HS SERIES
DURA-PULL™
PUSH-PULL
CONNECTORS

Switchcraft
CONXALL®
MADE IN THE U.S.A.
HARSH ENVIRONMENT CONNECTIVITY SOLUTIONS
HS Series Dura-Pull™ Push Pull Connectors

**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
HS Series Dura-Pull™ Push Pull Connectors

OVERALL DIMENSIONS

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

ORDERING CODE

HS2 XXX XXXX - 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

Sealing Caps (Optional)
Cable End: HS2CCAP
Panel: HS2PCAP
Cable to Cable: HS2LCAP

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 - 0.150 (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

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

VISIT WWW.SWITCHCRAFT.COM FOR THE MOST UP-TO-DATE PRODUCT SPECIFICATIONS
# 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:** -40ºC to +135ºC (-40ºF to +275ºF)
- **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