

TS2 L 7 M 26 B - K Options: **K** - Kit Packaging (one unit/bag)

[blank] - Bulk Packaging

Consult factory for other options TS2 Series-Connector Type:

L - Cable-to-Cable 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] # of contacts:-**2-5** for #20 **6-9** for #26 Contact Size: **20** - 20, 22, 24, 26 AWG wires **26** - 26,28, 30 AWG wires Gender: M - Male (Pin) F - Female (Socket) Refer to TS2P SERIES drawing for Panel-mount connectors. Refer to TS2C SERIES drawing for mating Cable-End connectors.

|                                  | SPECIFICATIONS:   |  |  |  |  |  |  |  |
|----------------------------------|---|--|--|--|--|--|--|--|
| MECHANICAL                       |   |  |  |  |  |  |  |  |
| Mating / Locking Type:           | Threaded Coupling   |  |  |  |  |  |  |  |
| 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   |  |  |  |  |  |  |  |
| ELECTRICAL                       |   |  |  |  |  |  |  |  |
| Voltage Rating                   | 125 V AC/DC for 2-5 contact arrangements                        |  |  |  |  |  |  |  |
|                                  | 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°  |  |  |  |  |  |  |  |
| ENVIRONMENTAL                    |   |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |
| MATERIAL                         |   |  |  |  |  |  |  |  |
| Outer Shell Metal components     | Copper Alloy, electroless nickel plated                         |  |  |  |  |  |  |  |
| Hex Nut & Inner Metal components | Copper Alloy, nickel plated                                     |  |  |  |  |  |  |  |
| Electrical Insulator             | Medical Technology LCP, natural                                 |  |  |  |  |  |  |  |
| Seal O-rings                     | Thermoplastic Elastomer   |  |  |  |  |  |  |  |
| Contacts Assembly                | Copper Alloy, gold plated with Stainless Steel locking clip     |  |  |  |  |  |  |  |

| Contacts | Wire<br>(awg) | Curre              | Minimum<br>Test<br>Voltage | Voltage<br>(V rms)<br>tested per |            |         |        |     |  |
|----------|---------------|--------------------|----------------------------|----------------------------------|------------|---------|--------|-----|--|
|          |               | 45°C max.          | 65°C max.                  | 85°C max.                        | 110°C max. | (V rms) | UL2238 |     |  |
|          | 20            | 10                 | 9                          | 8                                | 7*         | 6       |        |     |  |
| 2 #20    | 22            | 8.5                | 7.5                        | 7.5                              | 5.5*       | 4.5     |        |     |  |
| 2 #20    | 24            | 7                  | 6                          | 5                                | 4.5*       | 3.5     |        |     |  |
|          | 26            | 4                  | 4 3.5                      |                                  | 3.5*       | 2.5     |        | 1   |  |
|          | 20            | 9.5                | 8.5                        | 7.5                              | 6.5*       | 5       |        |     |  |
| 3 #20    | 22            | 8                  | 7                          | 6                                | 5*         | 4       |        |     |  |
| 3 #20    | 24            | 6                  | 5.5                        | 4.5                              | 4*         | 3       |        | 125 |  |
|          | 26            | 3.5                | 3.5                        | 3                                | 3*         | 2.5     | 1300   |     |  |
|          | 20            | 9                  | 8                          | 7                                | 6*         | 5       | 1300   |     |  |
| 4 #20    | 22            | 7.5                | 6.5                        | 5.5                              | 4.5*       | 3.5     |        |     |  |
| 4 #20    | 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 1* .5    |         | 1000   | 30  |  |
| 8-9 #26  | 26            | 2                  | 2                          | 1.5                              | 1.5*       | 1       | 1000   | 30  |  |
|          | 28            | 1.5                | 1.5                        | 1                                | 1*         | .5      |        |     |  |
|          | 30            | 1<br>does not exce | 1                          | .5                               | .5*        | .5      |        |     |  |

## **CUSTOMER DRAWING**

|    |                |          |     |      |                                       | THIS DRAWING DESCRIBES A DESIGN CONSIDERED PROPRIETARY IN NATURE, DEVELOPED AND MANUFACTURED BY SWITCHCRAFT INC. AND IS RELEASED ON A CONFIDENTIAL BASIS FOR IDENTIFICATION PURPOSES ONLY. |      |          |               |          |         |      |      |     |
|----|----------------|----------|-----|------|---------------------------------------|--|------|----------|---------------|----------|---------|------|------|-----|
|    |                |          |     |      | UNLESS OTHERWISE SPECIFIED            | SIZE   | W    | VIDTH    | MULT          | L        | BS/M    | TEI  | MPER |     |
|    |                |          |     |      | 1. ALL DIMENSIONS IN INCHES [mm]      | FINISH   |      |          |               | MATERIAL |         |      |      |     |
|    |                |          |     |      | - TWO PLACE DECIMALS ±0.02 [0.5]      | SPEC No.   |      |          |               | SPEC No. |         |      |      |     |
|    |                |          |     |      | 1110 1 E/ (CE DECIM// (E) 10.02 [0.0] | FIRST USED ON SCALE 3:1  |      |          |               |          |         |      |      |     |
|    |                |          |     |      | - THREE PLACE DECIMALS ±0.005 [0.13]  |  |      |          | - Smilehere F |          |         |      |      |     |
| 0B | 10 lb WAS 5 lb | 09/22/16 | PNK | SRC  |                                       | DATE DRAWN   | BY   | CHKD     | APVD          |          |         |      | rāl  |     |
| -  |                |          |     |      |                                       | 0.4/00/40  |      | PNK      | SRC           |          |         |      |      |     |
| 0A | PRELIMINARY    | 04/20/16 | PNK | SRC  |                                       | 04/20/16   | PNK  | 04/20/16 | 04/20/16      | 5        | SHEET ' | OF   | 2    |     |
| EV | ECO NUMBER     | DATE     | BY  | APVD |                                       | NAME C   | ABLI | E-TO-CAI | BLE           | PART No. |         |      |      | REV |
|    | REVISIO        | DNS      |     |      | DO NOT SCALE DRAWING                  | TS2 S  | ERIE | ES CONN  | IECTOR        | TS       | 32L SEF | RIES |      | 0E  |

7

26

6

26, 28, and 30 AWG

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SolidWorks CAD File C

Downloaded from Arrow.com.

REMTOOL26

Α

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Ε

D

С

