

HS SERIES  
**DURA-PULL™**  
PUSH-PULL  
**CONNECTORS**



**Switchcraft®**  
**CONXALL®**

HARSH ENVIRONMENT CONNECTIVITY SOLUTIONS

Durable nickel plated brass housing is sealed to IP68



“Push-Pull” locking mechanism is easy to operate while eliminating accidental disconnection



Available with up to 9 contacts



Cable to cable in-line connector also available

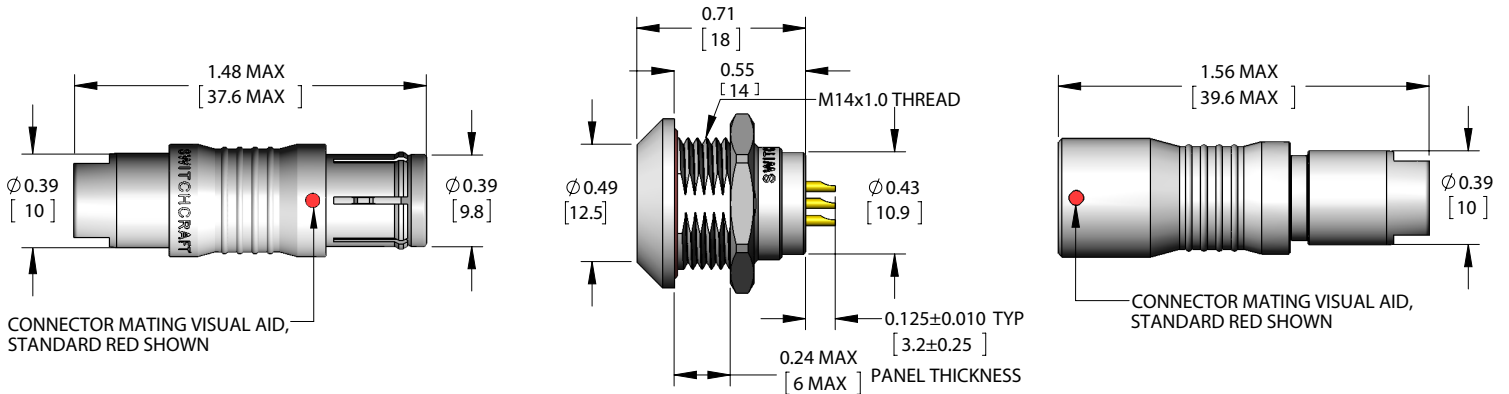
## FEATURES

- Easy, blind mating
- Compact, 1/2" connector size
- Waterproof to IP68
- Can withstand the temperature and pressurize of autoclave sterilization
- 360° EMI Shielding
- Available with #20 contacts or #26 contacts
- Flush mounting front mount panel connector
- Contacts can be soldered or crimped (shipped unassembled, assembly tools available)
- Three cable clamp sizes accommodate a wide range of cable diameters up to 5.5mm

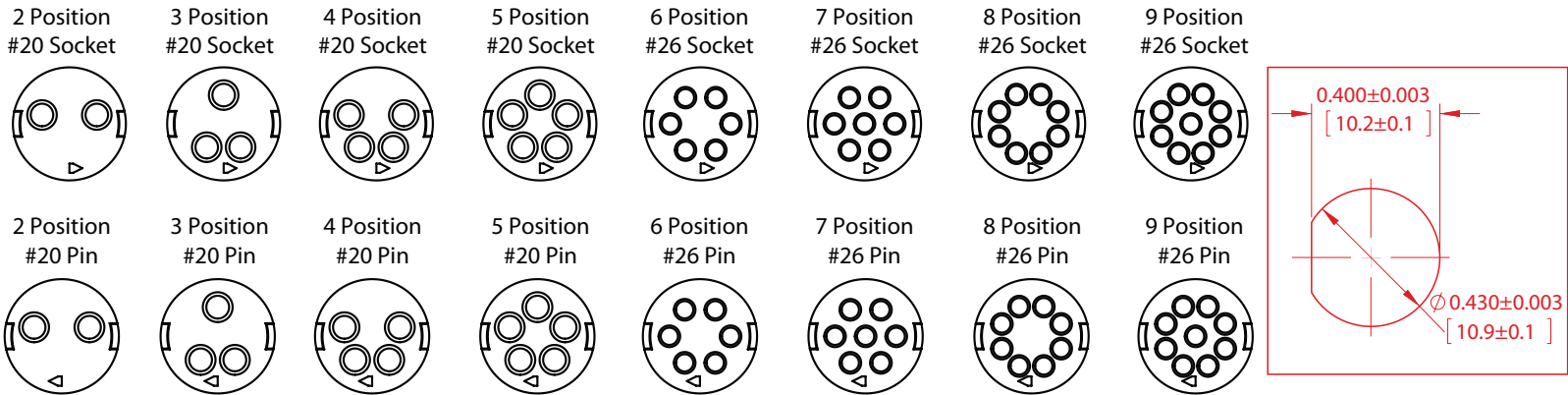
## APPLICATIONS

Medical devices  
Audio connections  
Outdoor data acquisition devices  
Test and Measurement  
Agriculture electronics  
Safety and Security  
Harsh environments  
General electronic applications

## OVERALL DIMENSIONS



## CONTACT LAYOUTS (REAR/WIRING SIDE) / RECOMMENDED PANEL CUTOUT



## ORDERING CODE

**HS2 X X X XX X - X**

HS2 Series

Connector Type:

- C - Cable-End
- P - Panel Mount
- L - Cable-to-Cable

# of contacts:

- 2-5 for #20
- 6-9 for #26

Gender:

- M - Male (Pin)
- F - Female (Socket)

Options:

- K - Kit Packaging (one unit/bag)
- A - Factory Installed Contacts
- [BLANK] - Bulk Packaging

Clamp Set per Cable O.D. Range for Cable-End and Cable-to-Cable only:

- A - 0.110 - 0.140 [2.8 - 3.6]
- B - 0.140 - 0.180 [3.6 - 4.6]
- C - 0.180 - 0.216 [4.6 - 5.5]

Contact Size:

- 20 - 20, 22, 24, 26 AWG wires
- 26 - 26, 28, 30 AWG wires

### Sealing Caps (Optional)

Cable End: **HS2CCAP**

Panel: **HS2PCAP**

Cable to Cable: **HS2LCAP**

## SPECIFICATIONS

### MECHANICAL:

Mating / Locking Type:	Push-Pull automatic locking/unlocking
Life:	5,000 cycles minimum
Operating Forces:	10 lb. [44.5 N] max. Insertion/Withdrawal
Vibration:	Mil-Std 202G Method 201A
Panel Hex Nut Tongue:	40 in-lb [4.5 Nm] maximum
Cable Securing System:	Threaded on metal clamp

### ELECTRICAL:

Voltage Rating:	125 V AC/DC for 2-5 contacts 30 V AC/DC for 6-9 contacts
Current Rating:	10A max for 2 position 2A max for 9 position Refer to website for detailed information
Insulation Resistance:	1000 MΩ minimum
Contact Resistance:	10 mΩ typical

### ENVIRONMENTAL:

Temperature Limits:	-40°C to +135°C (-40°F to +275°F)
Operating Temperature:	Refer to website for detailed information
Moisture Resistance:	Mil-Std 202G Method 106G
Insulation Resistance:	Mil-Std 202G Method 302
Thermal Shock:	Mil-Std 202G Method 107G
Salt Atmosphere :	Mil-Std 202G Method 101E
Ingress Protection :	IP66, IP67, IP68 per IEC60529, NEMA 250 6P

### MATERIAL:

Outer Shell:	Copper Alloy, electroless nickel plated
Hex Nut:	Copper Alloy, nickel plated
Interior Metal Components:	Copper Alloy, nickel plated
Ground Spring Washer:	Stainless Steel
Electrical Insulator:	Medical Technology LCP, natural
Seal O-rings:	Silicone, red
Contacts:	Copper Alloy, gold plated