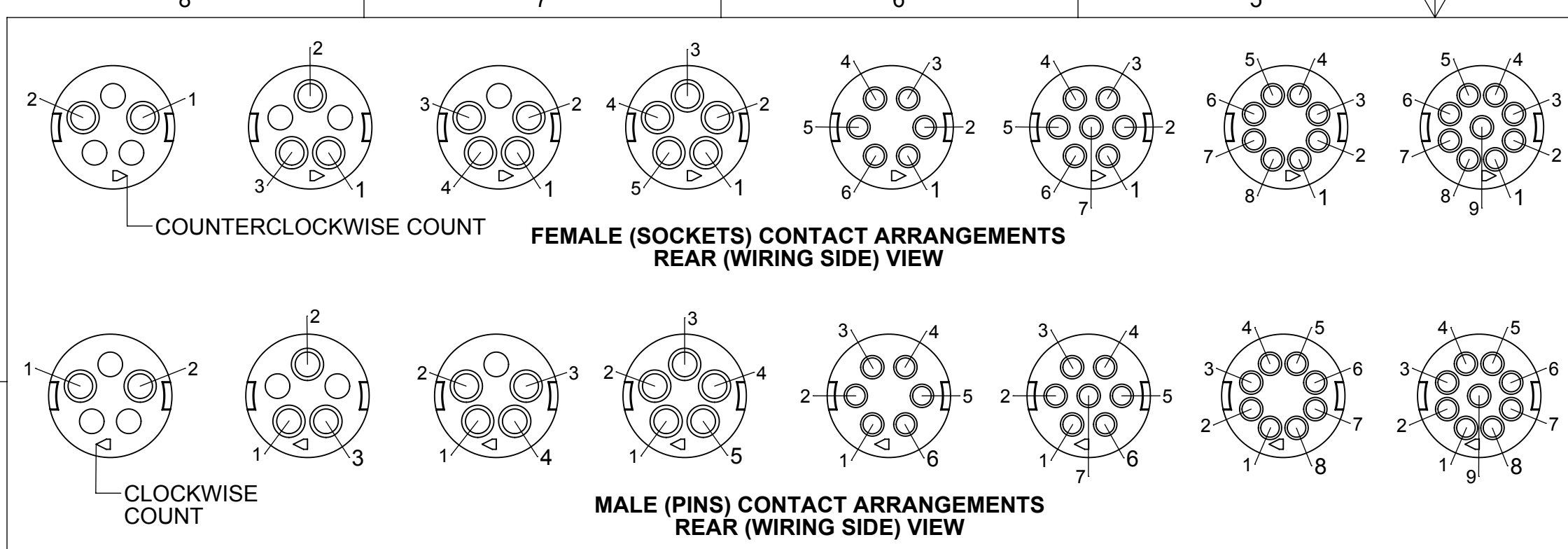


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**HS2 P 7 F 20 - K**

Dura-Pull Series

Connector Type:  
**C** - Cable-End  
**P** - Panel, Front-Mount  
**L** - Cable-to-Cable

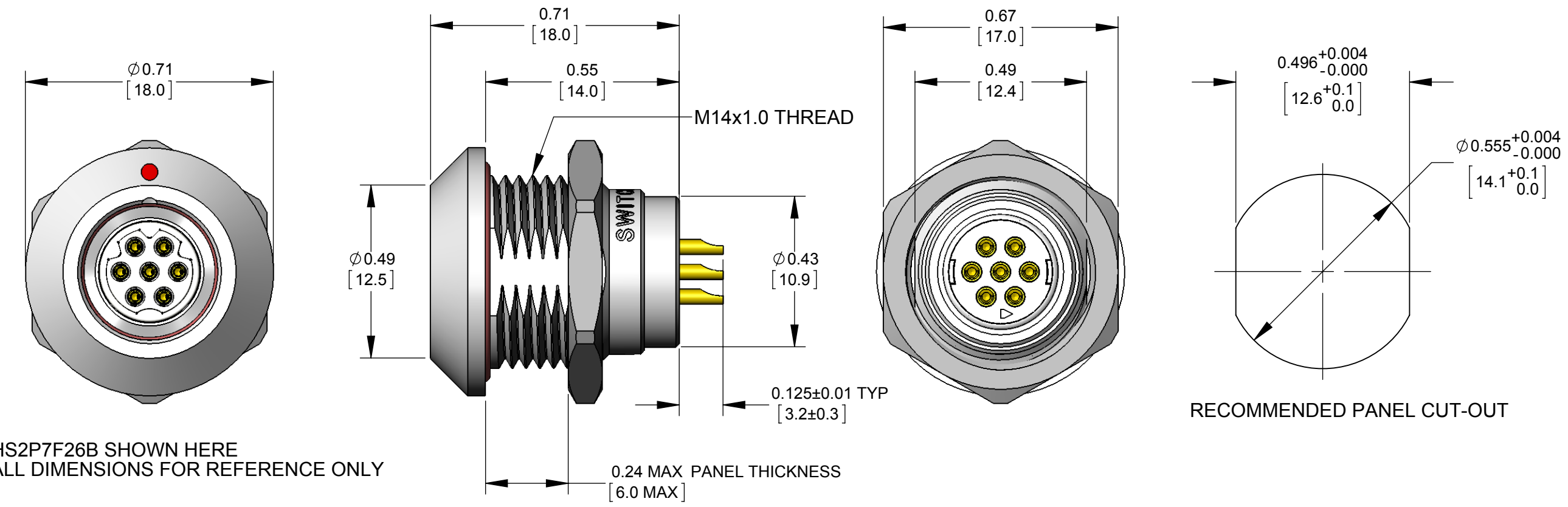
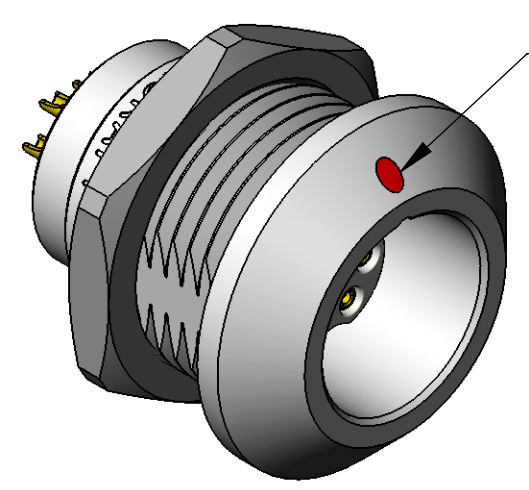
# of contacts:  
**2-5** for #20  
**6-9** for #26

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

Options:  
**K** - Kit Packaging (one unit/bag)  
**[blank]** - Bulk Packaging  
 Consult factory for other options

Contact Size:  
**20** - 20, 22, 24, 26 AWG wires  
**26** - 26, 28, 30 AWG wires

Refer to HS2C SERIES drawing for mating Cable-End connectors.  
 Refer to HS2L SERIES drawing for mating Cable-to-Cable connectors.



HS2P7F26B SHOWN HERE  
 ALL DIMENSIONS FOR REFERENCE ONLY

| SPECIFICATIONS:                  |   |
|----------------------------------|---|
| <b>MECHANICAL</b>                |   |
| Mating / Locking Type:           | Push-Pull automatic locking/unlocking   |
| Life                             | 5,000 cycles minimum  |
| Operating Forces                 | 10 lb. [44.5 N] maximum Insertion or Withdrawal                                     |
| Vibration                        | Mil-Std 202G Method 201A  |
| Panel-Mount Hex Nut Tongue       | 40 in-lb [4.5 Nm] maximum   |
| Cable Securing System:           | Threaded on metal Clamp   |
| <b>ELECTRICAL</b>                |   |
| Voltage Rating                   | 125 V AC/DC for 2-5 contact arrangements<br>30 V AC/DC for 6-9 contact arrangements |
| Current Rating                   | Refer to Current Carry Capacity Table   |
| Insulation Resistance            | 1000 MΩ minimum   |
| Contact Resistance               | 10 mΩ typical   |
| EMI Shielding                    | 360°  |
| <b>ENVIRONMENTAL</b>             |   |
| Temperature Limits               | -40°C to +135°C (-40°F to +275°F)   |
| Operating Temperature Range      | Refer to Current Carry Capacity Table   |
| Moisture Resistance              | Mil-Std 202G Method 106G  |
| Insulation Resistance            | Mil-Std 202G Method 302   |
| Thermal Shock                    | Mil-Std 202G Method 107G  |
| Salt Atmosphere (Corrosion)      | Mil-Std 202G Method 101E  |
| Ingress Protection Ratings       | IP66, IP67, IP68 (6 ft. for 24 hours) per IEC60529, NEMA 250 6P                     |
| <b>MATERIAL</b>                  |   |
| Outer Shell Metal components     | Copper Alloy, electroless nickel plated   |
| Hex Nut & Inner 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   |

| Contacts | Wire (awg) | Current Rating (A) at Operating Temperature (°C) |           |           |            |            | Minimum Test Voltage (V rms) | Voltage (V rms) tested per UL2238 |
|----------|------------|--|-----------|-----------|------------|------------|------------------------------|-----------------------------------|
|          |            | 45°C max.  | 65°C max. | 85°C max. | 100°C max. | 110°C max. |                              |                                   |
| 2 #20    | 20         | 10   | 9         | 8         | 7*         | 6          | 1400                         | 125                               |
|          | 22         | 8.5  | 7.5       | 7.5       | 5.5*       | 4.5        |                              |                                   |
|          | 24         | 7  | 6         | 5         | 4.5*       | 3.5        |                              |                                   |
|          | 26         | 4  | 4         | 3.5       | 3.5*       | 2.5        |                              |                                   |
| 3 #20    | 20         | 9.5  | 8.5       | 7.5       | 6.5*       | 5          |                              |                                   |
|          | 22         | 8  | 7         | 6         | 5*         | 4          |                              |                                   |
|          | 24         | 6  | 5.5       | 4.5       | 4*         | 3          |                              |                                   |
|          | 26         | 3.5  | 3.5       | 3         | 3*         | 2.5        |                              |                                   |
| 4 #20    | 20         | 9  | 8         | 7         | 6*         | 5          |                              |                                   |
|          | 22         | 7.5  | 6.5       | 5.5       | 4.5*       | 3.5        |                              |                                   |
|          | 24         | 5  | 4.5       | 4         | 3.5*       | 2.5        |                              |                                   |
|          | 26         | 3  | 3         | 2.5       | 2.5*       | 2          |                              |                                   |
| 5 #20    | 20         | 8  | 7.5       | 6.5       | 5.5*       | 4.5        |                              |                                   |
|          | 22         | 6.5  | 5.5       | 5         | 4*         | 3          |                              |                                   |
|          | 24         | 4.5  | 4         | 3.5       | 3*         | 2.5        |                              |                                   |
|          | 26         | 2.5  | 2.5       | 2         | 2*         | 1.5        |                              |                                   |
| 6-7 #26  | 26         | 2.5  | 2.5       | 2         | 2*         | 1.5        |                              |                                   |
|          | 28         | 2  | 2         | 1.5       | 1.5*       | 1          |                              |                                   |
|          | 30         | 1.5  | 1.5       | 1         | 1*         | .5         |                              |                                   |
|          | 26         | 2  | 2         | 1.5       | 1.5*       | 1          |                              |                                   |
| 8-9 #26  | 28         | 1.5  | 1.5       | 1         | 1*         | .5         |                              |                                   |
|          | 30         | 1  | 1         | .5        | .5*        | .5         |                              |                                   |

\*Temperature Rise does not exceed 30°C when tested according to UL2238. All other recommended current ratings are based on the Relative Thermal Index of the insulating material.

**PRELIMINARY**

| TOOL       | TOOL TYPE                        | POSITIONER | CONTACT SIZE | WIRE SIZES             |
|------------|----------------------------------|------------|--------------|------------------------|
| EN3CR      | HAND CRIMP TOOL                  | EN2POS20   | 20 and 22    | 20 and 22 AWG          |
| EN3CRAUTO  | PNEUMATIC CRIMP TOOL             | EN3POS26   | 26           | 26, 28, and 30 AWG     |
|            |                                  | EN2POS20   | 20 and 22    | 20 and 22 AWG          |
| EN2CRL     | HAND CRIMP TOOL LARGE FRAME      | EN3POS26   | 26           | 26, 28, and 30 AWG     |
|            |                                  | EN2POS20L  | 20 and 22    | 20, 22, 24, and 26 AWG |
| EN2CRAUTOL | PNEUMATIC CRIMP TOOL LARGE FRAME |            |              |                        |
| EN3INS20   | CONTACT INSERTION                | --         | 20 and 22    | 20, 22, 24, and 26 AWG |
| EN3INS26   | CONTACT INSERTION                | --         | 26           | 26, 28, and 30 AWG     |
| REMT00L20  | CONTACT EXTRACTION               | --         | 20           | 20, 22, 24, and 26 AWG |
| REMT00L26  | CONTACT EXTRACTION               | --         | 26           | 26, 28, and 30 AWG     |

| REV | ECO NUMBER  | DATE     | BY  | APVD |
|-----|-------------|----------|-----|------|
| 0A  | PRELIMINARY | 01/06/16 | PNK | SRC  |

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UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS IN INCHES [mm]  
 - TWO PLACE DECIMALS ±0.02 [0.5]  
 - THREE PLACE DECIMALS ±0.005 [0.13]

SIZE WIDTH MULT LBS/M TEMPER

FINISH SPEC No. MATERIAL SPEC No.

FIRST USED ON SCALE 3:1

DATE DRAWN BY CHKD APVD  
 01/06/16 PNK 01/06/16 01/06/16

NAME CABLE-END PART No. HS2 SERIES CONNECTOR HS2C SERIES REV 0A

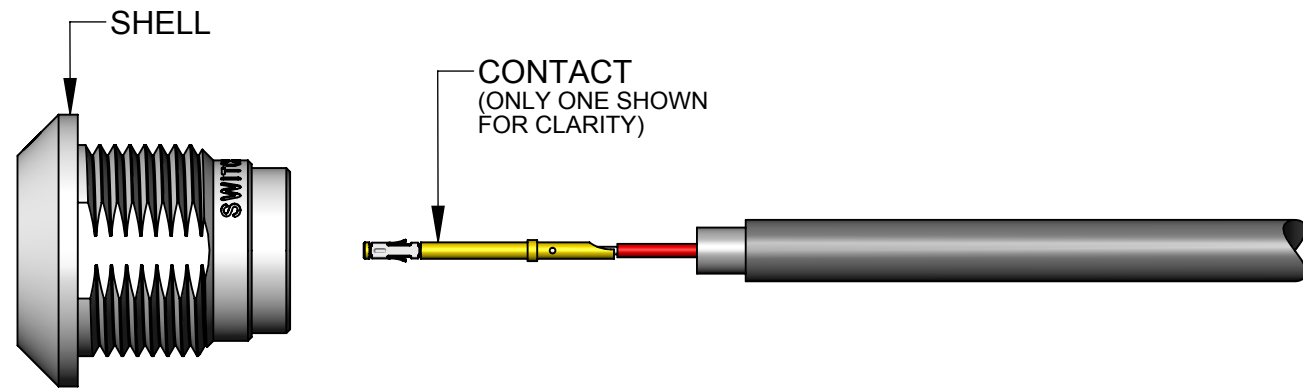
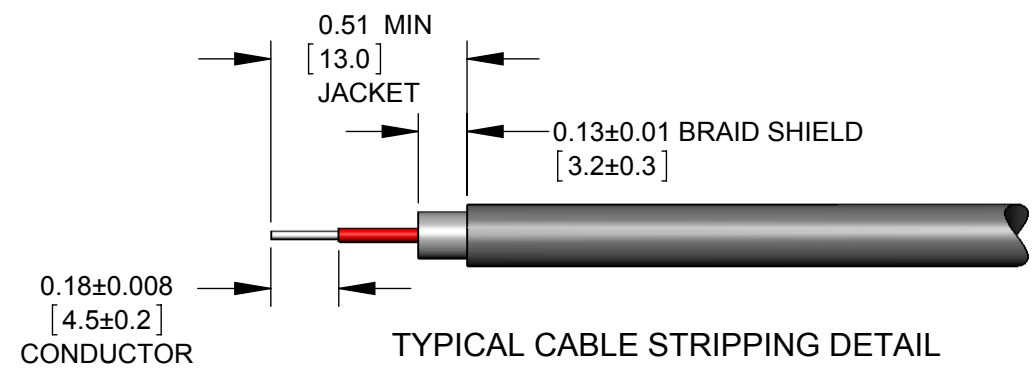
DO NOT SCALE DRAWING

SolidWorks CAD File

**CUSTOMER DRAWING**

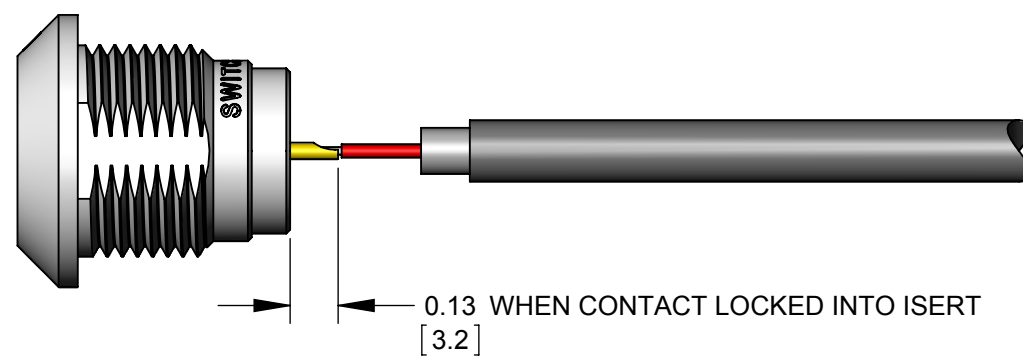
# HS2 SERIES PANEL-MOUNT FIELD ASSEMBLY INSTRUCTIONS:

1. STRIP THE CABLE END AND THE CONDUCTORS AS SHOWN HERE.

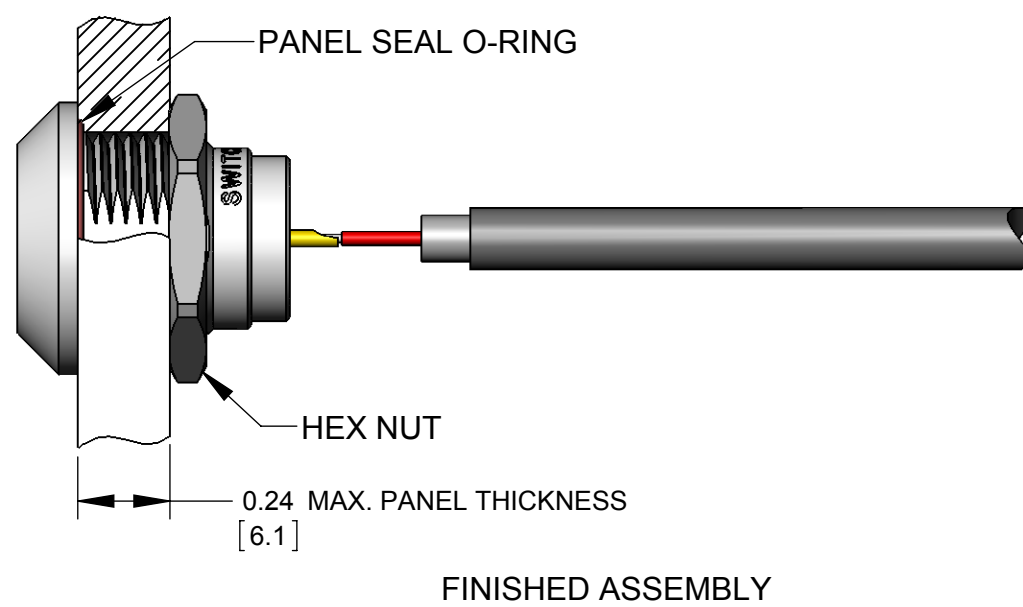


2. CRIMP CONDUCTORS TO CONTACTS USING HAND OR PNEUMATIC CRIMP TOOL\* WITH CRIMP POSITIONER\* SET PER CONTACT SIZE AND WIRE GAGE. IF SOLDERING, IT IS RECOMMENDED TO SOLDER CONDUCTORS TO CONTACTS BEFORE INSERTING THEM INTO INSERT.

3. GUIDE EACH WIRED CONTACT INTO INSERT HOLE AND PUSH UNTIL CONTACT SNAPS IN PLACE. USE INSERTION TOOL\* IF NECESSARY. COLORED CONDUCTORS CAN BE ASSIGNED TO CONTACT POSITION NUMBERS AS DESIRED. TO REMOVE A CONTACT, INSERT THE EXTRACTION TOOL\* FROM THE FRONT OF INSERT AND LIGHTLY PRESS THE SPRING LOADED PLUNGER INWARD TO PUSH THE CONTACT OUT.



6. ALIGN AND INSTALL FINISHED CONNECTOR INTO PANEL CUT-OUT. TIGHTEN HEX NUT TO A MAXIMUM OF 40 IN-LB [4.5 Nm].



\*REFER TO TOOLS TABLE ON THIS DRAWING FOR SELECTION OF TOOLS PER CONTACT AND WIRE SIZE.

|                        |                            |           |
|------------------------|----------------------------|-----------|
| SCALE<br>2:1           | Switchcraft®               |           |
| DATE DRAWN<br>01/06/16 |                            |           |
| DRAWN BY<br>PNK        | PART No.<br>HS2P SERIES_CD | REV<br>0A |