

# Connectors for Precision Perivascular Flowprobes for TS420 Flowmeters Modules

## 10-Pin Connectors

### CRA10 Redel Plastic Acute Connector



Standard for Acute Use (MA-) Probes: Plugs directly into flowmeter or extension cable. 10-pin; Probe ID eprom inside.

### CRS10 Redel Sealed Connector & Cap

10-pin Implantable plastic connector has conical threaded cap with suture hole for easy subcutaneous tunneling. Cap contains sealing gasket. Plugs directly into flowmeter or extension cable. Probe ID eprom inside.



Cap diameter: 15.3 mm  
Shank diameter: 11.1 mm  
Length: 40.3 mm

## 4-Pin Connectors

### CA4B & CA4S Micro 4-pin Connector



Diameter: 4.1 mm  
Height: 10 mm

**CA4B** (straight), **CA4S** (right angle): Minimal impact connectors, the 4-pins terminate the probe cable with a bare minimum of housing. Use with 4-pin extension cables. Comes with probe ID eprom key. CA4B (straight cable entry) can be threaded into spring stock for use with electrical swivels. CA4S connectors have a right angle cable entry and can be stabilized in the mid-scapular region with a rigid or silicone cuff. For rats and mice.

### CM4S & CM4B Mini Sealed Connector with Cap



Diameter: 8mm  
Hgt: 15mm

**CM4S** (right angle), **CM4B** (straight): Implantable plastic connectors come with a threaded cap with suture hole, sealing gasket, and probe ID eprom key. Use with 4-pin extension cables. CM4B has a straight cable entry to ease tunneling subcutaneously and can be stored in an animal jacket pocket when not in use. The CM4S connector has a right angle cable entry and is used with silicone or rigid cuffs to stabilize connector in mid-scapular region. Can be used for rats, rabbits, dogs and most small animal species.

## Skin Button Connectors

### CB12 Titanium Skin Button with Cap



CB12 open

For long term implantation. Available for any style perivascular probe including PAX-Series cardiac output probes. The probe ID eprom is integrated in the connector and there is no need for a separate eprom key. The connector comes with a flat Delrin cap. A pointed cap (CB-12-PC) can also be ordered separately. Use with 12-pin extension cables. For dogs, pigs and other large animals.



CB12 with flat cap

Cap diameter: 11.5 mm;  
Shank diameter: 9.4 mm;  
Total height: with cap: 21.5 mm  
Flange diameter: 18.3 mm

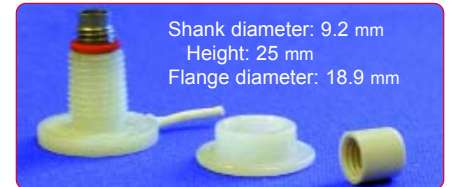
### CB4 Titanium Skin Button

For long term implantation. 4-pin connector comes with probe ID eprom key. Can be ordered with initial anchor cuff; special order. Use with 4-pin extension cables. For dogs & pigs. Not for use with PAX-Series probes.



Cap diameter: 8 mm  
Shank diameter: 7.2 mm  
Height: 24 mm  
Flange diameter: 15.9 mm

### CTSB4 Delrin Skin Button



Shank diameter: 9.2 mm  
Height: 25 mm  
Flange diameter: 18.9 mm

A low cost skin button with anchor flange made from Delrin plastic. 4-pin connector comes with probe ID eprom key. Use with 4-pin extension cables. For rabbits, dogs & similar species. Not for use with PAX-Series probes.

### PROBE ID KEY FOR TS420 FLOW MODULE

Flowprobes configured with 4-pin and skin button connectors require probe ID Keys. Probe scale, signal normalization and calibration gain are programmed into the serialized eprom key. Keys plug into a port on the TS420 module during probe use.



## ACCESSORIES FOR CHRONIC PROBE IMPLANTS

### SILICONE CUFFS FOR CM4S (# AAPC102); CA4S (# AAPC103)

Soft silicone cuffs for stabilizing mini connectors for short-term implant. Suture holes in base flange for attachment on top of skin. Supplied in packages of 10.



**AAPC102**  
Diameter: 18.9 mm  
Height: 5.4 mm  
**AAPC103**  
Diameter: 15 mm  
Height: 5.4 mm

### RIGID CUFF FOR CA4S CONNECTOR (# AAPC105)

Delrin cuff converts CA4S to a skin button for mice or rats. Four suture holes in corners; set screw to hold connector in place. Robust for long term or multiple use.



**DIMENSIONS**  
Diameter: 9 mm;  
Height: 3.7 mm

### RIGID CUFF FOR CM4S CONNECTOR (# AAPC104)

Delrin cuff converts CM4S mini-connector to a skin button for rats and rabbits. Suture holes for attachment on top of skin; set screw to hold connector in place. Robust for long-term or multiple use.



**DIMENSIONS:**  
Diameter: 19 mm  
Height: 7.1 mm