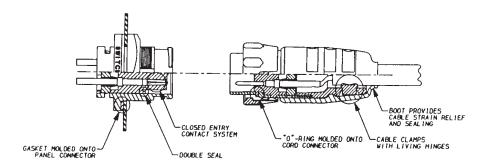
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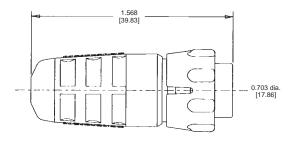
ONLINE CATALOG

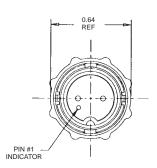
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EN3[™] MINI WEATHERTIGHT CONNECTOR SERIES

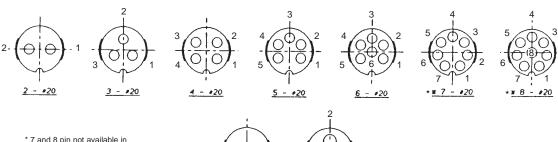
EN3[™] CORD CONNECTOR



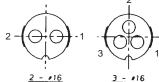




Cord Connector Contact Arrangements Shown from rear of connector



* 7 and 8 pin not available in crimp male, cord male and panel



DIMENSIONS ARE FOR REFERENCE ONLY

Inch (mm)

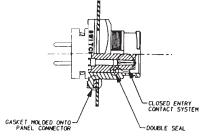
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ONLINE CATALOG

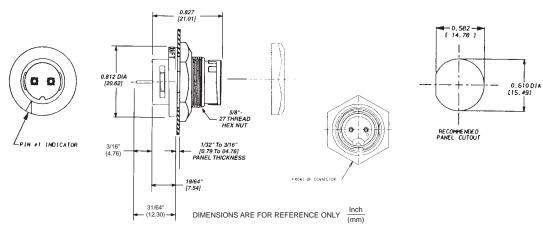
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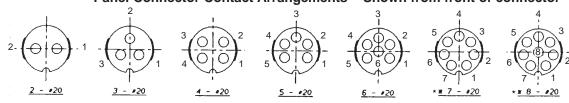
EN3[™] PANEL MOUNT CONNECTOR



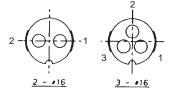




Panel Connector Contact Arrangements – Shown from front of connector



* 7 and 8 pin not available in



HOLE LAYOUTS VIEWED FROM FRONT OF CONNECTOR RECOMMENDED HOLE SIZE: #20 CONTACT: .046" DIA. #16 CONTACT: .055" DIA.

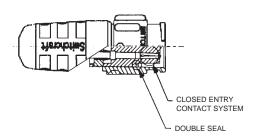
DIMENSIONS ARE FOR REFERENCE ONLY

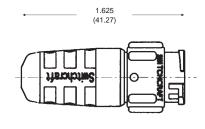
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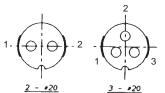
EN3[™] MINI WEATHERTIGHT CONNECTOR SERIES

EN3[™] INLINE CONNECTOR





In-Line Connector Contact Arrangements Shown from rear of connector



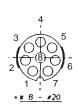




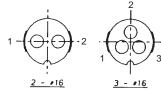








* 7 and 8 pin not available in in-line female



Switchcraft Page 1 of 2

EN3[™] MINI WEATHERTIGHT CONNECTOR SERIES

EN3[™] WITH SOLDER CONTACTS



$\mathsf{EN3}^\mathsf{TM}$ WITH CRIMP CONTACTS



EN3[™] WITH PC CONTACTS



EN3[™] IN-LINE CONNECTOR

Switchcraft Page 2 of 2



$\mathsf{EN3}^\mathsf{TM}$ OVERMOLDED CONNECTOR



EN3 Series Specifications



GENERAL FEATURES AND BENEFITS

- Great all-purpose connector "weather" or not sealing feature is required.
- Superior leakage protection. Contact area is double-sealed for excellent moisture and chemical resistance when mated to Switccraft's connectors.
- Integral O-ring and gasket. O-ring is molded onto cord housing assembly and gasket is molded onto panel housing assembly to prevent leakage and eliminate need for additional O-rings and gaskets.
- Reduced part count for reduced labor to assemble.
- No Grommets. Cable clamp assembly features living hinges, which snap easily onto and support the cable.
- Thermoplastic rubber body simulates closed entry contact system to prevent probe damage or accidental loss of spring retention due to misaligned or bent pins.
- Abrasion-resistant thermoplastic boot provides strain relief and accepts cable diameter .195" to .265".
- · Housing rated UL 94V-O against flammability.
- Panel connector shell features a positioning keyway to prevent misalignments and a polarizing single "D" design for proper panel mounting and to prevent rotational movement.
- 2-8 pins.
- Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20).
- · Optional cap covers panel housing assembly when not in use.
- Exceeds enclosure rating IP16/IP18 when not mated or covered and IP66/IP68 when mated or covered (IEC 529).
- Exceeds enclosure rating 6P at 1000V when mated or covered (NEMA 250).

APPLICATIONS

- Process Control Communications
- Marine Electronics Transportation
- Medical Instrumentation General Industrial Electronics
- Geothermal Instrumentation Harsh Environments

MATERIALS

- · Cord and panel connector shells, contact locking disk, and cable clamp assembly: Thermoplastic polymer glass fiber, flame retardant
- · Coupling ring: Nylon
- Rear boot and connector shell interior: Thermoplastic rubber
- Contacts: Copper base alloy gold-plated over nickel underplate

SPECIFICATIONS

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 megohms (minimum) at 77° F
- Contact Resistance: 5 milliohms (maximum)
- Current Rating: 7.5 Amps (#20 contact) 6.5 Amps (#20 contact) 7 and 8 Pin 13.0 Amps (#16 contact) 2 and 3 Pin

ENVIRONMENTAL

- Temperature Limits: -40°C to +65°C (non-operating)
- Moisture Resistance: Mil-Std 202 Method 106F
- Insulation Resistance: Mil-Std 202 Method 302 condition B
- Thermal Shock: Mil-Std 202 Method 107G
- Salt Spray: Mil-Std 202 Method 101D condition B

RATINGS

- IP16/IP18 CFR 46 Part 110.20
- IP66/IP68 UL 94V-O
- NEMA 250 (6P)
- Patent 5,485,673 File 36049

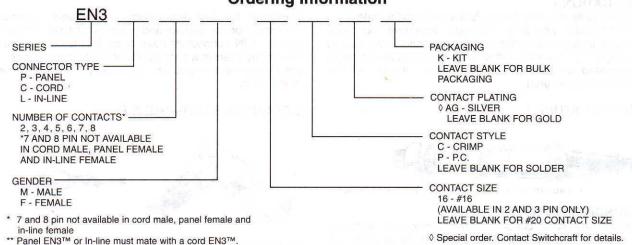


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EN3™ MINI WEATHERTIGHT CONNECTOR SERIES

(See Cable Section for Overmolded Cable Part Numbering Information.)

Ordering Information**



Standard Configuration

- Contact size #20
- Contact style Solder Cup
- · Contact Plating Gold
- · Contacts Factory Installed
- · Packaged in Bulk

²Optional Configuration

Leave Blank for Standard Configuration

Optional Cap

Part Number EN3CAP

Examples:

EN3P2M - "Standard"

Mini Panel Connector with 2 Male Contacts, Size #20, Solder Cup Style, Gold-Plated, Contacts Factory Installed; Packaged in Bulk.

EN3C3F16K - "Optional"

Mini Cord Connector with 3 Female Contacts, Size #16, Solder Cup Style, Gold Plated, Contacts Factory Installed, Packaged in Kit.

EN3C5MCSN - "Optional"

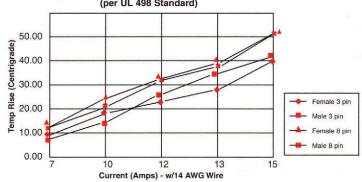
Mini Cord Connector with 5 Male Contacts, Size #20, Crimp Style (Contacts Supplied Loose), Tin-Plated, Packaged in Bulk. (Consult Factory)

CRIMP TOOLS

| Part Number | Tool Description | | |
|--|---|--|--|
| EN3INS16 | Insertion/Extraction Tool for 16 AWG | | |
| EN3INS20 Insertion/Extraction Tool for 20 AW | | | |
| EN3CR | Crimp Hand Tool | | |
| EN3CRAUTO | Pneumatic Crimp Tool | | |
| EN3POS16 Positioner for 16 AWG contacts and | | | |
| EN3POS20 | Positioner for 20 AWG contacts and pins | | |
| | | | |

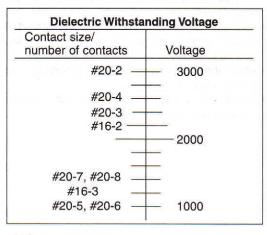
NOTE: A positioner must be used with the EN3CR and EN3CRAUTO.

EN3™ Weathertight Connector Current Carry Capability (per UL 498 Standard)



EN3™ Mating Guide

| | | Male | | |
|--------|---------|------|---------|-------|
| | | Cord | In-Line | Panel |
| Female | Cord | | • | |
| | In-line | • | | |
| | Panel | | | |



NOTE: Contact your Switchcraft Representative for price and delivery.

All products shown in this catalog are covered by Switchcraft's limited lifetime warranty

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