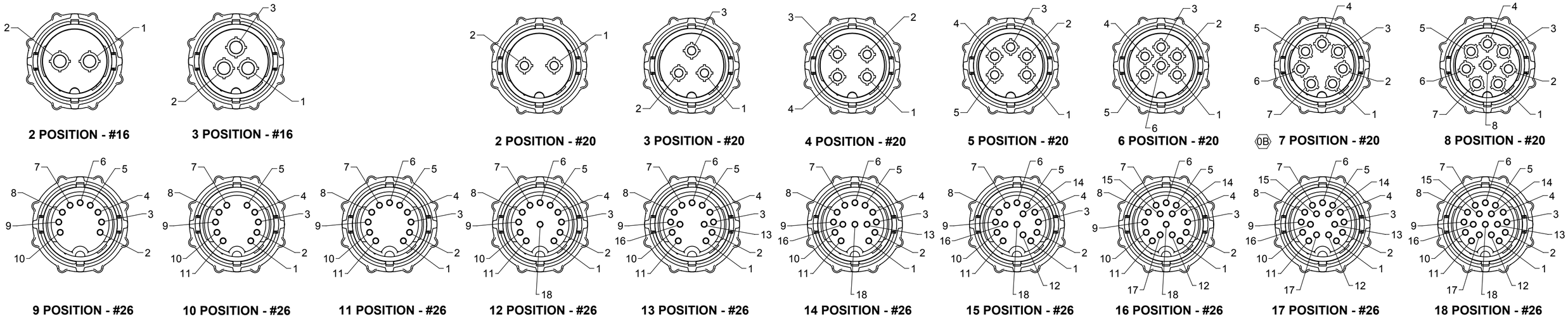


CONTACT ARRANGEMENT
REAR VIEW OF CONNECTOR SHOWN (WIRING SIDE)
9-18 POSITION IDENTIFICATION NUMBERS DENOTE POSITION USED

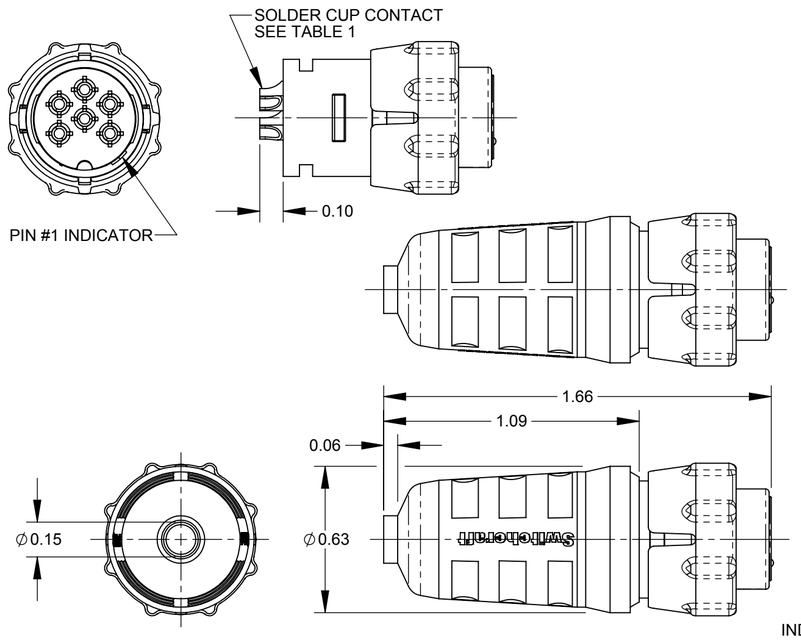
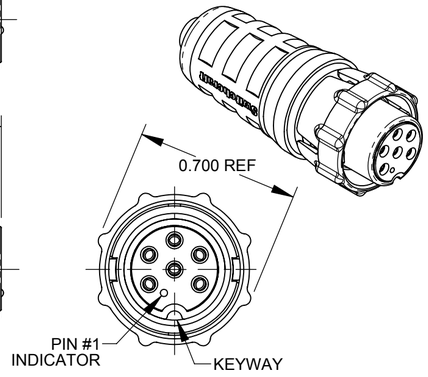


TABLE 1		
SOLDER CUP CONTACT DIAMETERS		
CONTACT	O.D.	I.D.
#16	∅0.093	∅0.067
#20	∅0.064	∅0.044

FIGURE 1
2-3 PIN - #16 CONTACTS
2-6 PIN - #20 CONTACTS
STANDARD BOOT & CABLE CLAMP
∅0.160 - ∅0.268 CABLES
EN3C6FX SHOWN



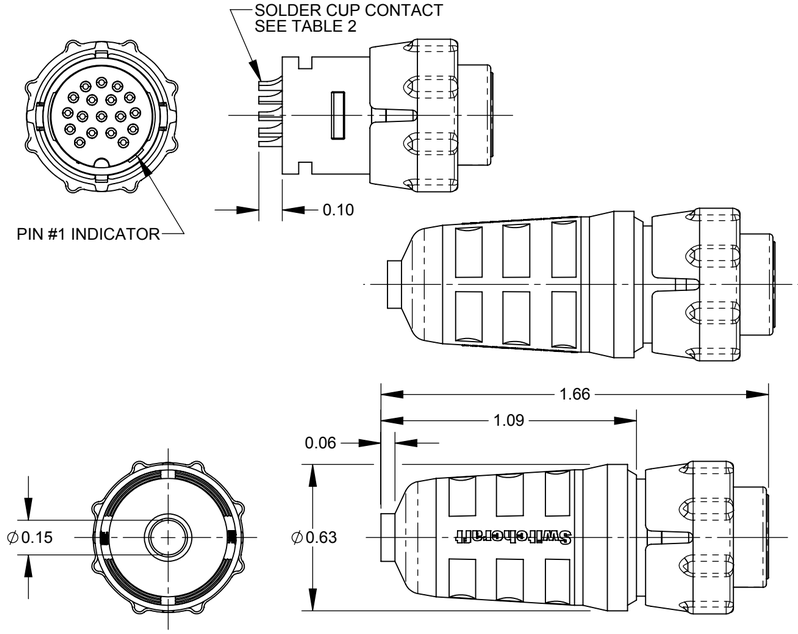
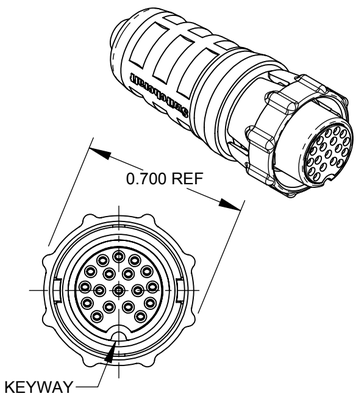


TABLE 2		
SOLDER CUP CONTACT DIAMETERS		
CONTACT	O.D.	I.D.
#26	∅0.043	∅0.024

FIGURE 2
9-18 PIN - #26 CONTACTS
STANDARD BOOT & CABLE CLAMP
∅0.160 - ∅0.268 CABLES
EN3C18F26X SHOWN



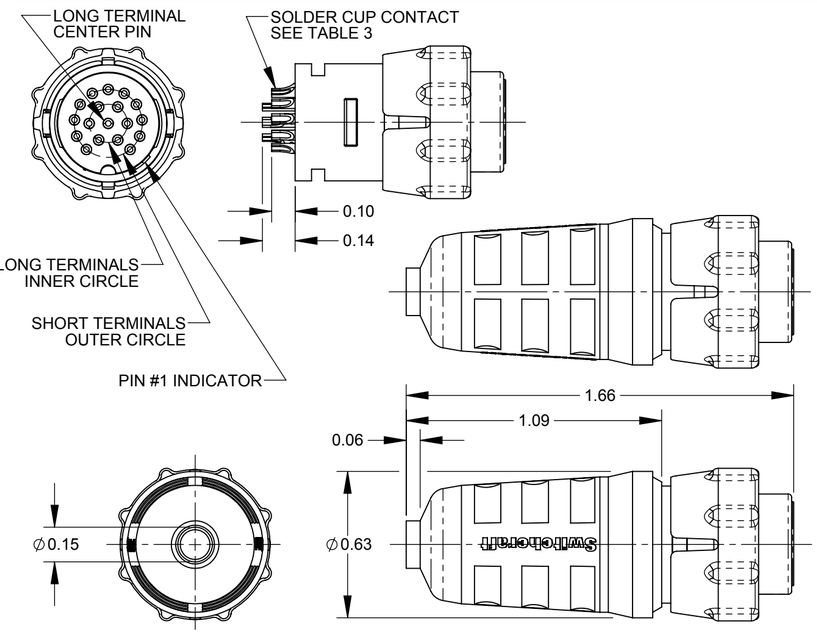
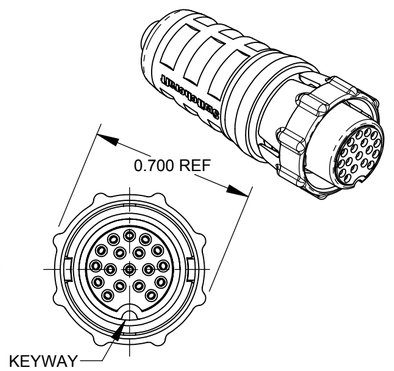
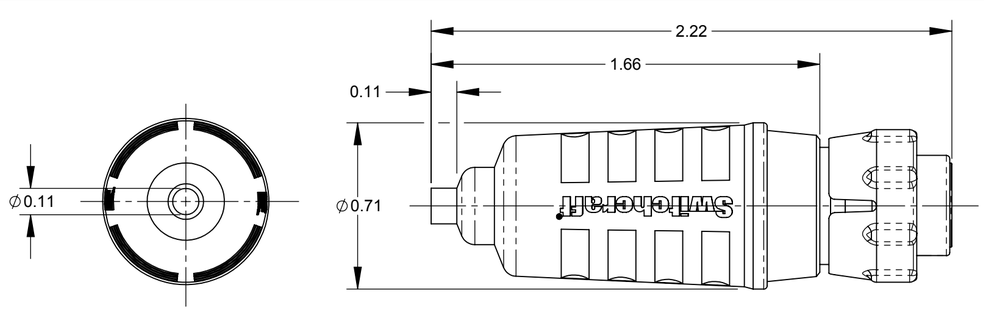


TABLE 3		
SOLDER CUP CONTACT DIAMETERS		
CONTACT	O.D.	I.D.
#26	∅0.043	∅0.024

FIGURE 3
9-18 PIN - #26 CONTACTS
"S" OPTION
STAGGERED SOLDER CUPS
STANDARD BOOT & CABLE CLAMP
∅0.160 - ∅0.268 CABLES
EN3C18F26SX SHOWN





"L" OPTION
LARGE BOOT AND CABLE CLAMP
∅0.230 - ∅0.380 CABLES

CUSTOMER DRAWING

SEE SHEET 2 FOR NOTES, SPECIFICATIONS AND PART NUMBER ORDERING CODE

REV	ECO NUMBER	DATE	BY	APVD
0B	REDRAWN	1/19/18	TJK	TJK
0A	REDRAWN	6-22-15	TO	TJK

REVISIONS

UNLESS OTHERWISE SPECIFIED
1. ALL DIMENSIONS IN INCHES
- TWO PLACE DECIMALS ±0.02
- THREE PLACE DECIMALS ±0.005

DO NOT SCALE DRAWING

SIZE	WIDTH	MULT	LBS/M	TEMPER

FINISH	*	MATERIAL	*
SPEC No.	*	SPEC No.	*
FIRST USED ON	EN3	SCALE	2:1

DATE DRAWN	BY	CHKD	APVD
6-22-15	TO	TO 6-22-15	TJK 6-23-15

Switchcraft®

SHEET 1 OF 2

NAME: FEMALE CORD SOLDER CUP CONNECTOR, RoHS

PART No.: EN3C_F_X

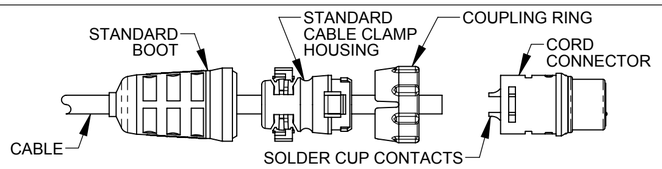
REV: 0B

SolidWorks CAD File

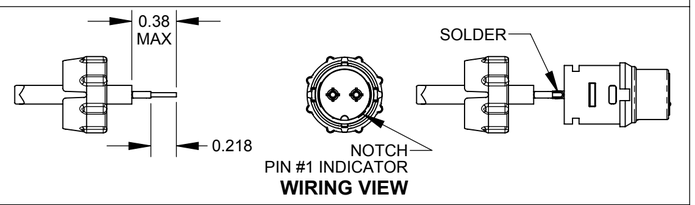
C

EN3 STANDARD BOOT CORD CONNECTOR CABLE ASSEMBLY INSTRUCTIONS

STEP 1
FEED THE END OF THE CABLE THROUGH THE BOOT AND CABLE CLAMP HOUSING AND COUPLING RING IN THE ORDER AND POSITION SHOWN.

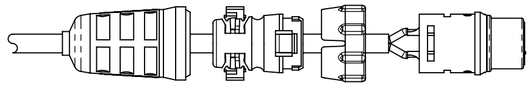


STEP 2
STRIP CABLE AS SHOWN AND BEGIN SOLDERING CONDUCTORS TO PINS. STARTING WITH CONTACT #1 NEXT TO THE "NOTCH" AND FOLLOW WITH THE REMAINING CONDUCTORS CLOCKWISE WITH #6 CONDUCTOR IN THE CENTER.

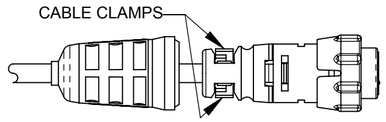


WIRING VIEW

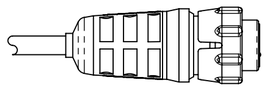
STEP 3
ALIGN COUPLING RING TABS WITH CORD CONNECTOR SIDE NOTCHES.
ALSO ALIGN CABLE CLAMP TABS WITH NOTCHES OF CONNECTOR HOUSING.



STEP 4
PUSH THE COUPLING RING ONTO CORD CONNECTOR UNTIL IT CLEARS THE CORD CONNECTOR SIDE NOTCHES AND SITS FIRMLY ON COUPLING RING STOP TABS.
PUSH THE CABLE CLAMP HOUSING FORWARD UNTIL IT SNAP LOCKS INTO THE REAR OF THE CONNECTOR HOUSING.
THEN SNAP THE TWO CABLE CLAMPS INTO THEIR COMPARTMENTS.

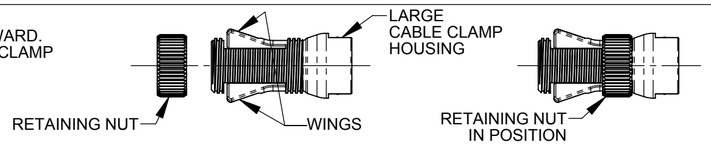


STEP 5
PUSH BOOT ALL THE WAY FORWARD OVER CABLE CLAMP UNTIL FRONT END OF BOOT SEALS TIGHTLY ONTO THE CONNECTOR HOUSING.

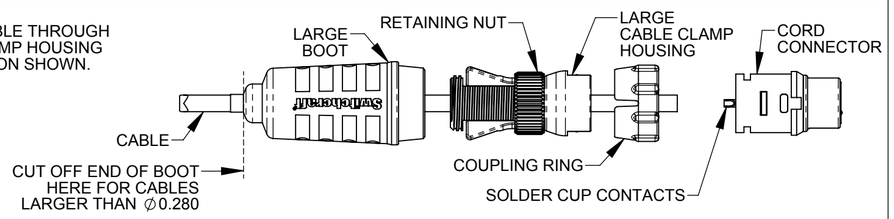


"L" OPTION - EN3 LARGE BOOT CORD CONNECTOR CABLE ASSEMBLY INSTRUCTIONS

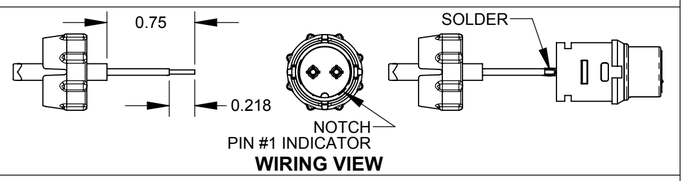
STEP 1
PRESS THE TWO WINGS OF CABLE CLAMP INWARD. THEN THREAD NUT CLOCKWISE ONTO CABLE CLAMP TO THE POSITION SHOWN.



STEP 2
FEED THE END OF THE CABLE THROUGH THE BOOT AND CABLE CLAMP HOUSING IN THE ORDER AND POSITION SHOWN.

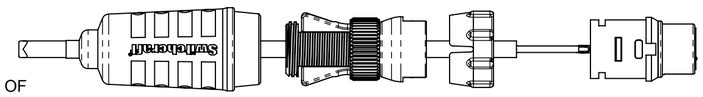


STEP 3
STRIP CABLE AS SHOWN AND BEGIN SOLDERING CONDUCTORS TO PINS. STARTING WITH CONTACT #1 NEXT TO THE "NOTCH" AND FOLLOW WITH THE REMAINING CONDUCTORS CLOCKWISE WITH #6 CONDUCTOR IN THE CENTER.

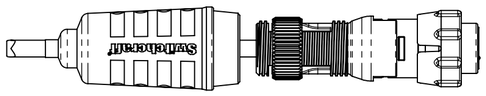


WIRING VIEW

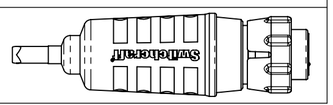
STEP 4
ALIGN COUPLING RING TABS WITH CORD CONNECTOR SIDE NOTCHES THEN PUSH THE COUPLING RING ONTO CORD CONNECTOR UNTIL IT CLEARS THE CORD CONNECTOR SIDE NOTCHES AND SITS FIRMLY ON COUPLING RING STOP TABS.
ALSO ALIGN CABLE CLAMP TABS WITH NOTCHES OF CONNECTOR HOUSING AND PUSH CABLE CLAMP FORWARD UNTIL IT SNAP LOCKS INTO THE REAR OF CONNECTOR HOUSING.



STEP 5
PUSH CABLE CLAMP FORWARD UNTIL IT SNAP LOCKS INTO THE REAR OF CONNECTOR HOUSING.
TURN RETAINING NUT COUNTERCLOCKWISE OVER THE CABLE CLAMP WINGS UNTIL CABLE CLAMP TIGHTENS AGAINST CABLE.



STEP 6
PUSH BOOT ALL THE WAY FORWARD OVER CABLE CLAMP UNTIL FRONT END OF BOOT SEALS TIGHTLY ONTO THE CONNECTOR HOUSING.



PART NUMBER ORDERING CODE

EN3 C F X

- SERIES — **EN3**
- CONNECTOR TYPE — **C** - CORD
- # OF CONTACTS — **2-3** - FOR #16 CONTACTS; **2-6** - FOR #20 CONTACTS; **9-18** - FOR #26 CONTACTS
- GENDER — **F** - FEMALE
- CONTACT SIZE — **16** - #16 CONTACTS (2-3 ONLY); LEAVE BLANK FOR #20 CONTACTS (2-6 ONLY); **26** - #26 CONTACTS (9-18 ONLY)
- CONTACT STYLE — **S** - STAGGERED SOLDER CUP (9-18 PIN ONLY FACE RADIALLY OUTWARD); LEAVE BLANK FOR STANDARD SOLDER CUP (9-18 PIN ONLY FACE UPWARD)
- PACKAGING OPTIONS — **K** - KIT (ONE UNIT PER BAG); LEAVE BLANK FOR BULK PACKAGING
- CABLE CLAMP 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
- **X** - RoHS COMPLIANT

SPECIFICATIONS:

MECHANICAL SPECIFICATIONS:
LIFE: MINIMUM 600 INSERTION / WITHDRAWAL CYCLES WITHOUT MECHANICAL OR ELECTRICAL FAILURE
VIBRATION: MIL-STD 202 METHOD 201
SHOCK: MIL-STD 202 METHOD 213B, CONDITION K

ELECTRICAL SPECIFICATIONS:
VOLTAGE RATING: 250 VAC (WORKING VOLTAGE)
CURRENT RATING: 13.0 AMPS - 2 OR 3 #16 CONTACTS ACCEPTS 16 - 18 AWG
7.5 AMPS - 2-6 #20 CONTACTS ACCEPTS 20 - 22 AWG
6.5 AMPS - 7 OR 8 #20 CONTACTS ACCEPTS 20 - 22 AWG
3.0 AMPS - 9 - 18 #26 CONTACTS ACCEPTS 26 - 28 AWG
CONTACT RESISTANCE: 20 MILLIOHMS MAX
INSULATION RESISTANCE: 100 MEGOHMS MIN
DIELECTRIC WITHSTANDING VOLTAGE: 500 VAC FOR 1 MINUTE

ENVIRONMENTAL SPECIFICATIONS:
TEMPERATURE RATING: -40˚C TO +65˚C (-40˚F TO +149˚F)
MOISTURE RESISTANCE: MIL-STD 202 METHOD 106F
INSULATION RESISTANCE: MIL-STD 202 METHOD 302 CONDITION B
THERMAL SHOCK: MIL-STD 202 METHOD 107G
SALT ATMOSPHERE (CORROSION): MIL-STD 202 METHOD 101D CONDITION B

MATERIAL SPECIFICATIONS:
CONNECTOR SHELL, CONTACT LOCKING DISK & CABLE CLAMP ASSEMBLY - UL94V-0, GLASS FIBER, FLAME RETARDANT, THERMOPLASTIC, BLACK
BOOT & CONNECTOR SHELL INTERIOR - UL94HB,THERMOPLASTIC RUBBER, BLACK
CONTACTS - COPPER ALLOY, GOLD OVER NICKEL PLATE
RETAINING NUT - COPPER ALLOY, NICKEL PLATED

RATINGS:
IEC 60529 IP16 / IP18
IEC 60529 IP66
IEC 60529 IP68 24 HOURS AT 1.8 METERS OF WATER
NEMA 250 6P 24 HOURS AT 1.8 METERS OF WATER

CERTIFICATIONS: UL RECOGNIZED COMPONENT FILE E319753; 2-8 PIN ONLY

NOTES:

1. BOOT, CABLE CLAMP, RETAINING NUT, COUPLING RING AND CONNECTOR ARE BULK PACKED.
2. SUFFIX "K" OPTION IS FOR KIT PACKAGING. ONE BOOT, ONE CABLE CABLE CLAMP, ONE RETAINING NUT AND ONE CONNECTOR PER BAG.
3. THESE PRODUCTS ARE RoHS COMPLIANT.

CUSTOMER DRAWING

SCALE 3:2	Switchcraft®
DATE DRAWN 6-22-15	SHEET 2 OF 2
DRAWN BY TO	PART No. EN3C_F_X — REV 0B

SolidWorks CAD File C