

HS2 P 7 F 26 - K Options: **K** - Kit Packaging (one unit/bag) **[blank]** - Bulk Packaging

Consult factory for other options Contact Size: **20** - 20, 22, 24, 26 AWG wires **26** - 26,28, 30 AWG wires **F** - Female (Socket)

Refer to HS2C SERIES drawing for mating Cable-End connectors. Refer to HS2L SERIES drawing for 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
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	-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 with Stainless Steel locking clip

Contacts	Wire (awg)	Curre	Minimum Test Voltage	Voltage (V rms) tested per					
		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		125	
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		
	20	9	8	7	6*	5	1400		
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			
	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			
	28	2	2	1.5	1.5*	1		30	
	30	1.5	1.5	1	1*	.5	1000		
	26	2	2 1.5	1.5	1.5*	1	1000	30	
8-9 #26 [28	28 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.

CUSTOMER 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.								
					UNLESS OTHERWISE SPECIFIED	SIZE	V	WIDTH MULT			LBS/M		TEMPER	
					1. ALL DIMENSIONS IN INCHES [mm]	FINISH				MATERIAL				
					- TWO PLACE DECIMALS ±0.02 [0.5]	SPEC No. FIRST U	SED ON	I SCALE		SPEC No).			
					- THREE PLACE DECIMALS ±0.005 [0.13]	3:1		3:1	- Smileheraff					
0B	INSTALLATION TOOLS CHANGE, INSTRUCTIONS UPDATE	04/22/16	PNK	SRC		DATE DRAWN	BY	CHKD	APVD				JL E	
0A	PRELIMINARY	01/06/16	PNK	SRC		01/06/16	PNK	PNK 01/06/16	SRC 01/06/16		SHEET	1	of 2	
REV	ECO NUMBER	DATE	BY	APVD		NAME FR	ONT F	PANEL-MO		PART No			•	REV
REVISIONS		DO NOT SCALE DRAWING	HS2 SERIES CONNECTOR, RoHS HS2P S				S2P SI	=RIE	S	0B				

SolidWorks CAD File C

8

REMTOOL26

8

7

6

7

26

6

26, 28, and 30 AWG

5

