

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

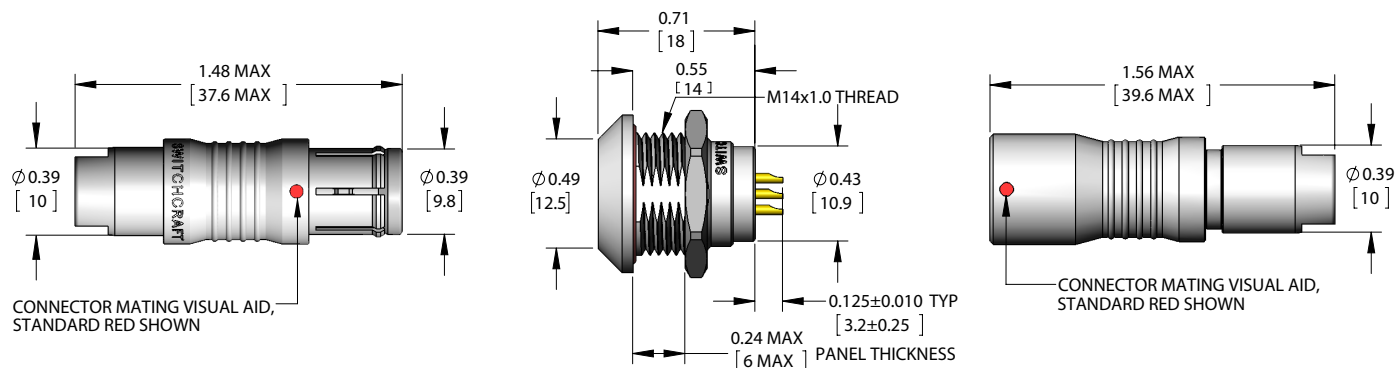
- Easy, blind mating
- Compact, 1/2" connector size
- Waterproof to IP68
- 360 ° EMI Shielding
- Available with #20 contacts or #26 contacts
- Flush mounting front mount panel connector
- Contacts can be soldered or crimped (shipped unassembled, assembly tools available)
- Optional IP68 sealed caps available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

APPLICATIONS

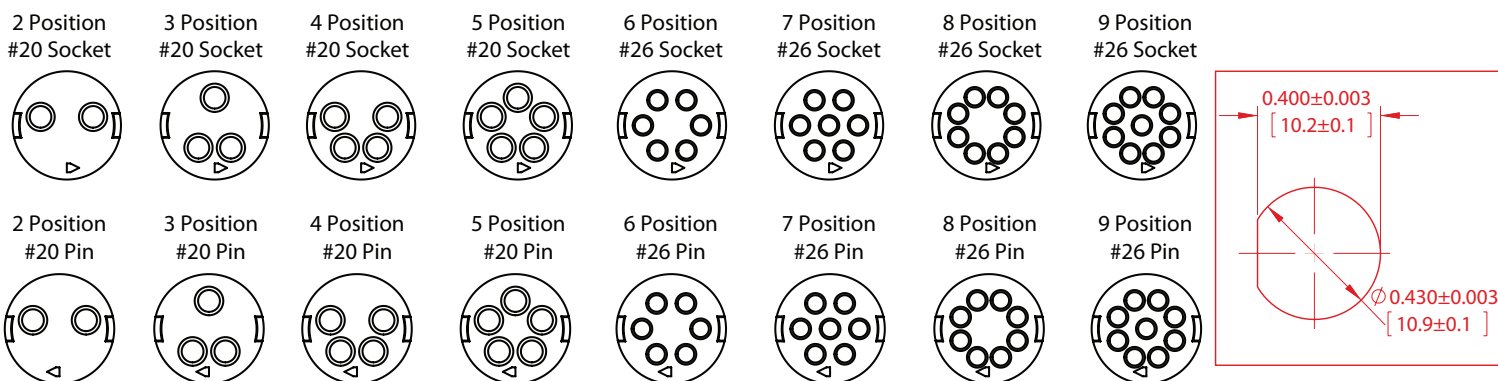
Medical devices
Audio connections
Outdoor data acquisition devices
Test and Measurement
Agriculture electronics
Safety and Security
Harsh environments
General electronic applications



OVERALL DIMENSIONS



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



ORDERING CODE

HS2 X X X XX X - X

HS2Series

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:

B - Rear Mount (panel only)
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



Mouser Electronics

Authorized Distributor

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[HS2C4M20C](#)