



TS2 P 7 F 26 - BPEK

TS2 Series
 Connector Type:
P - Panel, Front-Mount
F - Panel, Rear-Mount

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

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

Options:
B - Panel, Rear-Mount
P - PC Contacts, straight tails
E - Epoxy seal
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 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 |
| Epoxy | Silicone Potting Compound |



| 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 | 1300 | 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 | | |
| | 26 | 2 | 2 | 1.5 | 1.5* | 1 | | |
| | 28 | 1.5 | 1.5 | 1 | 1* | .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.

ALL DIMENSIONS FOR REFERENCE ONLY

CUSTOMER DRAWING

| | | | | | | | | | |
|--------------------------------------|-------------|----------|-----|------|--|-------|------------------|----------|--------------|
| UNLESS OTHERWISE SPECIFIED | | | | | 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. | | | | |
| 1. ALL DIMENSIONS IN INCHES [mm] | | | | | SIZE | WIDTH | MULT | LBS/M | TEMPER |
| - TWO PLACE DECIMALS ±0.02 [0.5] | | | | | FINISH | | MATERIAL | | |
| - THREE PLACE DECIMALS ±0.005 [0.13] | | | | | SPEC No. | | SPEC No. | | |
| | | | | | FIRST USED ON | | SCALE | | |
| | | | | | | | 3:1 | | |
| 0A | PRELIMINARY | 11/09/16 | PNK | SRC | DATE DRAWN | BY | CHKD | APVD | Switchcraft® |
| REV | ECO NUMBER | DATE | BY | APVD | 11/09/16 | PNK | 11/09/16 | 11/09/16 | |
| REVISIONS | | | | | NAME | | PART No. | | REV |
| DO NOT SCALE DRAWING | | | | | PC, REAR PANEL-MOUNT | | TS2P_-BPE SERIES | | 0A |
| | | | | | TS2 SERIES CONNECTOR, RoHS | | | | |



2 - 5 #20 PIN ARRANGEMENTS
 #20 PC TAIL DIA.: 0.039±0.001
 RECOMMENDED PCB HOLE SIZE: 0.046±0.001 [1.17±0.03]



6 - 9 #26 PIN ARRANGEMENTS
 #26 PC TAIL DIA.: 0.020±0.001
 RECOMMENDED PCB HOLE SIZE: 0.026±0.001 [0.66±0.03]

| | | |
|------------------------|---------------------------------|-----------|
| SCALE 3:1 | Switchcraft® | |
| DATE DRAWN 11/09/16 | | |
| DRAWN BY PNK | PART No. TS2P_-BPE SERIES_CD | REV 0A |

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