

TS SERIES
DURA-TWIST®
THREADED LOCKING
CONNECTORS



Switchcraft®
CONXALL®

HARSH ENVIRONMENT CONNECTIVITY SOLUTIONS

Durable nickel plated brass housing is sealed to IP68



Threaded locking mechanism for a secure and easy connection

Available with up to 9 contacts



Rear or front mounting options available on panel mounts



Cable to cable in-line connector also available

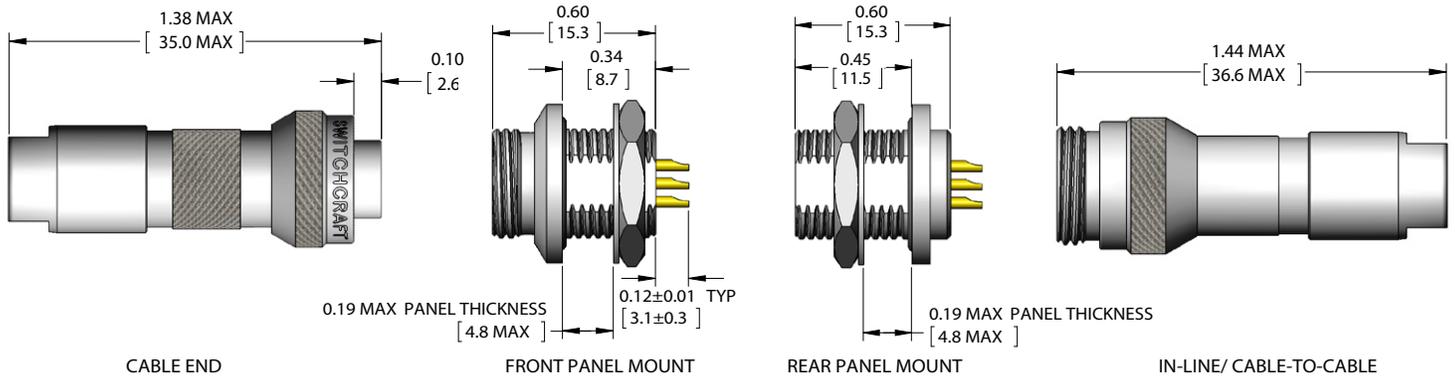
FEATURES

- Easy, blind mating
- Compact, 1/2" connector size
- Waterproof to IP68
- Can withstand the temperature and pressure of autoclave sterilization
- 360° EMI Shielding
- Available with #20 contacts or #26 contacts
- Rear mount or front mount panels available
- Contacts can be soldered or crimped (shipped unassembled, assembly tools available)
- Factory molded cables available with straight or right angle cable end options

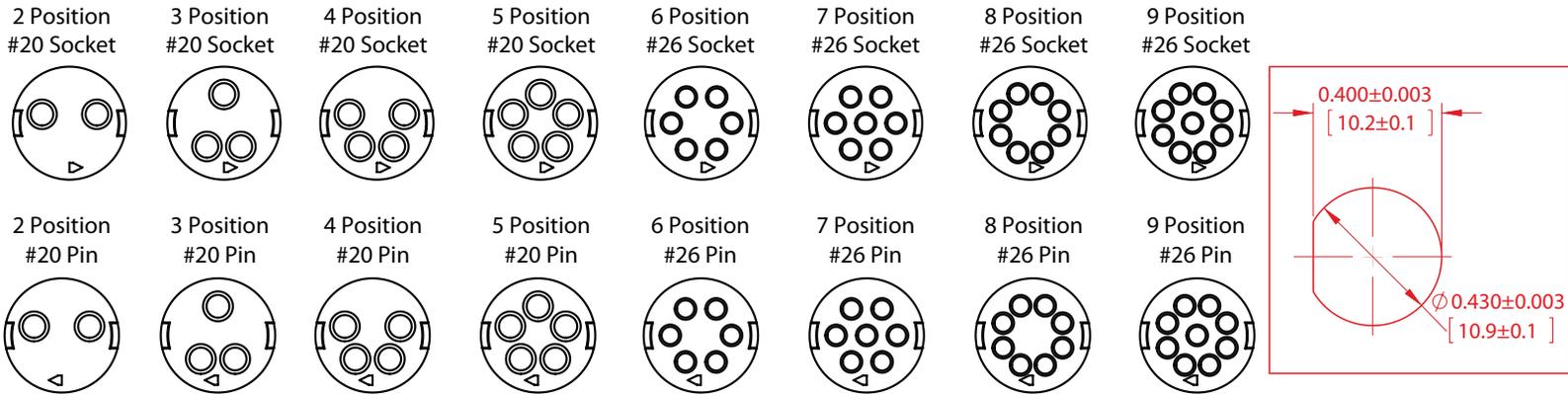
APPLICATIONS

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

TS2 X X X XX X - X

TS2 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:

- 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: **TS2CCAP**

Panel: **TS2PCAP**

Cable to Cable: **TS2LCAP**

SPECIFICATIONS

MECHANICAL:

Mating / Locking Type:	Threaded Coupling
Life:	5,000 cycles minimum
Operating Forces:	10 lb. [44.5 N] max. insertion/withdrawal
Vibration:	Mil-Std 202G Method 201A
Panel Hex Nut Torque:	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
Hardware:	Copper alloy, nickel plated
Interior Metal Components:	Copper alloy, nickel plated
Electrical Insulator:	LCP, natural
Seal O-rings:	Thermoplastic elastomer
Contacts:	Copper Alloy, gold plated, with stainless steel locking clip