SPECIFICATIONS

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

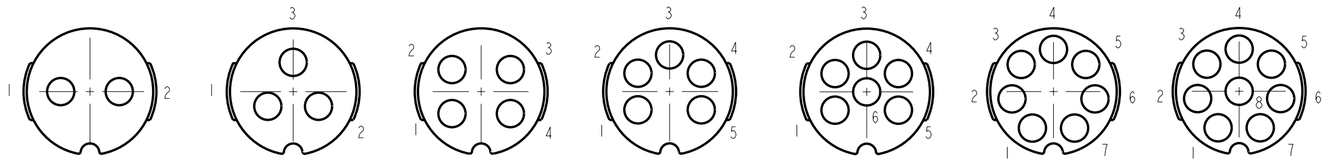
ELECTRICAL
- DIELECTRIC WITHSTANDING VOLTAGE: 1,000 VAC
- INSULATION RESISTANCE: 100 MEGOHMS (MIN) AT 77°F
- CONTACT RESISTANCE: 5.0 MILLOHMS MAX.
- CURRENT RATING: 7.5 AMPS (#20 CONTACT)
  6.5 AMPS (7 & 8 PIN #20 CONTACT)
  13.0 AMPS (#16 CONTACT)

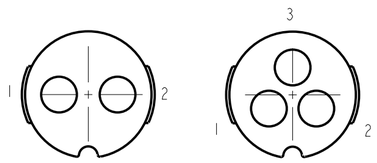
ENVIRONMENTAL
- TEMPERATURE LIMITS: -40°C TO +65°C (NON-OPERATING)
- MOISTURE RESISTANCE: MIL-STD 202 METHOD 106F
- INSULATION RESISTANCE: MIL-STD 202 METHOD 302, COND. B
- THERMAL SHOCK: MIL-STD 202 METHOD 107G
- SALT SPRAY: MIL-STD 202 METHOD 101D, COND. B
- WATER TIGHTNESS TEST: U.S. COAST GUARD CFR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

MATERIALS:
- PANEL CONNECTOR SHELL, CONTACT LOCKING DISC: THERMOPLASTIC POLYMER GLASS FIBER, FLAME RETARDANT
- CONNECTOR SHELL INTERIOR: THERMOPLASTIC RUBBER
- CONTACTS: COPPER BASE ALLOY GOLD-PLATED OVER NICKEL UNDERPLATE
- HEX NUT: THERMOPLASTIC

NOTES:

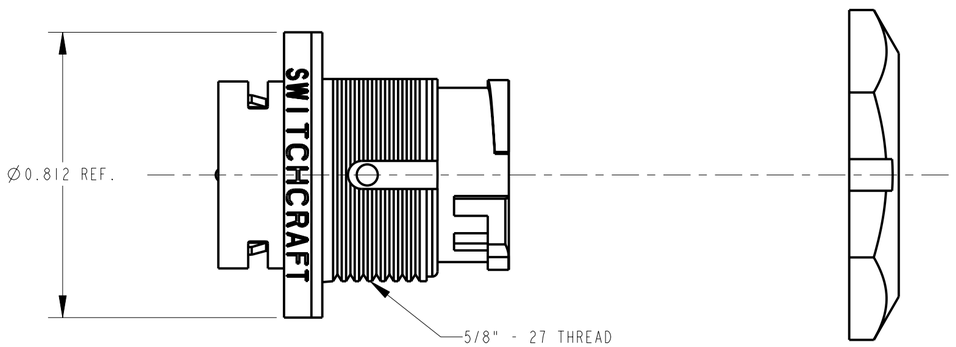
1. HEX NUT TORQUE: 8 TO 10 INCH-LBS. OF TORQUE (MUST NOT EXCEED 10 INCH-LBS.)
2. HEX NUT SHIPPED UNASSEMBLED.
3. CONTACTS SUPPLIED LOOSE.

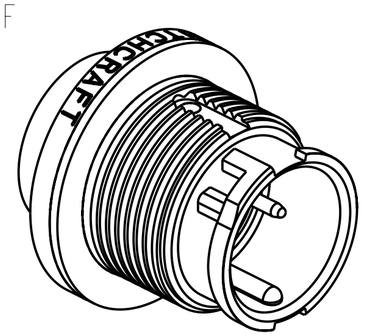


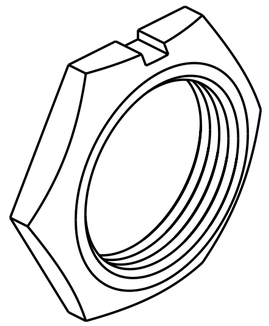


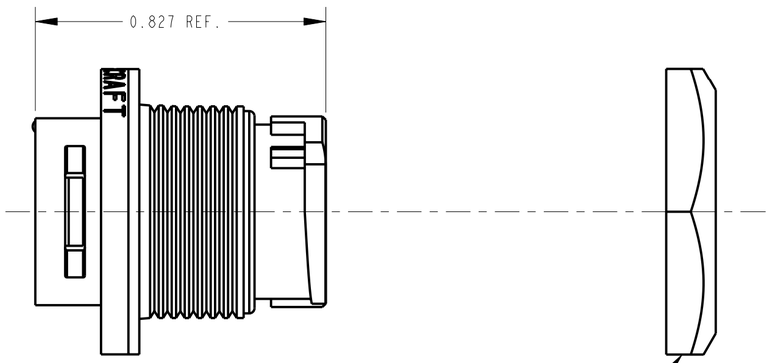
CONTACT ARRANGEMENT

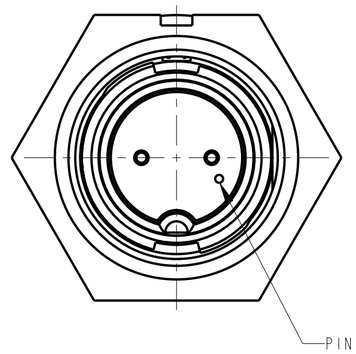
SHOWN ARE REAR VIEWS OF MALE PANEL CONNECTORS











STANDARD[1] ← → OPTIONAL[2]

E N 3 P M C K

- SERIES
- CONNECTOR TYPE: P - PANEL
- NUMBER OF CONTACTS: 2,3,4,5,6,7,8
- GENDER: M - MALE
- CONTACT SIZE: 16 - #16 AVAILABLE IN 2 AND 3 PIN ONLY
- CONTACT STYLE: C - CRIMP (CONTACT SUPPLIED LOOSE)
- PACKAGING: K - KIT

[1]STANDARD CONFIGURATION
- CONTACT SIZE: #20
- CONTACT STYLE: SOLDER CUP
- CONTACT PLATING: GOLD
- PACKAGED IN KIT

[2]OPTIONAL CONFIGURATION
- LEAVE BLANK FOR STANDARD CONFIGURATION

REV	ECO NUMBER	DATE	BY	APVD
E	24661	3-5-04	JL	EB
D	23595	2-6-01	JL	DK
C	22232	4-29-98	SG	RB
B	ECO #21461	11-20-96	MM	FL
A	RELEASE TO MFG. ECO #20698	4-4-94	CCB	RB

REVISIONS

☆ STAR SYMBOL DENOTES CRITICAL DIMENSION

UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS IN INCHES
   - TWO PLACE DECIMALS ±0.01
   - THREE PLACE DECIMALS ±0.005
   - ANGLES ±1°
   - ALL DIA. CONCENTRIC WITHIN 0.005 T.I.R.
2. FEATURES ON THE SAME CENTERLINE MUST BE ALIGNED WITHIN ±0.002
3. REMOVE ALL BURRS

DO NOT SCALE DRAWING

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.

SIZE	WIDTH	MULT	LBS/M	TEMPER

FINISH SPEC No. | MATERIAL SPEC No.

FIRST USED ON | SCALE 3:1

DATE DRAWN	BY	CHKD	APVD
11-22-95	SG	SG 11-22-95	RB 12-1-95

Switchcraft®

SHEET 1 OF 2

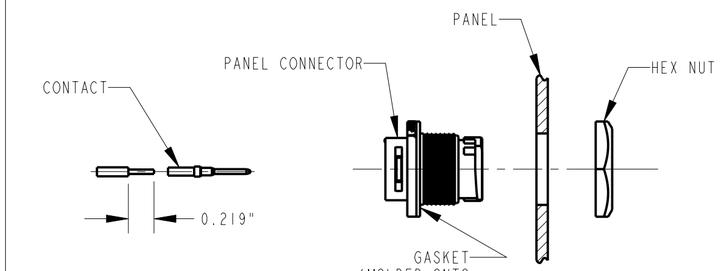
NAME: MALE PANEL CONNECTOR

PART No. EN3P_M_CK | REV E

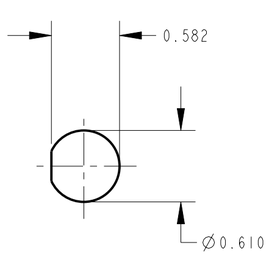
CUSTOMER DRAWING

Pro/Engineer CAD File

SWITCHCRAFT PANEL CONNECTOR ASSEMBLY INSTRUCTIONS



NOTE: STRIP CABLE AS SHOWN
AND CRIMP WIRE TO CONTACT
BEFORE INSERTING TO CONNECTOR



RECOMMENDED
PANEL CUT-OUT

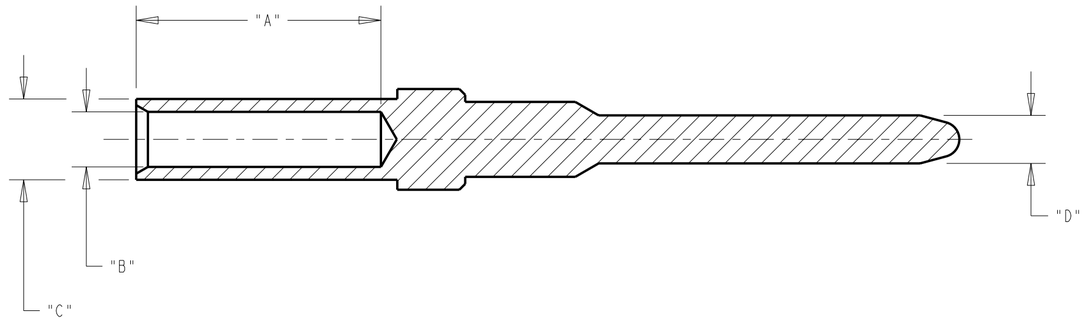
EN3 CRIMP TOOL

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
EN3CC20M	#20	0.209	0.047	0.069	0.041	#20-22-24	EN3INS20
EN3CC16M	#16	0.218	0.067	0.095	0.062	#16-18-20	EN3IN16

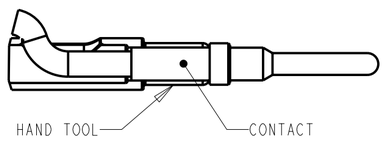
RECOMMENDED STRIP LENGTH: 0.218

ALL DIMENSIONS ARE REFERENCE UNLESS OTHERWISE SPECIFIED

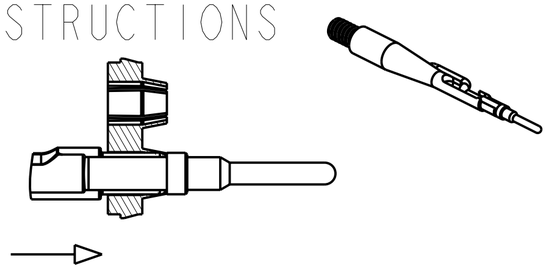


CONTACT INSERTION INSTRUCTIONS

HOUSING NOT SHOWN

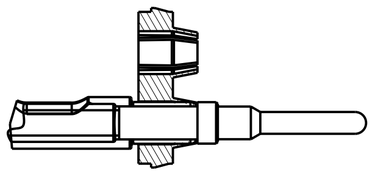


PLACE CRIMP CONTACT
AND CONDUCTOR ONTO HAND TOOL.

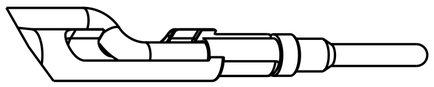


INSERT TOOL INTO HOUSING
UNTIL IT BOTTOMS ONTO DISC.

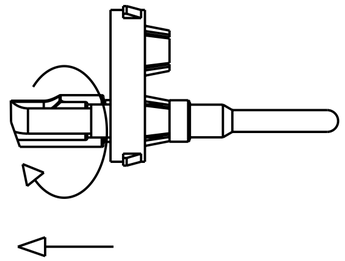
CONTACT EXTRACTION INSTRUCTIONS



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.

CUSTOMER DRAWING

SCALE 3:1	Switchcraft®
DATE DRAWN 15-Apr-96	SHEET 2 OF 2
DRAWN BY CCB	PART No. EN3P_M_CK / REV E

Pro/Engineer CAD File

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