

SPEC Pak®

5 Pole Mid Power

- IP68 • Compact Sealed Connector • 3 Phase AC Power Distribution
- Motors & Controls • Industrial Equipment • 60 Amps



**ANDERSON
POWER™**

SPECIFICATIONS

Mechanical		
Environmental Seal		
IEC 60529	IP 68	
UL 50E	UL Approved	
Wire Size	10 to 8 AWG	6.0 to 8.4 mm ²
Operating Temperature		
UL 1977	-40 to 105°C	-40 to 221°F
Mating Cycles (no load)	250 min	
Mating Force (nominal)	28 lbf	125 N
Unmating Force	12 lbf	53 N
Contact Retention Force (min)	50 lbf	222 N
Touch Safe (IEC 60529)	IP 20 (female socket side only)	
Enclosure Ratings	UL 50 E 4 x 4 *	

* Need stainless hardware - type 304 or 316

Electrical		
Current Rating (Amperes)		
UL 1977	CSA	
10 AWG	45A	30A
8 AWG	60A	40A
Voltage Rating		
UL 1977 (AC/DC)	600	
Grounding		
UL 2238, Sec 37.8	Impedance	
Contact Resistance (average)	.300 Milliohms	



Materials	
Shell, Housing & Sealing Nut	PC / PBT
Lanyard	Nylon / Polyester
Contact Holders	PBT - GF
Contact Retention Clip	Be-Cu
Latch	Stainless Steel
Panel Gasket	NBR
Sealing Gland	EPDM
Flammability	UL94 V-0
Glowwire	960°C (GWFI) 825°F (GWIT)
Weatherability	UL 746C F1
Sockets	Copper
SC08-GH	Ag plating over Ni
SC08-SN	Ag plating over Ni
Pins	Copper
PP08SGH	Ag plating over Ni
PC08SSN	Ag plating over Ni
Silver = Ag Nickel = Ni	

IEC 61984

Attributes	
AMP Rating AC	60A
Voltage Rating AC	800V AC (operational)
Finger Safety **	IEC 60529
Protection Degree	IP20 Unmated, IP68 Mated
Wire Size Tested	8 AWG
Contact Series Tested	PC08SSN, PP08SGH SC08-SN, SC08-GH
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test -11j, 11i & 11g
Cycle Life	IEC 60512 Test 9A - 5000 Cycles
Mechanical Strength Impact	IEC 60512 @ 29.5 Inches - dropped 8 times
Temperature Range	-40 to 105°C, -40 to 221°F

Protection

Touch Safety with Finger Proof Housings & Wire Contacts

IEC 60529 IP20 unmated, IP68 mated

* In mated and unmated condition, for standard 8 AWG wire contacts (only)
** Female side unmated

IEC 60950-1

Creepage / Clearance per IEC 60950-1 9.55 (mated or unmated)

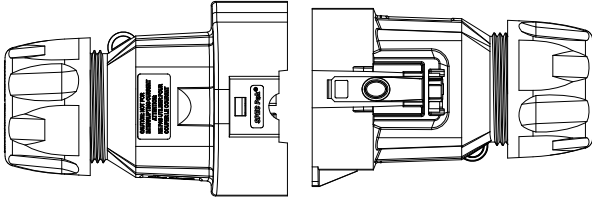
Material Group IIIa

* In mated and unmated condition, for standard 8 AWG wire contacts (only)
** Female side unmated

ORDERING INFORMATION

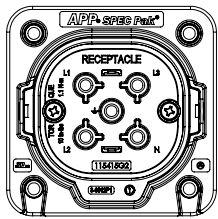
SPEC Pak® is a highly configurable environmentally sealed connector. For convenience, follow the steps below to determine component part numbers.

Step 1: Select Shell



SK1-076D05
Inline Receptacle

SK6-076D05
Plug

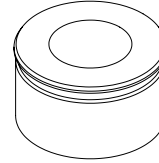


SK2-076D05
Panel Mount Receptacle & Gasket

Description	Part Numbers
Minimum Quantity	25
Inline Receptacle Shell	SK1-076D05
Plug Shell	SK6-076D05
Panel Mount Receptacle	SK2-076D05
Receptacle Cover	SK9-076 (shown on back page)
Plug Cover	SK9P-076 (shown on back page)

• Contact holders are available with multiple keys, please inquire.

Step 2: Select Sealing Gland



* Define:

	<u>Number of Wires</u>	<u>Wire OD</u>
Wires		
- Discrete	_____	_____
- Bundled	_____	_____

* Select wire protection that will accommodate the number of wires and outer diameter (OD) of the wire used in your application.

* Wire protection is required for use with inline receptacles (SK1-076D05) and plugs (SK6-076D05) to obtain IP68 seal.

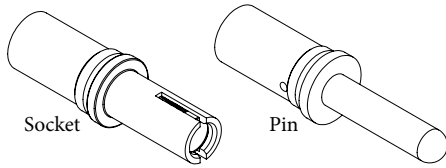
Number of Holes	Cable Range Wire Outer Diameter mm (in)	Sealing Grommet Part Number Only
Minimum Quantity		10
1	20.0 mm - 24.0 mm (0.79" - 0.85")	B02130P7

* For other wire configurations contact manufacturer

Torque Requirements

Hand tighten. Using a 44 mm wrench or strap wrench, tighten an additional 3/4—1 turn (approximately 7.9 Nm (70 in - lb)).

Step 3: Select Contacts



* Define:

	<u>Number of Circuits</u>	<u>Wire Gauge</u>
Contacts		
- Power	_____	_____
- Other	_____	_____
Amps (continuous): _____ Max amps at _____ Volts		

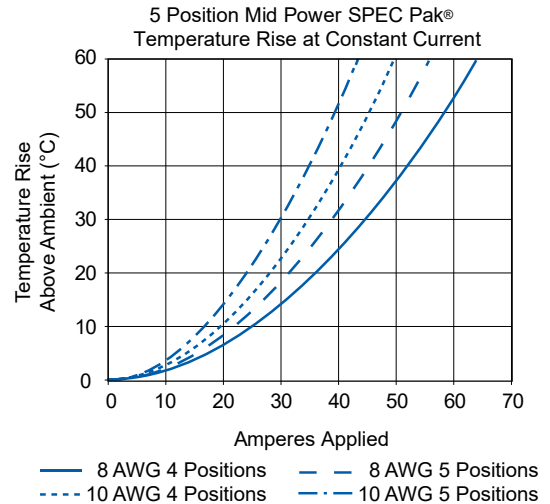
* Select power and/or ground contacts appropriate for your wire size (AWG or mm²).

• Sockets are used in the receptacles (part numbers SK1-076D05 & SK2-076D05)

• Pins are used in the plug (part number SK6-076D05)

• Solid wires not recommended

TEMPERATURE CHART



Description	Part Numbers
Minimum Quantity	10
Power Drawer® #8 socket crimp, hot plug/ground	SC08-GH
Power Drawer® #8 socket crimp, standard mate	SC08-SN
Power Drawer® #8 pin crimp, hot plug/ground	PP08SGH
Power Drawer® #8 pin crimp, standard mate	PC08SSN

TOOLING INFORMATION

Wire Size		Part Number	Crimp Tools									
AWG	MM ²	Power Contacts	Description	Pneumatic Bench Tool	+	Die	+	Locator	OR	Daniels Manufacturing Tool		
										Tool	Die	Locator
#8/10	8.4/6.0	SC08-GH	POWER DRAWER CONTACT, #8 SOCKET CRIMP, FIRST MATE GROUND							M22520/23-01	M22520/23-2	M22520/23-9
#8/10	8.4/6.0	SC08-SN	POWER DRAWER CONTACT, #8 SOCKET CRIMP, STANDARD MATE	1387G1		1388G6		1389G19		M22520/23-01	M22520/23-2	M22520/23-9
#8/10	8.4/6.0	PP08SGH	POWER DRAWER CONTACT, #8 PIN, CRIMP, STANDARD MATE, FIRST MATE GROUND							M22520/23-01	M22520/23-2	M22520/23-9
#8/10	8.4/6.0	PC08SSN	POWER DRAWER CONTACT, 8.4/6.0 #8, PIN, CRIMP, STANDARD MATE							M22520/23-01	M22520/23-2	M22520/23-9
#8/10	8.4/6.0	M81969/14-06	INSERT AND EXTRACT TOOL									

* Must contact Daniels directly for this tooling option, www.dmctools.com



Pneumatic Bench Tool - 1387G1

Locator - 1389G19



Die - 1388G6

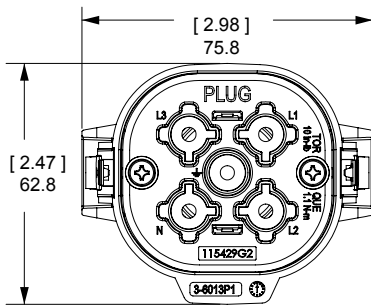


Insert & Extract Tool - M81969/14-06

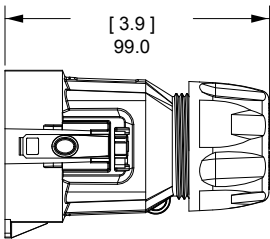
Dimensions

Plug Mid Power | SK6-076D05

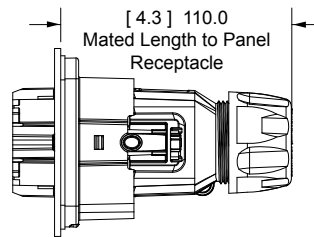
Front View



Side View

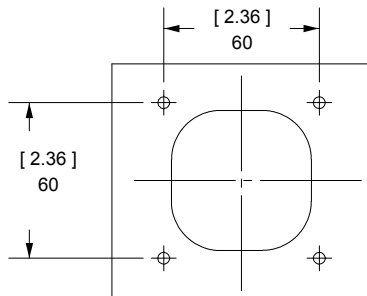


Mated View

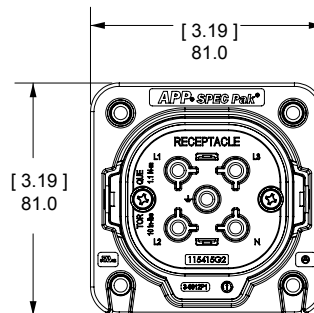


Panel Mount Receptacle Mid-Power | SK2-076D05

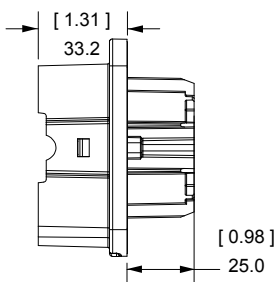
Panel Cut Out



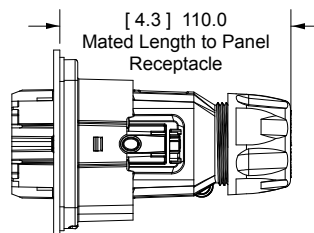
Front View



Side View

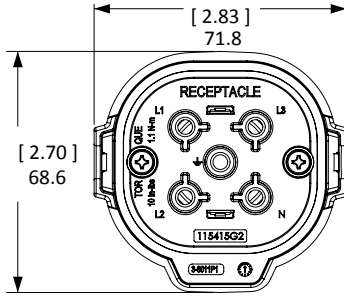


Mated View

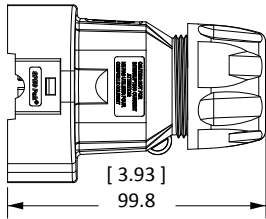


Inline Receptacle Mid-Power | SK1-076D05

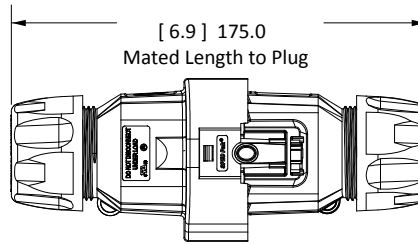
Front View



Side View

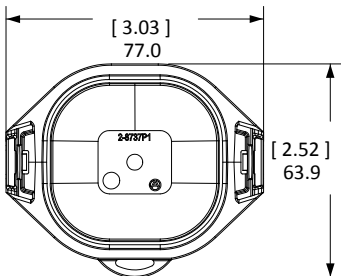


Mated View



Plug Cover Kit | SK9P-076

Front View

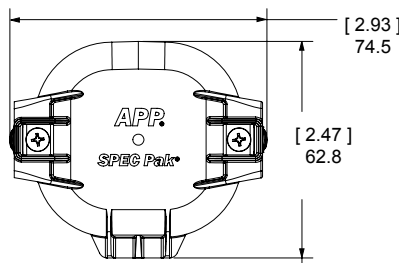


Side View

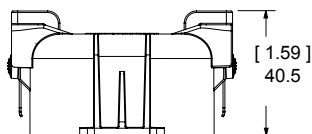


Receptacle Cover Kit | SK9-076

Front View



Side View



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EUROPE: Anderson Power Products® Ltd., Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington, Cheshire, WA5 7TN United Kingdom T: +44 (0) 1925 428390 F: +44 (0) 1925 520203 • **ASIA / PACIFIC:** IDEAL Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T: +(852) 2636 0836 F: +(852) 2635 9036 • **CHINA:** IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou Western Industrial Park, Songgang Baoan District, Shenzhen, PR. China 518105 T: +(86) 755 2768 2118 F: +(86) 755 2768 2218
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