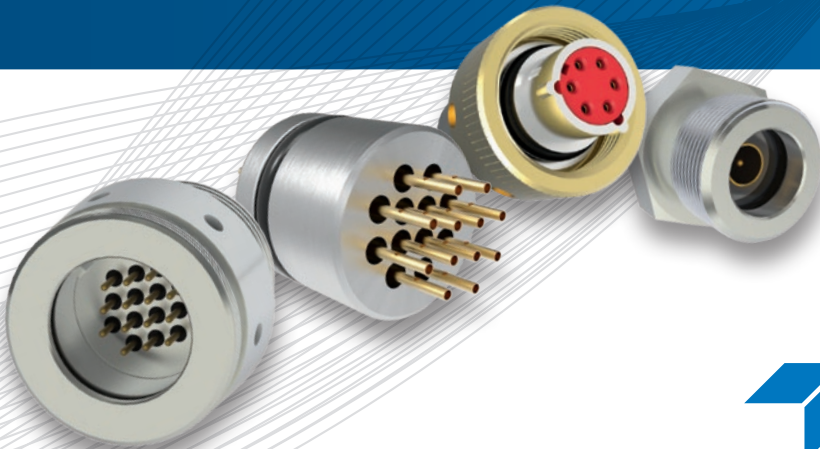


Teledyne DGO

Making Connections
in Harsh Environments



TELEDYNE DGO
Everywhereyoulook™

www.dgo.com



A History of Creating Innovative Technologies for Harsh Environments

Since its founding in 1962, DGO 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, Teledyne DGO continues to pave the way as an industry leader, applying new ideas and specialized materials to create ever more 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 contact us to discuss your project specifics.

This catalog will help you identify and select standard connection products from Teledyne DGO.

When you find the product you're looking for, please contact us via our website, www.dgo.com, or call directly at +1 (603) 474-5571.

We will respond to your inquiry quickly with a quote and product availability.

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

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.

TO ORDER:

TELEDYNE DGO

162 Corporate Drive, Suite 100
Portsmouth, NH 03801

Phone: +1 (603) 474-5571

Fax: +1 (603) 474-3161

Email: dgo@teledyne.com

Website: www.dgo.com



107 SERIES | MIL-C-24217

PAGES 4-19

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 (4.0mm) 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 psi (450 bar)
- Standard body material: 316/316L stainless steel (others available)

110 SERIES | COAX

PAGES 20-27

Our simplest connector series, designed to accommodate 50 Ohm cables. The receptacle contains an integral glass-to-metal seal 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 psi (690 bar)
- Standard body material: 316/316L stainless steel (others available)

111 SERIES | PENETRATORS

PAGES 28-31

Primarily used in the Oil and Gas market, the 111 Series header (also referred to as a penetrator or feed through) is designed for extreme conditions.

- 1 to 200 contacts
- Glass-to-metal seal pressure barrier
- O-ring and/or metal c-seals available
- Pressure rating 0-30,000 PSI
- Body material is typically 316/316L stainless steel and Inconel

128 SERIES | HIGH DENSITY

PAGES 32-39

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 psi (138 bar)
- Standard body material: 316/316L stainless steel (others available)

153 SERIES | FIBER OPTICS

PAGES 40-43

This series includes fiber optic connectors and cable assembly products that are designed for use in hostile environments where reliability is critical.

- Pressure rating: 10,000 psi open face
- Redundant seals for maximum operational reliability
- Single or multi-mode fiber available
- Hybrid electrical/optical combinations
- Fiber optic pressure-balanced oil-filled (PBOF) capability

API-16D | CONNECTORS & PBOFS

PAGES 44-47

Connectors featured in this series are manufactured with pressure test ports to verify the seal integrity prior to deployment of subsea drilling or production equipment, as required by API-16D.

- Glass-to-metal seals in all electrical receptacles and 117 plugs
- Pressure rating: 10,000 psi, mated and open face
- Redundant seals in all interfaces
- Test ports for testing between dual interface seals
- Electrical or optical connectors available



FEATURES

- Mil-C-24217 design
- Instrumentation & Power: Coax, #16, #12, #8, #4, #0 AWG
- 3-48 contacts
- Glass-to-metal seal pressure barrier in receptacle for maximum protection of equipment (10,000 psi open face pressure capability)
- Dual O-ring seals
- Dual keys (120 degree standard, other MS options available)
- Simple rugged construction; excellent for instruments or equipment used in water or other harsh environments

MATERIALS (STANDARD)

Body:	316/316L Stainless Steel
Coupling Rings:	Al-Ni-Br
Insulators, Plugs:	Diallyl or Delrin
Insulators, Receptacles:	Glass
O-rings:	Buna-N
Note:	Alternate material options are available, e.g., Titanium, Monel and Inconel; consult factory for details

PERFORMANCE

Pressure:	14 pin and above operate to 6,500 psi mated; receptacles up to 10,000 psi open face		
Insulation Resistance:	5 Gohms at 500 VDC		
DWV:	1900 VRMS @ 60 Hz		
Rated Voltage:	625 VRMS		
Contact Ratings:	Size (AWG)	Test	Operation
	#16	13 amps	4-8 amps*
	#12	23 amps	8-15 amps*
	#8	46 amps	40 amps
	#4	80 amps	70 amps
	#0	150 amps	100 amps
Temp Range, Operating:	-40°F to 165°F		
Temp Range, Storage:	-65°F to 175°F		
Physical Shock:	Mil-Std-202 Method 207		
Vibration:	10-2,000 Hz at 10G		

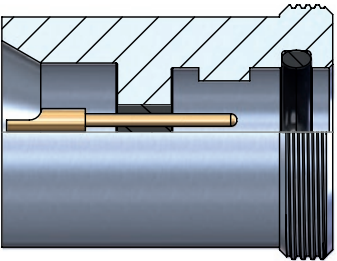
*Depends on number of contacts



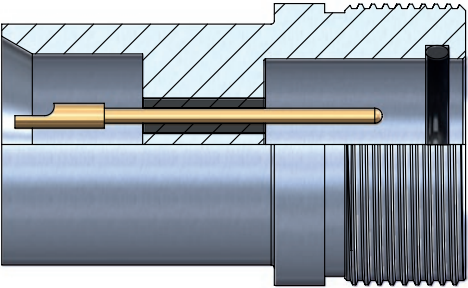
RECEPTACLE



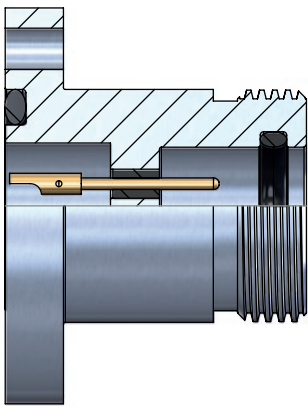
PLUG KIT



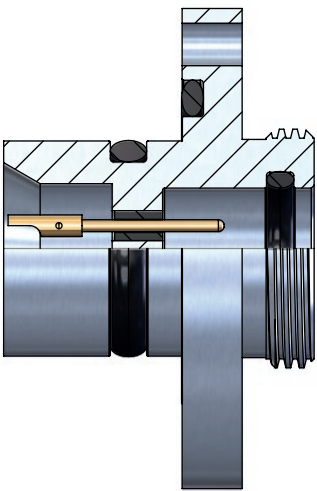
WELD



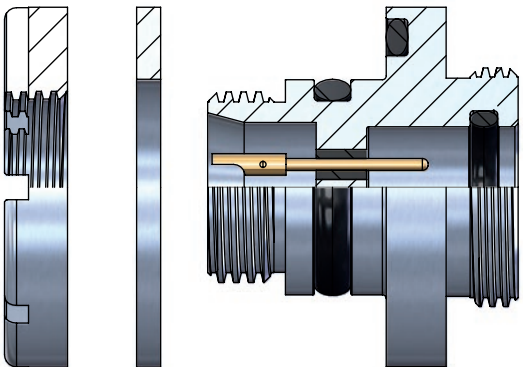
FLANGE WELD



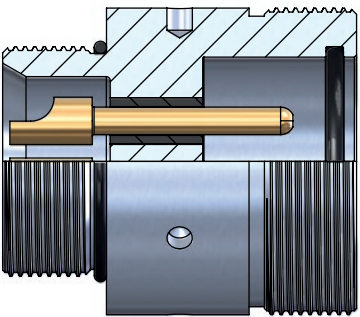
END FLANGE BOLTED



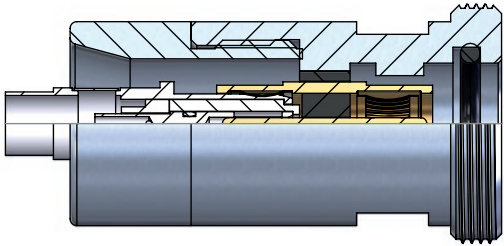
MID FLANGE BOLTED



LOCKNUT FLANGE



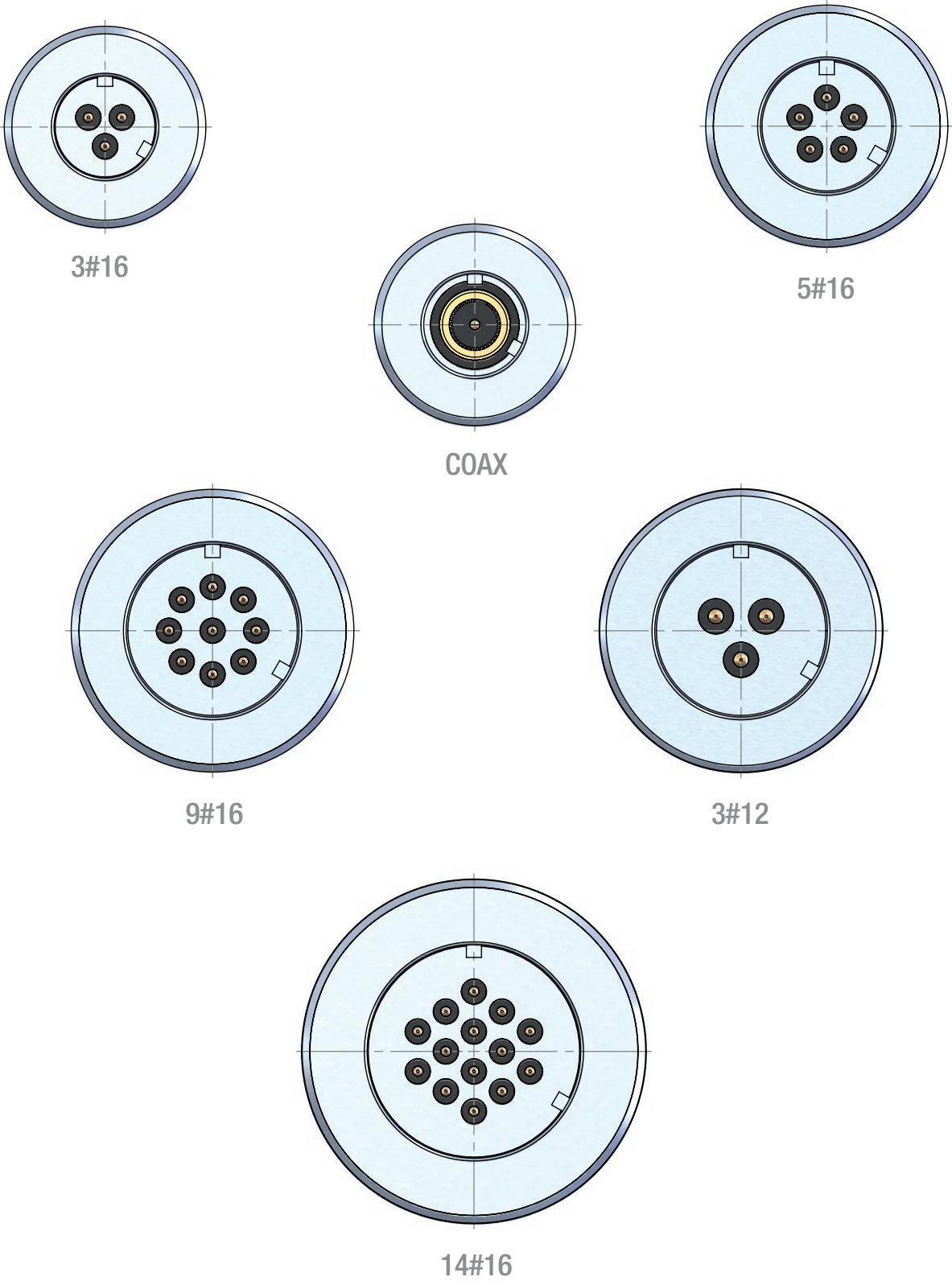
BULKHEAD



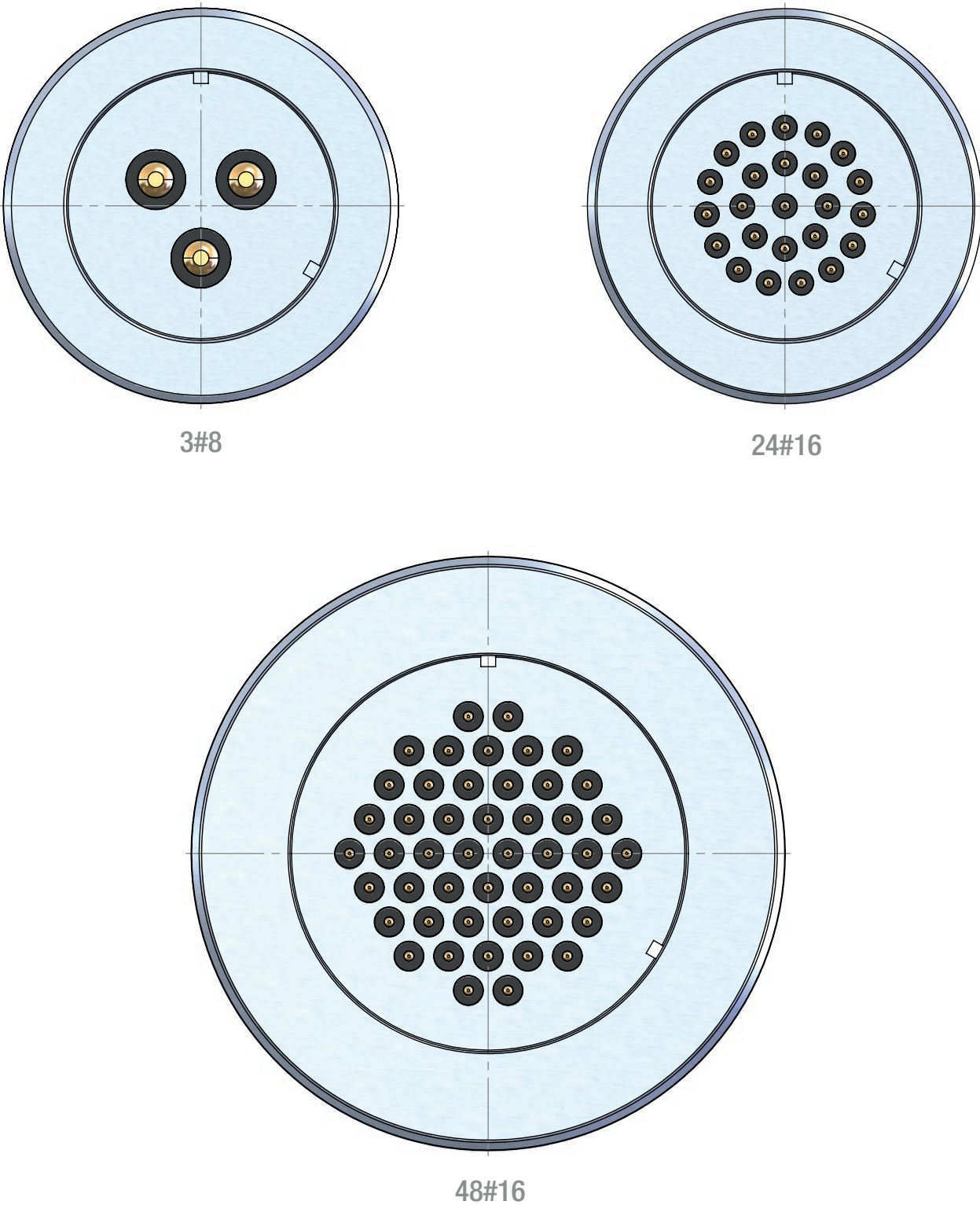
INLINE



107 SERIES | PIN PATTERNS
FRONT FACE OF RECEPTACLES

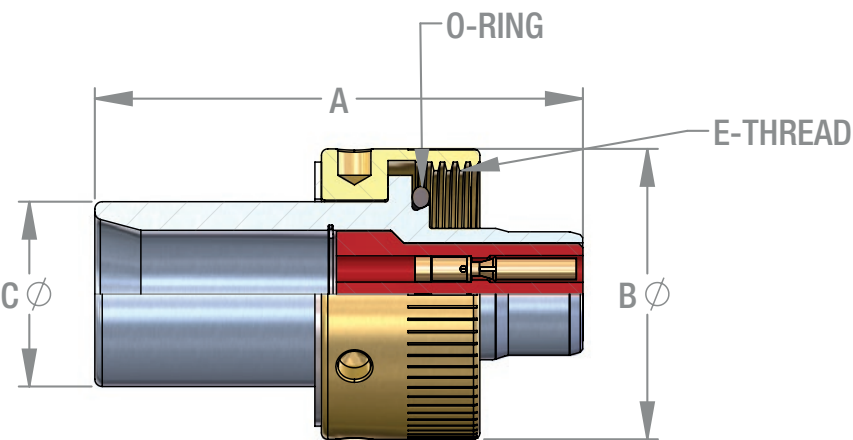


107 SERIES | PIN PATTERNS
FRONT FACE OF RECEPTACLES





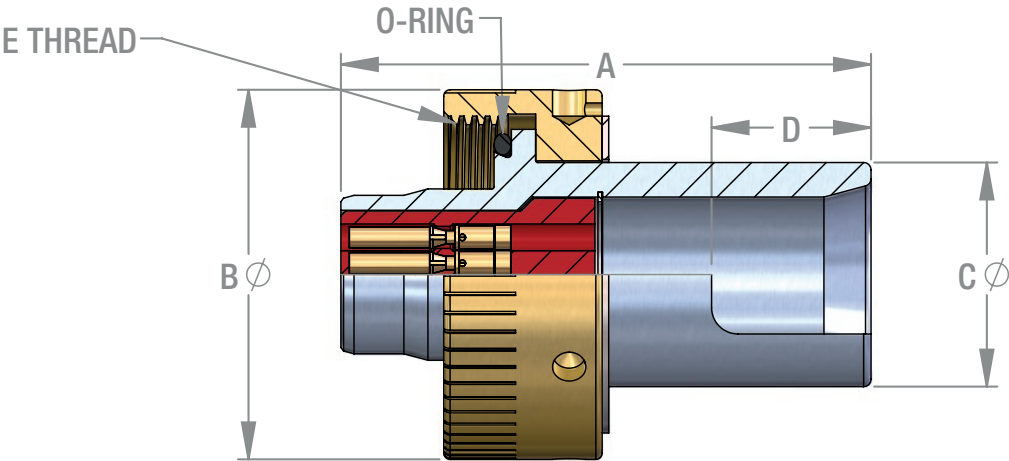
PLUG KITS | STRAIGHT PLUGS



No. of Contacts	120° Key Part No.	DGO Part No.	Wire Accom.	A NOM	B NOM	C NOM	E Thread
3#16	M24217/7-001	1071001-113	16-20	2.310	1.375	0.874	1 1/4-12UN
3#16	M24217/7-002	1071001-118	20-24	2.310	1.375	0.874	1 1/4-12UN
5#16	M24217/7-003	1071002-114	16-20	2.510	1.750	1.061	1 1/2-12UN
5#16	M24217/7-004	1071002-119	20-24	2.510	1.750	1.061	1 1/2-12UN
9#16	M24217/7-005	1071003-119	16-20	2.635	2.000	1.186	1 3/4-12UN
9#16	M24217/7-006	1071003-124	20-24	2.635	2.000	1.186	1 3/4-12UN
14#16	M24217/7-007	1071004-114	16-20	3.010	2.375	1.501	2 1/8-12UN
14#16	M24217/7-008	1071004-119	20-24	3.010	2.375	1.501	2 1/8-12UN
24#16	M24217/7-009	1071005-118	16-20	3.135	2.750	1.874	2 1/2-12UN
24#16	M24217/7-010	1071005-123	20-24	3.135	2.750	1.874	2 1/2-12UN
37#16	M24217/7-011	1071011-101	16-20	3.385	3.500	2.314	3-12UN
37#16	M24217/7-012	1071011-106	20-24	3.635	3.500	2.314	3-12UN
48#16	M24217/7-013	1071007-107	16-20	3.635	4.125	2.749	3 3/4-12UN
48#16	M24217/7-014	1071007-112	20-24	3.087	4.125	2.749	3 3/4-12UN
3#12	M24217/7-015	1071012-111	12	3.598	2.000	1.186	1 3/4-12UN
5#12	M24217/7-016	1071013-101	12	3.598	2.375	1.501	2 1/8-12UN
9#12	M24217/7-017	1071014-101	12	3.598	2.750	1.874	2 1/2-12UN
3#8	M24217/7-018	1071008-111	8	3.460	2.375	1.501	2 1/8-12UN
3#4	M24217/7-019	1071009-111	4	3.598	2.750	1.874	2 1/2-12UN
3#12 & 3#8	M24217/7-020	1071010-111	12 & 8	3.598	2.750	1.874	2 1/2-12UN
2#0 & 4#12	M24217/7-021	1071042-101	0 & 12	3.848	3.375	2.314	3-12UN
50 Ohm	1071016-101	1071016-101	Coax	2.310	1.375	0.874	1 1/4-12UN

(Dimensions in inches)

PLUG KITS | RIGHT ANGLE PLUGS

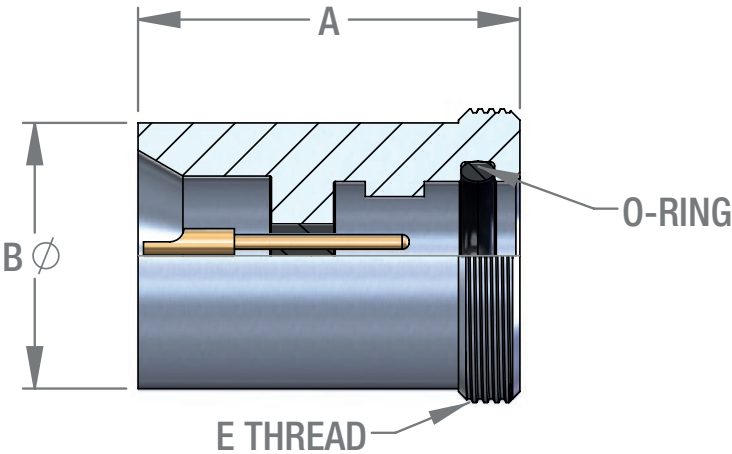


No. of Contacts	120° Key Part No.	DGO Part No.	Wire Accom.	A NOM	B NOM	C NOM	D NOM	E Thread
3#16	M24217/8-001	1071017-114	16-20	2.310	0.874	1.375	n/a	1 1/4-12UN
3#16	M24217/8-002	1071017-119	20-24	2.310	0.874	1.375	n/a	1 1/4-12UN
5#16	M24217/8-003	1071018-113	16-20	2.510	1.061	1.750	n/a	1 1/2-12UN
5#16	M24217/8-004	1071018-118	20-24	2.510	1.061	1.750	n/a	1 1/2-12UN
9#16	M24217/8-005	1071019-121	16-20	2.635	1.186	2.000	n/a	1 3/4-12UN
9#16	M24217/8-006	1071019-126	20-24	2.635	1.186	2.000	n/a	1 3/4-12UN
14#16	M24217/8-007	1071020-117	16-20	3.010	1.501	2.375	.665	2 1/8-12UN
14#16	M24217/8-008	1071020-122	20-24	3.010	1.501	2.375	.665	2 1/8-12UN
24#16	M24217/8-009	1071021-119	16-20	3.135	1.874	2.750	.790	2 1/2-12UN
24#16	M24217/8-010	1071021-124	20-24	3.135	1.874	2.750	.790	2 1/2-12UN
37#16	M24217/8-011	1071040-101	16-20	3.385	2.314	3.500	.915	3-12UN
37#16	M24217/8-012	1071040-1XX	20-24	3.385	2.314	3.500	.915	3-12UN
48#16	M24217/8-013	1071041-101	16-20	3.635	2.749	4.125	.730	3 3/4-12UN
48#16	M24217/8-014	1071041-106	20-24	3.635	2.749	4.125	.730	3 3/4-12UN
3#12	M24217/8-015	1071044-1XX	12	3.087	1.186	2.000	n/a	1 3/4-12UN
5#12	M24217/8-016	1071029-101	12	3.598	1.501	2.375	.790	2 1/8-12UN
9#12	M24217/8-017	1071030-101	12	3.598	1.874	2.750	.790	2 1/2-12UN
3#8	M24217/8-018	1071024-111	8	3.460	1.501	2.375	.650	2 1/8-12UN
3#4	M24217/8-019	1071025-1XX	4	3.598	1.874	2.750	.790	2 1/2-12UN
3#12 & 3#8	M24217/8-020	1071026-106	12 & 8	3.598	1.874	2.750	.790	2 1/2-12UN
2#0 & 4#12	M24217/8-025	1071027-111	0 & 12	5.010	2.314	3.375	2.125	3-12UN
50 Ohm	1071032-101	1071032-101	Coax	2.310	0.874	1.375	n/a	1 1/4-12UN

(Dimensions in inches)



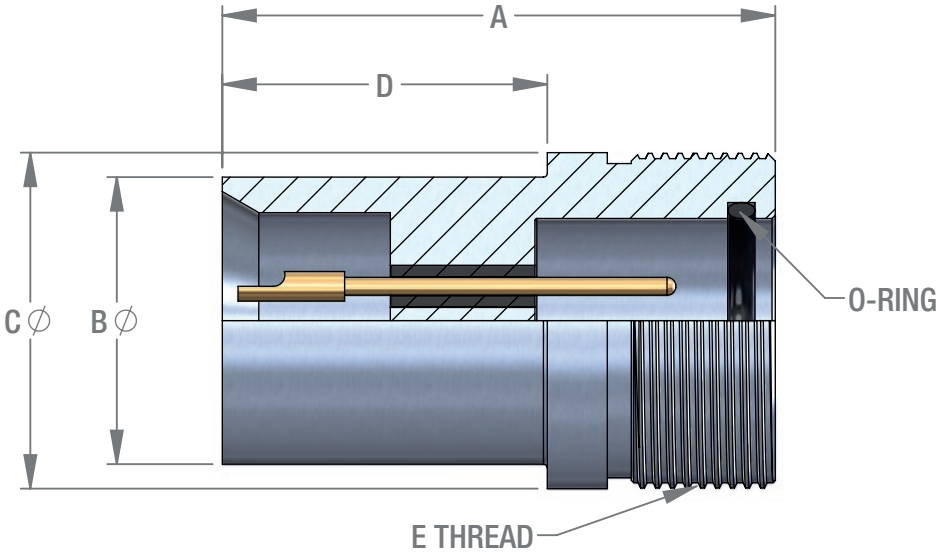
RECEPTACLES | WELD STYLE



No. of Contacts	120° Key Part No.	DGO Part No.	A NOM	B NOM	E Thread
3#16	M24217/1-001	1070001-117	1.617	1.125	1 1/4-12UN
5#16	M24217/1-002	1070002-115	1.742	1.370	1 1/2-12UN
9#16	M24217/1-003	1070003-119	1.867	1.585	1 3/4-12UN
14#16	M24217/1-004	1070004-113	1.992	1.962	2 1/8-12UN
24#16	M24217/1-005	1070005-113	2.117	2.338	2 1/2-12UN
37#16	M24217/1-006	1070006-101	2.117	2.870	3-12UN
48#16	M24217/1-007	1070007-1XX	2.410	3.745	3 3/4-12UN
3#12	M24217/1-008	1070012-101	2.880	1.585	1 3/4-12UN
5#12	M24217/1-009	1070013-101	2.880	1.995	2 1/8-12UN
9#12	M24217/1-010	1070014-101	2.880	2.307	2 1/2-12UN
3#8	M24217/1-011	1070008-112	2.880	1.995	2 1/8-12UN
3#4	M24217/1-012	1070009-113	2.880	2.307	2 1/2-12UN
3#12 & 3#8	M24217/1-013	1070010-112	2.880	2.307	2 1/2-12UN
2#0 & 4#12	M24217/1-014	1070011-111	2.880	2.870	3-12UN
50 Ohm	1070016-101	1070016-101	1.617	1.125	1 1/4-12UN

(Dimensions in inches)

RECEPTACLES | FLANGE WELD

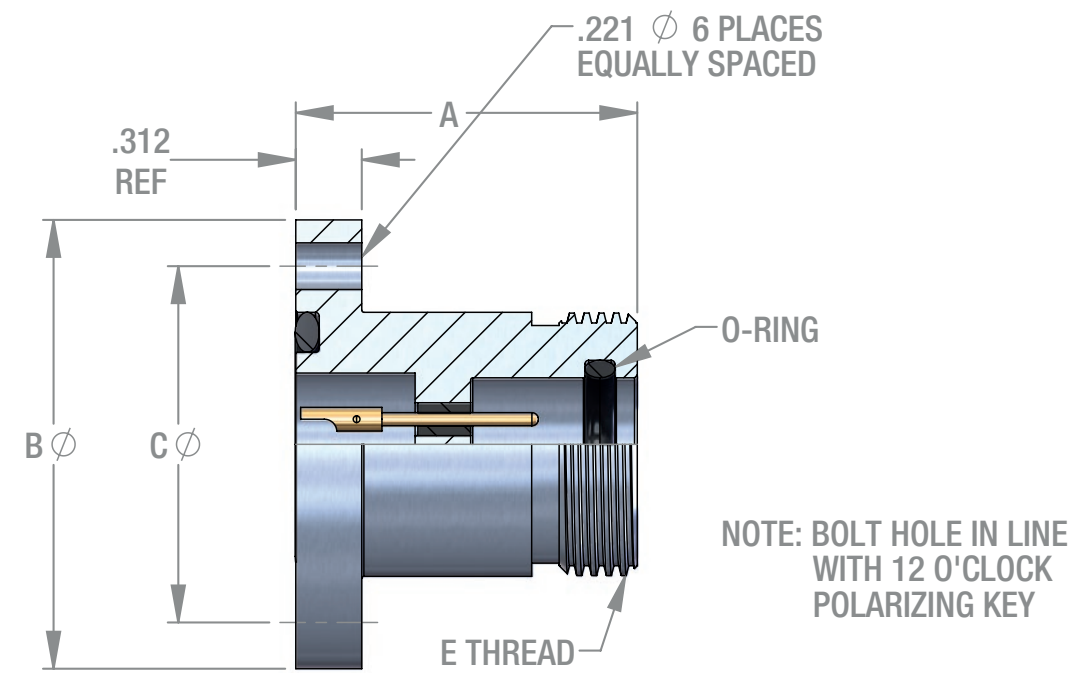


No. of Contacts	120° Key Part No.	DGO Part No.	A NOM	B NOM	C NOM	D NOM	E Thread
3#16	M24217/2-001	1070017-112	1.617	1.125	1.500	.920	1 1/4-12UN
5#16	M24217/2-002	1070018-113	1.742	1.370	1.875	1.045	1 1/2-12UN
9#16	M24217/2-003	1070019-112	1.867	1.585	2.062	1.170	1 3/4-12UN
14#16	M24217/2-004	1070020-114	1.992	1.962	2.500	1.295	2 1/8-12UN
24#16	M24217/2-005	1070021-112	2.117	2.338	2.875	1.420	2 1/2-12UN
37#16	M24217/2-006	1070022-101	2.117	2.870	3.375	1.420	3-12UN
48#16	M24217/2-007	1070023-106	2.410	3.745	4.248	1.550	3 3/4-12UN
3#12	M24217/2-008	1070026-1XX	2.880	1.585	2.062	1.510	1 3/4-12UN
5#12	M24217/2-009	1070027-101	2.880	1.995	2.375	1.690	2 1/8-12UN
9#12	M24217/2-010	1070028-101	2.880	2.307	2.750	1.690	2 1/2-12UN
3#8	M24217/2-011	1070024-112	2.880	1.995	2.375	1.690	2 1/8-12UN
3#4	M24217/2-012	1070025-111	2.880	2.307	2.750	1.690	2 1/2-12UN
3#12 & 3#8	M24217/2-013	1070029-101	2.880	2.307	2.750	1.690	2 1/2-12UN
2#0 & 4#12	M24217/2-014	1070030-101	2.880	2.870	3.375	1.630	3-12UN
50 Ohm	1070032-101	1070032-101	1.617	1.125	1.500	.920	1 1/4-12UN

(Dimensions in inches)



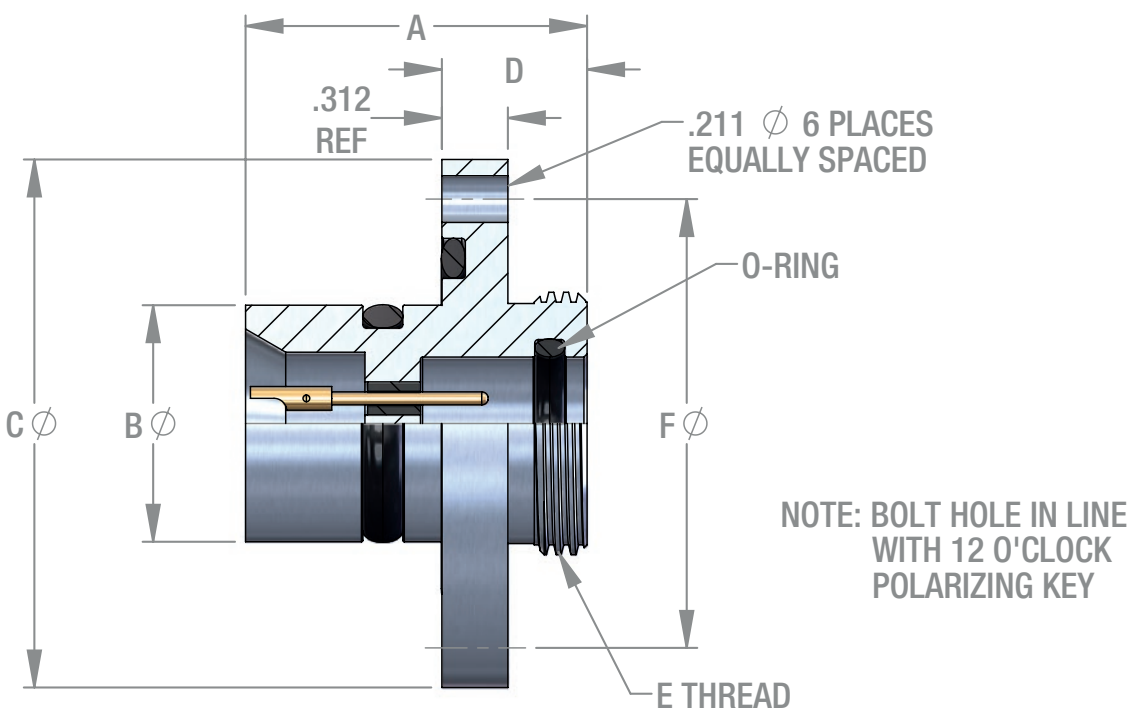
RECEPTACLES | END FLANGE BOLTED



No. of Contacts	120° Key Part No.	DGO Part No.	A NOM	B NOM	C NOM	E Thread
3#16	M24217/5-001	1070033-112	1.617	2.125	1.688	1 1/4-12UN
5#16	M24217/5-002	1070034-111	1.742	2.375	1.938	1 1/2-12UN
9#16	M24217/5-003	1070035-121	1.867	2.625	2.188	1 3/4-12UN
14#16	M24217/5-004	1070036-102	1.992	3.000	2.563	2 1/8-12UN
24#16	M24217/5-005	1070037-117	2.117	3.375	2.938	2 1/2-12UN
37#16	M24217/5-006	1070040-101	2.117	3.875	3.438	3-12UN
48#16	M24217/5-007	1070039-102	2.410	4.625	4.188	3 3/4-12UN
3#12	M24217/5-008	1070042-101	2.880	2.625	2.188	1 3/4-12UN
5#12	M24217/5-009	1070043-1XX	2.880	3.000	2.563	2 1/8-12UN
9#12	M24217/5-010	1070044-101	2.880	3.375	2.938	2 1/2-12UN
3#8	M24217/5-011	1070045-101	2.880	3.000	2.563	2 1/8-12UN
3#4	M24217/5-012	1070041-102	2.880	3.375	2.938	2 1/2-12UN
3#12 & 3#8	M24217/5-013	1070046-101	2.880	3.375	2.938	2 1/2-12UN
2#0 & 4#12	M24217/5-014	1070047-101	2.880	3.875	3.438	3-12UN
50 Ohm	1070038-101	1070038-101	1.617	2.125	1.688	1 1/4-12UN

(Dimensions in inches)

RECEPTACLES | MID FLANGE BOLTED

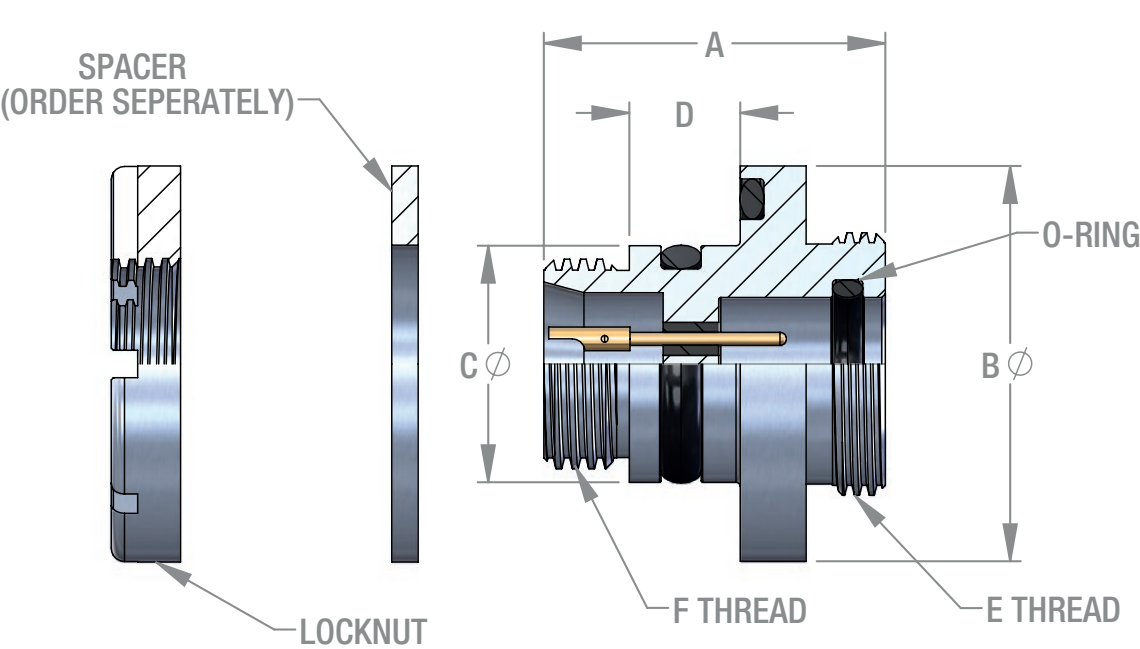


No. of Contacts	120 ° Key Part No.	DGO Part No.	A NOM	B NOM	C NOM	D NOM	E Thread	F NOM
3#16	M24217/4-001	1070240-101	1.617	1.120	2.500	.687	1 1/4-12UN	2.125
5#16	M24217/4-002	1070241-101	1.742	1.370	2.750	.687	1 1/2-12UN	2.375
9#16	M24217/4-003	1070242-101	1.867	1.495	3.000	.687	1 3/4-12UN	2.625
14#16	M24217/4-004	1070243-101	1.992	1.870	3.375	.687	2 1/8-12UN	3.000
24#16	M24217/4-005	1070244-101	2.117	2.245	3.750	.687	2 1/2-12UN	3.375
37#16	M24217/4-006	1070245-101	2.117	2.745	4.437	.687	3-12UN	4.062
48#16	M24217/4-007	1070246-101	2.410	3.493	5.000	.869	3 3/4-12UN	4.625
3#12	M24217/4-008	1070247-101	2.880	1.495	3.000	1.187	1 3/4-12UN	2.625
5#12	M24217/4-009	1070248-101	2.880	1.870	3.375	1.187	2 1/8-12UN	3.000
9#12	M24217/4-010	1070249-101	2.880	2.245	3.750	1.187	2 1/2-12UN	3.375
3#8	M24217/4-011	1070250-101	2.880	1.870	3.375	1.187	2 1/8-12UN	3.000
3#4	M24217/4-012	1070251-101	2.880	2.245	3.750	1.187	2 1/2-12UN	3.375
3#12 & 3#8	M24217/4-013	1070252-101	2.880	2.245	3.750	1.187	2 1/2-12UN	3.375
2#0 & 4#12	M24217/4-014	1070253-101	2.880	2.745	4.437	1.187	3-12UN	4.062
50 Ohm	1070254-101	1070254-101	1.617	1.120	2.500	.687	1 1/4-12UN	2.125

(Dimensions in inches)



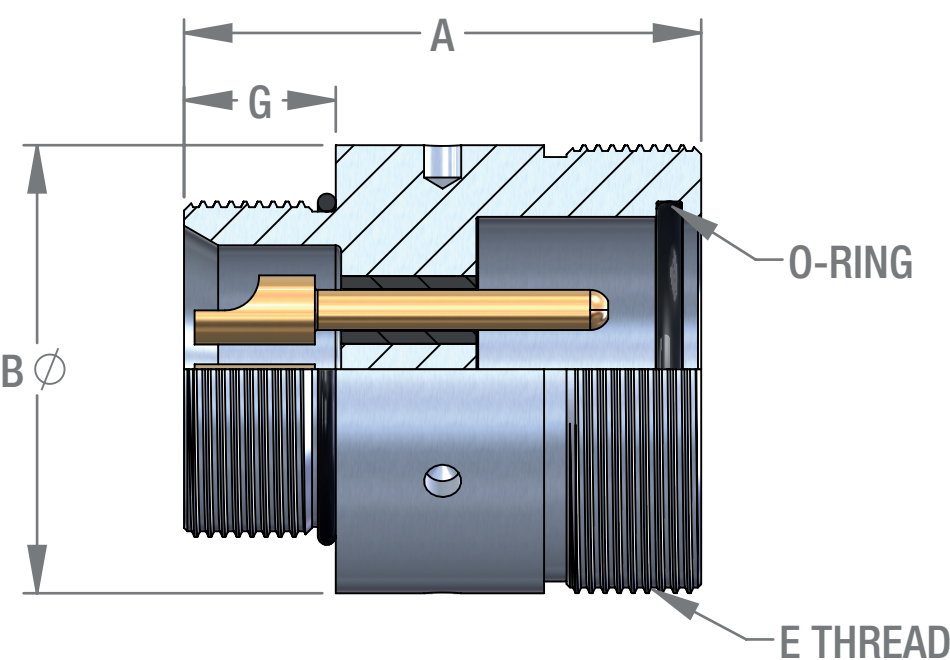
RECEPTACLES | LOCKNUT FLANGE



No. of Contacts	120° Key Part No.	DGO Part No.	A NOM	B NOM	C NOM	D NOM	E Thread
3#16	M24217/6-001	1070100-112	1.617	1.875	1.120	0.53	1 1/4-12UN
5#16	M24217/6-002	1070101-112	1.742	2.125	1.370	0.65	1 1/2-12UN
9#16	M24217/6-003	1070102-112	1.867	2.250	1.495	0.78	1 3/4-12UN
14#16	M24217/6-004	1070103-101	1.992	2.625	1.870	0.90	2 1/8-12UN
24#16	M24217/6-005	1070104-101	2.117	3.125	2.245	1.03	2 1/2-12UN
37#16	M24217/6-006	1070105-101	2.117	3.625	2.745	1.03	3-12UN
48#16	M24217/6-007	1070106-101	2.410	4.375	3.493	1.14	3 3/4-12UN
3#12	M24217/6-008	1070109-1XX	2.880	2.250	1.495	1.12	1 3/4-12UN
5#12	M24217/6-009	1070110-101	2.880	2.625	1.870	1.12	2 1/8-12UN
9#12	M24217/6-010	1070112-101	2.880	3.125	2.245	1.12	2 1/2-12UN
3#8	M24217/6-011	1070107-111	2.880	2.625	1.870	1.12	2 1/8-12UN
3#4	M24217/6-012	1070108-102	2.880	3.125	2.245	1.12	2 1/2-12UN
3#12 & 3#8	M24217/6-013	1070113-101	2.880	3.125	2.245	1.12	2 1/2-12UN
2#0 & 4#12	M24217/6-014	1070114-101	2.880	3.625	2.745	1.12	3-12UN
50 Ohm	1070111-101	1070111-101	1.614	1.875	1.120	0.53	1 1/4-12UN

(Dimensions in inches)

RECEPTACLES | BULKHEAD

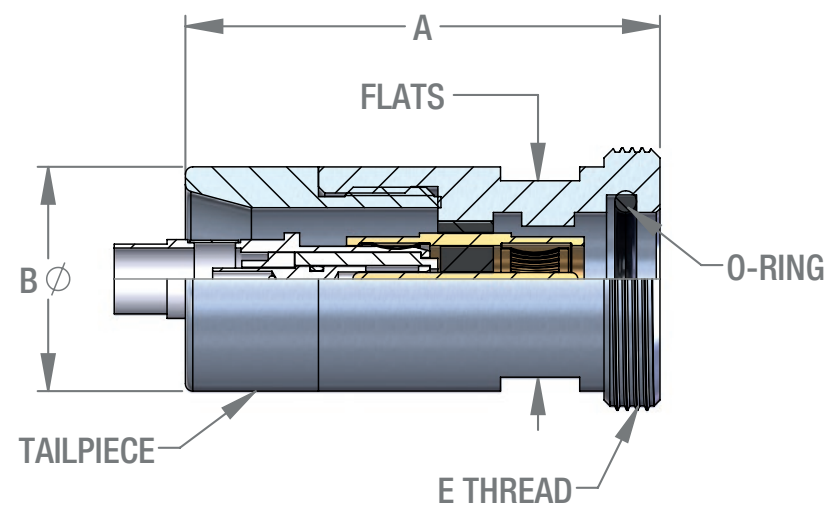


No. of Contacts	DGO Part No.	A NOM	B NOM	G NOM	E Thread
3#16	1070119-101	1.617	1.245	0.617	1 1/4-12UN
5#16	1070120-101	1.742	1.500	0.742	1 1/2-12UN
9#16	1070121-101	1.867	1.750	0.867	1 3/4-12UN
14#16	1070122-101	1.992	2.125	0.842	2 1/8-12UN
24#16	1070123-101	2.117	2.495	0.842	2 1/2-12UN
37#16	1070124-101	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	1070132-101	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	1070126-1XX	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	1070129-1XX	2.880	2.495	0.845	2 1/2-12UN
2#0 & 4#12	1070130-1XX	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)



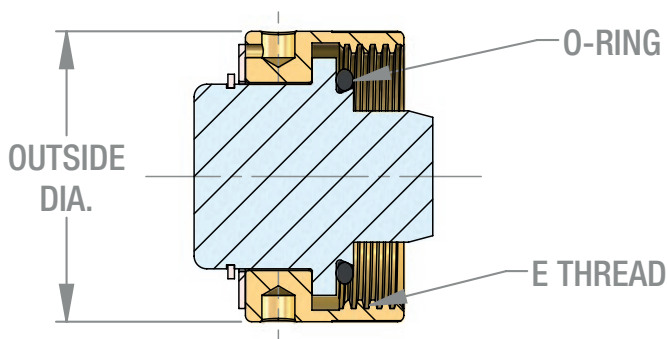
RECEPTACLES | INLINE



No. of Contacts	120° Key Part No.	DGO Part No.	A NOM	B NOM	E Thread
3#16	M24217/3-001	1070139-111	2.247	1.061	1 1/4-12UN
5#16	M24217/3-002	1070140-101	2.612	1.186	1 1/2-12UN
9#16	M24217/3-003	1070141-111	2.862	1.501	1 3/4-12UN
14#16	M24217/3-004	1070142-101	3.049	1.874	2 1/8-12UN
24#16	M24217/3-005	1070143-103	3.422	2.314	2 1/2-12UN
37#16	M24217/3-006	1070144-102	4.354	2.811	3-12UN
48#16	M24217/3-007	1070145-101	4.330	3.624	3 3/4-12UN
3#12	M24217/3-008	1070146-1XX	3.565	1.501	1 3/4-12UN
5#12	M24217/3-009	1070147-101	3.565	1.874	2 1/8-12UN
9#12	M24217/3-010	1070150-1XX	3.875	2.249	2 1/2-12UN
3#8	M24217/3-011	1070151-101	3.565	1.874	2 1/8-12UN
3#4	M24217/3-012	1070152-101	3.875	2.249	2 1/2-12UN
3#12 & 3#8	M24217/3-013	1070148-111	3.875	2.249	2 1/2-12UN
2#0 & 4#12	M24217/3-014	1070153-101	4.105	2.749	3-12UN
50 Ohm	1070149-101	1070149-101	2.247	1.061	1 1/4-12UN

(Dimensions in inches)

PRESSURE PROOF CAPS | STANDARD | FOR RECEPTACLES

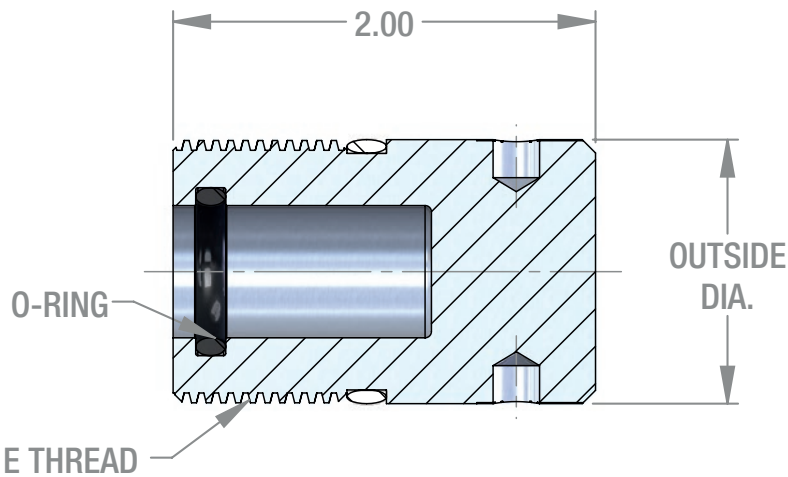


For Connector	Mil Spec Part No.	DGO Part No.	Outside Diameter	E Thread	O-ring Part No.
3#16	M24217/10-001	1074033-101	1.37	1 1/4-12UN-2B	MS28775-117
5#16	M24217/10-002	1074034-103	1.75	1 1/2-12UN-2B	MS28775-122
9#16	M24217/10-003	1074035-104	2.00	1 3/4-12UN-2B	MS28775-126
14#16	M24217/10-004	1074036-104	2.37	2 1/8-12UN-2B	MS28775-132
24#16	M24217/10-005	1074037-104	2.75	2 1/2-12UN-2B	MS28775-138
37#16	M24217/10-006	1074038-103	3.50	3-12UN-2B	MS28775-145
48#16	M24217/10-007	1074039-103	4.12	3 3/4-12UN-2B	MS28775-151
3#12	M24217/10-008	1074041-101	2.00	1 3/4-12UN-2B	MS28775-126
5#12, 3#8	M24217/10-009	1074043-103	2.37	2 1/8-12UN-2B	MS28775-132
9#12, 3#4, 3#12 & 3#8	M24217/10-010	1074042-101	2.75	2 1/2-12UN-2B	MS28775-138
2#0 & 4#12	M24217/10-011	1074040-103	3.37	3-12UN-2B	MS28775-145
8#16	M24217/10-012	1044001-102	1.50	1 3/8-12UN-2B	MS28775-119
3#0	M24217/10-013	1074046-103	3.63	3 1/4-12UN-2B	MS28775-147

(Dimensions in inches)



PRESSURE PROOF CAPS | STANDARD | FOR PLUGS



For Connector	Mil Spec Part No.	DGO Part No.	Outside Diameter	E Thread	O-ring
3#16, 5#16 Special	M24217/9-001	1073033-103	1.25	1 1/4-12UN-2A	MS28775-114
5#16	M24217/9-002	1073034-103	1.50	1 1/2-12UN-2A	MS28775-117
9#16, 3#12	M24217/9-003	1073035-103	1.75	1 3/4-12UN-2A	MS28775-121
14#16, 5#12, 3#8	M24217/9-004	1073036-103	2.12	2 1/8-12UN-2A	MS28775-125
24#16, 3#4, 9#12, 3#8 & 3#12	M24217/9-005	1073037-104	2.50	2 1/2-12UN-2A	MS28775-131
37#16, 2#0 & 4#12	M24217/9-006	1073038-103	3.00	3-12UN-2A	MS28775-137
48#16	M24217/9-007	1073039-103	3.75	3 3/4-12UN-2A	MS28775-144
8#16	M24217/9-008	1073042-101	1.37	1 3/8-12UN-2A	MS28775-117
3#0	M24217/9-009	1073043-103	3.25	3 1/4-12UN-2A	MS28775-141

(Dimensions in inches)

IMPORTANT ORDERING NOTES

1. DGO can terminate plug kits and receptacle kits to cable(s) of your choice at competitive prices. Please send us your requirements in order to provide an accurate price and lead time.
2. 120° keying is standard. Alternate keys are available in accordance with Mil-C-24217 (i.e., 90°, 135°, 150° and 165°).
3. DGO produces all Mil-C-24217 configurations; only the commonly used configurations are shown in this catalog. Please consult us if you do not see the configuration you require.
4. 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 more information.
5. 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), with the exception of 37#16 which is 180°.
6. Many of the connectors shown are available in alternative materials (e.g., Titanium, Monel, Inconel, etc.).

TO ORDER:

TELEDYNE DGO

162 Corporate Drive, Suite 100
Portsmouth, NH 03801

Phone: +1 (603) 474-5571

Fax: +1 (603) 474-3161

Email: dgo@teledyne.com

Website: www.dgo.com



FEATURES

- 50 Ohm Coax
- Glass-to-metal seal pressure barrier in the receptacle for maximum protection of equipment
- Dual O-ring seals – primary face seal with secondary piston seal
- Simple, durable construction; excellent for cameras or instruments used in or around water or other harsh environments

MATERIALS (STANDARD)

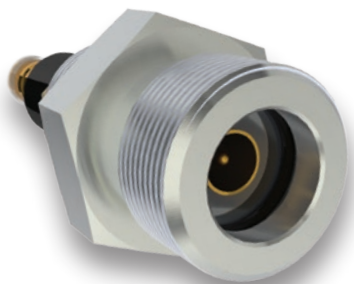
Body:	316/316L Stainless Steel
Coupling Rings:	316
Insulators, Plugs:	Nylon
Insulators, Receptacles:	Glass
O-rings:	Buna-N
Note:	Alternate material options are available, e.g., Titanium, Monel and Inconel; consult factory for details

PERFORMANCE

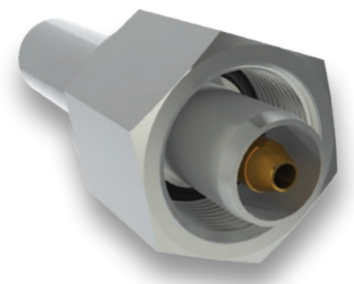
Impedance:	50 Ohms
Frequency Range:	0-1.5 GHz
Insulation Resistance:	5 Gohms at 500 VDC
Max Operating Voltage:	1000 VRMS
Max Operating Current:	3 amps
Temp Range, Operating:	-40°F to 165°F
Temp Range, Storage:	-65°F to 175°F
Max Operational Pressure:	2,000 psi for molded cable assemblies (~4500 ft/1372 m) 10,000 psi open face receptacle

RECOMMENDED CABLES

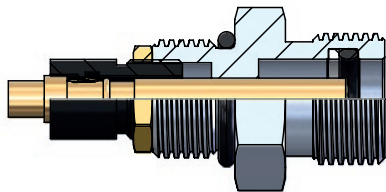
For General Use:	Mil-2-17/28 RG-58 (including shallow water, non-critical applications)
For Deep Submergence /Critical Applications:	TRC CN-4 (50 Ohm)
Note:	Alternate cables can be accommodated; consult factory for details



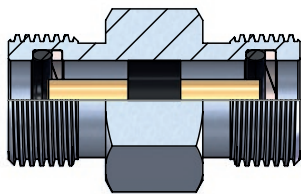
RECEPTACLE



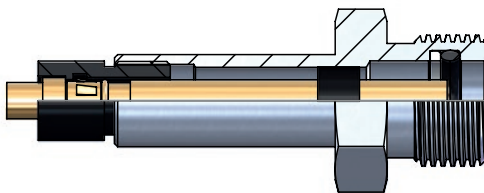
PLUG ASSEMBLY



BULKHEAD



SPLICE

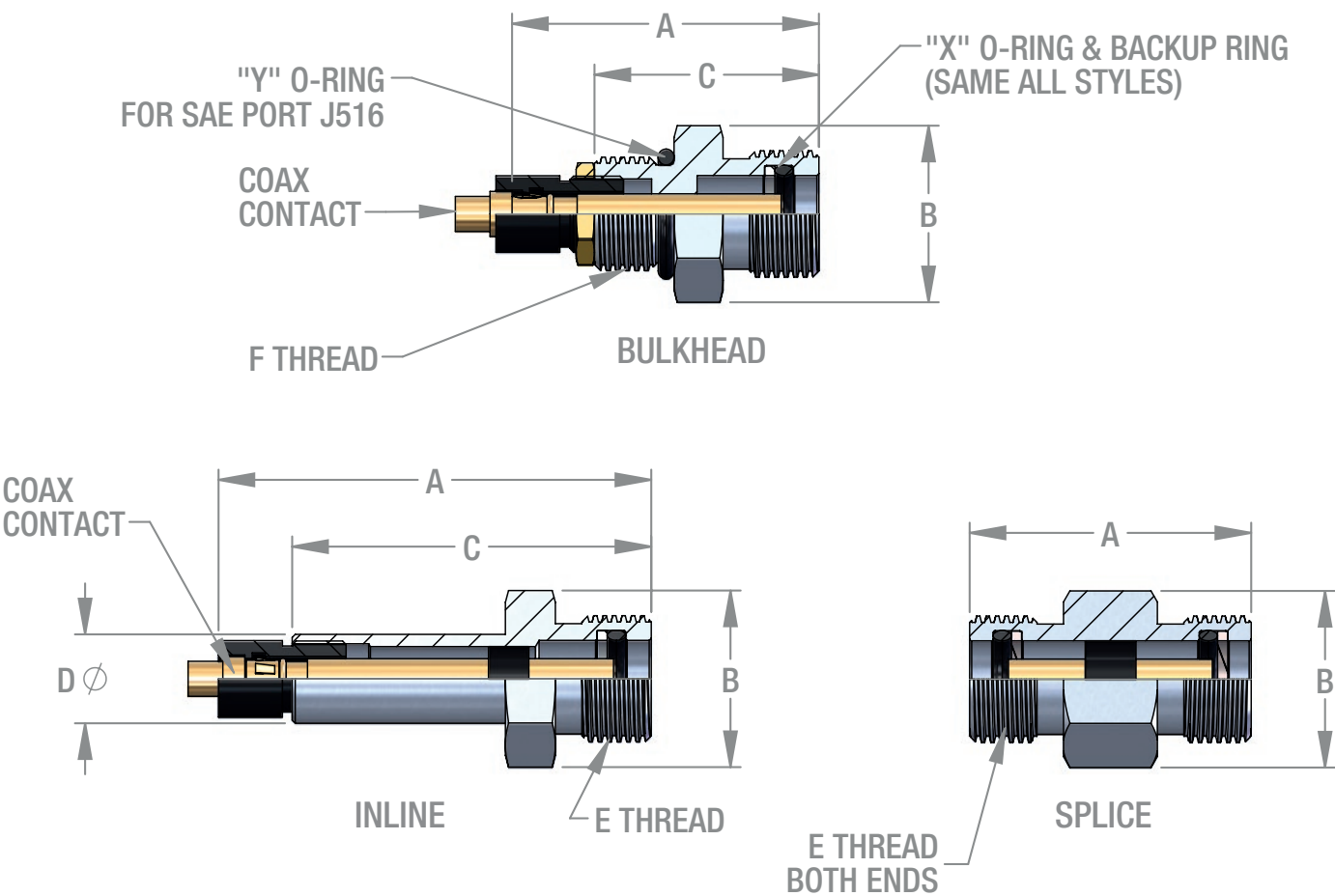
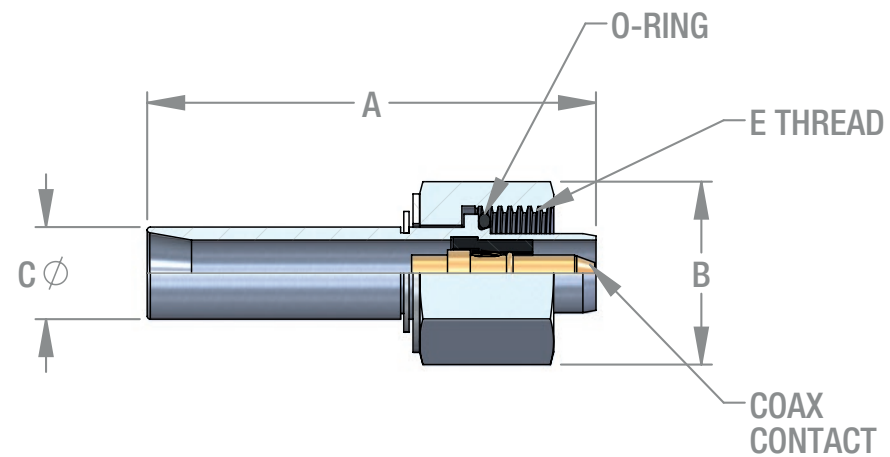


INLINE



PLUG KITS | STRAIGHT PLUGS

RECEPTACLE KITS | STANDARD



Plug Kit Number	1101001-101
A	2.13
B (across hex nut flats)	0.75
C	.436 Diameter
E	5/8-18UNF
O-ring	MS28775-013
Coax Contact	1131016-101
Cable Accommodated	RG-58, CN-4

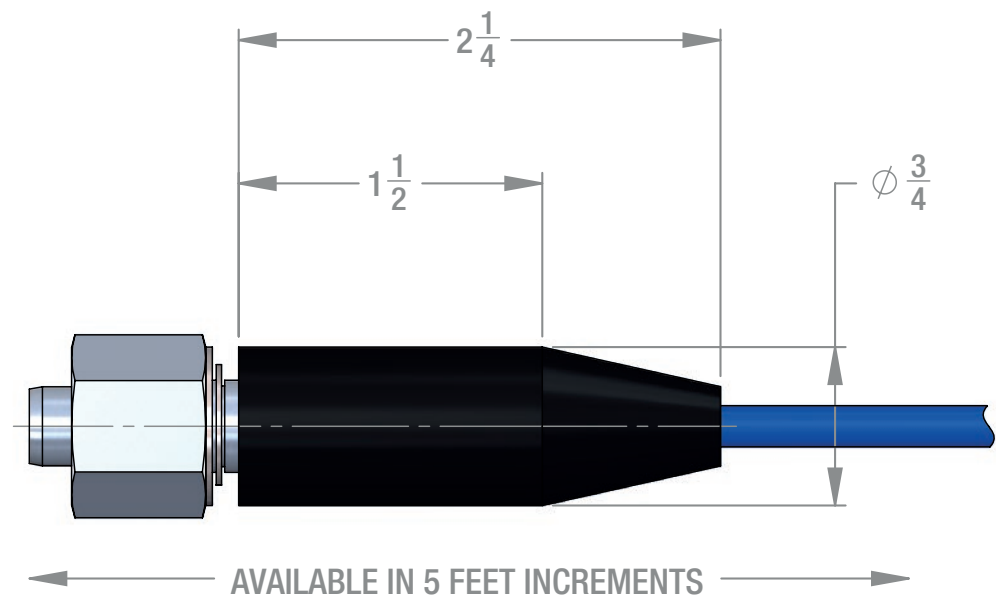
(Dimensions in inches)

	Bulkhead	Inline	Splice
Receptacle Part 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 Diameter	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)



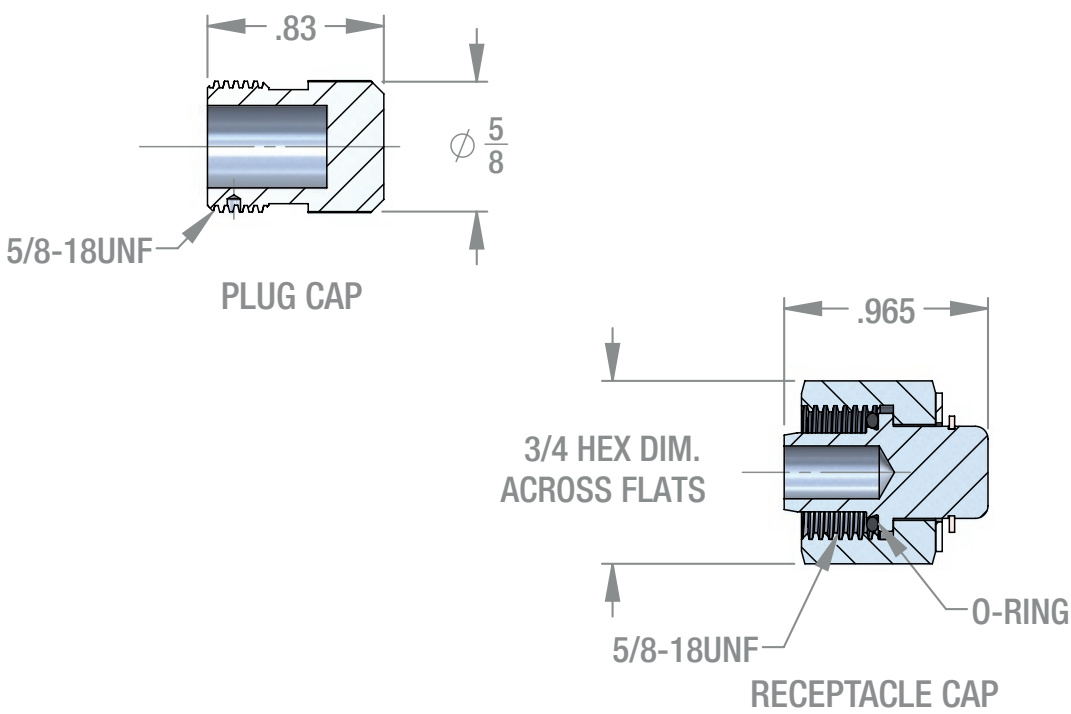
COAX PLUG CABLE ASSEMBLIES | STANDARD
STRAIGHT | SINGLE-ENDED



	RG-58	CN-4
Cable Assembly Part No.	1150446-XXX	1150452-XXX
Plug Part No.	1101001-101	1101001-101
Plug Qty.	1	1
Cable Type	RG-58	CN-4
Cable Length	AVAILABLE IN 5 FEET INCREMENTS	
Cable Diameter	0.20	0.26
Over-molding	Polyurethane (Black)	Neoprene

(Dimensions in inches unless otherwise noted)

PRESSURE PROOF CAPS | STANDARD



	Plugs	Receptacles
Pressure Proof Cap Part No.	1103001-101	1104001-101
Material	316 Stainless Steel	316 Stainless Steel
O-ring	n/a	MS28775-013 (Buna-N)

(Dimensions in inches)



CRIMP TOOL CROSS REFERENCE



IMPORTANT ORDERING NOTES

- 1. DGO can terminate plug kits and receptacle kits to cable(s) of your choice at very competitive prices. Please send us your requirements in order to provide an accurate price and lead time.
- 2. Different cable lengths are available. Consult factory for specific assembly part numbers, price, and delivery.
- 3. Standard cable assembly test pressure is 2,000 psi (138 bar). If higher test pressures are required, please advise factory immediately with your specifications.
- 4. Termination instructions are available on our website.
- 5. Alternate material options are available for plugs, receptacles, and over-molding.

RG/U Cable No.	DGO Part No.	Amp Tool No.
58, 58A, 58B, 58C	1131016-101	45740-2
174, 179A, 187, 21-598	1131016-102	45638-2
180, 180A, 195, 21-497	1131016-103	45639-1
188, 316	1131016-104	45638-2
122	1131016-105	46639-2
55, 55B, 141, 142, 223	1131016-106	69248-4
59, 59A, 59B62, 62A, 62B, 124, 140, 210	1131016-107	45634-3
178, 178A, 196	1131016-108	69186-2
71, 71A, 71B	—	69613
161	—	69147-2
141A, 142A, 142B	—	69248-4

TO ORDER:

TELEDYNE DGO

162 Corporate Drive, Suite 100
Portsmouth, NH 03801

Phone: +1 (603) 474-5571
Fax: +1 (603) 474-3161
Email: dgo@teledyne.com
Website: www.dgo.com



PENETRATORS | STANDARD

FEATURES

- 1 to 26 pin or socket connector designs
- NACE MR0175 compliant
- Dual sealing/redundant sealing
- Metal sealing available
- Vibration and shock qualified, ISO 13628-8

MATERIALS (STANDARD)

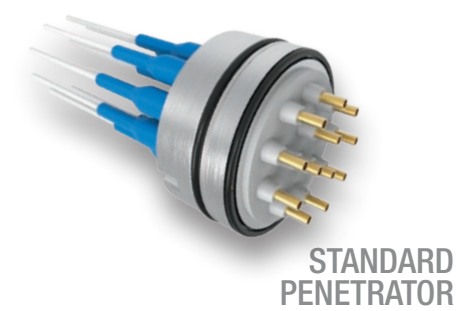
Body:	API 6A 718 Age hardened Inc 718 AMS 562 Inc 625
Insulators:	PEEK, Fluorosilicone
O-Rings:	FKM

PERFORMANCE

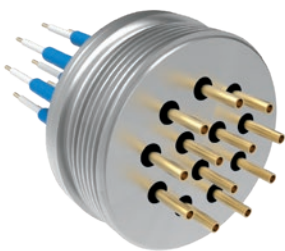
Insulation Resistance:	5 Gohms at 500 VDC
Voltage Ratings:	500 VDC
Current Ratings:	5-7 amps
Temp Range:	0 to 446°F (230° C)
Helium Leakage:	Less than 1 x 10-8 cc/sec
Hydro Pressure Resistance:	0 to 30,000 psi (2068 BAR)
Gas Pressure Tested:	0 to 15,000 psi (1034 BAR) per API 6A

RECOMMENDED APPLICATIONS

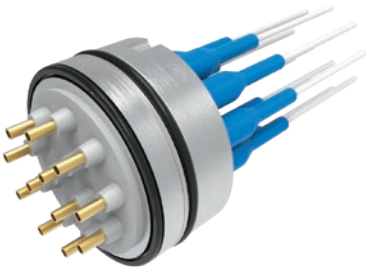
- Subsea sensors
- Subsea electronics modules
- Chemical injection valves
- Erosion/Corrosion monitoring
- Flow meters



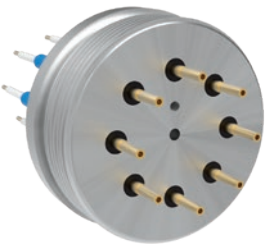
5#16



*12#12



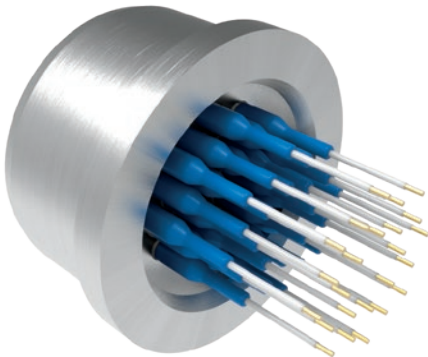
12#12



8#12



15#16



24#12

No. of Contacts	DGO Part No.	Material	Operating Pressure	Operating Temperature	Insulation Resistance
5#16	1110097-101	Inconel	15,000 PSIG	350°F	500 VDC > 5 GOhm
8#12	1110139-101	Inconel	15,000 PSIG	0° to 300°F	500 VDC > 10 GOhm
12#12	1110112-101	Inconel	15,000 PSIG	-40° to 300°F	500 VDC > 1 GOhm
	1110125-101	Inconel	15,000 PSIG		
	1110136-101*	Stainless Steel	5,000 PSIG		
	1110134-101	Inconel	15,000 PSIG		
15#16	1110096-101	Inconel	15,000 PSIG	350°F	500 VDC ≥ 5 GOhm
24#12	1110126-101	316L	5,000 PSIG	10° to 330°F	500 VDC > 1 GOhm



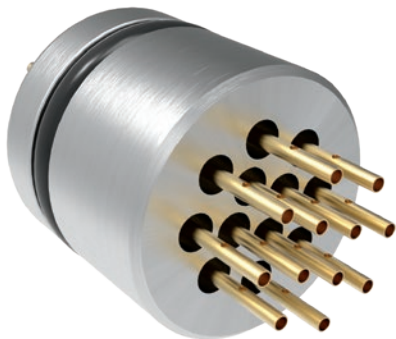
PENETRATORS | MINIATURE



1#16



1#20



12#20

No. of Contacts	DGO Part No.	Material	Operating Pressure	Operating Temperature	Insulation Resistance
1#16	1370097-101	Inconel	30,000 PSIG	400°F	10 GOhm @ 500 VDC
1#20	1370039-101	Stainless Steel	6,000 PSIG	32° to 250°F	1 GOhm @ 500 VDC
12#20	1110151-XXX	Inconel	15,000 PSIG	-95° to 350°F	1 GOhm @ 500 VDC

PENETRATORS | HIGH PIN COUNT



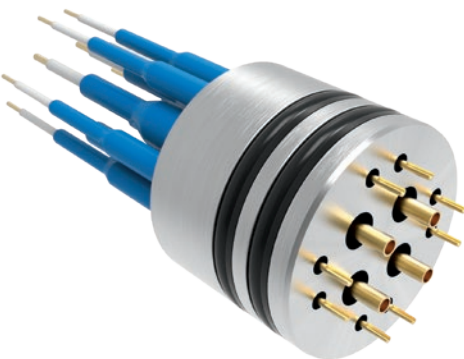
110#16



161#20

No. of Contacts	DGO Part No.	Material	Operating Pressure	Operating Temperature	Insulation Resistance
110#16	1110088-101	Stainless Steel	4,500 PSIG	-40° to 140°F	5 GOhm @ 500 VDC
161#20	1110095-101	Stainless Steel	4,500 PSIG	-40° to 140°F	5 GOhm @ 500 VDC

PENETRATORS | SPECIAL | ETHERNET APPLICATIONS



4#12, 8#20

No. of Contacts	DGO Part No.	Material	Operating Pressure	Operating Temperature	Insulation Resistance
4#12, 8#20	1110144-101	Inconel	6,600 PSIG	-40° to 140°F	1 GOhm @ 500 VDC



PLUG

FEATURES

- High Density, low cost design
- Signal & Power: #20, #16 AWG
- 6-55 contacts
- Glass-to-metal seal pressure barrier in the receptacle for maximum protection of equipment
- Dual Keys; scoop-proof; 120° standard
- Single O-ring seal in plug-receptacle interface
- Simple, rugged construction; excellent for cameras or instruments used in or around water and other harsh environments

MATERIALS (STANDARD)

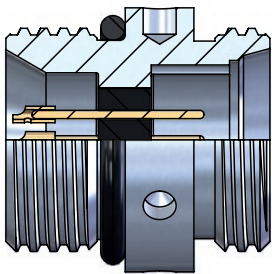
Body:	316/316L Stainless Steel
Coupling Rings:	Al-Ni-Br
Insulators, Plugs:	DAP
Insulators, Receptacles:	Glass
O-rings:	Buna-N
Note:	Alternate material options are available; consult factory for details

PERFORMANCE

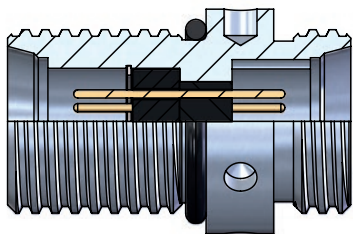
Pressure:	Up to 2,000 psi		
Insulation Resistance:	5 Gohms		
DWV:	625 VRMS @ 60 Hz		
Contact Ratings:	Size (AWG)	Test	Operation
	#16	13 amps	7.5 amps
	#20	5 amps	3 amps
Temp Range, Operating:	-40°F to 165°F		
Temp Range, Storage:	-65°F to 175°F		



RECEPTACLE



BULKHEAD



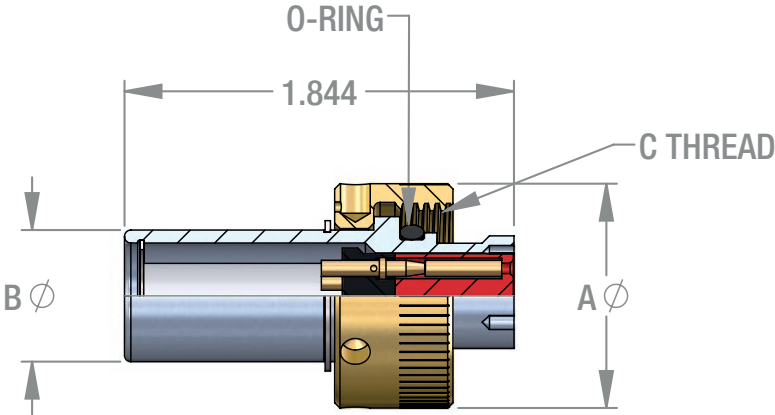
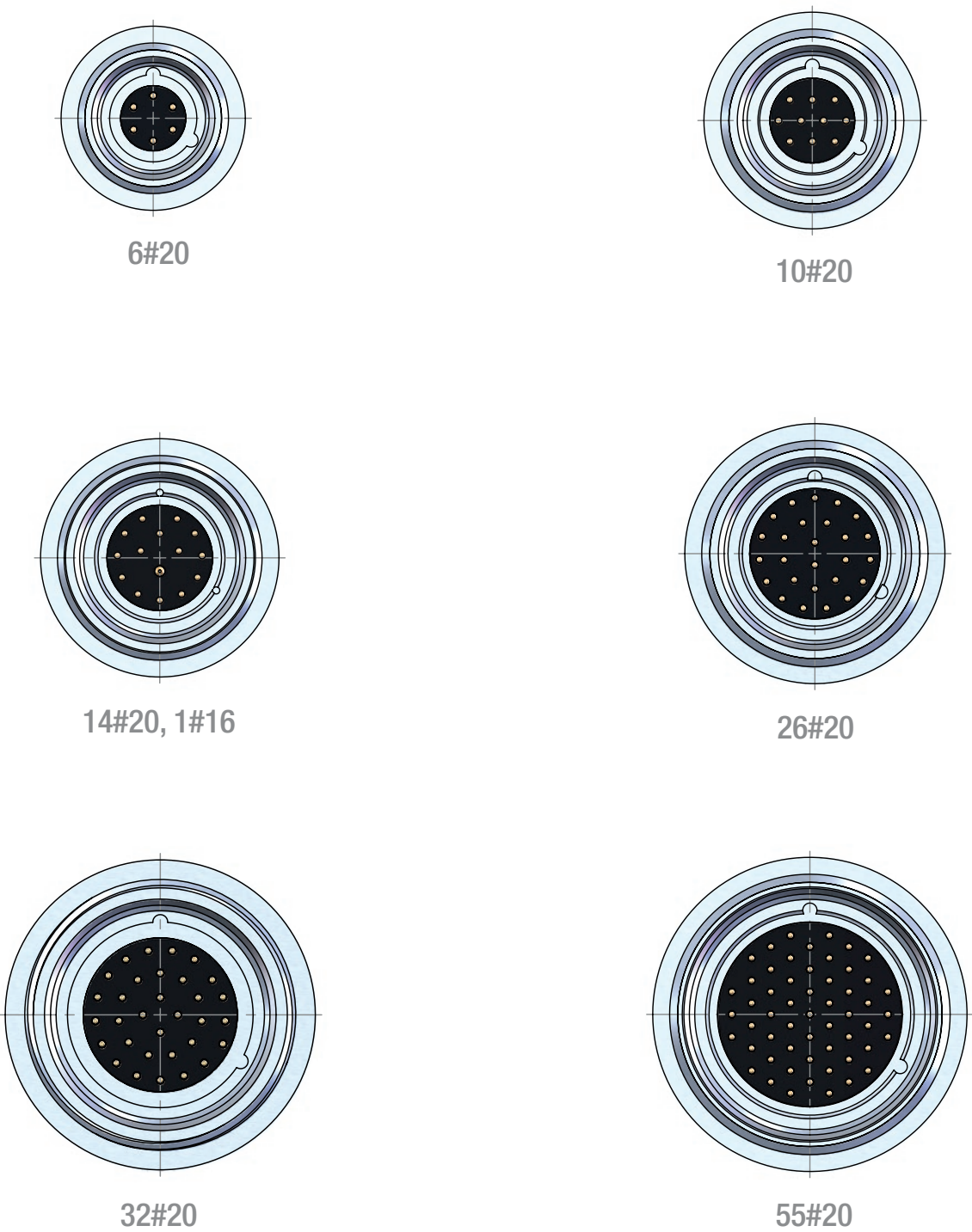
BULKHEAD SPLICE



128 SERIES | PIN PATTERNS

FRONT FACE OF RECEPTACLES

PLUG KITS | STANDARD

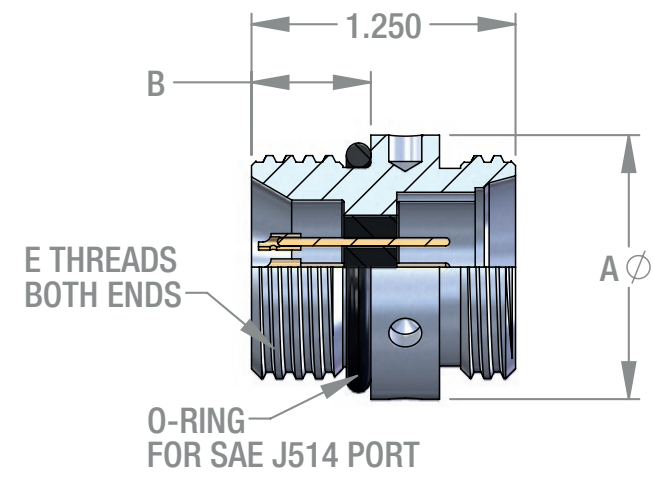


No. of Contacts	120° Part No.	A NOM	B NOM	C Thread	O-ring
6#20	1281241-101	1.062	0.625	7/8-14UN	MS28775-112
10#20	1281242-101	1.250	0.750	1 1/16-12UN	MS28775-115
14#20 & 1#16	1281243-101	1.312	0.875	1 3/16-12UN	MS28775-117
26#20	1281244-101	1.500	1.000	1 5/16-12UN	MS28775-119
32#20	1281245-101	1.750	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)



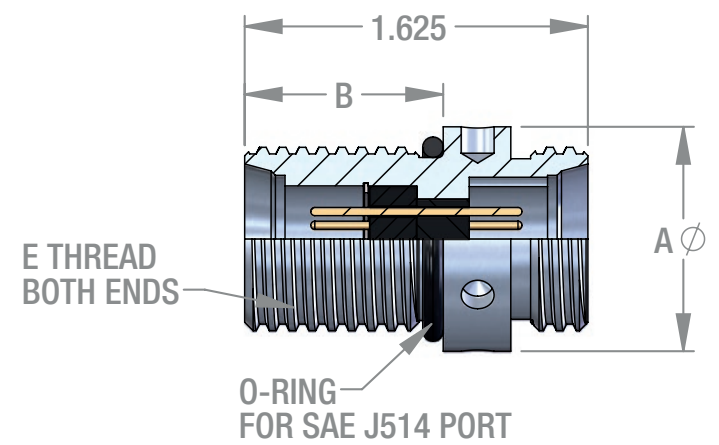
RECEPTACLE KITS | BULKHEAD



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)

RECEPTACLE KITS | BULKHEAD SPLICE

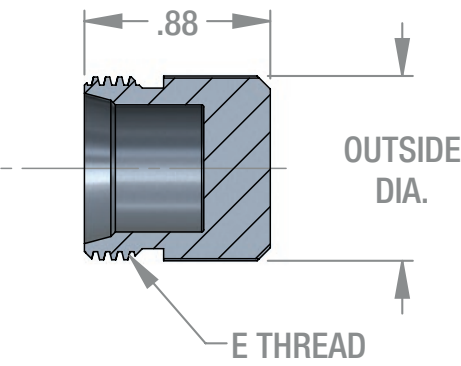


No. of Contacts	120° Key Part No.	A NOM	B NOM	E Thread	O-ring
6#20	1280231-101	1.062	0.940	7/8-14UN-2A	M83461/2-910
10#20	1280232-101	1.250	0.940	1 1/16-12UN-2A	M83461/2-912
14#20, 1#16	1280233-101	1.375	0.940	1 3/16-12UN-2A	M83461/2-914
26#20	1280234-101	1.500	0.940	1 5/16-12UN-2A	M83461/2-916
32#20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



PRESSURE PROOF CAPS | STANDARD | FOR PLUGS



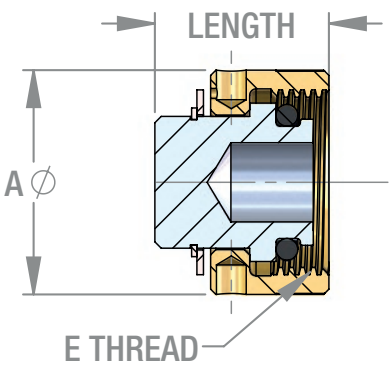
For Connector	DGO Part Number	Outside Diameter	E Thread
6#20	1283001-502	.88	7/8-14UN
10#20	1283002-502	1.06	1 1/16-12UN
14#20 & 1#16	1283003-502	1.19	1 3/16-12UN
26#20	1283004-502	1.31	1 5/16-12UN
32#20	1283005-502	1.50	1 1/2-12UN
55#20	1283007-502	1.63	1 5/8-12UN

(Dimensions in inches)

IMPORTANT ORDERING NOTES

- 1. DGO can terminate plug kits and receptacle kits to cable(s) of your choice at very competitive prices. Please send us your requirements in order to provide an accurate price and lead time.
- 2. 120° keying is standard. Alternate keys are available. Please consult factory for details.
- 3. Alternate material options are available for plugs, receptacles, and over-molding.

PRESSURE PROOF CAPS | STANDARD | FOR RECEPTACLES



For Connector	DGO 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)

TO ORDER:

TELEDYNE DGO

162 Corporate Drive, Suite 100
Portsmouth, NH 03801

Phone: +1 (603) 474-5571
Fax: +1 (603) 474-3161
Email: dgo@teledyne.com
Website: www.dgo.com



PLUG



RECEPTACLE

GENERAL SPECIFICATIONS

Body:	316/316L Stainless Steel
Configurations:	Fiber Optic, Electro-Optic, and/or Fiber Optic Pressure-Balanced Oil-Filled (PBOF)
Operational Temperature:	-50°F to 160°F
Max Operational Pressure:	up to 10,000 psi (23,000 ft.)
Material:	Stainless Steel (standard), Titanium, Hastelloy, Monel and Beryllium Copper

OPTIONAL SPECIFICATIONS
(based on single-mode, single channel)

Insertion Loss (nominal value):	0.5dB per mated receptacle/plug (single mode) 1.0dB per mated receptacle/plug (multi-mode)
Return Loss:	>40 dB
Wavelength:	850, 1310 and 1550 nm
Note:	Because a fiber optic connector is only as good as the quality of the termination, Teledyne DGO does not supply discrete connectors, we only provide fiber optic cable assemblies. As always, these complete fiber optic connection solutions will be shipped fully tested and guaranteed to meet your optical transmission requirements.

FIBER OPTIC

Fiber Optic Assemblies can be provided in 1, 2, 4, 8 & 15 Channels. Parts shown in this catalog are examples of our standard products. Please contact the factory for more information if these products do not meet your application requirements.

ELECTRO-OPTIC

Electro-Optic Connectors are available in a variety of configurations, including three-fiber with 10#16 AWG or four-fiber with 8#16 AWG configurations within a 2 ½ inch diameter receptacle. This same shell could accommodate

up to six optical fibers. Shells are provided in stainless steel and can be configured in a variety of mounting configurations, including weld flange, SAE port, flange bolted and locknut styles. Electro-Optic cable terminations can accommodate armored or Kevlar reinforced fibers or loose buffered fibers with a stainless steel tube strength member.

PRESSURE-BALANCED OIL-FILLED

Pressure-balanced, oil-filled (PBOF) assemblies are available for fiber optic integration on high pressure and high pressure cycling

applications, thus eliminating low cycle fatigue and high pressure strain on molded cables. Rugged, clear urethane tubing provides pressure compensation and excellent protection of the optical cable. In order to withstand normal tensile loads, the optical cable is armored and secured to the plug shell excellent protection of the optical cable. The plug is designed to enable full pressure compensation of the mating interface when mated to the receptacle. Single-mode or multi-mode fibers (50 or 62.5/125 μm) are standard with an average insertion loss of less than 0.5dB and a return loss of less than -30 dB at wave lengths of 850, 1300 or 1550 nm.

FIBER OPTIC RECEPTACLE ASSEMBLY
SINGLE ENDED | SINGLE CHANNEL



Mode	TDGO Part No.	Pressure Proof Cap Part No.	Material	Connector	Mounting	Loss
Single-Mode or Multi-Mode	1535016-XXX	1534001-101 or 1534000-101	Stainless Steel (standard) Titanium Monel Hastelloy Beryllium Copper	ST (standard) FC/PC available	9/16-18UNF SAE Fitting Size No. 6	Less than 1dB per connection at 1300nm

FIBER OPTIC PLUG ASSEMBLY
SINGLE ENDED | SINGLE CHANNEL



Mode	TDGO Part No.	Pressure Proof Cap Part No.	Material	Connector	Loss
Single-Mode or Multi- Mode	1535015-XXX	1533000-101	Stainless Steel (standard) Titanium Monel	ST (standard), FC/PC available	Less than 1dB per connection at 1300nm



FIBER OPTIC PLUG ASSEMBLY
RIGHT ANGLE | SINGLE ENDED



Mode	DGO Part Number	Pressure Proof Cap Part Number	Material	Connector	Loss
Single-Mode or Multi-Mode	1535063-XXX	1533000-101	Stainless Steel (Other Options Available)	ST (standard)	Less than 1dB per connection at 1300nm

FIBER OPTIC PLUG ASSEMBLY | DOUBLE ENDED



Mode	DGO Part Number	Pressure Proof Cap Part Number	Material	Loss
Single-Mode or Multi-Mode	1535005-XXX	1533000-101	Stainless Steel (Other Options Available)	Less than 1dB per connection at 1300nm

ELECTRO-OPTIC



DGO Part Number	Configuration	Mounting
1535016-XXX	1 Fiber	5/8-18UN-2A
1530011-XXX	1 Fiber/2#12	1 3/4-12UN-2A
1530012-XXX	1 Fiber/6#20	1 3/4-12UN-2A
1530015-XXX	2 Fibers	1 3/4-12UN-2A
1530028-XXX	2 Fibers/6#20	1 3/4-12UN-2A
1535071-XXX	3 Fibers/3#16	1 1/4-12UN-2A
1535154-103	4 Fibers/9#20	2-12UN-2A
1530010-XXX	4 Fibers/8#16	2 1/2-12UN-2A*

PRESSURE-BALANCED OIL-FILLED



Mode	DGO Part Number	Pressure Proof Cap Part Number	Cable	Material	Loss
Single-Mode or Multi-Mode	1535053-XXX	1534000-102	0065-XXX	Stainless Steel (standard) Titanium	Less than 1dB per connection at 1500nm



API-16D SERIES | RECEPTACLES



PLUG



RECEPTACLE

FEATURES

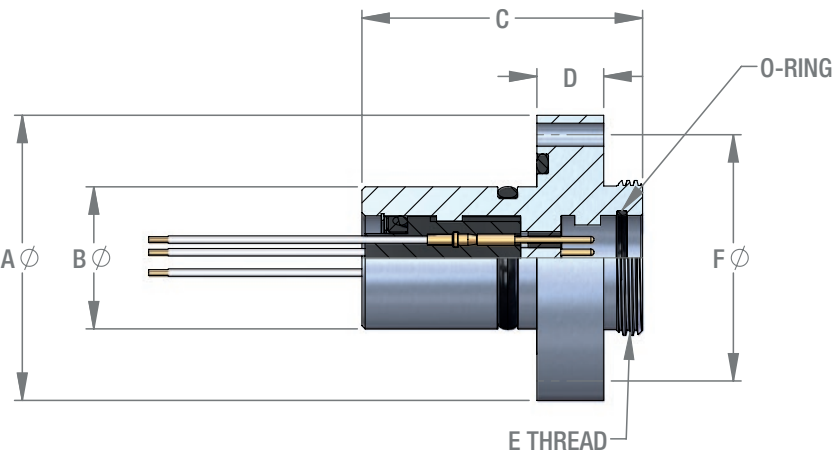
- Test ports to verify seal integrity of mated plugs/receptacles
- Instrumentation and power: #16 or #20 AWG and optical
- 5 to 61 contacts
- Glass-to-metal seal pressure barrier in plug and receptacle for maximum protection of equipment
- Dual keys (120 degree standard, other options available)
- Rugged reliable construction
- Designed for long-term use
- Packaged to prevent corrosion caused by condensation and/or exposure to salt-laden atmosphere
- High cycle fatigue resistant terminations
- Pressure-balanced oil-filled (PBOF) cable; pressure compensation
- Field repairable (PBOF assemblies only)
- Scoop-proof interface
- Fully operational in flooded condition

MATERIALS (STANDARD)

Body:	316/316L Stainless Steel
Coupling Rings:	Al-Ni-Br
Insulators:	Glass, DAP, Polyurethane
O-rings:	Buna-N
Tubing:	Polyurethane
Note:	Alternate material options are available, e.g. titanium, Monel and reinforced tubing. Consult factory for details.

PERFORMANCE

Pressure:	10,000 psi
Insulation Resistance:	5 Gohms at 500 VDC
Contact Ratings:	#16#20
Test Current:	13 amps5 amps
Rated Current*:	4-8 amps2-3 amps
DWV:	1,900 VRMS625 VRMS
Rated Voltage:	625 VRMS150 VRMS
Temp Range, Operating:	-40°F to 165°F
Temp Range, Storage:	-70°F to 175°F
Optical:	62.5/125 μm standard IL < 1.0 dB/contact @ 1,300 nm



Number of Contacts	DGO Part Number	Part Number Without Test Port	Pressure Proof Cap (Sold Separately)	Diameter "A"	Diameter "B"	Length "C"	Length "D"	Bolt Circle Diameter "F"
5#16	1070341-101	-102	1074034-103	2.750	1.370	2.707	.645	2.375
14#16	1070343-101	-102	1074036-104	3.375	1.870	2.957	.645	3.000
24#16	1070344-101	-102	1074037-104	3.750	2.245	3.082	.645	3.375
48#16	1070346-101	-101	1074039-103	5.000	3.493	3.376	.645	4.625
61#20	1070347-101	-101	1074037-104	3.750	2.245	3.082	.645	3.375
*6 Optical	1530036-101	-102 -103 -104 -105	1074037-104	3.750	2.245	3.082	.645	3.375

(Dimensions in inches)

The receptacles listed above are provided with 10ft. of Type 44 straight wire MIL-W-81044 or twisted-shielded-pair wire terminated to the boot seal. Optical receptacles include 10ft. of 62.5/125μm cable (part number 0065-452) with ST connectors (part number 0116-123) terminated to free end. Consult factory for wire or cable type when ordering, as other options are available.

The receptacles listed above are provided with the water blocking grommet assembly installed. This provides secondary water block sealing of the electrical termination to assure functionality in the event of a flooded housing.

Standard dual keying at 0° and 120°, alternate keying is available upon request.

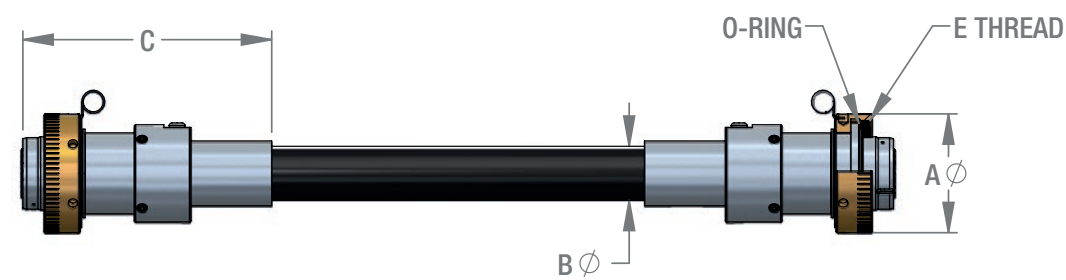
Receptacle mounting bolts are available, Teledyne DGO part number 0104-006, 10#24 x 1.000 Hex Socket Head Cap Screw with nylon locking insert.

All connectors are provided with protective caps. Pressure proof caps are sold separately. (See table for part numbers)

*Note: Fiber Optic is not supplied with water block grommet assembly



API-16D SERIES | PBOF CABLE ASSEMBLIES



Number of Contacts	DGO Part Number	Pressure Proof Cap Part No.	Diameter "A"	Diameter "B"	Length "C"
5#16	1401201-XXX	1073034-103	1.75	.75	5.40
14#16	1401203-XXX	1073036-103	2.38	.75	7.35
24#16	1401204-XXX	1073037-104	2.75	1.25	6.83
48#16	1401206-XXX	1073039-103	4.12	1.25	8.43
61#20	1401207-XXX	1073037-104	2.75	1.25	5.76
6 Optical	1535092-XXX	913-934-101	2.75	1.25	5.76

(Dimensions in inches)

Length	10ft	15ft	20ft	25ft	30ft	35ft	40ft	45ft	50ft
-XXX	-101	-102	-103	-104	-105	-106	-107	-108	-109

The part numbers listed above incorporate straight #16 or #20 AWG Type 44 wire, MIL-W-81044, with pin-to-pin wiring or twisted-shielded-pair (TSP) wire. Optical receptacles use 62.5/125 μm cable (part number, 0065-452).

Alternate wiring options and lengths are available (e.g. TSP); Diameter "B" may vary to accommodate larger wire bundles.

Field repair kits are available. Use of field repair kits requires training and some specialized tooling, available from Teledyne DGO.

TO ORDER:

TELEDYNE DGO

162 Corporate Drive, Suite 100
Portsmouth, NH 03801

Phone: +1 (603) 474-5571
Fax: +1 (603) 474-3161
Email: dgo@teledyne.com
Website: www.dgo.com



Global Subsea Presence



- Teledyne DGO
- Teledyne Marine Locations



TELEDYNE DGO

www.dgo.com

DGO has a history of creating innovative technologies for harsh environments. Since 1962, we have been focused on applying advanced thinking to the creation of infallible connection systems that transmit signals, data, or power through challenging media, such as subsea oil wells and through pressure barriers such as the hull of a submarine.

Today, DGO continues to pave the way through the industry by applying new ideas and space age 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 located at the Pease International Tradeport in Portsmouth, New Hampshire.



TELEDYNE MARINE

www.teledynemarine.com

Interconnect Solutions

The Teledyne Marine Interconnect group integrates the resources of five Teledyne interconnect product lines into a single, market-focused organization that supplies innovative, high-performance solutions. The diverse needs of commercial, government, and military customers are successfully served through a broad portfolio of field-proven, time-tested electrical, optical, and hybrid interconnect capabilities optimized for mission-critical applications, where performance and reliability are imperative.

Solutions for these harsh environments include wet-mate, splash-mate, and dry-mate connectors, pressure boundary penetrators, cable assemblies, cable terminations, and custom-engineered

encapsulation and molding. They are available as stand-alone items, or as complex higher-order solutions that integrate cross-platform technologies into advanced, value-added systems.

From the surface to the seafloor...

Teledyne Marine is a group of leading-edge undersea technology companies that have been assembled by Teledyne Technologies Incorporated. The Teledyne Marine team designs and develops a full spectrum of products and technology for a wide array of industry applications.