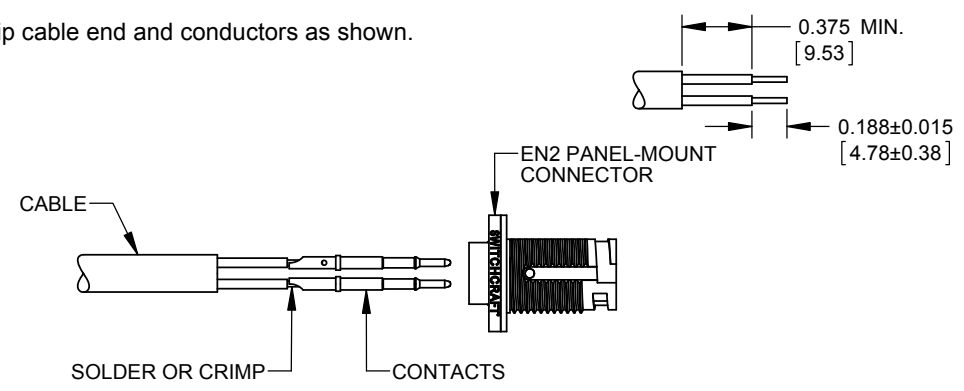


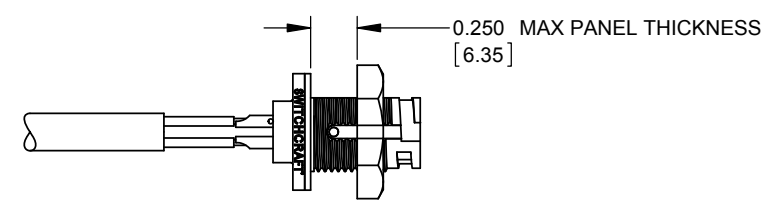
CONTACT ARRANGEMENTS
PANEL CONNECTOR REAR (WIRING SIDE) VIEW

EN2 PANEL CONNECTOR FIELD ASSEMBLY INSTRUCTIONS:

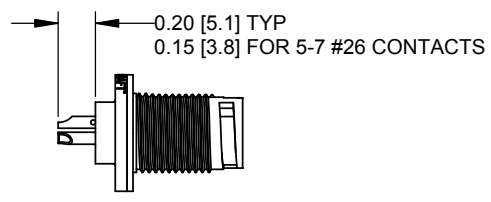
Strip cable end and conductors as shown.



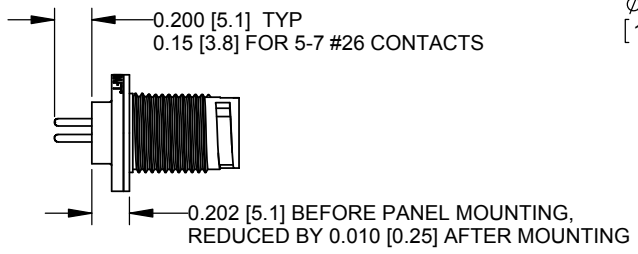
D Soldering or crimping conductors to contacts is recommended before insertion into connector. If crimping, use hand or pneumatic crimp tool with crimp positioner per contact size. If soldering after contacts are inserted in the connector, limit exposure of contacts to soldering iron temperature to 4 sec. maximum. Soldering iron temperature should not exceed 650°F (343°C).



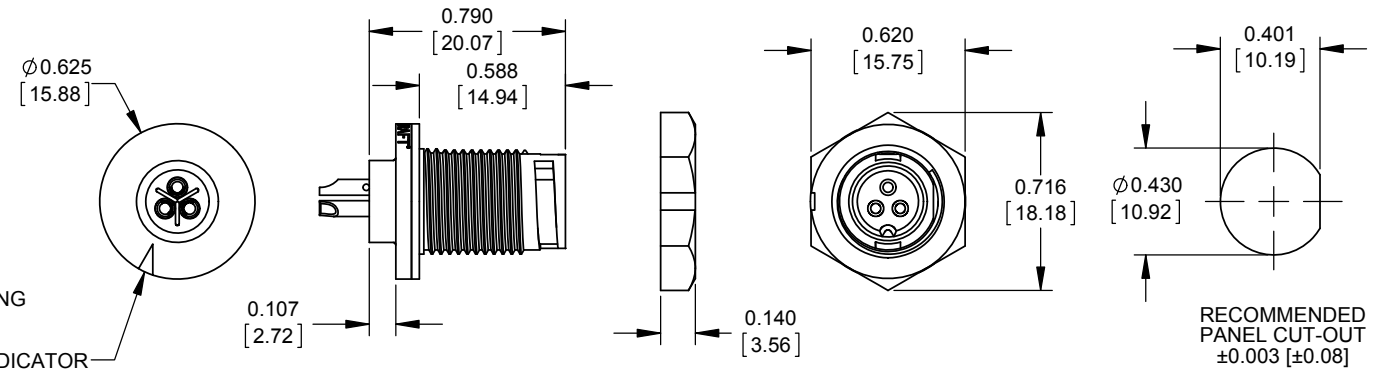
Insert wired contacts into connector housing using an insertion tool and per contacts arrangements. Align and install connector into panel cut-out. Tighten hex nut 5 -6 in-lb.



SOLDER OR CRIMP TYPE CONTACTS



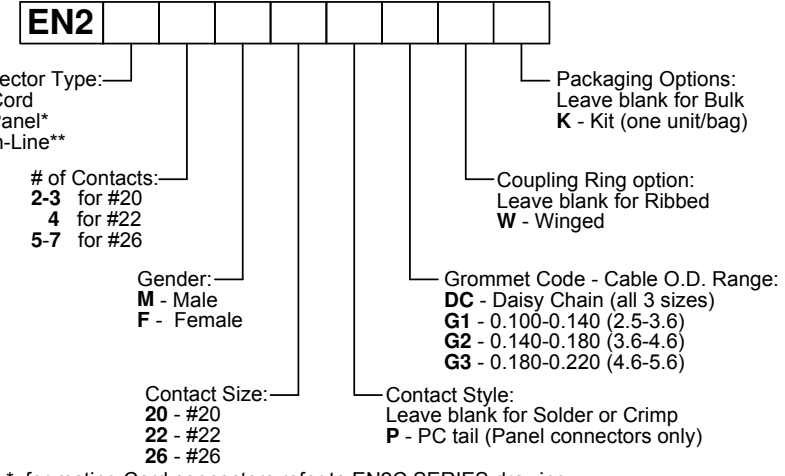
PC TAIL TYPE CONTACTS



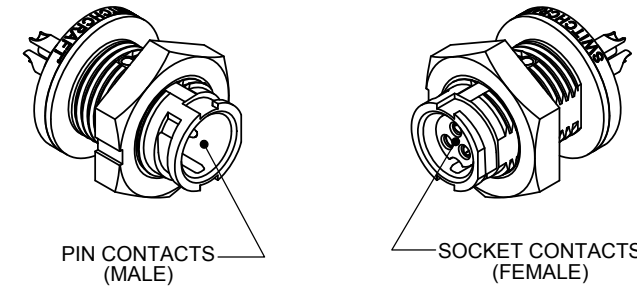
ALL DIMENSIONS FOR REFERENCE ONLY

CUSTOMER DRAWING

PART NUMBER SCHEME:



* for mating Cord connectors refer to EN2C SERIES drawing.
** Mating In-Line connectors not currently available.



SPECIFICATIONS:

MECHANICAL
Life: 600 cycles minimum
Vibration: Mil-Std 202G Method 201A
Hex Nut Tongue: 5-6 in-lb

ELECTRICAL
Voltage Rating: 250 V AC/DC for 2 contact arrangement
125 V AC/DC for 3-7 contact arrangements
Insulation Resistance: 1000 mΩ minimum
Contact Resistance: 10 mΩ maximum
Current Rating: Refer to Current Rating Table

ENVIRONMENTAL
Operating Temperature Limits: -40°C to +85°C (-40°F to +185°F), see Current Rating 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
Wear/tight Ratings: IP16, IP18, IP66, IP67, IP68 per IEC60529
NEMA 250 (6P), CFR 46 Part 110.20

MATERIAL
Connector Housing ----- Thermoplastic, black
Hex Nut: ----- Thermoplastic, black
Coupling Ring ----- Thermoplastic, black
Cable Clamp ----- Thermoplastic, black
Handle (back-shell) ----- Thermoplastic, black
Insulator ----- Elastomer, black
Seal Grommet ----- Elastomer, black
Contacts ----- Copper Alloy, plated

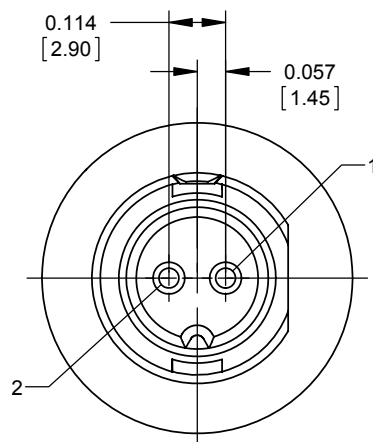
| Contacts | Wire (awg) | Current Rating (A) at Operating Temperature (°C) | | | | |
|----------|------------|---|-----------|-----------|-----------|-----------|
| | | 45°C max. | 55°C max. | 65°C max. | 75°C max. | 85°C max. |
| 2 #20 | 20 | 7 | 6 | 5 | 4 | 3.5 |
| | 22 | 5.5 | 5 | 4 | 3 | 2.5 |
| | 24 | 5.5 | 5 | 4 | 3 | 2.5 |
| | 26 | 4 | 3.5 | 2.5 | 2 | 1 |
| 3 #20 | 20 | 6.5 | 5.5 | 4.5 | 3.5 | 2 |
| | 22 | 5 | 4.5 | 3.5 | 3 | 1.5 |
| | 24 | 5 | 4.5 | 3.5 | 3 | 1.5 |
| | 26 | 3 | 2.5 | 2 | 1.5 | 0.5 |
| 4 #22 | 20 | 5 | 4.5 | 3.5 | 3 | 1.5 |
| | 22 | 4.5 | 4 | 3 | 2 | 1 |
| | 24 | 4.5 | 4 | 3 | 2 | 1 |
| | 26 | 3 | 2.5 | 2 | 1.5 | 0.5 |
| 5-7 #26 | 26 | 3 | 2.5 | 2 | 1.5 | 1 |
| | 28 | 2.5 | 2 | 1.5 | 1 | 0.5 |
| | 30 | 2 | 1.5 | 1 | 0.5 | 0.5 |

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

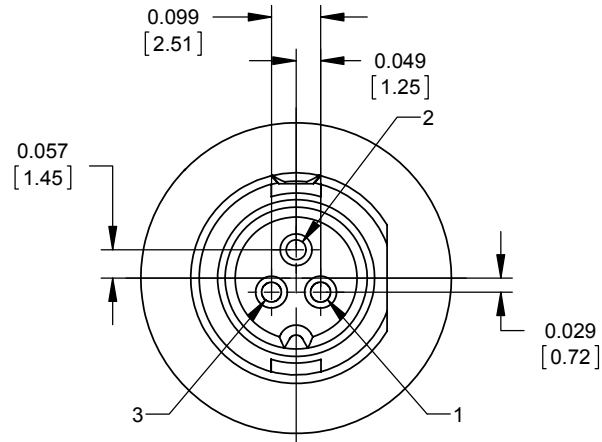
| REV | ECO NUMBER | DATE | BY | APVD |
|-----------|---------------|----------|-----|------|
| 0D | SPECS UPDATED | 10/03/13 | PNK | SRC |
| 0C | SPECS UPDATED | 09/20/12 | PNK | SRC |
| 0B | TOOLS REVISED | 05/14/12 | PNK | * |
| 0A | PRELIMINARY | 02/09/12 | PNK | * |
| REVISIONS | | | | |

| SIZE | WIDTH | MULT | LBS/M | TEMPER |
|-------------------------------|---------------|------|-------------|-------------------|
| UNLESS OTHERWISE SPECIFIED | | | | |
| 1. ALL DIMENSIONS IN INCHES | | | | |
| - TWO PLACE DECIMALS ±0.02 | | | | |
| - THREE PLACE DECIMALS ±0.005 | | | | |
| FINISH SPEC No. | FIRST USED ON | | SCALE 1.5:1 | |
| DATE DRAWN | BY | CHKD | APVD | MATERIAL SPEC No. |
| 02/09/12 | PNK | PNK | SRC | |
| NAME | | | | PART No. |
| EN2P SERIES CONNECTORS, RoHS | | | | EN2P SERIES |
| DO NOT SCALE DRAWING | | | | REV 0D |

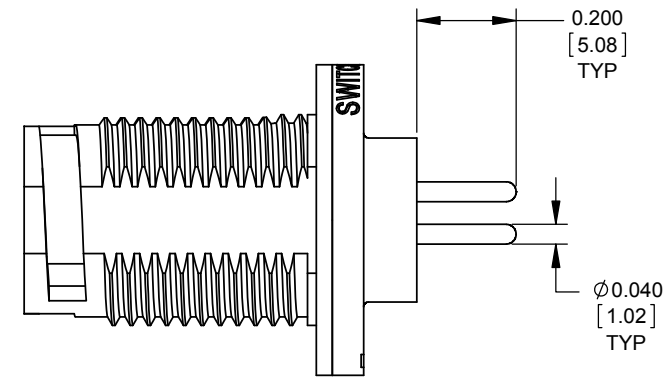




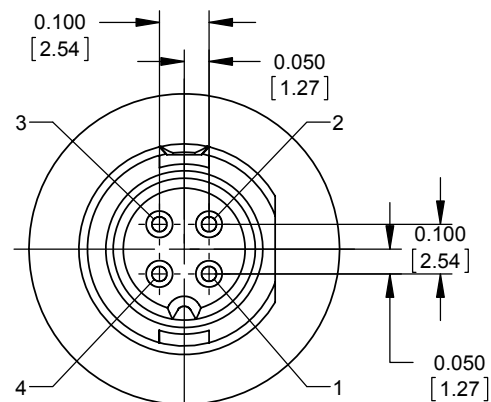
2-#20



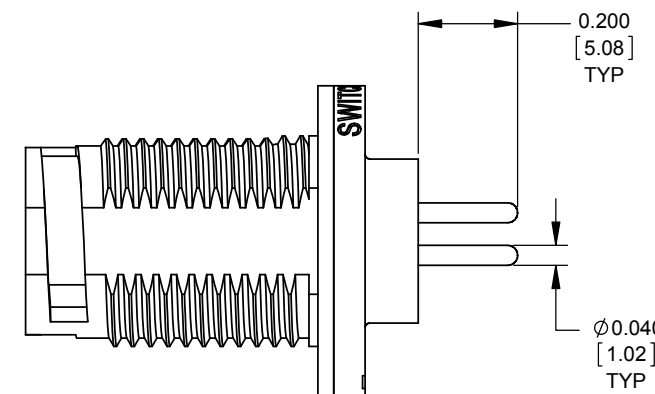
3-#20



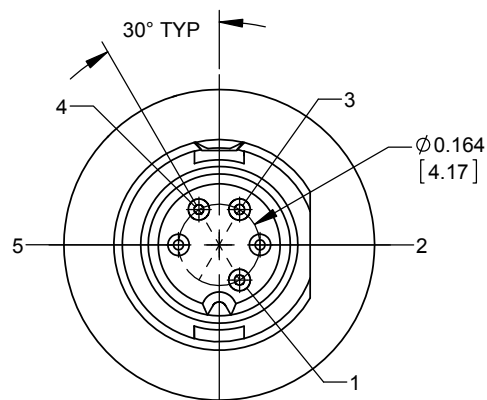
**2 and 3-#20
PIN ARRANGEMENTS
(0.046 [1.17] RECOMMENDED PCB HOLE SIZE)**



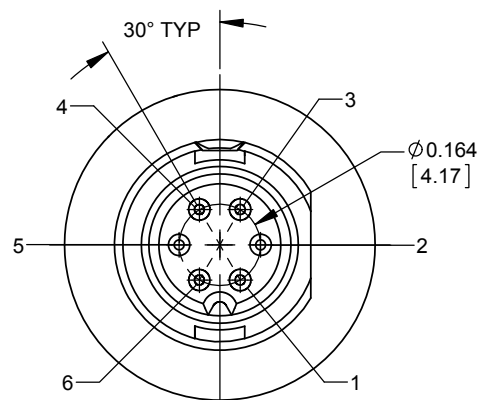
4-#22



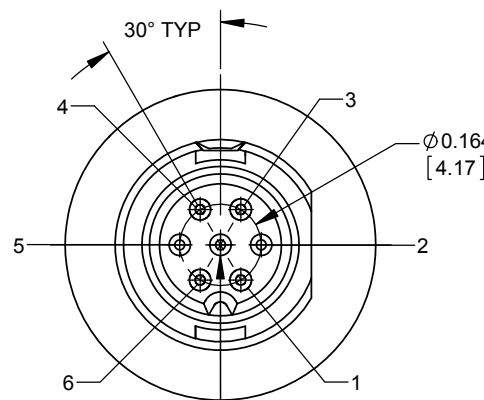
**4-#22
PIN ARRANGEMENT
(0.046 [1.17] RECOMMENDED PCB HOLE SIZE)**



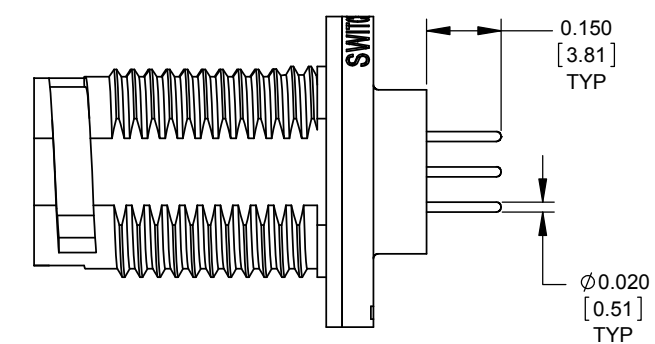
5-#26



6-#26



7-#26



**5, 6, and 7-#26
PIN ARRANGEMENTS
(0.026 [0.66] RECOMMENDED PCB HOLE SIZE)**

**CONTACT ARRANGEMENTS
PANEL CONNECTOR FRONT VIEW (PCB COMPONENT SIDE)
(RECOMMENDED PCB HOLE LAYOUT WITHIN ±0.001 [0.025])**

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 | | | | | SIZE | WIDTH | MULT | LBS/M | TEMPER |
| - TWO PLACE DECIMALS ±0.02 | | | | | FINISH | | | | MATERIAL |
| - THREE PLACE DECIMALS ±0.005 | | | | | SPEC No. | | | | SPEC No. |
| | | | | | FIRST USED ON | | SCALE | | |
| | | | | | | | 1.5:1 | | |
| OD | SPECS UPDATED | 10/03/13 | PNK | SRC | DATE DRAWN | BY | CHKD | APVD | |
| REV | ECO NUMBER | DATE | BY | APVD | 02/09/12 | PNK | PNK | SRC | |
| REVISIONS | | | | | NAME | | | | |
| | | | | | EN2P SERIES CONNECTORS, RoHS | | | | |
| DO NOT SCALE DRAWING | | | | | PART No. | | | | |
| | | | | | EN2P SERIES | | | | |
| | | | | | REV | | | | |
| | | | | | 0D | | | | |