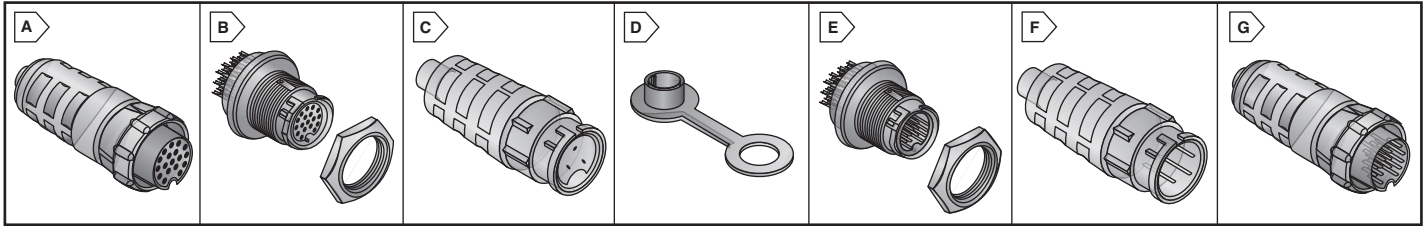


SWITCHCRAFT EN3™ Weathertight Series

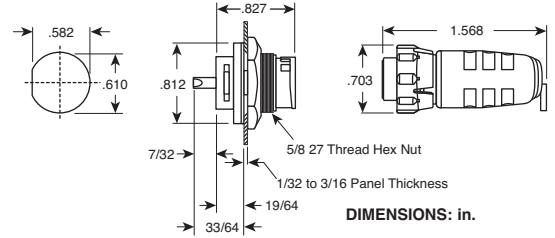
Switchcraft®



Specifications:

- Material:**
 - Panel connector shells and solder contact locking disk: Thermoplastic polymer glass fiber, flame retardant
 - Connector shell interior: Thermoplastic rubber
 - Contacts: Copper base alloy gold-plated over nickel underplate
- Mechanical:**
 - Shock: Mil-Std 202 Method 213B, condition K
 - Vibration: Mil-Std 202 Method 201
 - Life: 600 insertion/withdrawal cycles (minimum)
- Electrical:**
 - Voltage Rating (sea level): Tested at 600 VRMS
 - Insulation Resistance: 100 megaohms (minimum) at 77°F
 - Current rating:
 - 13.0 Amps (#16 contact) 3 Pin
 - 7.5 Amps (#20 contact) 3 to 6 Pin
 - 6.5 Amps (#20 contact) 7 and 8 Pin
 - 3.0 Amps (#26 contact) 9 to 18 Pin

- Cable Diameter:** .195" to .265"
- Environmental:**
 - Temperature Limits: -40°C to +65°C (non-operating)
 - Moisture Resistance: Mil-Std 202 Method 106°F
 - Insulation Resistance: Mil-Std 202 Method 302 condition B
 - Thermal Shock: Mil-Std 202 Method 101D condition B
 - Salt Spray: Mil-Std 202 Method 101D condition B
 - Exceeds Coast Guard specifications for water tightness (CRF 46 Part 110.20)
- Ratings:**
 - IP16/IP18, IP66/IP68, NEMA 250 (6P)
 - CFR 46 Part 110.20, UL 94V-O
- Termination:** Solder cup
 - 9C-18C have staggered solder cups for easier soldering



PROTECTIVE CAP

Covers the panel housing assembly when not in use.

For quantities of 100 and up, call for quote.

| MOUSER STOCK NO. | Switchcraft Part No. | Fig. | Price Each | | | |
|------------------|----------------------|------|------------|------|-----|-----|
| | | | 1 | 10 | 25 | 50 |
| Cord Type | | | | | | |
| 502-EN3CAP | EN3CAP | D | 1.25 | 1.01 | .92 | .90 |

| Fig. | Mates with Fig. |
|------|-----------------|
| A | E & F |
| B | G |
| C | G |

Features:

- Double-sealed for moisture & chemical resistance
- Integral O-ring and gasket is molded onto panel housing to prevent leakage and eliminate need for additional O-rings and gaskets
- Panel Connector shell has a positioning keyway to prevent misalignments and a polarizing single "D" design for proper panel mounting and prevents rotational movement
- Abrasion-resistant thermoplastic boot provides strain relief and accepts cable diameter .195" to .265".

Applications:

- Process Control
- Marine Electronics
- Medical Instrumentation
- Geothermal Instrumentation
- Communication
- General Industrial Electronics

PROTECTIVE BOOT

| MOUSER STOCK NO. | Switchcraft Part No. | Fig. | Price Each | | | |
|------------------|----------------------|------|------------|-----|-----|-----|
| | | | 1 | 10 | 25 | 50 |
| 502-EN3BOOT | EN3BOOT | - | .40 | .37 | .35 | .33 |

Switchcraft Circular Connectors

SOCKET TYPE (FEMALE)

For quantities of 100 and up, call for quote.

| MOUSER STOCK NO. | Switchcraft Part No. | Fig. | No. of Contacts | Contact Size | Price Each | | | |
|--------------------------|----------------------|------|-----------------|--------------|------------|-------|-------|-------|
| | | | | | 1 | 10 | 25 | 50 |
| Cord Type | | | | | | | | |
| 502-EN3C3F16 | EN3C3F16 | A | 3 | 16 | 6.77 | 5.20 | 4.78 | 4.55 |
| 502-EN3C2FX | EN3C2FX | A | 2 | 20 | 5.29 | 4.83 | 4.15 | 3.90 |
| 502-EN3C3F | EN3C3F | A | 3 | 20 | 6.35 | 5.20 | 4.59 | 4.35 |
| 502-EN3C4F | EN3C4F | A | 4 | 20 | 7.37 | 5.89 | 5.41 | 5.20 |
| 502-EN3C5FX | EN3C5FX | A | 5 | 20 | 9.05 | 6.85 | 6.28 | 6.02 |
| 502-EN3C6F | EN3C6F | A | 6 | 20 | 10.76 | 8.64 | 7.92 | 7.60 |
| 502-EN3C7F | EN3C7F | A | 7 | 20 | 13.11 | 11.79 | 10.72 | 9.83 |
| 502-EN3C8F | EN3C8F | A | 8 | 20 | 12.71 | 9.86 | 9.04 | 8.65 |
| 502-EN3C9F26S | EN3C9F26S | A | 9 | 26 | 14.26 | 13.69 | 12.90 | 10.12 |
| 502-EN3C10F26S | EN3C10F26S | A | 10 | 26 | 18.85 | 17.13 | 13.75 | 11.42 |
| 502-EN3C11F26S | EN3C11F26S | A | 11 | 26 | 20.36 | 18.51 | 16.59 | 13.65 |
| 502-EN3C12F26S | EN3C12F26S | A | 12 | 26 | 20.02 | 17.93 | 15.94 | 13.94 |
| 502-EN3C13F26S | EN3C13F26S | A | 13 | 26 | 23.51 | 18.59 | 15.83 | 13.61 |
| 502-EN3C14F26S | EN3C14F26S | A | 14 | 26 | 25.13 | 22.85 | 18.85 | 15.97 |
| 502-EN3C15F26S | EN3C15F26S | A | 15 | 26 | 25.13 | 22.85 | 18.85 | 15.97 |
| 502-EN3C16F26S | EN3C16F26S | A | 16 | 26 | 28.17 | 23.61 | 19.33 | 16.40 |
| 502-EN3C17F26S | EN3C17F26S | A | 17 | 26 | 29.53 | 26.90 | 23.74 | 19.93 |
| 502-EN3C18F26S | EN3C18F26S | A | 18 | 26 | 29.81 | 25.90 | 21.74 | 17.83 |
| Panel Type | | | | | | | | |
| 502-EN3P3F16 | EN3P3F16 | B | 3 | 16 | 6.10 | 5.20 | 4.76 | 4.25 |
| 502-EN3P2F | EN3P2F | B | 2 | 20 | 4.48 | 4.32 | 4.10 | 3.93 |
| 502-EN3P3F | EN3P3F | B | 3 | 20 | 5.74 | 4.45 | 4.07 | 3.92 |
| 502-EN3P4FX | EN3P4FX | B | 4 | 20 | 6.63 | 5.28 | 4.84 | 4.55 |
| 502-EN3P5F | EN3P5F | B | 5 | 20 | 7.89 | 6.26 | 5.74 | 5.34 |
| 502-EN3P6F | EN3P6F | B | 6 | 20 | 9.51 | 7.19 | 6.59 | 6.24 |
| 502-EN3P9F26S | EN3P9F26S | B | 9 | 26 | 13.37 | 11.82 | 10.96 | 9.52 |
| 502-EN3P10F26S | EN3P10F26S | B | 10 | 26 | 11.16 | 10.69 | 10.22 | 9.85 |
| 502-EN3P11F26S | EN3P11F26S | B | 11 | 26 | 19.31 | 17.55 | 13.90 | 11.79 |
| 502-EN3P12F26SX | EN3P12F26SX | B | 12 | 26 | 20.81 | 16.46 | 14.02 | 12.06 |
| 502-EN3P13F26S | EN3P13F26S | B | 13 | 26 | 20.45 | 18.42 | 15.99 | 13.83 |
| 502-EN3P14F26S | EN3P14F26S | B | 14 | 26 | 19.04 | 18.56 | 17.80 | 13.97 |
| 502-EN3P15F26S | EN3P15F26S | B | 15 | 26 | 25.13 | 22.85 | 18.85 | 15.97 |
| 502-EN3P16F26S | EN3P16F26S | B | 16 | 26 | 21.40 | 19.63 | 17.83 | 15.15 |
| 502-EN3P17F26S | EN3P17F26S | B | 17 | 26 | 28.70 | 22.69 | 19.33 | 16.62 |
| 502-EN3P18F26S | EN3P18F26S | B | 18 | 26 | 24.66 | 21.78 | 20.23 | 18.89 |
| In-Line Cord Type | | | | | | | | |
| 502-EN3L3F16 | EN3L3F16 | C | 3 | 16 | 5.59 | 5.32 | 5.02 | 4.75 |
| 502-EN3L3FX | EN3L3FX | C | 3 | 20 | 6.93 | 6.25 | 5.30 | 4.80 |
| 502-EN3L4F | EN3L4F | C | 4 | 20 | 7.21 | 5.79 | 5.32 | 5.03 |
| 502-EN3L5F | EN3L5F | C | 5 | 20 | 8.65 | 6.69 | 6.14 | 5.70 |
| 502-EN3L6F | EN3L6F | C | 6 | 20 | 9.47 | 7.62 | 6.98 | 6.51 |

PIN TYPE (MALE)

For quantities of 100 and up, call for quote.

| MOUSER STOCK NO. | Switchcraft Part No. | Fig. | No. of Contacts | Contact Size | Price Each | | | |
|--------------------------|----------------------|------|-----------------|--------------|------------|-------|-------|-------|
| | | | | | 1 | 10 | 25 | 50 |
| Panel Type | | | | | | | | |
| 502-EN3P3M16 | EN3P3M16 | E | 3 | 16 | 4.92 | 4.47 | 4.05 | 3.50 |
| 502-EN3P2M | EN3P2M | E | 2 | 20 | 3.80 | 3.46 | 3.19 | 2.93 |
| 502-EN3P3MX | EN3P3MX | E | 3 | 20 | 4.50 | 3.80 | 3.40 | 3.05 |
| 502-EN3P4MX | EN3P4MX | E | 4 | 20 | 4.92 | 4.25 | 3.80 | 3.56 |
| 502-EN3P5M | EN3P5M | E | 5 | 20 | 5.73 | 4.29 | 3.93 | 3.71 |
| 502-EN3P6M | EN3P6M | E | 6 | 20 | 6.20 | 4.84 | 4.43 | 4.05 |
| 502-EN3P7M | EN3P7M | E | 7 | 20 | 7.20 | 6.37 | 5.91 | 5.15 |
| 502-EN3P8M | EN3P8M | E | 8 | 20 | 7.25 | 5.89 | 5.41 | 5.32 |
| 502-EN3P9M26S | EN3P9M26S | E | 9 | 26 | 8.41 | 7.46 | 6.99 | 6.50 |
| 502-EN3P10M26S | EN3P10M26S | E | 10 | 26 | 11.16 | 9.91 | 7.56 | 6.80 |
| 502-EN3P11M26S | EN3P11M26S | E | 11 | 26 | 12.13 | 10.02 | 8.48 | 7.92 |
| 502-EN3P12M26S | EN3P12M26S | E | 12 | 26 | 12.91 | 11.74 | 10.51 | 8.85 |
| 502-EN3P13M26S | EN3P13M26S | E | 13 | 26 | 13.70 | 11.90 | 9.82 | 7.91 |
| 502-EN3P14M26S | EN3P14M26S | E | 14 | 26 | 14.71 | 11.58 | 9.86 | 8.48 |
| 502-EN3P15M26S | EN3P15M26S | E | 15 | 26 | 15.43 | 14.03 | 11.35 | 9.64 |
| 502-EN3P16M26S | EN3P16M26S | E | 16 | 26 | 16.38 | 14.88 | 12.06 | 10.93 |
| 502-EN3P17M26S | EN3P17M26S | E | 17 | 26 | 17.20 | 15.65 | 12.51 | 10.02 |
| 502-EN3P18M26S | EN3P18M26S | E | 18 | 26 | 18.05 | 16.41 | 13.15 | 11.77 |
| In-Line Cord Type | | | | | | | | |
| 502-EN3L3M16 | EN3L3M16 | F | 3 | 16 | 4.74 | 4.13 | 3.77 | 3.49 |
| 502-EN3L2M | EN3L2M | F | 2 | 20 | 4.05 | 3.63 | 3.45 | 3.22 |
| 502-EN3L3M | EN3L3M | F | 3 | 20 | 4.66 | 3.53 | 3.23 | 3.08 |
| 502-EN3L4M | EN3L4M | F | 4 | 20 | 5.25 | 3.99 | 3.66 | 3.51 |
| 502-EN3L5M | EN3L5M | F | 5 | 20 | 6.14 | 4.60 | 4.21 | 4.19 |
| 502-EN3L6M | EN3L6M | F | 6 | 20 | 6.80 | 5.10 | 4.67 | 4.51 |
| 502-EN3L8M | EN3L8M | F | 8 | 20 | 8.36 | 6.26 | 5.74 | 5.72 |
| Cord Type | | | | | | | | |
| 502-EN3C3M16 | EN3C3M16 | G | 3 | 16 | 4.78 | 4.33 | 3.96 | 3.64 |
| 502-EN3C2M | EN3C2M | G | 2 | 20 | 3.99 | 3.76 | 3.54 | 3.19 |
| 502-EN3C3MX | EN3C3MX | G | 3 | 20 | 4.72 | 4.25 | 3.80 | 3.50 |
| 502-EN3C4M | EN3C4M | G | 4 | 20 | 5.22 | 4.11 | 3.77 | 3.64 |
| 502-EN3C5M | EN3C5M | G | 5 | 20 | 5.42 | 4.49 | 4.31 | 4.16 |
| 502-EN3C6M | EN3C6M | G | 6 | 20 | 6.55 | 5.06 | 4.63 | 4.24 |
| 502-EN3C9M26S | EN3C9M26S | G | 9 | 26 | 9.06 | 7.99 | 7.42 | 6.93 |
| 502-EN3C10M26S | EN3C10M26S | G | 10 | 26 | 8.45 | 8.04 | 7.52 | 6.85 |
| 502-EN3C11M26S | EN3C11M26S | G | 11 | 26 | 10.32 | 9.39 | 8.43 | 7.64 |
| 502-EN3C12M26S | EN3C12M26S | G | 12 | 26 | 11.59 | 10.44 | 9.50 | 8.70 |
| 502-EN3C13M26S | EN3C13M26S | G | 13 | 26 | 13.40 | 12.73 | 11.73 | 9.60 |
| 502-EN3C14M26S | EN3C14M26S | G | 14 | 26 | 11.53 | 11.05 | 10.47 | 9.00 |
| 502-EN3C15M26S | EN3C15M26S | G | 15 | 26 | 16.49 | 14.99 | 12.48 | 10.85 |
| 502-EN3C16M26S | EN3C16M26S | G | 16 | 26 | 14.30 | 12.62 | 11.73 | 10.95 |
| 502-EN3C17M26S | EN3C17M26S | G | 17 | 26 | 18.26 | 16.60 | 13.90 | 11.94 |
| 502-EN3C18M26S | EN3C18M26S | G | 18 | 26 | 15.76 | 13.93 | 12.94 | 11.07 |