

20, 22, 24, and 26 AWG

26, 28, and 30 AWG

20, 22, 24, and 26 AWG

26, 28, and 30 AWG

6

LARGE FRAME

CONTACT INSERTION

CONTACT EXTRUCTION

20 and 22

26

20

26

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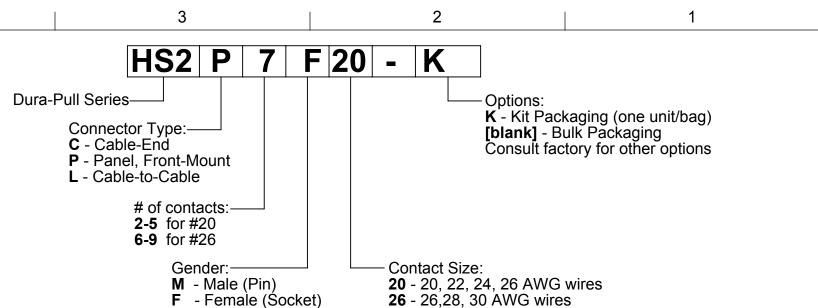
EN3INS20

EN3INS26

REMTOOL20

REMTOOL26

8



Refer to HS2C SERIES drawing for mating Cable-End connectors. Refer to HS2L SERIES drawing for mating Cable-to-Cable connectors.

	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	
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 125 V AC/DC for 2-5 contact arrangements   30 V AC/DC for 6-9 contact arrangements		
Voltage Rating	125 V AC/DC for 2-5 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	-40°C to +135°C (-40°F 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	

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Contacts	Wire (awg)	Curre	ent Rating (A)	at Operating	Temperature	e (°C)	Minimum Test Voltage	Voltage (V rms) tested per	0
		45°C max.	65°C max.	85°C max.	100°C max.	110°C max.	(V rms)	UL2238	
	20	10	9	8	7*	6			
2 #20	22	8.5	7.5	7.5	5.5*	4.5			
2 #20	24	7	6	5	4.5*	3.5			
	26	4	4	3.5	3.5*	2.5			
	20	9.5	8.5	7.5	6.5*	5			
3 #20	22	8	7	6	5*	4			
3 #20	24	6	5.5	4.5	4*	3			
	26	3.5	3.5	3	3*	2.5	1400	125	
	20	9	8	7	6*	5	1400	125	
4 #20	22	7.5	6.5	5.5	4.5*	3.5			
4 #20	24	5	4.5	4	3.5*	2.5			
	26	3	3	2.5	2.5*	2			
	20	8	7.5	6.5	5.5*	4.5			
5 #20	22	6.5	5.5	5	4*	3			
5 #20	24	4.5	4	3.5	3*	2.5			E
	26	2.5	2.5	2	2*	1.5			"
	26	2.5	2.5	2	2*	1.5			
6-7 #26	28	2	2	1.5	1.5*	1			
	30	1.5	1.5	1	1*	.5	1000	30	
	26	2	2	1.5	1.5*	1	1000	30	
8-9 #26 [	28	1.5	1.5	1	1*	.5			
Γ	30	1	1	.5	.5* ording to UL2	.5			

## **CUSTOMER DRAWING**

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					UNLESS OTHERWISE SPECIFIED	SIZE	V	VIDTH	MUL	-	LBS/M		TEM	PER		
					1. ALL DIMENSIONS IN INCHES [mm]	FINISH				MATER	IAL					A
					- TWO PLACE DECIMALS ±0.02 [0.5]	SPEC No.				SPEC N	lo.					
					- TWO FLACE DECIMALS ±0.02 [0.3]	FIRST U	SED O	N	SCALE							l
					- THREE PLACE DECIMALS ±0.005 [0.13]				3:1			$\neg \Box \neg$		1	ſ₽ſ\®	l
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						01/06/16		PNK	SRC							
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REV	ECO NUMBER	DATE	BY	APVD		NAME	CA	BLE-ENI	<u> </u>	PART N	0.				REV	l
	REVISIO	NS		1	DO NOT SCALE DRAWING	HS2 S	ERIE	S CONI	NECTOF	x   ⊢	IS2C S	ERII	ES		0A	
	4				SolidWorks CAD File	$\sim$										



## HS2 SERIES PANEL-MOUNT FIELD ASSEMBLY INSTRUCTIONS:

## 1. STRIP THE CABLE END AND THE CONDUCTORS AS SHOWN HERE.

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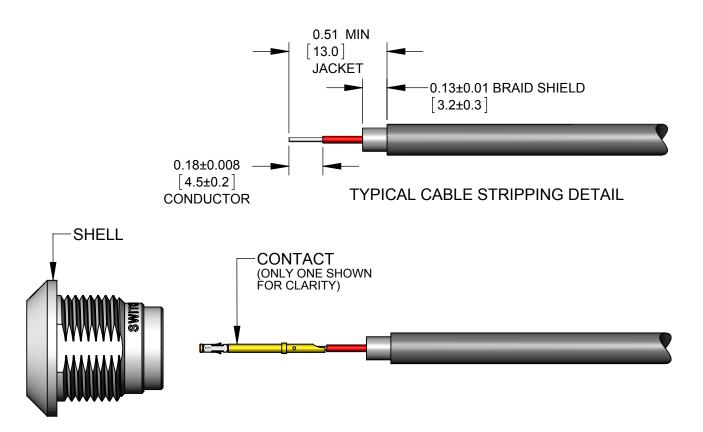
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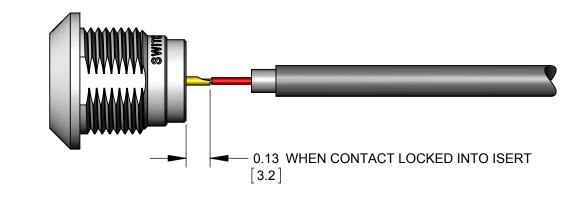
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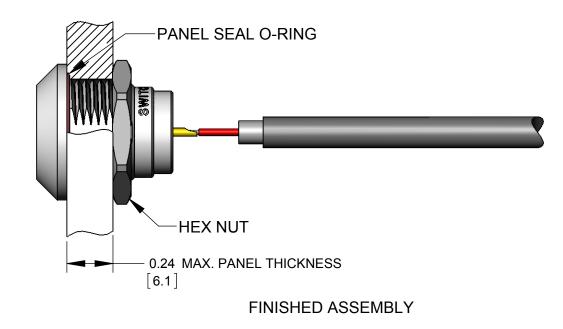
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- 2. CRIMP CONDUCTORS TO CONTACTS USING HAND OR PNEUMATIC CRIMP TOOL\* WITH CRIMP POSITIONER\* SET PER CONTACT SIZE AND WIRE GAGE. IF SOLDERING, IT IS RECOMMENDED TO SOLDER CONDUCTORS TO CONTACTS BEFORE INSERTING THEM INTO INSERT.
- 3. GUIDE EACH WIRED CONTACT INTO INSERT HOLE AND PUSH UNTIL CONTACT SNAPS IN PLACE. USE INSERTION TOOL\* IF NECESSARY. COLORED CONDUCTORS CAN BE ASSIGNED TO CONTACT POSITION NUMBERS AS DESIRED. TO REMOVE A CONTACT, INSERT THE EXTRACTION TOOL\* FROM THE FRONT OF INSERT AND LIGHTLY PRESS THE SPRING LOADED PLUNGER INWARD TO PUSH THE CONTACT OUT.



6. ALIGN AND INSTALL FINISHED CONNECTOR INTO PANEL CUT-OUT. TIGHTEN HEX NUT TO A MAXIMUM OF 40 IN-LB [4.5 Nm].



\*REFER TO TOOLS TABLE ON THIS DRAWING FOR SELECTION OF TOOLS PER CONTACT AND WIRE SIZE.

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Scale 2:1 DATE DRAWN
01/06/16 SHEET 2 OF 2

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