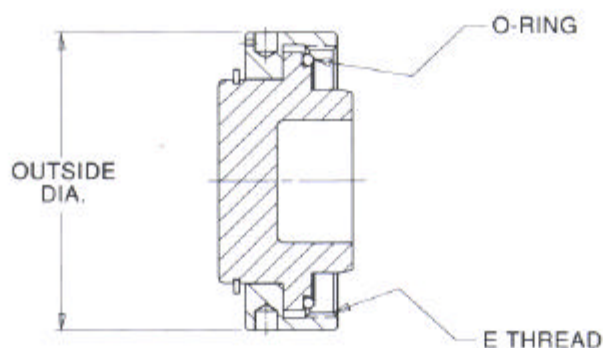
* Note: Tailpiece is provided preinstalled; removal prior to molding is not recommended.



D. G. O'BRIEN, INC.

107 Series Connectors

Pressure Proof Caps (Standard)



For Receptacles

Technical
Specs

For Connector	MS Part No.	Outside Diameter	E Thread	O-ring
3#16	M24217/10-001	1.37	1 1/4-12UN-2B	MS28775-117
5#16	M24217/10-002	1.75	1 1/2-12UN-2B	MS28775-122
9#16	M24217/10-003	2.00	1 3/4-12UN-2B	MS28775-126
14#16	M24217/10-004	2.37	2 1/8-12UN-2B	MS28775-132
24#16	M24217/10-005	2.75	2 1/2-12UN-2B	MS28775-138
37#16	M24217/10-006	3.50	3-12UN-2B	MS28775-145
48#16	M24217/10-007	4.12	3 3/4-12UN-2B	MS28775-151
3#12	M24217/10-008	2.00	1 3/4-12UN-2B	MS28775-126
5#12, 3#8	M24217/10-009	2.37	3 1/8-12UN-2B	MS28775-132
9#12, 3#4 3#12 & 3#8	M24217/10-010	2.75	2 1/2-12UN-2B	MS28775-138
2#0 & 4#12	M24217/10-011	3.37	3-12UN-2B	MS28775-145
8#16	M24217/10-012	1.50	1 3/8-12UN-2B	MS28775-119
3#0	M24217/10-013	3.63	3 1/4-12UN-2B	MS28775-147

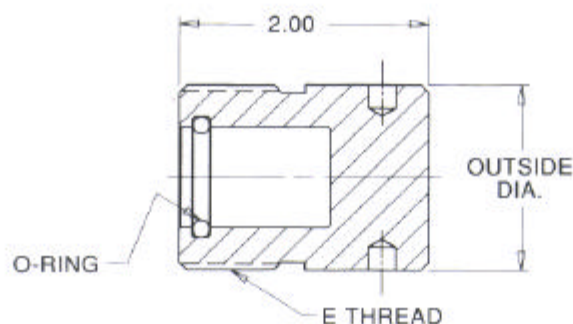
(Dimensions in inches.)



D. G. O'BRIEN, INC.

107 Series Connectors

Pressure Proof Caps (Standard)



For Plugs

Technical Specs

For Connector	MS Part No.	Outside Diameter	E Thread	O-ring
3#16, 5#16 Special	M24217/9-001	1.25	1 1/4-12UN-2A	MS28775-114
5#16	M24217/9-002	1.50	1 1/2-12UN-2A	MS28775-117
9#16, 3#12	M24217/9-003	1.75	1 3/4-12UN-2A	MS28775-121
14#16 5#12, 3#8	M24217/9-004	2.12	2 1/8-12UN-2A	MS28775-125
24#16, 3#4 9#12, 3#8 & 3#12	M24217/9-005	2.50	2 1/2-12UN-2A	MS28775-131
37#16, 2#0 & 4#12	M24217/9-006	3.00	3-12UN-2A	MS28775-137
48#16	M24217/9-007	3.75	3 3/4-12UN-2A	MS28775-144
8#16	M24217/9-008	1.37	1 3/8-12UN-2A	MS28775-117
3#0	M24217/9-009	3.25	3 1/4-12UN-2A	MS28775-141

(Dimensions in inches.)



D. G. O'BRIEN, INC.

107 Series Connectors

Important Ordering Notes

1. All plug kits and receptacle styles shown in pin patterns up to and including 14#16 are available for *immediate delivery* in limited quantities.
2. D. G. O'Brien, Inc. can terminate Plug Kits and Receptacle Kits to cable(s) of your choice at competitive prices. Please call us or fax your requirements to us for a quotation.
3. 120° Keying is standard. Alternate keys are available in accordance with Mil-C-24217 (i.e. 90°, 135°, 150°, and 165°). Consult factory for details.
4. For mounting details, replacement parts, installation instructions, tools, etc., please request the *Technical Data sheet* for the specific Plug Kit or Receptacle you are interested in.
5. D. G. O'Brien, Inc. produces all Mil-C-24217 configurations; only the commonly used configurations are shown in this catalog. Please consult factory if you do not see the configuration you require.
6. There are numerous internal configurations of Plug Kits in this product line; not all can be shown in this catalog. For the configuration of a specific Plug Kit, please request the *Technical Data sheet* for that Plug Kit.
7. On Right Angle Plugs, the standard orientation of rear cut out section relative to 12 O'Clock Key on Right Angle Plug Body is 90° clockwise (when looking into face of plug), except 37#16 which is 180°.
8. Many of the connectors shown are available in alternate materials (e.g. titanium, monel, Inconel). Please consult factory for details.
9. For plug O-ring size, refer to *Technical Data sheet* or consult page 107-13 for comparable size connector.
10. For internal O-ring size, refer to *Technical Data sheet* or consult page 107-14 for comparable size connector.



D. G. O'BRIEN, INC.

107 Series Connectors

Mil-Spec Cross Reference

to DGO 107 Series Part Numbers

MIL Specs

Mil-Spec No. M24217/1-	DGO Part No.	Mil-Spec No. M24217/2-	DGO Part No.	Mil-Spec No. M24217/3-	DGO Part No.
M24217/1-001	1070001-117	M24217/2-001	1070017-112	M24217/3-001	1070139-111
M24217/1-002	1070002-115	M24217/2-002	1070018-113	M24217/3-002	1070140-101
M24217/1-003	1070003-119	M24217/2-003	1070019-112	M24217/3-003	1070141-111
M24217/1-004	1070004-113	M24217/2-004	1070020-114	M24217/3-004	1070142-101
M24217/1-005	1070005-113	M24217/2-005	1070021-112	M24217/3-005	1070143-103
M24217/1-006	1070006-101	M24217/2-006	1070022-101	M24217/3-006	1070144-102
M24217/1-007	1070007-1XX	M24217/2-007	1070023-106	M24217/3-007	1070145-101
M24217/1-008	1070012-101	M24217/2-008	1070026-1XX	M24217/3-008	1070146-1XX
M24217/1-009	1070013-101	M24217/2-009	1070027-101	M24217/3-009	1070147-101
M24217/1-010	1070014-101	M24217/2-010	1070028-101	M24217/3-010	1070150-1XX
M24217/1-011	1070008-112	M24217/2-011	1070024-112	M24217/3-011	1070151-101
M24217/1-012	1070009-113	M24217/2-012	1070025-111	M24217/3-012	1070152-101
M24217/1-013	1070010-112	M24217/2-013	1070029-101	M24217/3-013	1070148-111
M24217/1-014	1070011-111	M24217/2-014	1070030-101	M24217/3-014	1070153-101

Mil-Spec No. M24217/4-	DGO Part No.	Mil-Spec No. M24217/5-	DGO Part No.	Mil-Spec No. M24217/6-	DGO Part No.
M24217/4-001	1070240-101	M24217/5-001	1070033-112	M24217/6-001	1070100-112
M24217/4-002	1070241-101	M24217/5-002	1070034-111	M24217/6-002	1070101-112
M24217/4-003	1070242-101	M24217/5-003	1070035-121	M24217/6-003	1070102-112
M24217/4-004	1070243-101	M24217/5-004	1070036-102	M24217/6-004	1070103-101
M24217/4-005	1070244-102	M24217/5-005	1070037-117	M24217/6-005	1070104-101
M24217/4-006	1070245-101	M24217/5-006	1070040-101	M24217/6-006	1070105-101
M24217/4-007	1070246-101	M24217/5-007	1070039-102	M24217/6-007	1070106-101
M24217/4-008	1070247-101	M24217/5-008	1070042-101	M24217/6-008	1070109-1XX
M24217/4-009	1070248-101	M24217/5-009	1070043-1XX	M24217/6-009	1070110-101
M24217/4-010	1070249-101	M24217/5-010	1070044-101	M24217/6-010	1070112-1XX
M24217/4-011	1070250-101	M24217/5-011	1070045-101	M24217/6-011	1070107-111
M24217/4-012	1070251-101	M24217/5-012	1070041-102	M24217/6-012	1070108-102
M24217/4-013	1070252-1XX	M24217/5-013	1070046-101	M24217/6-013	1070113-101
M24217/4-014	1070253-1XX	M24217/5-014	1070047-101	M24217/6-014	1070114-101

Note: for -1XX part numbers, consult factory.



D. G. O'BRIEN, INC.

107 Series Connectors

Mil-Spec Cross Reference

to DGO 107 Series Part Numbers, continued

MIL Specs

Mil-Spec No. M24217/7-	DGO Part No.	Mil-Spec No. M24217/8-	DGO Part No.
M24217/7-001	1071001-113	M24217/8-001	1071017-114
M24217/7-002	1071001-118	M24217/8-002	1071017-119
M24217/7-003	1071002-114	M24217/8-003	1071018-113
M24217/7-004	1071002-119	M24217/8-004	1071018-118
M24217/7-005	1071003-119	M24217/8-005	1071019-121
M24217/7-006	1071003-124	M24217/8-006	1071019-126
M24217/7-007	1071004-114	M24217/8-007	1071020-117
M24217/7-008	1071004-119	M24217/8-008	1071020-122
M24217/7-009	1071005-118	M24217/8-009	1071021-119
M24217/7-010	1071005-123	M24217/8-010	1071021-124
M24217/7-011	1071011-101	M24217/8-011	1071040-101
M24217/7-012	1071011-106	M24217/8-012	1071040-1XX
M24217/7-013	1071007-107	M24217/8-013	1071041-101
M24217/7-014	1071007-112	M24217/8-014	1071041-106
M24217/7-015	1071012-111	M24217/8-015	1071044-1XX
M24217/7-016	1071013-101	M24217/8-016	1071029-101
M24217/7-017	1071014-101	M24217/8-017	1071030-101
M24217/7-018	1071008-111	M24217/8-018	1071024-111
M24217/7-019	1071009-111	M24217/8-019	1071025-1XX
M24217/7-020	1071010-111	M24217/8-020	1071026-1XX
M24217/7-021	1071042-101	M24217/8-025	1071027-111

Mil-Spec No. M24217/9-	DGO Part No.	Mil-Spec No. M24217/10-	DGO Part No.
M24217/9-001	1073033-103	M24217/10-001	1074033-101
M24217/9-002	1073034-103	M24217/10-002	1074034-103
M24217/9-003	1073035-103	M24217/10-003	1074035-104
M24217/9-004	1073036-103	M24217/10-004	1074036-104
M24217/9-005	1073037-104	M24217/10-005	1074037-104
M24217/9-006	1073038-103	M24217/10-006	1074038-103
M24217/9-007	1073039-103	M24217/10-007	1074039-103
M24217/9-008	1073042-101	M24217/10-008	1074041-101
M24217/9-009	1073043-103	M24217/10-009	1074043-103
		M24217/10-010	1074042-101
		M24217/10-011	1074040-103

Note: for -1XX part numbers, consult factory.



D. G. O'BRIEN, INC.

110 Series Connectors

Receptacle



Features

- **50 Ohm Coax**
- **Glass-to-metal seal** pressure barrier in receptacle for maximum protection of equipment (10,000 psig open face pressure capability)
- **Dual O-ring Seals**—a primary face seal with secondary piston seal
- **Simple, durable construction**; excellent for cameras or instruments used in or around water or other harsh environments.
- **Available from Stock**

Materials (standard)

Body: 316/316L
Coupling Ring: 316
Insulation:
Plug: Nylon
Receptacle: Glass
O-rings: Buna-N

(Note: Alternate materials options are available, consult factory for details.)

Performance

Impedance: 50 ohms
Frequency Range: 0-1.5 GHz
Insulation Resistance: 5 Gohms at 500VDC
Max Operating Voltage: 1000 VRMS
Max Operating Current: 3 Amps
Temperature Range:
Operating: -40°F to 165°F
Storage: -65°F to 175°F

Plug Assembly



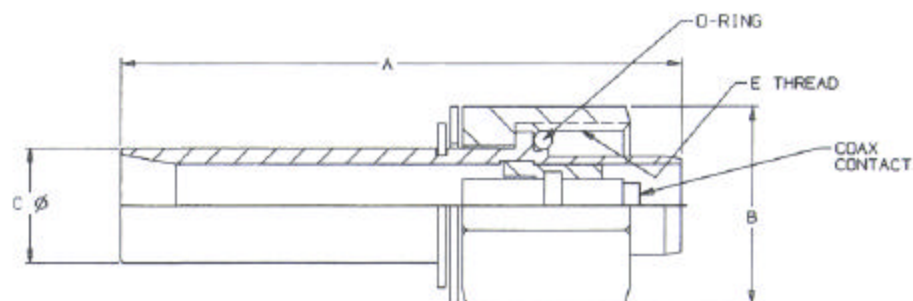
Recommended Cables

For general use (including shallow water, non-critical applications): **Mil-C-17/28 RG-58**
For deep submergence/critical applications: **TRC CN-4 (50 ohm)**
Note: Alternate cables can be accommodated; consult factory for details.



D. G. O'BRIEN, INC.
110 Series Connectors

Plug Kits (Straight)



Technical Specs

Plug Kit, Straight

Plug Kit No.	1101001-101
A	2.13
B (across hex nut flats)	0.75
C	.436 dia
E	5/8-18UNF
O-ring	MS28775-013
Coax Contact	1131016-101
Cable Accommodated	RG-58, CN-4

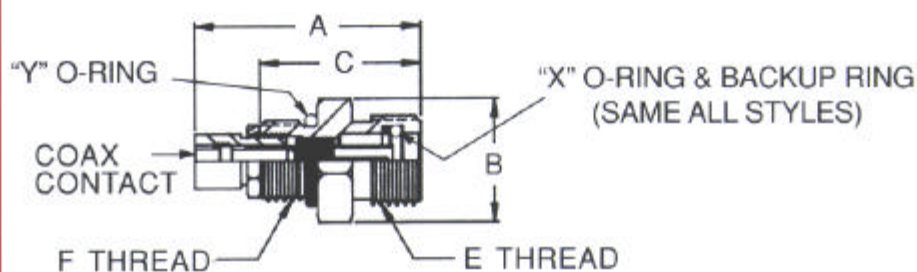
(Dimensions in inches.)



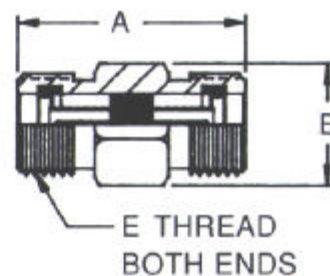
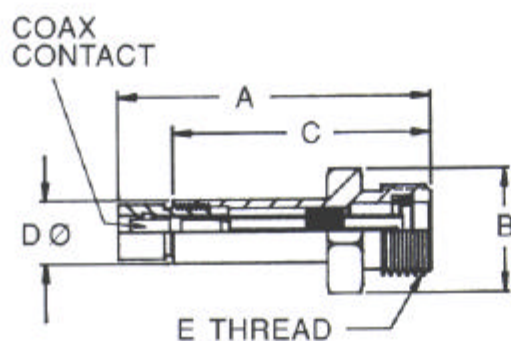
D. G. O'BRIEN, INC.

110 Series Connectors

Receptacle Kits (Standard)



Bulkhead



Splice

In-Line

Technical
Specs

	Bulkhead	In-Line	Splice
Receptacle Kit No.	1100001-101	1100002-101	1100004-101
A	1.5	2.07	1.38
B (across hex nut flats)	0.75	0.75	0.75
C	1.1	1.76	n/a
D	n/a	.436 dia	n/a
E	5/8-18UNF	5/8-18UNF	5/8-18UNF
F	9/16-18UNF	n/a	n/a
O-ring "X"	MS28775-012	MS28775-012	MS28775-012
Back-up Ring	1102109-501	1102109-501	1102109-501
O-ring "Y"	M83461/2-906	n/a	n/a
Coax Contact	1131016-101	1131016-101	n/a
Cable Accommodated	RG-58, CN-4	RG-58, CN-4	n/a

(Dimensions in inches. n/a=not applicable)

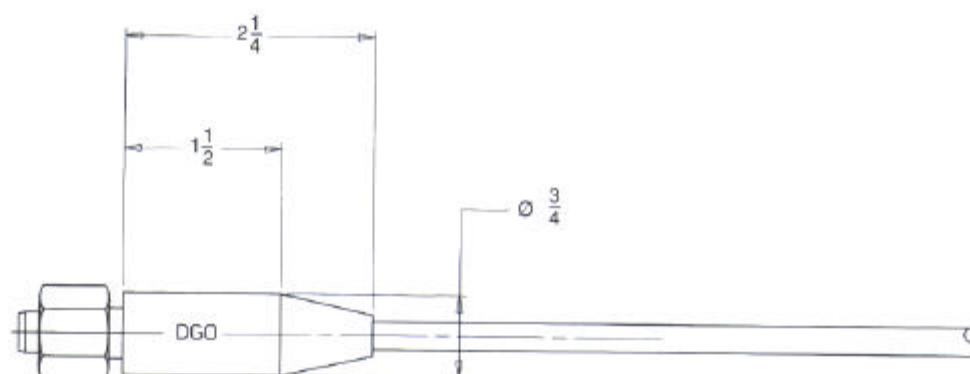


D. G. O'BRIEN, INC.

110 Series Connectors

Coax Plug Cable Assemblies

(Standard, straight, single-ended)



Plug Cable Assembly

Technical Specs

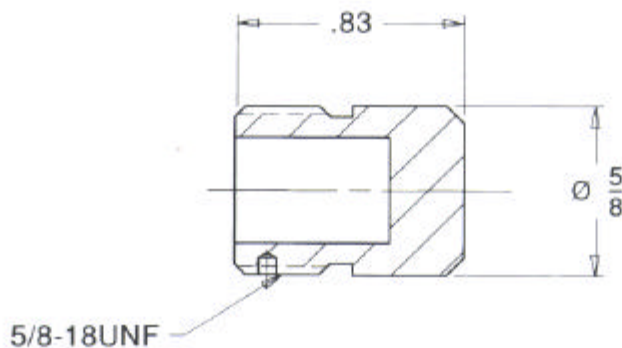
Plug Cable Assembly, Straight, Single-Ended		
	RG-58	CN-4
Cable Assembly No.	1150446-103	1150452-103
Plug Kit No.	1101001-101	1101001-101
Plug Kit Qty.	1	1
Cable Type	RG-58	CN-4
Cable Length*	15 feet	15 feet
Cable Diameter	0.2	0.26
Overmolding	Polyurethane	Neoprene
	(Black)	

(Dimensions in inches.)

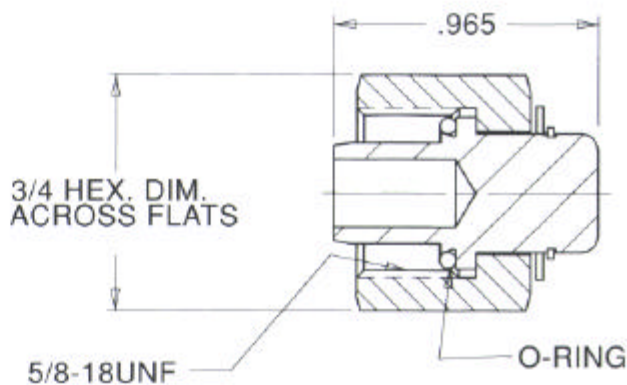
* others available



Pressure Proof Caps (Standard)



For Plugs



For Receptacles

Pressure Proof Caps, Standard		
For:	Plugs	Receptacles
Part No.	1103001-101	1104001-101
Material	316 SST	316 SST
O-ring	n/a	MS28775-013 (Buna-N)

(Dimensions in inches.)



D. G. O'BRIEN, INC.

110 Series Connectors

Important Ordering Notes

1. All items shown are available from stock for *immediate delivery*.
2. D. G. O'Brien, Inc. can **terminate** Plug Kits and Receptacle Kits to cable(s) of your choice at very competitive prices. Call the factory or fax for a quotation.
3. Plug Kits are available for the following additional **Mil-C-17** coax cables: **RG-55, 59, 62, 122, 124, 140, 141, 142, 174, 178, 179, 180, 187, 188, 195, 210, 316**. For these cables the Coax Contact may change. Consult factory for the correct Plug Kit No.
4. **Different cable lengths** are available; consult factory for specific Assy No., price, and delivery.
5. Standard Cable Assembly test pressure is **2,000 psig** (138 bar). If higher test pressures are required, please advise factory at time of order. The part numbers may change depending on requirements. Cable Assemblies can be provided to withstand up to **10,000 psig**.
6. For termination instructions, request **MP-RM-127**. Installation tools and instructions are available; request the **Technical Data sheet** for the specific Plug or Receptacle Kit No.
7. Alternate material options are available for plugs, receptacles and overmolding. Please consult factory to discuss your specific requirements.



D. G. O'BRIEN, INC.

128 Series II Connectors

Receptacle



Features

- **High density, low cost design:** 6-55 contacts in 1.875 Ø or less
- **Signal & Power:** #20, #16 awg
- **6-55 contacts**
- **Glass-to-metal seal** pressure barrier in receptacle for maximum protection of equipment
- **Dual keys; scoop-proof; 120° standard** (others available upon request)
- **Single O-ring seal** in plug-receptacle interface
- **Simple, rugged construction;** excellent for cameras or instruments used in or around ~~water~~ or other harsh environments
- **Available from stock for quick delivery**

Materials (standard)

Body: 316/316L
Coupling Rings: Al-Ni-Br
Insulators:
Plug: DAP
Receptacle: Glass
O-rings: Buna-N

(Note: Alternate materials options are available, consult factory for details.)

Performance

Pressure: up to 2,000 psig
Insulation Resistance: 5 Gohms at 500VDC
DWV: 625 VRMS @ 60Hz

Contact Ratings:	Size (awg)	Test	Operating
	#16	13	7.5 amps
	#20	5	3 amps

Temperature Range:
Operating -40°F to 165°F
Storage -65°F to 175°F

Plug Kit



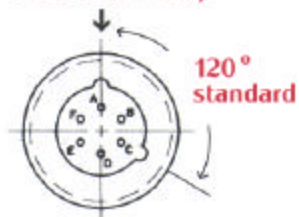


D. G. O'BRIEN, INC.

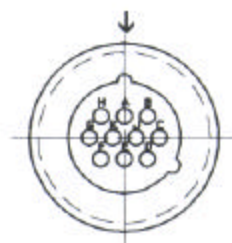
128 Series II Connectors

Pin Patterns (shown actual size)

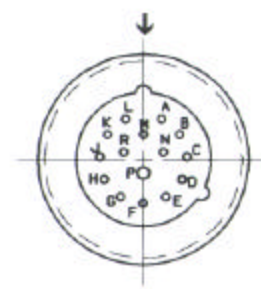
12 O'Clock Key



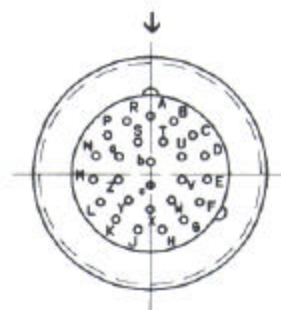
6#20



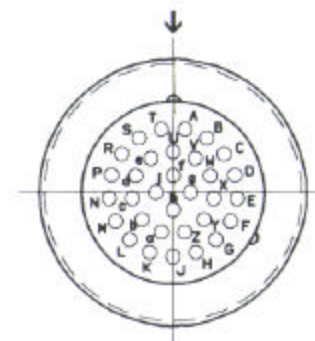
10#20



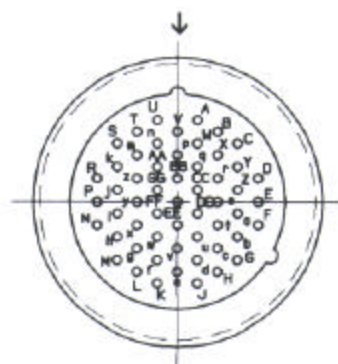
1#16/14#20



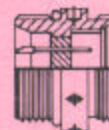
26#20



32#20



55#20



Note:

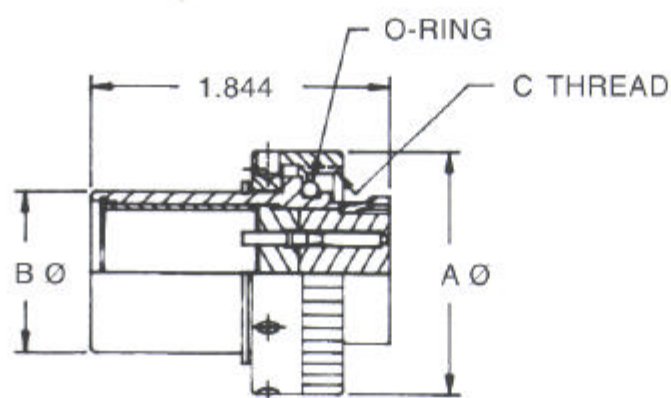
Views of pin patterns are looking into mating face of receptacles.



D. G. O'BRIEN, INC.

128 Series II Connectors

Plug Kits (Standard)



Plug Series II

Technical Specs

No. of Contacts	120° Key Part No.	A NOM	B NOM	C Thread	O-ring
6#20	1281241-101	1.062	0.625	7/8-14UN	MS28775-112
10#20	1281242-101	1.250	0.750	1 1/16-12UN	MS28775-115
14#20 & 1#16	1281243-101	1.312	0.875	1 3/16-12UN	MS28775-117
26#20	1281244-101	1.500	1.00	1 5/16-12UN	MS28775-119
32#20	1281245-101	1.750	1.125	1 1/2-12UN	M83461/2-914
55#20	1281247-101	1.875	1.437	1 5/8-12UN	MS28775-124

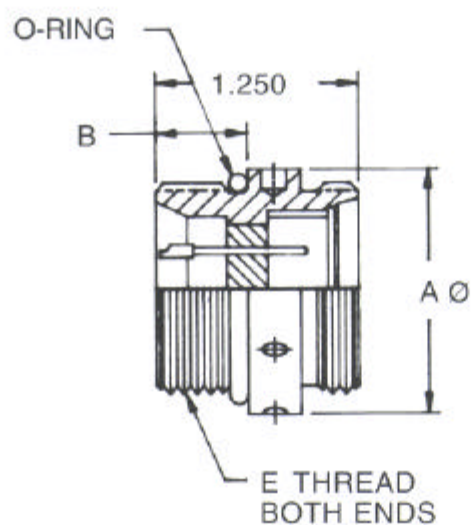
(Dimensions in inches.)



D. G. O'BRIEN, INC.

128 Series II Connectors

Receptacle Kits (Standard)



Bulkhead

(straight thread tube fitting per SAE J514)

Technical Specs

No. of Contacts	120° Key Part No.	A NOM	B NOM	E Thread	O-ring
6#20	1280241-101	1.062	0.565	7/8-14UN-2A	M83461/2-910
10#20	1280242-101	1.250	0.565	1 1/16-12UN-2A	M83461/2-912
14#20 & 1#16	1280243-101	1.375	0.565	1 3/16-12UN-2A	M83461/2-914
26#20	1280244-101	1.500	0.565	1 5/16-12UN-2A	M83461/2-916
32#20	1280245-101	1.710	0.515	1 1/2-12UN-2A	M83461/2-918
55#20	1280247-101	1.812	0.515	1 5/8-12UN-2A	M83461/2-920

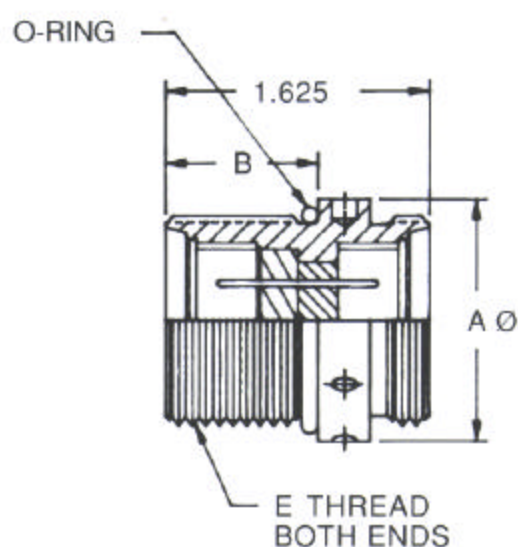
(Dimensions in inches.)



D. G. O'BRIEN, INC.

128 Series II Connectors

Receptacle Kits (Standard), continued



Bulkhead Splice

No. of Contacts	120° Key Part No.	A NOM	B NOM	E Thread	O-ring
6#20	1280231-101	1.062	0.940	7/8-14UN-2A	M83461/2-910
10#20	1280232-101	1.250	0.940	1 1/16-12UN-2A	M83461/2-912
14#20 & 1#16	1280233-101	1.375	0.940	1 3/16-12UN-2A	M83461/2-914
26#20	1280234-101	1.500	0.940	1 5/16-12UN-2A	M83461/2-916
32#20	1280235-101	1.710	0.890	1 1/2-12UN-2A	M83461/2-918
55#20	1280237-101	1.812	0.890	1 5/8-12UN-2A	M83461/2-920

(Dimensions in inches.)

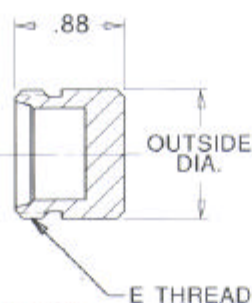
Technical
Specs



D. G. O'BRIEN, INC.

128 Series II Connectors

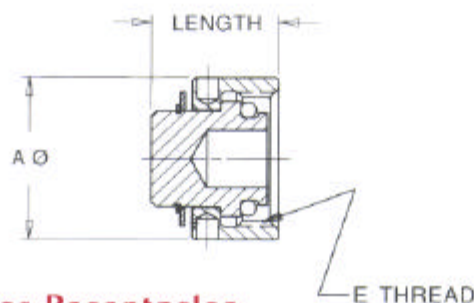
Pressure Proof Caps (Standard)



For Plugs

For Connector	Part Number	Outside Diameter	E Thread
6#20	1283001-502	.88	7/8-14UN
10#20	1283002-502	1.06	1 1/16-12UN
14#20 & 1#16	1283003-502	1.19	1 3/16-12UN
26#20	1283004-502	1.31	1 5/16-12UN
32#20	1283005-502	1.50	1 1/2-12UN
55#20	1283007-502	1.63	1 5/8-12UN

(Dimensions in inches.)



For Receptacles

For Connector	Part Number	Length	A NOM	O-ring
6#20	1284031-101	.82	1.062	MS28775-112
10#20	1284032-101	.80	1.250	MS28775-115
1#16 & 14#20	1284033-101	.80	1.312	MS28775-117
26#20	1284034-101	.82	1.500	MS28775-119
32#20	1284035-101	.85	1.750	M83461/2-914
55#20	1284037-101	.85	1.875	MS28775-124

(Dimensions in inches. E Thread options same as "For Plugs" above.)



D. G. O'BRIEN, INC.

128 Series II Connectors

Important Ordering Notes

1. All plug kits and receptacle styles shown in pin patterns up to and including 55#20 are available for *immediate delivery* in limited quantities.
2. D. G. O'Brien, Inc. can terminate Plug Kits and Receptacle Kits to cable(s) of your choice at competitive prices. Please call us or fax your requirements to us for a quotation.
3. 120° Keying is standard. Alternate keys are available. Consult factory for details.
4. For mounting details, replacement parts, installation instructions, tools, etc., please request the **Technical Data sheet** for the specific Plug Kit or Receptacle you are interested in.
5. Many of the connectors shown are available in alternate materials (e.g. titanium, monel, Inconel). Please consult factory for details.



D. G. O'BRIEN, INC.

Easy Quote Form

FAX (603) 474-3161

Use this form to obtain a quote on any D. G. O'Brien, Inc. product in this catalog. Simply fill in the part number, quantity, and required delivery information and fax this form to us. We will add price and delivery confirmation and fax this back to you within one (1) business day.

Name: _____ Position: _____

Company : _____ Application/Program: _____

Address: _____ Phone: _____

Fax: _____

E-Mail:

[illegible]

Delivery Requirement: _____

Comments: _____

For D. G. O'Brien, Inc. Use Only

Quote Number: _____ Date: _____

Submitted by: _____ Ext: _____ Phone: (603) 474-5571 Ext: _____

TERMS

• All prices FOB Seabrook, NH • Delivery in weeks ARO • Prices valid for 30 days • Terms: Net 30 days