Switchcraft®

Made in USA

Product Bulletin 572

EN3® SERIES WEATHERTIGHT CONNECTORS - 26 AWG 9-18 CRIMP CONTACTS & CLAMPING SYSTEM

Features and Benefits

- Easier to assemble
- New longer cable clamp secures cable up to .380
- New thicker heavier boot seals cable diameters between .230 & .380
- Brass nut secures cable clamp
- New crimp pins/contacts eliminate soldering
- Gold plated contacts standard
- Withstands 2 meter submersion for 24 hours



Assembled EN3 with Large Boot

Product Specifications

Materials

Connector Shell, Contact Locking Disc: Thermoplastic polymer glass fiber, flame retardant
Cable Clamp: High grade thermoplastic
Boot, Connector Shell Interior: Thermoplastic elastomer
Contacts: Copper base alloy, gold plated over nickel underplate

Mechanical

Shock: Mil-Std 202 Method 213B, Condition K
Vibration: Mil-Std 202 Method 201A
Life: 600 insertion/withdraw cycles minimum



Panel Mount with Crimp Contacts

Electrical

Voltage Rating (Sea Level): Tested at 600 VRMS
Insulation Resistance: 100 megohms minimum at 77° F.
Contact Resistance: 5 milliohms maximum
Current Rating: 3 Amps

Environmental

Temperature Limits: -40° C to +65° C (non-operating)
Moisture Resistance: Mil-Std 202 Method 106F
Insulation Resistance: Mil-Std Method 302 Condition B
Thermal Shock: Mil-Std 202 Method 107G
Salt Spray: Mil-Std 202 Method 101D Condition B
Water Tightness Test: U.S. Coast Guard CFR 46 Part 110.20

Product Ratings

IP16/IP18
IP66/IP68
NEMA 250 (6P)
CFR 46 Part 110.20
UL 94V-0



New Boot & Clamp with Ring

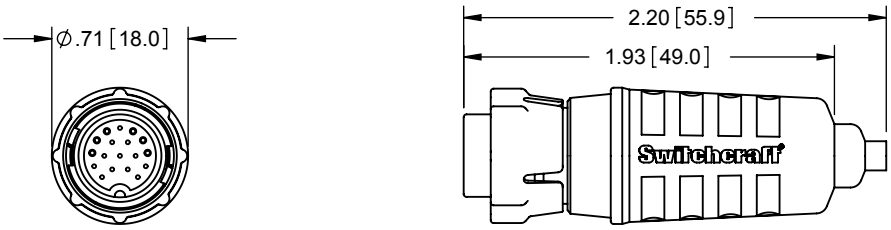
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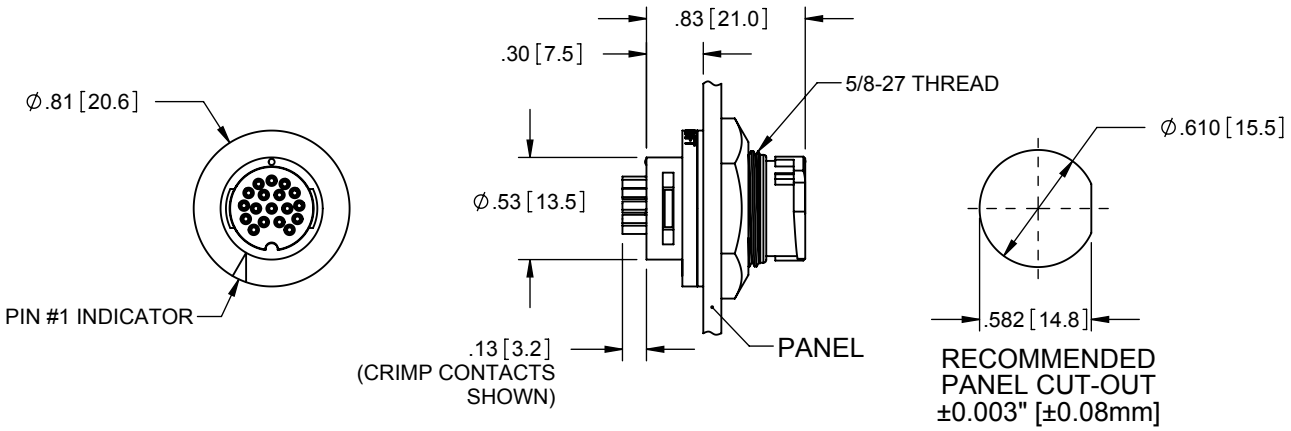
5555 North Elston Avenue / Chicago, IL 60630
Phone: 773-792-2700 / Fax: 773-792-2129

EN3™ MINI WEATHERTIGHT - 26 AWG MULTI-PIN SERIES

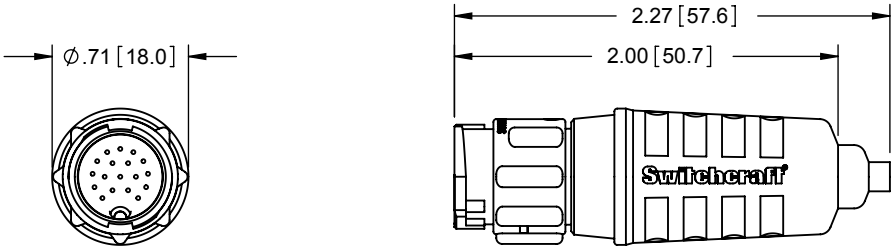
Cable End



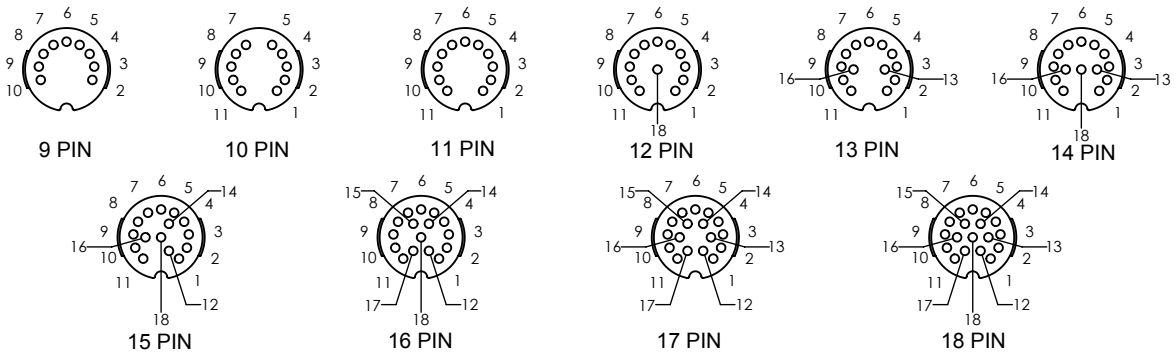
Panel Mount



In-Line



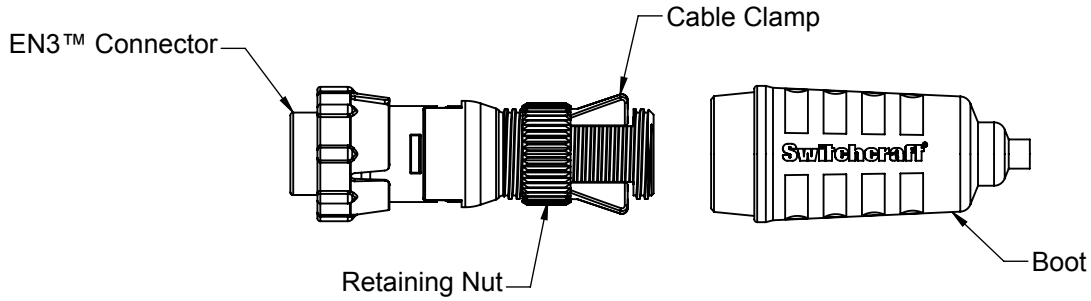
Contact Arrangements (Wiring View of Cable End)



NEW CABLE CLAMP SYSTEM FOR LARGER O.D. CABLE

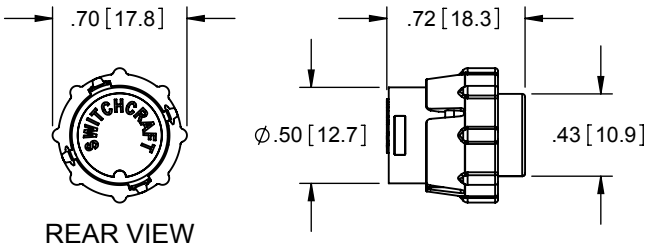
For cable O.D. 0.230" to 0.380" [5.8 - 9.7] and maximum cable jacket stripping of 0.750" [9.1] long.

Note: Cable clamp system, for cable O.D. 0.090" to 0.265" [2.3 - 6.7] and maximum cable jacket stripping of 0.375" [9.5] long, still available.



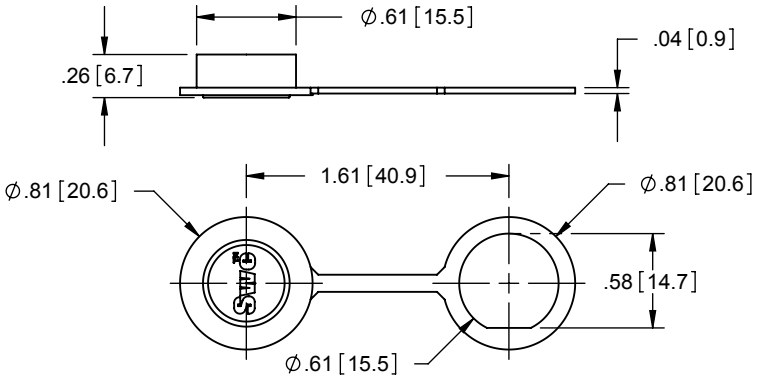
EN3™ SERIES PLUG CAPS

EN3IPCAP



All dimensions for reference only.

EN3CAP



EN3™ SERIES ORDERING CODE

EN3								

Connector Type:
C - Cord
P - Panel
L - In-Line

# of Contacts:
2-3 for #16
2-8 for #20
9-18 for #26

Gender:
M - Male
F - Female

Contact Size:
16 - 16 AWG
Leave blank for 20 AWG
26 - 26 AWG

Contact Style:
C - Crimp
P - PC tail
S - Staggered Solder Cup
Leave blank for Straight Solder Cup

Contact plating:
AG - Silver
Leave blank for Gold

Packaging Options:
K - Kit
Leave blank for Bulk

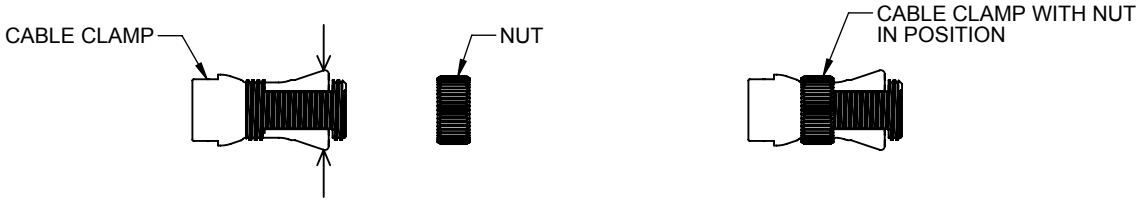
Cable Clamp system option:
L - for 0.230" to 0.380" cable nom. O.D. and 0.750" long stripping.
Leave blank for 0.160" to 0.265" cable nom. O.D. and 0.380" long stripping.

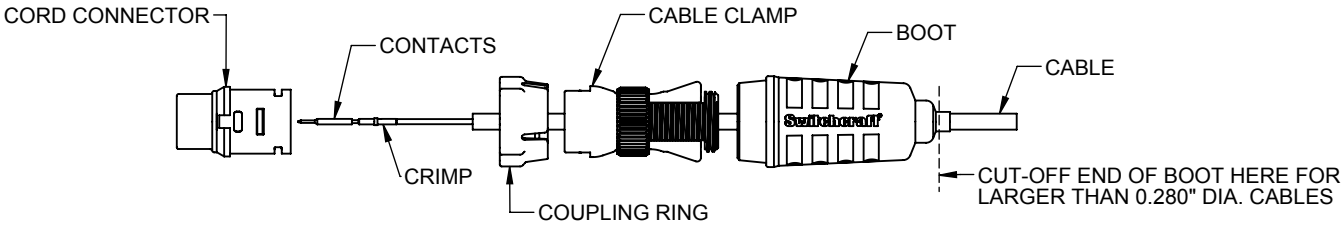
Notes:
7 and 8 pin not available in male Cord or In-Line connector
7 and 8 pin not available in female In-Line connector
AG (silver plating) special order

EN3™ SERIES FIELD ASSEMBLY INSTRUCTIONS FOR CRIMP CONTACTS:

STEP 1:

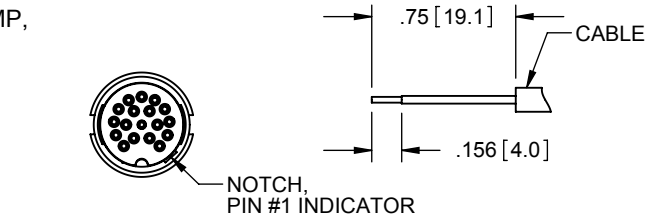
PRESS THE TWO WINGS OF CABLE CLAMP INWARD, THEN THREAD NUT CLOCKWISE ONTO CABLE CLAMP TO THE POSITION SHOWN.





STEP 2:

FEED THE FREE END OF CABLE THROUGH BOOT, CABLE CLAMP, AND COUPLING RING IN THE ORDER SHOWN.
NOTE: CUT-OFF END OF BOOT FOR LARGER THAN 0.280" DIAMETER CABLES.
STRIP CABLE END AND CONDUCTORS AS SHOWN.
CRIMP CONDUCTORS TO CONTACTS.
USE CRIMP HAND TOOL EN3CR OR PNEUMATIC CRIMP TOOL EN3CRAUTO WITH #26 POSITIONER EN3POS26.
INSERT CONTACTS TO CONNECTOR HOUSING PER CONTACT ARRANGEMENTS AND INSERTION INSTRUCTIONS.

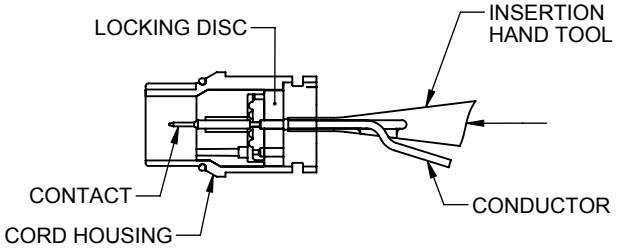


CORD WIRING SIDE VIEW

TYPICAL CONTACT INSERTION INSTRUCTIONS:
PLACE CONTACT IN GROOVE OF INSERTION HAND TOOL **EN3INS26**. NOTE: TIP OF TOOL SHOULD BE UP AGAINST THE SHOULDER OF CONTACT.

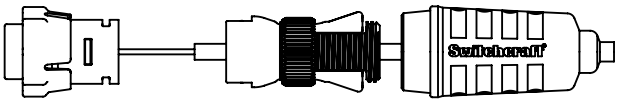
INSERT CONTACT INTO CORRECT CAVITY OF CONNECTOR BODY BY APPLYING CONSTANT PRESSURE UNTIL CONTACT BOTTOMS UP AGAINST LOCKING DISC.
NOTE: DO NOT TILT TOOL DURING THE INSERTION.

REPEAT ABOVE PROCEDURE TO INSERT ALL CONTACTS PER CONTACT ARRANGEMENTS.



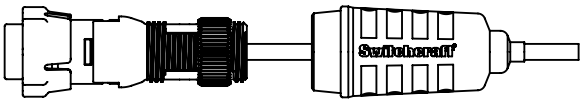
STEP 3:

ALIGN TABS OF COUPLING RING WITH NOTCHES OF CORD HOUSING AND PUSH COUPLING RING ONTO CORD HOUSING.



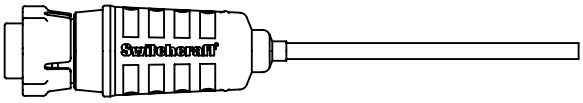
STEP 4:

ALIGN CABLE CLAMP AND PUSH FORWARD UNTIL IT SNAP-LOCKS ONTO THE REAR OF CONNECTOR HOUSING. TURN NUT OF CABLE CLAMP COUNTERCLOCKWISE UNTIL CABLE CLAMP TIGHTENS AGAINST CABLE.



STEP 5:

PUSH BOOT ALL THE WAY FORWARD, OVER CABLE CLAMP, UNTIL FRONT END OF BOOT SEALS TIGHTLY ONTO CONNECTOR HOUSING.



Стандарт Электрон Связь

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