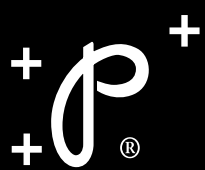
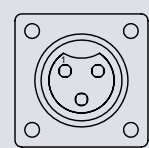


# BABY KING COBRA

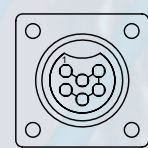


## Miniature, Economical & Rugged Circular Connector Systems

### Connector Versions



**BKC320:**  
Three (3) Size 20  
Contacts



**BKC620:**  
Six (6) Size 20  
Contacts

### Technical Characteristics

#### Materials and Finishes

**Insulator:** Glass-filled nylon, UL 94V-0.  
**Contacts:** Precision machined copper alloy with gold over nickel plate.  
**'O' Ring:** Silicon, UL 94V-0

#### Electrical Characteristics

**Contact Current Ratings**  
Size 20 Contacts: 7.5 amperes nominal.  
**Initial Contact Resistance per IEC 512-2, Test 2b.**  
Size 20 Contacts: 0.005 ohms, maximum.  
**Insulator Resistance per IEC 512-2, Test 3a.**  
Insulator: 5 G ohms, minimum.

#### Proof Voltage

Size 20 Contacts: 1000 V r.m.s.

#### Working Voltage

Size 20 Contacts: 250 V r.m.s.

#### Climatic Characteristics

Working temperature: -55°C to +125°C

#### Dust and Water Ingress:

IP65 with overmolded Assemblies (Consult Factory for details)

#### Mechanical Characteristics

**Polarization:** Provided by insulator.

#### Fixed Contacts:

Size 20 female contacts feature "Open Entry" 500 cycles design.

#### Contact Retention in Insulator:

Size 20 Contacts: 27 N [6 lbs.] minimum.

#### Locking System:

Threaded or Twist Locking Shroud

#### UL :

File E220614



**POSITRONIC**  
GLOBAL *Connector* SOLUTIONS

[www.connectpositronic.com](http://www.connectpositronic.com)

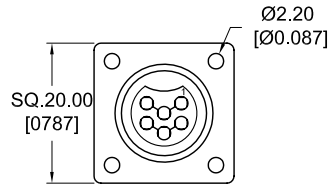
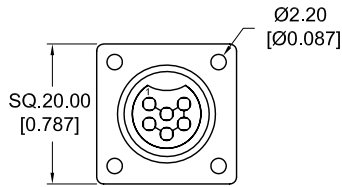
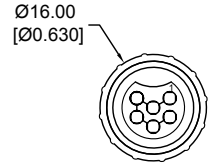
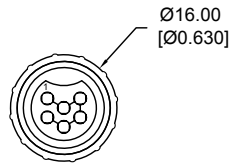
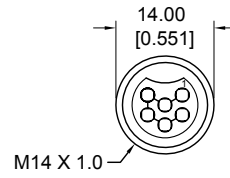
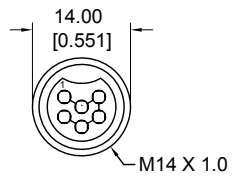
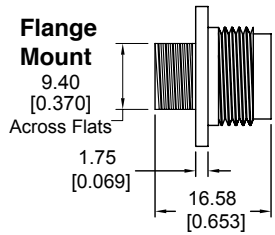
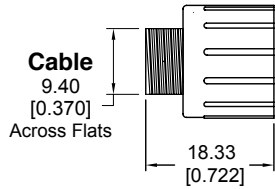
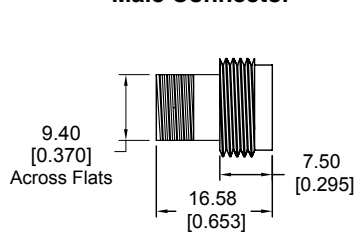


# Outline Dimensions

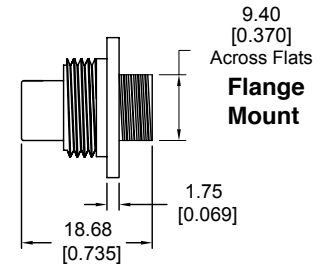
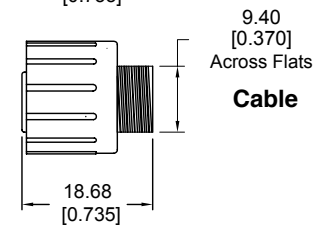
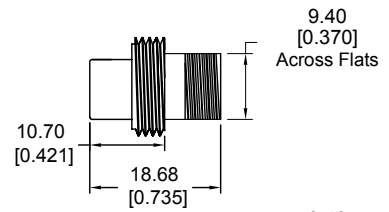


## THREADED LOCKING SYSTEM

### Male Connector

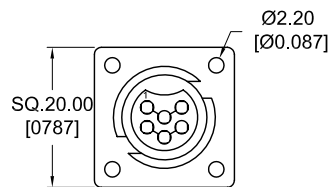
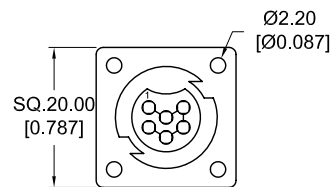
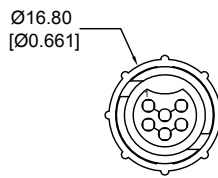
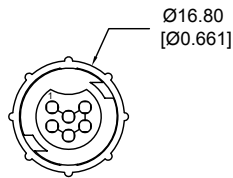
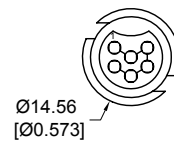
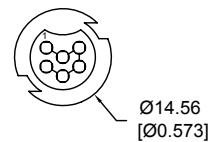
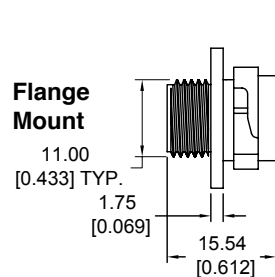
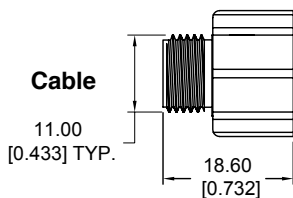
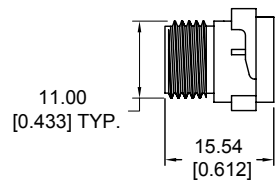


### Female Connector

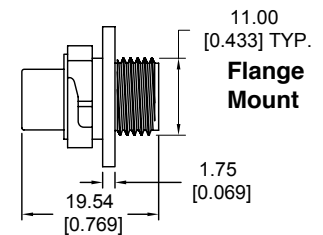
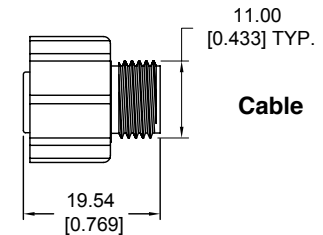
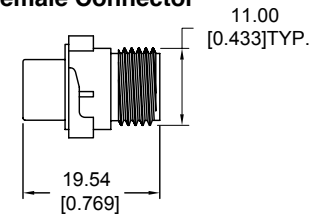


## TWIST LOCKING SYSTEM

### Male Connector



### Female Connector



Above Dimensions are same for both BKC320 and BKC620 versions.

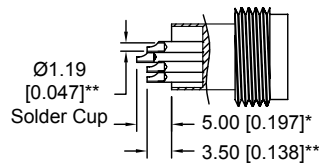




## Solder Cup Contacts

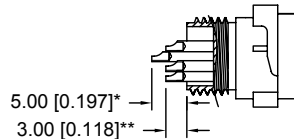
### Male Connector

Typical Part Number:  
BKC620M2T10



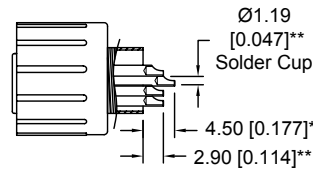
Typical Part Number:  
BKC620M2TW10

Specify code M2TW  
in Step 2



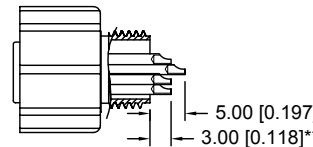
### Female Connector

Typical Part Number:  
BKC620F2T20



Typical Part Number:  
BKC620F2TW30

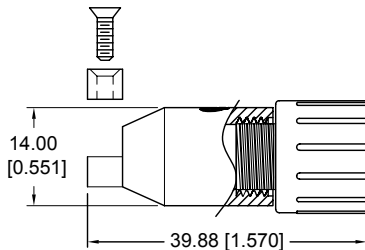
Specify code F2TW in  
Step 2



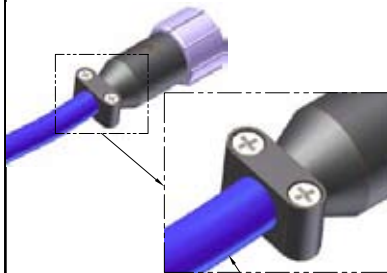
\* applicable for BKC620 only.  
\*\* applicable for BKC620 and BKC320.

## ACCESSORIES

### Connector with Hood Male or Female



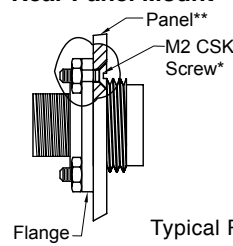
**Materials:**  
Hood & Clamp: Nylon, UL 94V-0.  
Screws: Steel with zinc plate.



Note: Hood design can accommodate jacketed cable Ø between 4.50mm [0.177] to 6.00mm [0.236]

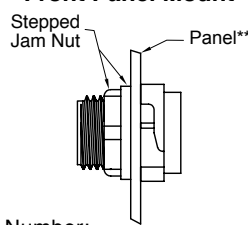
### Panel Mounting Option

#### Rear Panel Mount

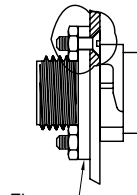


Typical Part Number:  
BKC320M2T1FT  
BKC620M2T1PF

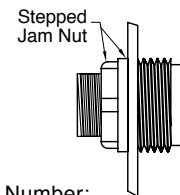
#### Front Panel Mount



Typical Part Number:  
BKC320M2TW1P  
BKC620M2TW1P



Typical Part Number:  
BKC320M2TW1PF  
BKC620M2TW1PF



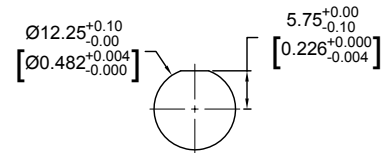
Typical Part Number:  
BKC320M2T1P  
BKC620M2T1P

**Materials:**  
Screws and Nuts: Steel with zinc plate.  
\*Screw and nut shown for reference only.  
\*\*Panel thickness 1.50 [0.059] max only.

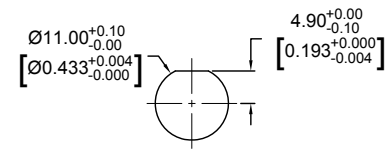
### Panel Cutout

#### Front Mount (Jam Nut)

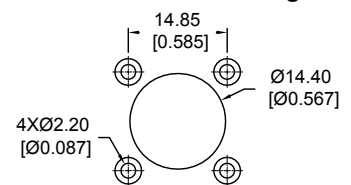
##### Twist Lock Cutout



##### Threaded Lock Cutout



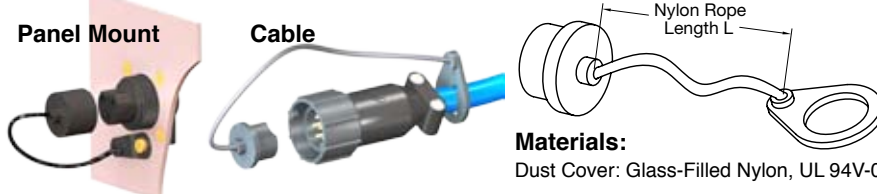
#### Rear Mount Cutout for Threaded Lock or Twist Lock Connector with Flange



### Dust Cover

#### Panel Mount

#### Cable



**Materials:**  
Dust Cover: Glass-Filled Nylon, UL 94V-0.

Ordering Part Numbers:  
(Female Dust Cover Part Number)  
5132-19-1 L=100[3.937]  
5132-19-2 L=35[1.378]

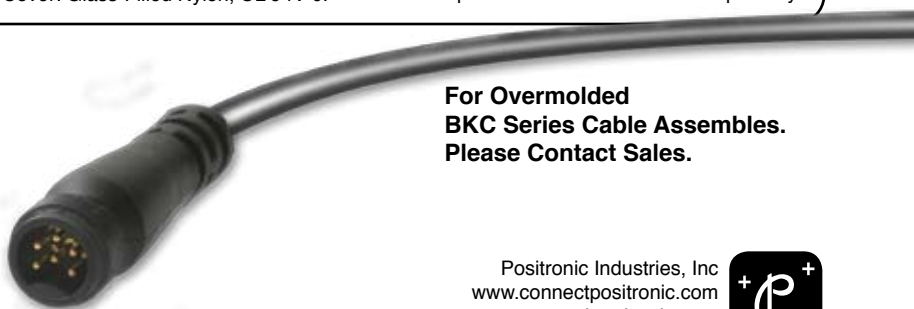
For Male Dust Cover, please consult factory.  
The above part numbers to be ordered separately.

Unless otherwise specified, dimensional tolerances are:

- 1) Male contact mating diameters : ±0.03 [0.001]
- 2) Contact termination diameters : ±0.08 [0.003]
- 3) All other diameters : ±0.13 [0.005]
- 4) All other dimensions : ±0.38 [0.015]

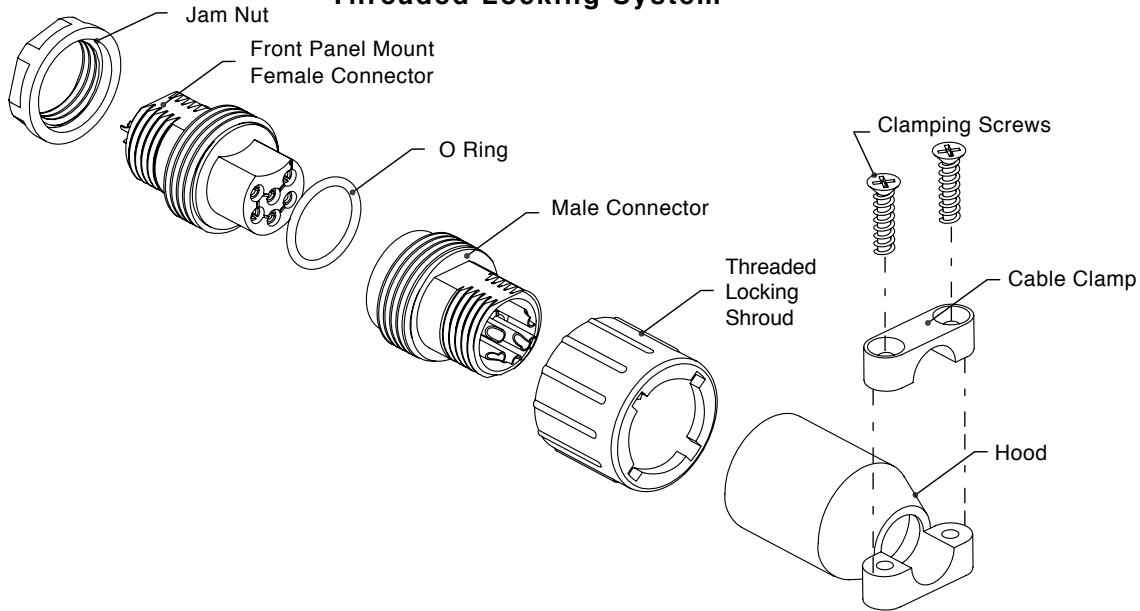
Dimensions are in millimeters [inches].  
All dimensions are subject to change.

**For Overmolded  
BKC Series Cable Assemblies.  
Please Contact Sales.**





**Typical Connector Assembly  
Threaded Locking System**



**Connector Ordering Information**

Specify complete connector by following step 1 through step 5.

Step	1	2	3	4	5
Example	BKC620	F2T1	PF	/AA	- XXX

<p><b>STEP 1: CONNECTOR VERSION</b> Baby King Cobra Series - BKC620 : Six (6) size 20 contacts. BKC320 : Three (3) size 20 contacts.</p>		<p><b>STEP 6 - SPECIAL OPTIONS</b> Consult factory for special options.</p>
<p><b>STEP 2: CONNECTOR GENDER AND TYPE OF CONTACTS</b></p> <p>M2T1 : Threaded Male, solder cup, fixed contacts. (Supplied Without Threaded Locking Shroud)</p> <p>F2T1 : Threaded Female, solder cup, fixed contacts. (Supplied Without Threaded Locking Shroud)</p> <p>M2T2 : Threaded Male, solder cup, fixed contacts. (Supplied With Threaded Locking Shroud)</p> <p>F2T2 : Threaded Female, solder cup, fixed contacts. (Supplied With Threaded Locking Shroud) (M2T1 mates only with F2T2 or F2T1.) (F2T1 mates only with M2T2 or M2T1.)</p> <p>M2TW1 : Twist Male, solder cup, fixed contacts. (Supplied without Twist Locking Shroud)</p> <p>F2TW1 : Twist Female, solder cup, fixed contacts (Supplied without Twist Locking Shroud)</p> <p>M2TW3 : Twist Male, solder cup, fixed contacts. (Supplied with Twist Locking Shroud)</p> <p>F2TW3 : Twist Female, solder cup, fixed contacts. (Supplied with Twist Locking Shroud) (M2TW1 mates only with F2TW3 or F2TW1.) (F2TW1 mates only with M2TW3 or M2TW1.)</p>	<p><b>STEP 4: ENVIRONMENTAL COMPLIANCE OPTION</b> /AA : Compliance per EU Directive 2002/95/EC (RoHS) Example: BKC620M2T2P/AA. Note : If RoHS legislation is not required, this step will not be used. Example: BKC620M2T2P.</p>	<p><b>STEP 3: MOUNTING STYLES AND HOOD</b></p> <p>0 : None.</p> <p>P : Panel mount with jam nut and without flange. (Available in Front Mount version only)</p> <p>PF : Panel mount with Flange and without jam nut. (Available in Rear Mount version only)</p> <p>J : Hood.</p>
<p>Above views applicable for both BKC620 and BKC320 versions.</p>		

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