

## 5: Surface Mateable Coaxial Connectors (Metal Keyed / Rubber Keyed)



### HYB (Hydrobond Hybrid) and HRS (Hydrobond Rubber Sealing)

#### FEATURES

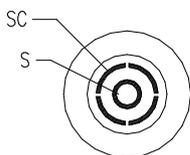
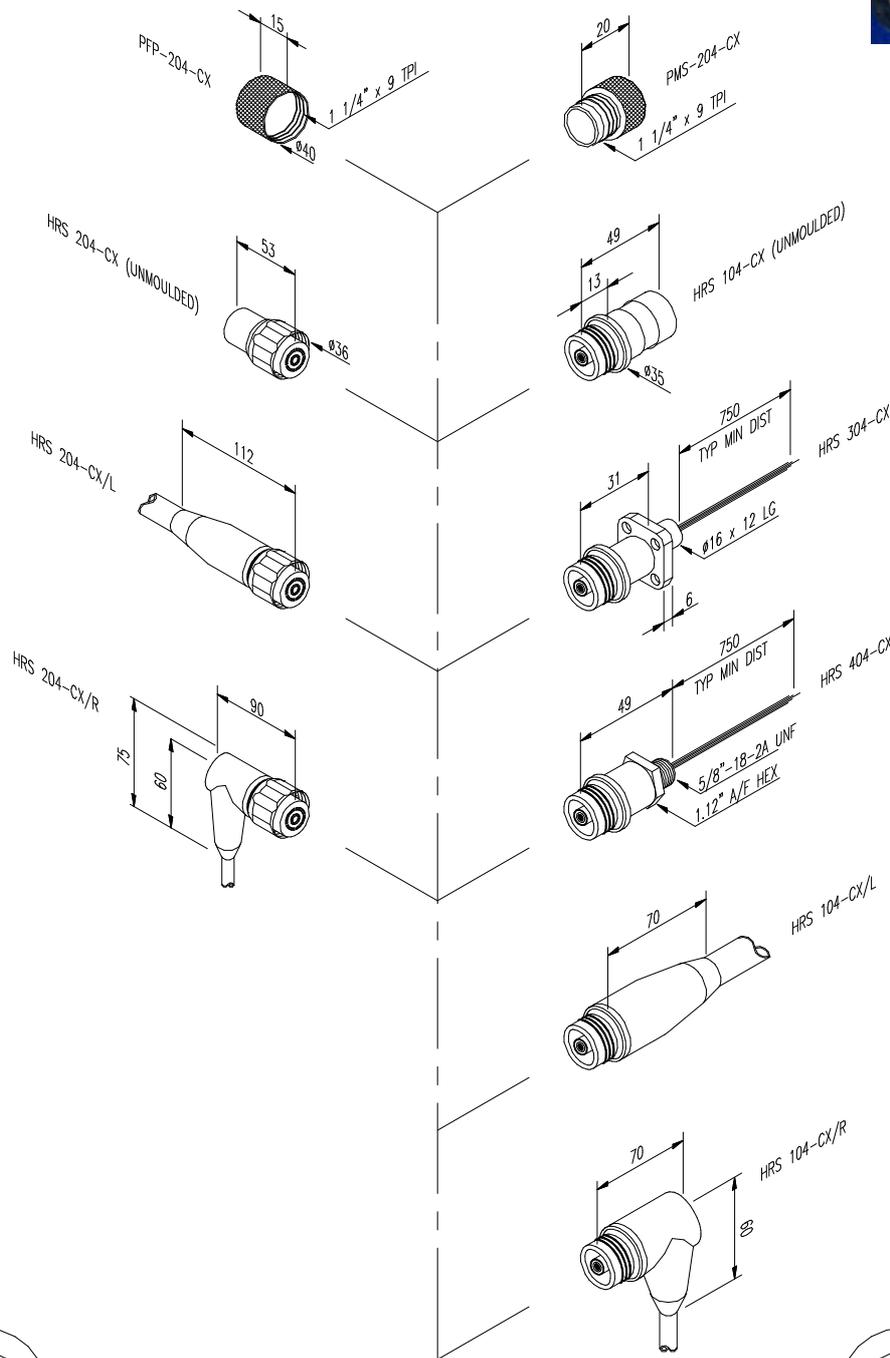
- Proven Shock Tested Design
- Metal Key provides positive scoop proof connection (HYB only)
- Fully pressure blocked 50-Ohm and 75-Ohm coaxial inserts (HYB only)
- Coaxial insert trace tested to 1.6 GHz
- HYB Type tested to 86 Bar open face pressure
- HRS Connectors Depth rated to 2,450 MSW mated
- Metal Shell Construction
- Available in 2 shell sizes
- Bulkhead Mount and Panel Mount Designs available as standard
- Mounting O – Ring seals and optional Barrel seals available as standard
- Coaxial densities up to 4 of 50-Ohm or 75-Ohm Coaxial paths
- Available in Nickel Aluminium Bronze or 316 Stainless Steel and Titanium etc on request
- 0.75 metre coaxial tails on all bulkhead connectors as standard with other lengths on request
- Optional Earth Bonding
- Optional Cathodic delamination version available
- Moulding options include Polyurethane and or Polyethylene

#### BENEFITS

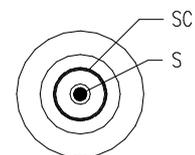
- Easy to use
- Proven Shock tested design
- 50-Ohm and 75-Ohm coaxial paths allow noise free high data rate transmission
- Wide variety of metal options allows for best corrosion resistant design



# HRS (Hydrobond Rubber Sealing) Surface Mateable Connector HRS\_04-CX (Coaxial)



FACE VIEW  
SOCKET CONNECTOR



FACE VIEW  
PIN CONNECTOR

### Electrical and Environmental:

Pin Current Rating: *N/A*  
 Pin Voltage Rating: *N/A*  
 Contact to Contact IR: >1,000 MOhms @ 1,000 V dc  
 Contact to Body IR: >1,000 MOhms @ 1,000 V dc  
 Mated Depth Rating: 2,440 MSW  
 Temperature Rating: -20 ° C to +60 ° C  
 Conductor Tail Size: 50 ? Ohm  
 Solder Bucket Size: *N/A*

### Standard Material Specification:

Body: 316 Stainless Steel  
 Fix Ring: Aluminium Silicon Bronze  
 Back Shell: *N/A*  
 Contact Pins: CZ121/Au  
 Contact Sockets: CZ121/Au  
 Insert Material: Neoprene  
 Conductor Tails: RG58 X 0.75 m.  
 O – Rings: NI70

### Data Sheet:

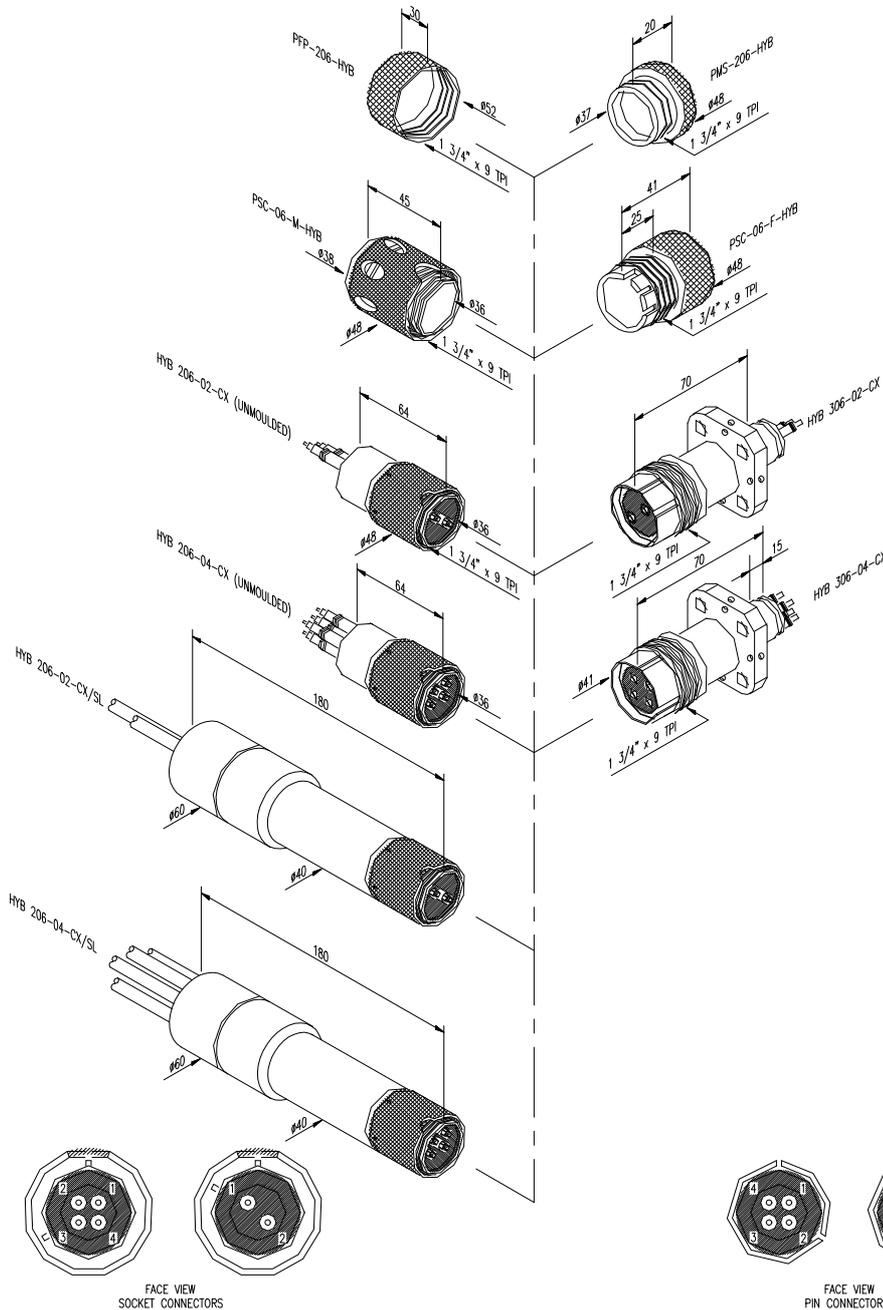
Issue: 01  
 Approved by:

### Mechanical:

Lengths = mm  
 Threads = Inches  
 Mounting Detail:  
 See Mounting Detail  
 Section of Binder



**HYB (Hydrobond Hybrid)  
Surface Mateable Coaxial Connector  
Metal Keyed  
HYB\_06-02CX, HYB\_06-04CX**



**Electrical and Environmental:**

Coax Impedance: *50 Ohm or 75 Ohm*  
 Coax Power Rating: *120 Watts*  
 Coax Frequency Rating: *1,600 MHz*  
 Contact to Contact IR: *>1,000 MOhms @ 1,000 V dc*  
 Contact to Body IR: *>1,000 MOhms @ 1,000 V dc*  
 Mated Depth Rating: *1,000 MSW*  
 Temperature Rating: *-20 ° C to +60 ° C*  
 Coax Tail Size: *Contact Office for full list*  
 Rear Coax connection: *To fit SMC Plug*

**Standard Material Specification:**

Body: *Aluminium Nickel Bronze*  
 Fixed Ring: *Aluminium Nickel Bronze*  
 Back Shell: *N/A*  
 Coax Pins: *BeCu/Au*  
 Coax Sockets: *BeCu/Au*  
 Insert Material: *Neoprene*  
 Conductor Tails: *1 metre standard*  
 O – Rings: *NI70*

**Data Sheet:**

*Issue: 02*  
**Approved by:**

**Mechanical:**

*Lengths = mm*  
*Threads = Inches*  
**Mounting Detail:**  
*See Mounting Detail Section of Binder*