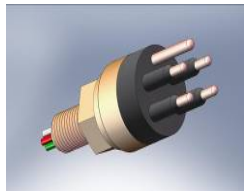


## Burton SC Connectors

- **Mates with other manufacturers' standard circulars**
- **Wet pluggable (Wet mateable)**

Burton wet mateable connectors can be mated together in a wet environment but not underwater. For example, installing instrumentation on an ROV while briefly lifted out of the water.



## ⦿ **Molded Bending Strain Relief**

Connector neck has an integrally molded strain relief. Because of the nature of how these connectors are disconnected they see very high flexing. We've eliminated a single stress point where the cable meets the plug head and spread it over the distance of the strain relief.



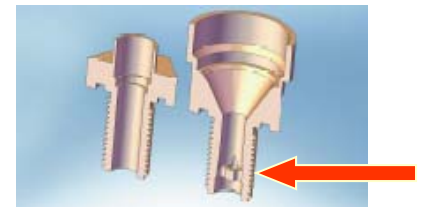
## ⦿ **Color Coded Leads**

Our bulkhead receptacles and over molded plugs have color coded leads. This makes conductor tracing easier and more reliable saving the customer time and money.



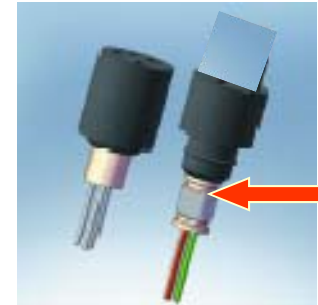
## ⦿ **Bulkhead Pressure Block**

Our connectors have a true pressure block machined into the metal shell. This pressure block makes the connector neck stronger and provides an additional barrier for water intrusion into the pressure vessel.



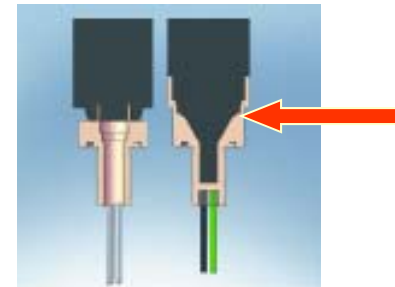
## ⦿ Improved Overmold / Attachable Feature

We've improved the over mold connector by giving it a much larger sealing area. We've also included knurling on the neck to strengthen the bond between cable and connector.



## ⦿ Reinforced Neck on Bulkhead

Because of the high flexing associated with demating the connectors "Breaking the neck" is one of the most common failures. The point where the rubber mold meets the metal shell becomes the failure point. Once the bond between the rubber head and the metal shell breaks the connector is useless.



## ⦿ Crimped Contacts

Crimped contacts are more resistant to bend fatigue than soldered. Connectors are commonly flexed and pulled by the cable which causes subtle bending and flexing at the contact point.

⦿ **Standard receptacle shell material is brass.** Aluminum, Stainless Steel, and Titanium also available

⦿ **Pressure Rating = 10,000PSI**

⦿ **Pin Diameter = .1094” Diameter**  
 18 awg conductors  
 16 awg “available”

⦿ **Gold Plated Contacts**  
 ASTM B488-01  
 .5 Microns = 20 Millionths  
 Compatible with Mil-G-45204C

Electrical Specs:	
Component	Spec
Contacts, All	600 Volts
Contacts, 2-4	15 Amps
Contacts, 6-8	10 Amps
Ina. Res.	>200 Meg
Hi-Pot	2500 VAC

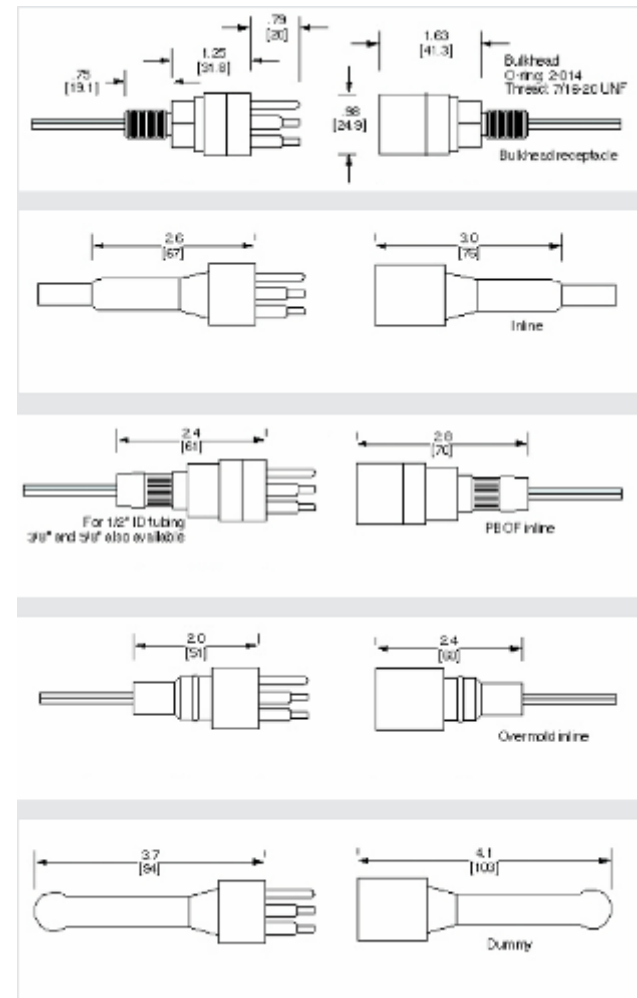
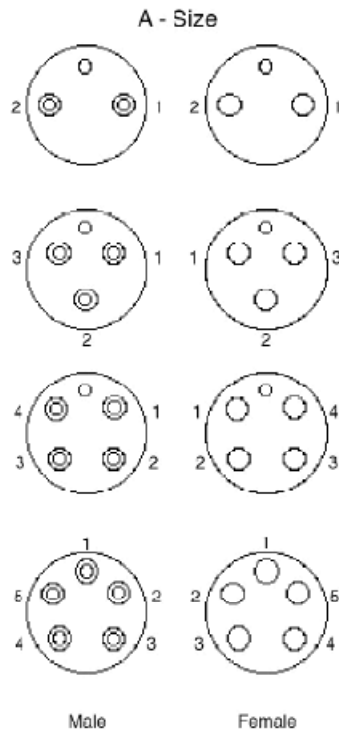
Color Code:	
Contacts #	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White & Black
8	Red & Black
9	Green & Black
10	Orange & Black
11	Blue & Black
12	Black & White
13	Red & White
14	Green & White
15	Blue & White
16	Black & Red

Cable Specs:			
# Cond	V rating	OD	Type
2 Mini	300	0.28	SJO
2 Std	600	0.36	SO
3	600	0.37	SO
4	600	0.40	SO
5	600	0.50	SO
6	600	0.53	SO
8	600	0.60	SO
10	600	.066	SO
12	600	0.66	SO
16	600	0.76	SO

Materials:			
Item	Material	Specifications	Notes
Body	Neoprene	Virgin Electrical Grade	Proprietary Formulation
Bulkheads	Brass	CA-360	Aluminum Optional
Contacts	Brass	CA-360	Gold Plated
Orientation Pin	Brass	CA-360	Gold Plated
Cable	Neoprene	SOW-A	Heavy Duty
Conductors	Teflon	Type E	Color Coded

## Burton SC Series: A-Size 1" (25mm) Dia.

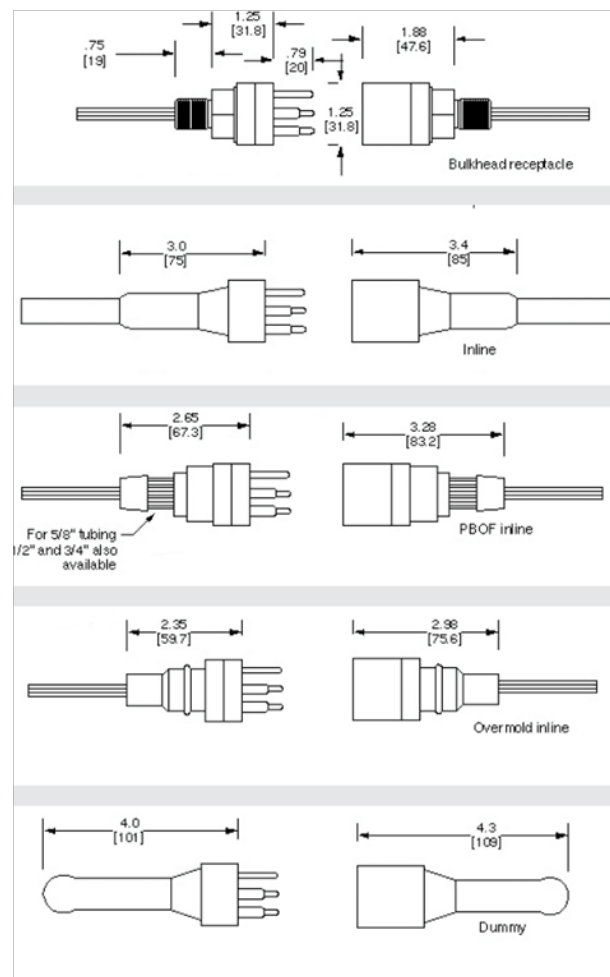
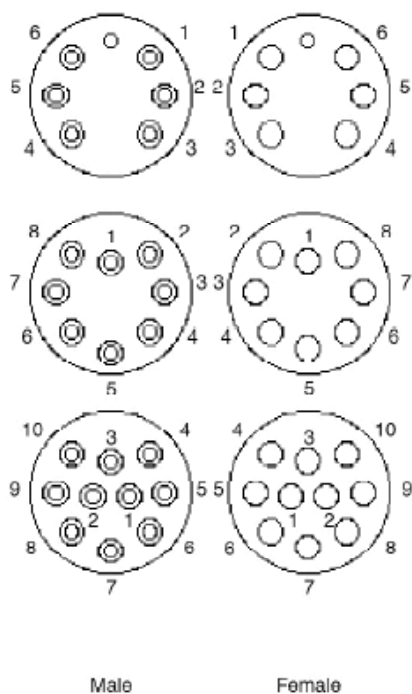
Number of Pins = 2,3,4,5



## Burton SC Series: B-Size 1.25" (32mm) Dia.

Number of Pins = 4,6,8,10

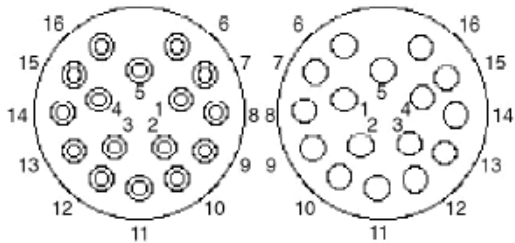
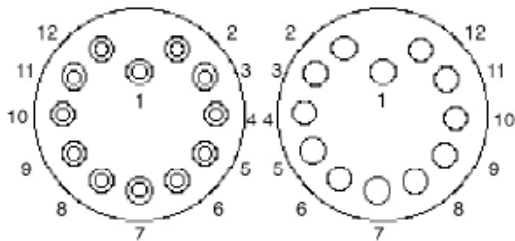
B - Size



## Burton SC Series: C-Size 1.60" (41mm) Dia.

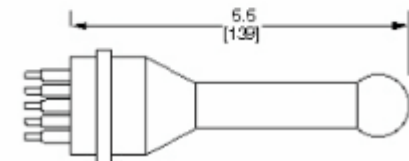
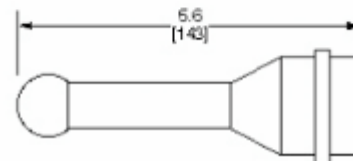
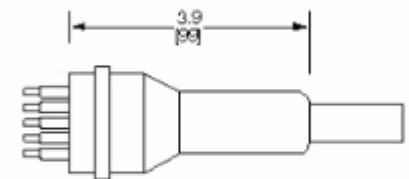
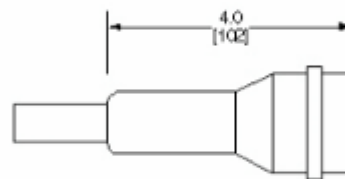
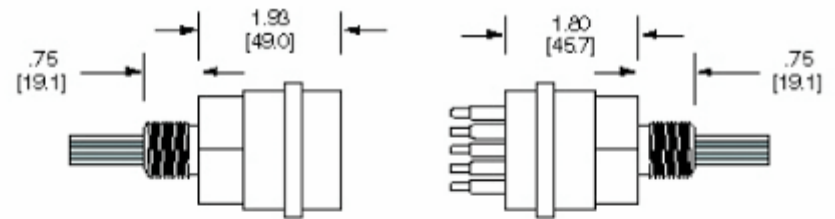
Number of Pins = 12 and 16

C - Size



Male

Female



## NOTES:

- ⊙ Uses industry standard for part numbering... only difference is the CI in front.
  
- ⊙ Commonly referred to as “IL’s” or “BH’s”
  
- ⊙ If the material type is left blank then the shell material is brass

**CI- B H a - 8 B - M P**

Contact Type	
MP	Male Pin
FS	Female Socket
HE	Hermaphroditic

Body Size	
M	0.61" OD (mini)
A	.98" OD
B	1.22" OD
C	1.59" OD
L	Low Profile Type

Number of Contacts	
8	

Bulkhead Material (optional)	
a	Aluminum
s	Stainless Steel
t	Titanium

Type	
BH	Bulkhead Connector, Brass
BR	Bulkhead Connector, Right-Angle
DC	Dummy Connector
IL	Inline Connector
IR	Inline Connector, Right-Angle
OM	Overmold Inline Connector
AT	Attachable Inline Connector

## Bulkheads

Bulkhead connector receptacles are designed to be mounted to your pressure vessel. They are capable of handling 10,000 psi pressure differential (open face). Bulkheads are available in aluminum, brass, or stainless steel. Other materials can be made by special request.

## Inlines

Inline connector plugs are available as pigtails or can be molded onto your cable. The standard pigtail length is 1 meter. However, you may specify any length. Inline connectors plug into a bulkhead receptacle or another inline connector.

## PBOF

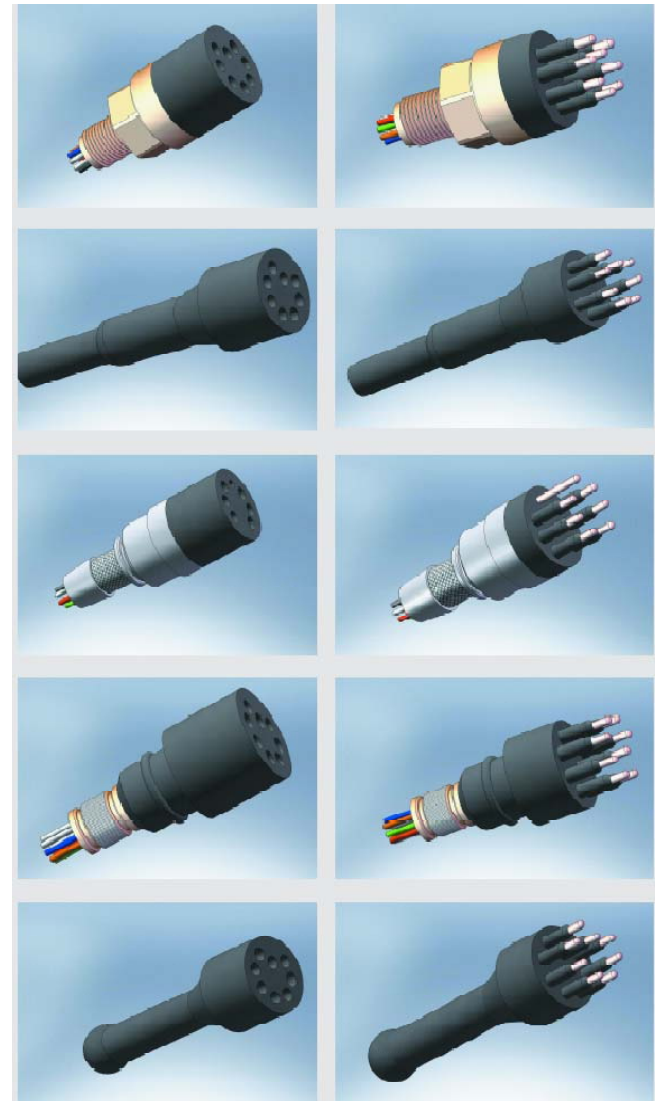
PBOF / Overmold connectors may be used as PBOF (pressure balanced oil filled) or overmolded inline connectors. There is a groove that fits standard size boots for use as an overmold type.

## Overmold

Overmold connectors are for customers who have their own in-house molding capability. The customer may attach almost any type of cable and overmold it to the connector. They have two grooves for tensile strength and a knurled area for rotational strength.

## Dummies

Dummy connectors are used to blank off either a bulkhead receptacle, or an inline connector to prevent salt water from touching the gold plated contacts.



## Remotely Operated Vehicles

Cameras  
Lighting  
Telemetry



## Seismic

Streamers  
Air Guns  
Hydrophones



## Autonomous Underwater Vehicles

Motors  
Lights



## Diving

Communication  
Lights  
Saturation Tanks



## Treatment / Processing

Flow Control  
Valves



## Trenching / Plowing Machines





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