

# SPECIFICATIONS

**MECHANICAL:**  
 SHOCK: MIL-STD 202 METHOD 213B, COND. K.  
 VIBRATION: MIL-STD 202 METHOD 201  
 LIFE: 300 INSERTION/WITHDRAWAL CYCLES (MINIMUM)

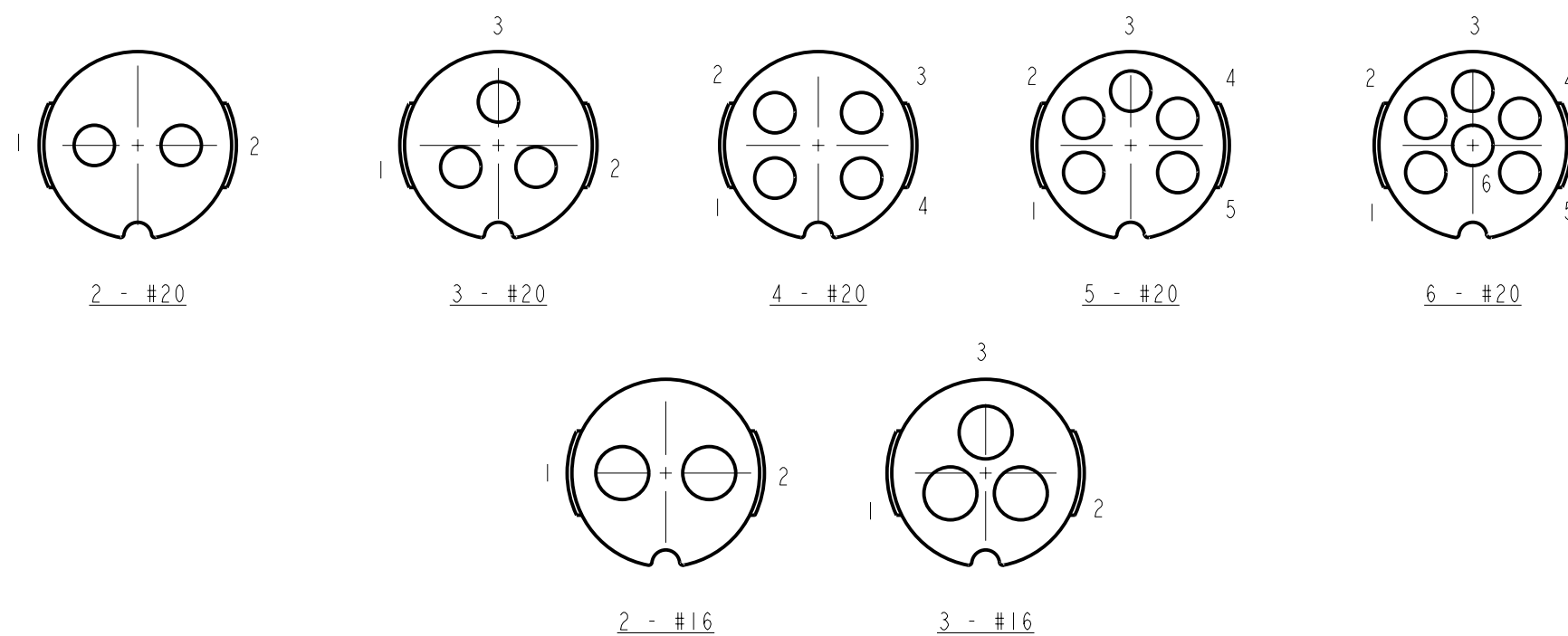
**ELECTRICAL**  
 DIELECTRIC WITHSTANDING VOLTAGE: 1,000 VAC  
 INSULATION RESISTANCE: 100 MEGOHMS (MIN) AT 77°F  
 CONTACT RESISTANCE: 5.0 MILLIOHMS MAX.  
 CURRENT RATING: 7.5 AMPS (#20 CONTACT)  
 13.0 AMPS (#16 CONTACT)

**ENVIRONMENTAL**  
 TEMPERATURE LIMITS: -40°C TO +65°C (NON-OPERATING)  
 MOISTURE RESISTANCE: MIL-STD 202 METHOD 106F  
 INSULATION RESISTANCE: MIL-STD 202 METHOD 302, COND. B  
 THERMAL SHOCK: MIL-STD 202 METHOD 107G  
 SALT SPRAY: MIL-STD 202 METHOD 101D, COND. B  
 WATER TIGHTNESS TEST: U.S. COAST GUARD CFR 46 PART 110.20

**MATERIALS:**  
 INLINE CONNECTOR SHELL, CONTACT LOCKING DISK, AND CABLE CLAMP ASSEMBLY:  
 THERMOPLASTIC POLYMER GLASS FIBER, FLAME RETARDANT

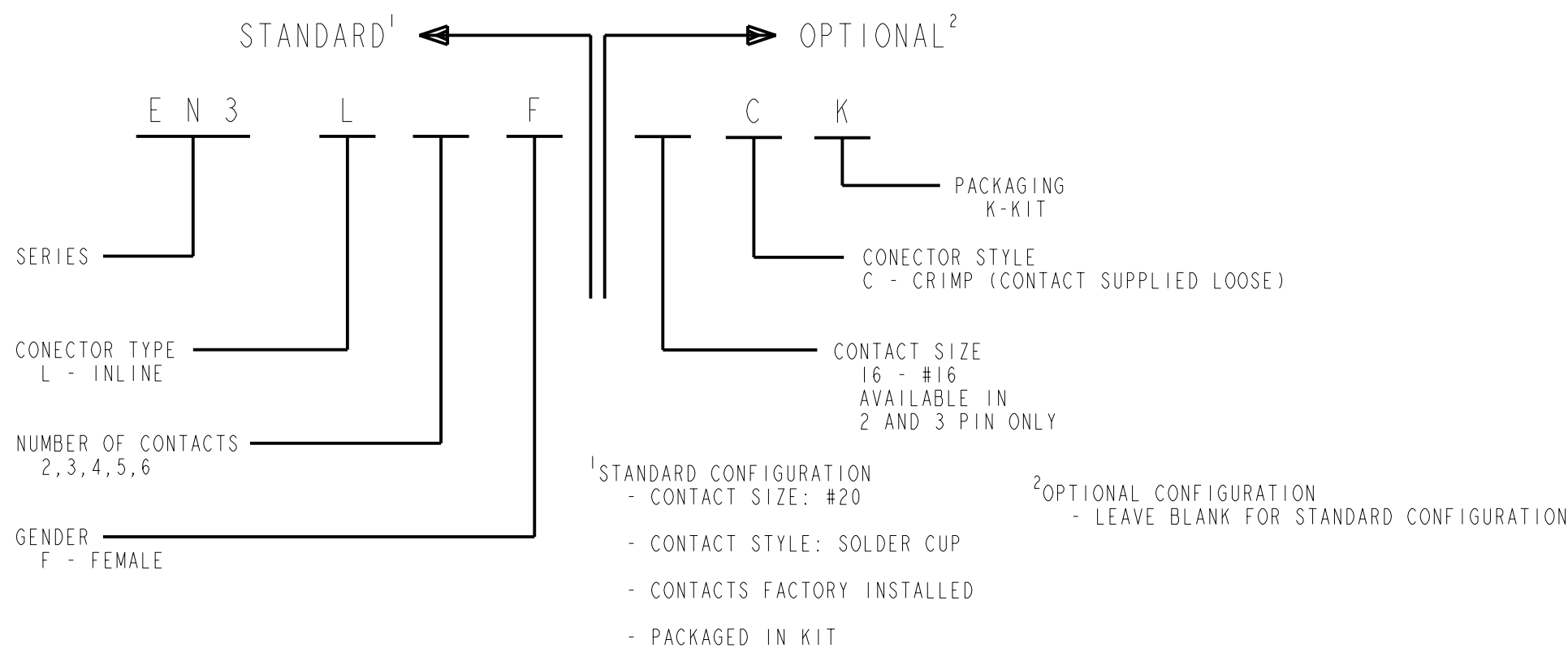
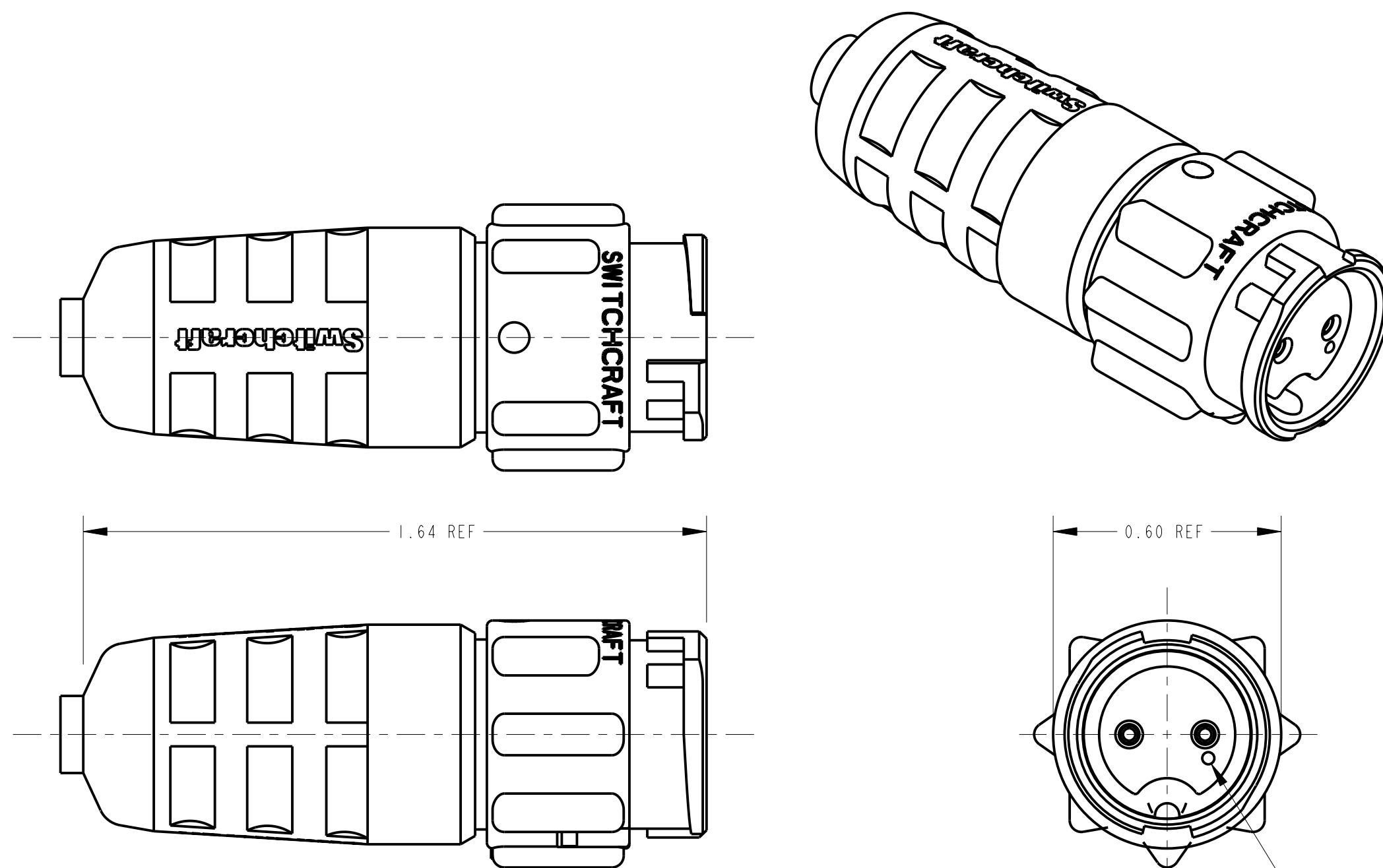
REAR BOOT AND CONNECTOR SHELL INTERIOR:  
 THERMOPLASTIC RUBBER

CONTACTS: COPPER BASE ALLOY GOLD-PLATED OVER NICKEL UNDERPLATE



## CONTACT ARRANGEMENTS

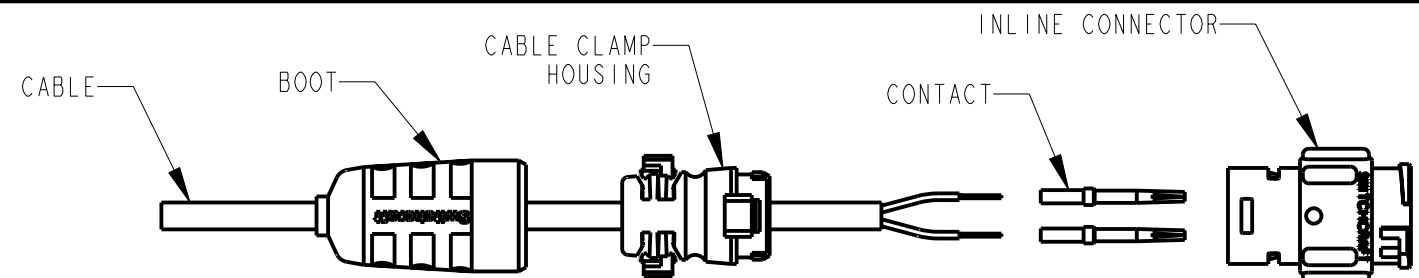
SHOWN ARE REAR VIEWS OF FEMALE INLINE CONNECTORS



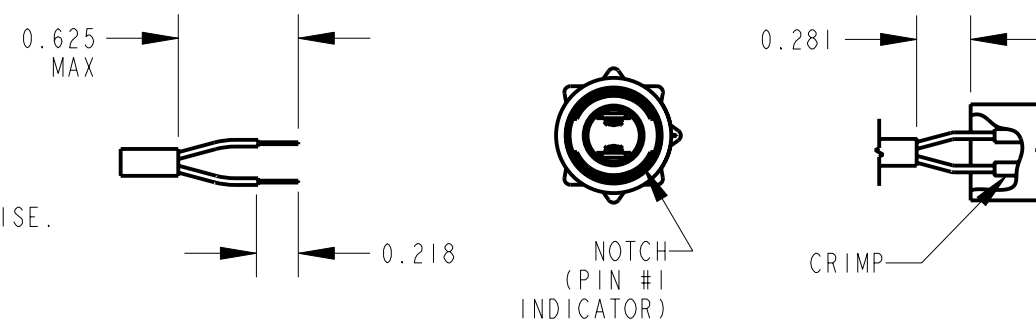
★ STAR SYMBOL DENOTES CRITICAL DIMENSION				THIS DRAWING DESCRIBES A DESIGN CONSIDERED PROPRIETARY IN NATURE, DEVELOPED AND MANUFACTURED BY SWITCHCRAFT INC. AND IS RELEASED ON A CONFIDENTIAL BASIS FOR IDENTIFICATION PURPOSES ONLY.				
UNLESS OTHERWISE SPECIFIED				SIZE	WIDTH	MULT	LBS/M	TEMPER
1. ALL DIMENSIONS IN INCHES				FINISH				MATERIAL
- TWO PLACE DECIMALS ±0.01				SPEC No.				SPEC No.
- THREE PLACE DECIMALS ±0.005				FIRST USED ON				SCALE
- ANGLES ±1°				DATE DRAWN				BY
- ALL DIA. CONCENTRIC WITHIN 0.005 T.I.R.				4-31-96				CCB
2. FEATURES ON THE SAME CENTERLINE MUST BE ALIGNED WITHIN ±0.002				CHKD				APVD
3. REMOVE ALL BURRS				CCB				FL
				4-31-96				4-31-96
DO NOT SCALE DRAWING				NAME				PART No.
				FEMALE INLINE CONNECTOR				EN3L_F_CK
REVISIONS				SHEET				REV
				1 OF 2				B

CUSTOMER DRAWING



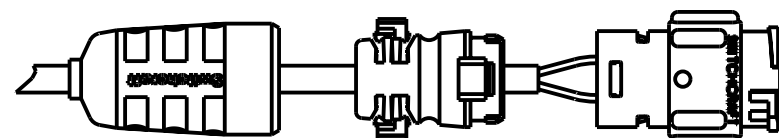


**STEP 1**  
 STRIP CABLE AS SHOWN.  
 FEED THE END OF THE CABLE THROUGH THE BOOT, AND CABLE CLAMP HOUSING, IN THE ORDER AND POSITION SHOWN. CRIMP CONDUCTOR TO CONTACT. CONTACT #1 TO BE NEXT TO NOTCH.

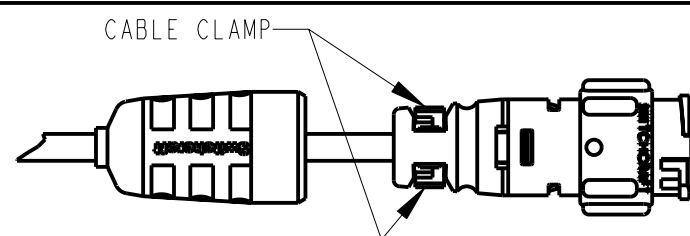


\*\*REMAINING CONTACTS TO BE PLACED COUNTER CLOCKWISE.

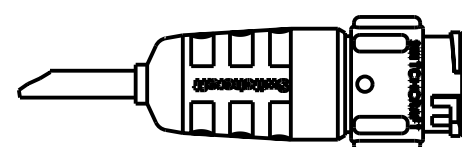
**STEP 2**  
 PUSH THE CABLE CLAMP HOUSING FORWARD UNTIL IT LOCKS INTO THE CONNECTOR BODY.



**STEP 3**  
 SNAP THE TWO CLAMPS INTO IT'S COMPARTMENTS.

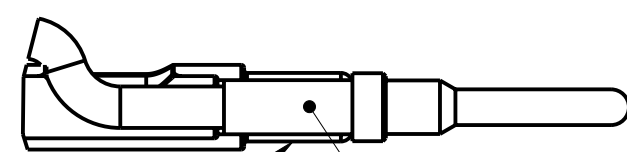


**STEP 4**  
 PUSH THE BOOT ALL THE WAY FORWARD TO SEAT TIGHTLY ONTO THE CABLE CLAMP HOUSING.



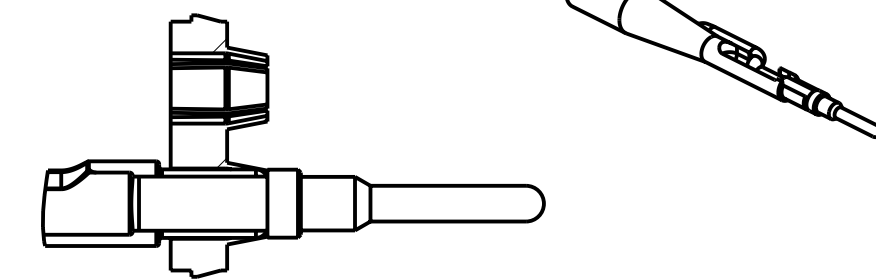
### CONTACT INSERTION INSTRUCTIONS

HOUSING NOT SHOWN



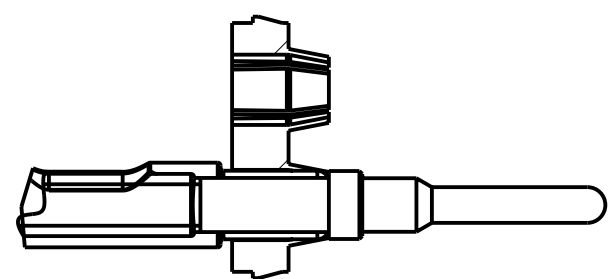
HAND TOOL CONTACT

PLACE CRIMP CONTACT AND CONDUCTOR ONTO HAND TOOL.

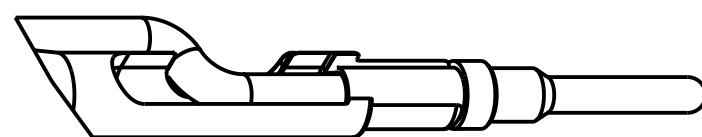


INSERT TOOL INTO HOUSING UNTIL IT BOTTOMS ONTO DISC.

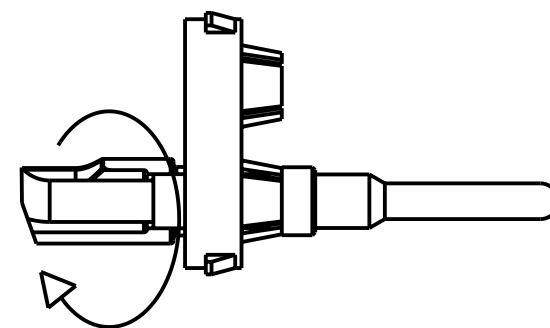
### CONTACT EXTRACTION INSTRUCTIONS



INSERT TOOL INTO HOUSING UNTIL IT BOTTOMS ONTO DISC.



PLACE CONDUCTOR INTO SLOT ON HAND TOOL AS SHOWN.



ROTATE HAND TOOL CLOCKWISE AND REMOVE FROM HOUSING.

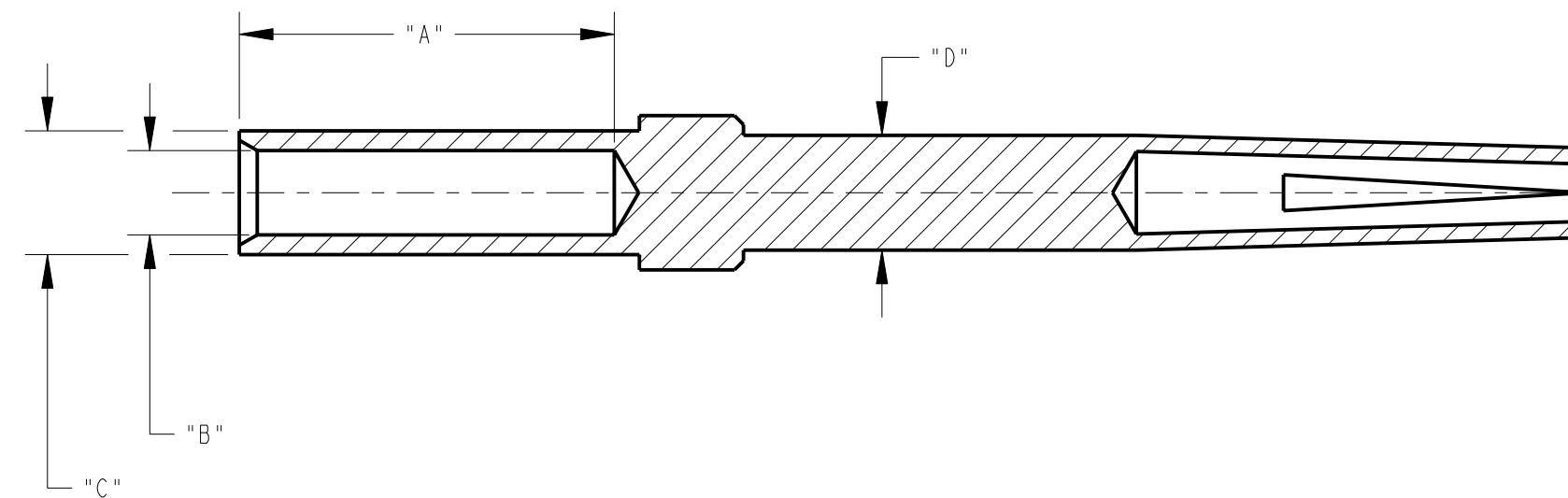
### EN3 CRIMP TOOL

SWITCHCRAFT PART NUMBER	DESCRIPTION	CONTACT SIZE	MANUFACTURER PART NUMBER	MILITARY PART NUMBER
EN3CR	CRIMP HAND TOOL FRAME	#20, #16	DMC MH860	M22520/7-01
EN3CRAUTO	POWER CRIMP TOOL	#20, #16	DMC WA22P	
EN3POS20	POSITIONER	#20	DMC 86-15	M22520/7-02
EN3POS16	POSITIONER	#16	DMC 86-3	M22520/7-04

CONTACT PART NO.	CONTACT SIZE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	WIRE GAUGE RANGE	INSERTION/ EXTRACTION HAND TOOL
EN3CC20F	#20	0.209	0.047	0.069	0.064	#20-22-24	EN3INS20
EN3CC16F	#16	0.218	0.067	0.095	0.093	#16-18-20	EN3IN16

RECOMMENDED STRIP LENGTH: 0.218

ALL DIMENSIONS ARE REFERENCE UNLESS OTHERWISE SPECIFIED



SCALE 3:1	<b>Switchcraft®</b>	
DATE DRAWN 31-Apr-96		
DRAWN BY CCB	PART No. EN3L_F_CK	REV B