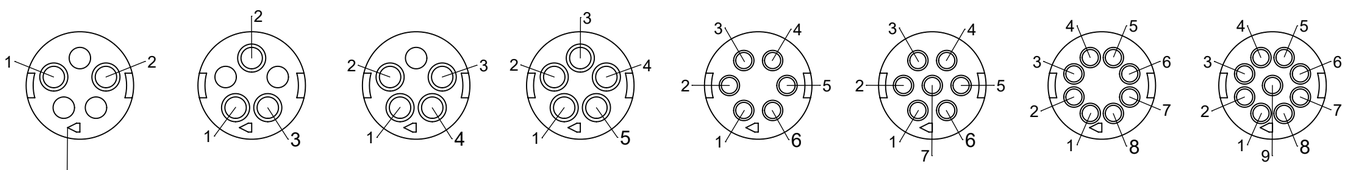


FEMALE (SOCKET) CONTACT ARRANGEMENTS
REAR (WIRING SIDE) VIEW



MALE (PIN) CONTACT ARRANGEMENTS
REAR (WIRING SIDE) VIEW

HS2 P _ _ _ - B P _ _

HS2 Series

P - PANEL CONNECTOR

OF CONTACTS:
2-5 FOR #20 CONTACTS
6-9 FOR #26 CONTACTS

GENDER:
M - MALE (PIN)
F - FEMALE (SOCKET)

CONTACT SIZE:
20 - 20, 22, 24, 26 AWG WIRES
26 - 26, 28, 30 AWG WIRES

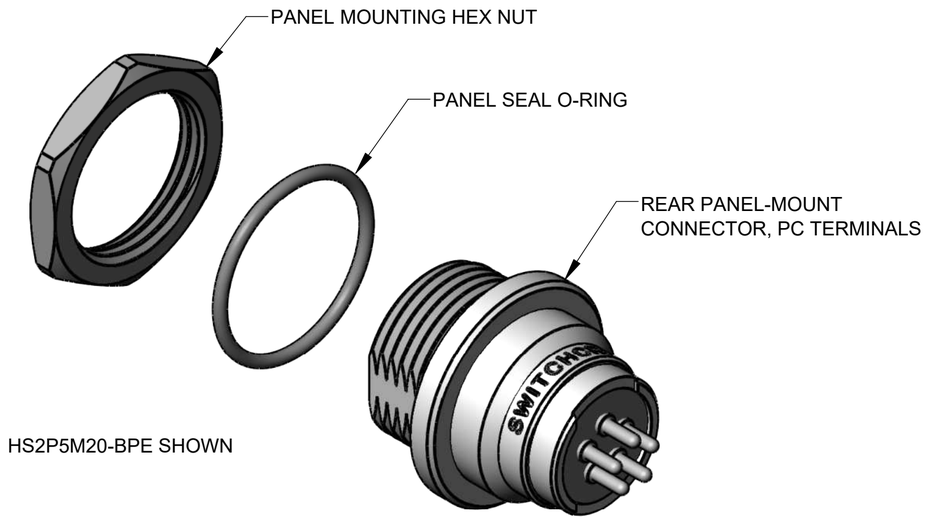
B - REAR PANEL-MOUNT

PC - PC TERMINALS, STRAIGHT TAILS

EPOXY SEAL OPTION:
E - PINS EPOXY SEALED

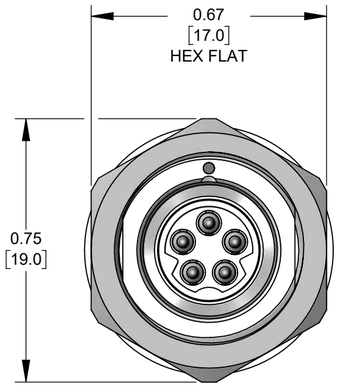
KIT PACKAGING OPTION:
K - ONE UNIT/BAG

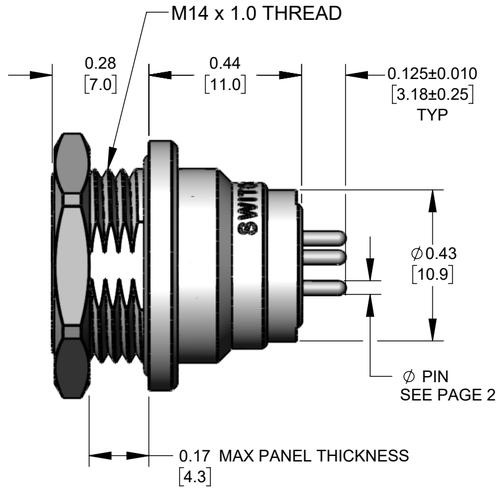
REFER TO "HS2C SERIES" DRAWING FOR MATING CABLE-END CONNECTORS.

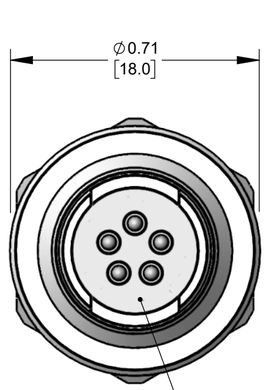


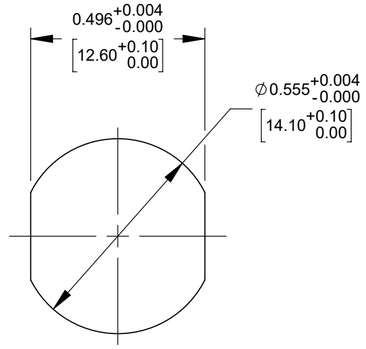
HS2P5M20-BPE SHOWN

SPECIFICATIONS:	
MECHANICAL	
Mating / Locking Type:	Push-Pull automatic locking/unlocking
Life	5,000 cycles minimum
Operating Forces	10 lb. [44.5 N] maximum Insertion or Withdrawal
Vibration	Mil-Std 202G Method 201A
Panel-Mount Hex Nut Tongue	40 in-lb [4.5 Nm] maximum
Cable Securing System:	Threaded on metal Clamp
ELECTRICAL	
Voltage Rating	125 V AC/DC for 2-5 contact arrangements 30 V AC/DC for 6-9 contact arrangements
Current Rating	Refer to Current Carry Capacity Table
Insulation Resistance	1000 MΩ minimum
Contact Resistance	10 mΩ typical
EMI Shielding	360°
ENVIRONMENTAL	
Temperature Limits	-40ºC to +135ºC (-40ºF to +275°F)
Operating Temperature Range	Refer to Current Carry Capacity Table
Moisture Resistance	Mil-Std 202G Method 106G
Insulation Resistance	Mil-Std 202G Method 302
Thermal Shock	Mil-Std 202G Method 107G
Salt Atmosphere (Corrosion)	Mil-Std 202G Method 101E
Ingress Protection Ratings	IP66, IP67, IP68 (6 ft. for 24 hours) per IEC60529, NEMA 250 6P
MATERIAL	
Outer Shell Metal components	Copper Alloy, electroless nickel plated
Hex Nut & Inner Metal components	Copper Alloy, nickel plated
Ground Spring Washer	Stainless Steel
Electrical Insulator	Medical Technology LCP, natural
Seal O-rings	Silicone, red
Contacts	Copper Alloy, gold plated with Stainless Steel locking clip
Connector Potting	Silicone Potting Compound









RECOMMENDED PANEL CUT-OUT

Contacts	Wire (awg)	Current Rating (A) at Operating Temperature (°C)					Minimum Test Voltage (V rms)	Voltage (V rms) tested per UL2238
		45°C max.	65°C max.	85°C max.	100°C max.	110°C max.		
2 #20	20	10	9	8	7*	6	1400	125
	22	8.5	7.5	7.5	5.5*	4.5		
	24	7	6	5	4.5*	3.5		
	26	4	4	3.5	3.5*	2.5		
3 #20	20	9.5	8.5	7.5	6.5*	5		
	22	8	7	6	5*	4		
	24	6	5.5	4.5	4*	3		
	26	3.5	3.5	3	3*	2.5		
4 #20	20	9	8	7	6*	5		
	22	7.5	6.5	5.5	4.5*	3.5		
	24	5	4.5	4	3.5*	2.5		
	26	3	3	2.5	2.5*	2		
5 #20	20	8	7.5	6.5	5.5*	4.5		
	22	6.5	5.5	5	4*	3		
	24	4.5	4	3.5	3*	2.5		
	26	2.5	2.5	2	2*	1.5		
6-7 #26	26	2.5	2.5	2	2*	1.5	1000	30
	28	2	2	1.5	1.5*	1		
	30	1.5	1.5	1	1*	.5		
8-9 #26	26	2	2	1.5	1.5*	1		
	28	1.5	1.5	1	1*	.5		
	30	1	1	.5	.5*	.5		

*Temperature Rise does not exceed 30°C when tested according to UL2238. All other recommended current ratings are based on the Relative Thermal Index of the insulating material.

ALL DIMENSIONS FOR REFERENCE ONLY

CUSTOMER DRAWING

REV	ECO NUMBER	DATE	BY	APVD
B	28361	2/18/21	TJK	TJK
A	28070	8/31/18	TJK	TJK

REVISIONS

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
1. ALL DIMENSIONS IN INCHES [mm]
- TWO PLACE DECIMALS ±0.02 [0.5]
- THREE PLACE DECIMALS ±0.005 [0.13]

DO NOT SCALE DRAWING

SIZE	WIDTH	MULT	LBS/M	TEMPER

FINISH
SPEC No.

MATERIAL
SPEC No.

FIRST USED ON

SCALE 3:1

DATE DRAWN	BY	CHKD	APVD
11/09/16	PNK	PNK 11/09/16	SRC 11/09/16

Switchcraft®

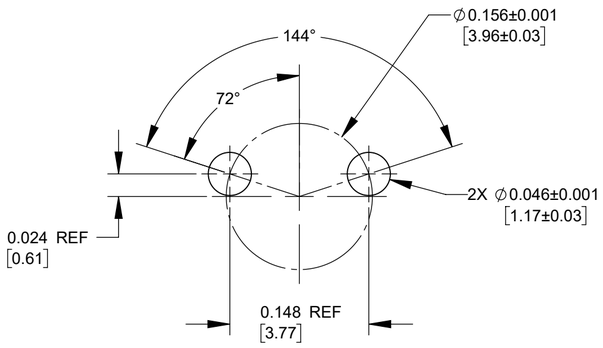
SHEET 1 OF 2

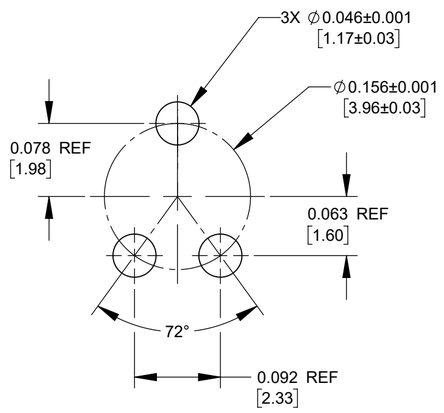
NAME PANEL CONNECTOR
REAR MOUNT, PC TERMINALS, RoHS

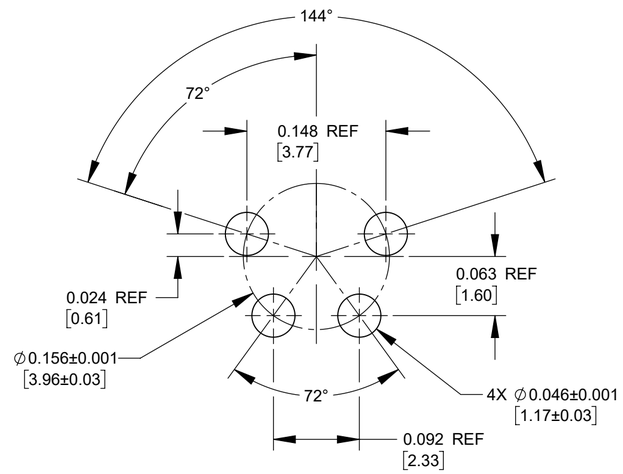
PART No. HS2P_-BP_-BPE SERIES

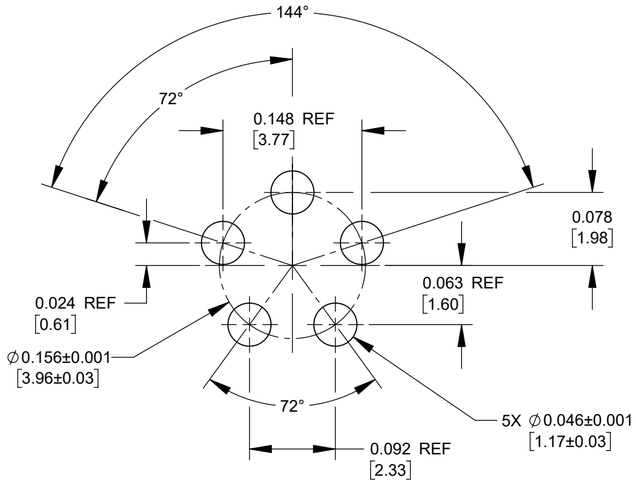
REV B

SolidWorks CAD File C



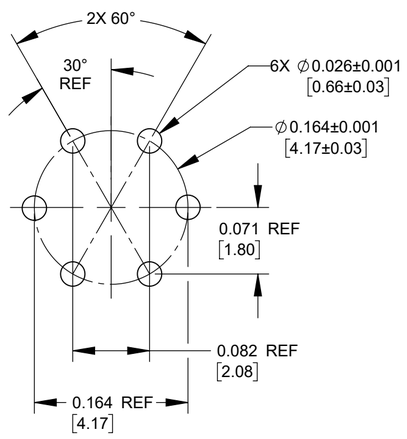


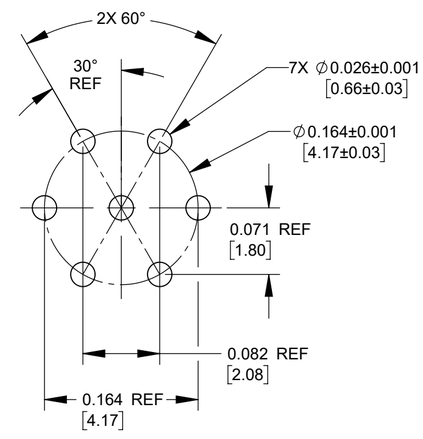


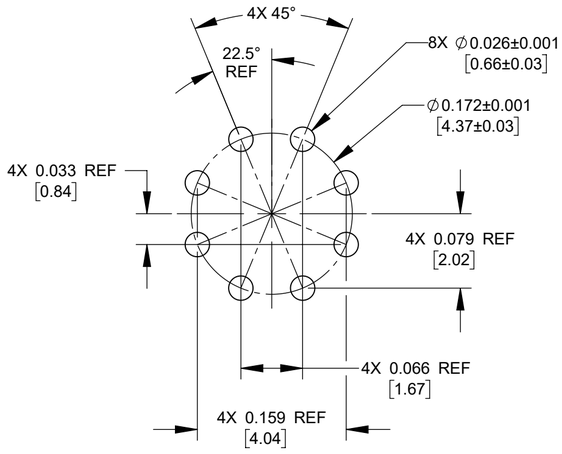


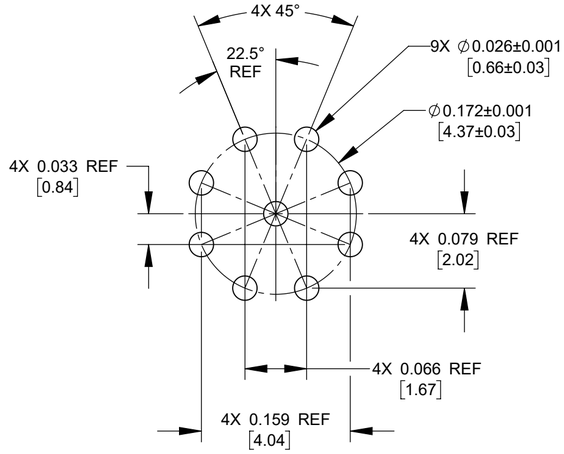
2 - 5 #20 PIN ARRANGEMENTS

#20 PC TAIL DIA.: 0.039±0.001 [1.00±0.03]
RECOMMENDED PCB HOLE SIZE: ∅0.046±0.001 [1.17±0.03]









6 - 9 #26 PIN ARRANGEMENTS

#26 PC TAIL DIA.: 0.020±0.001 [0.51±0.03]
RECOMMENDED PCB HOLE SIZE: ∅0.026±0.001 [0.66±0.03]

CUSTOMER DRAWING

SCALE 8:1	Switchcraft®
DATE DRAWN 11/09/16	SHEET 2 OF 2
DRAWN BY PNK	PART No. HS2P_-BP_BPE SERIES / REV B

SolidWorks CAD File C