

# SPEC Pak®

## 5 Pole Mid Power

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



**APP**  
Anderson Power Products®

An **IDEAL** Company

## SPECIFICATIONS

### Mechanical

#### Environmental Seal

IEC 60529	IP 68
UL 50E	UL Approved

<b>Wire Size</b>	10 to 8 AWG	6.0 to 8.4 mm <sup>2</sup>
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#### Operating Temperature

UL 1977	-40 to 105°C	-40 to 221°F
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<b>Mating Cycles (no load)</b>	250 min
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<b>Mating Force (nominal)</b>	28 lbf	125 N
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<b>Unmating Force</b>	12 lbf	53 N
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<b>Contact Retention Force (min)</b>	50 lbf	222 N
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<b>Touch Safe (IEC 60529)</b>	IP 20 (female socket side only)
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<b>Enclosure Ratings</b>	UL 50 E 4 x 4 *
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\* 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
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#### Grounding

UL 2238, Sec 37.8	Impedance
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<b>Contact Resistance (average)</b>	.300 Milliohms
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### Materials

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

## IEC 61984

### Attributes

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

#### Touch Safety with Finger Proof Housings & Wire Contacts

<b>IEC 60529</b>	IP20 unmated, IP68 mated
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\* In mated and unmated condition, for standard 8 AWG wire contacts (only)

\*\* Female side unmated

### IEC 60950-1

<b>Creepage / Clearance per IEC 60950-1</b>	9.55 (mated or unmated)
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<b>Material Group</b>	IIIa
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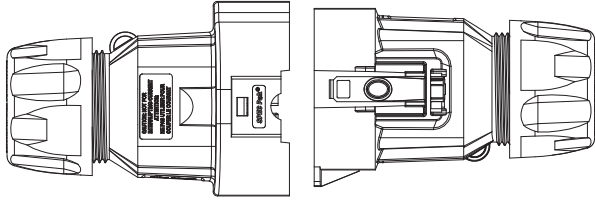
\* In mated and unmated condition, for standard 8 AWG wire contacts (only)

\*\* Female side unmated

## ORDERING INFORMATION

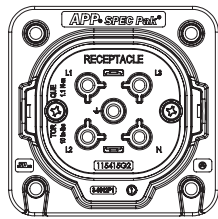
SPEC Pak® is a highly configurable environmentally sealed connector. For convenience, follow the steps below to determine component part numbers.

### Step 1: Select Shell



**SK1-076D05**  
Inline Receptacle

**SK6-076D05**  
Plug

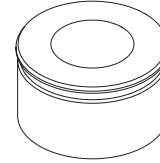


**SK2-076D05**  
Panel Mount Receptacle & Gasket

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.

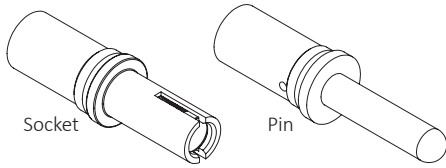
Number of Holes	Cable Range Wire Outer Diameter mm (in)	Sealing Grommet Part Number Only
Minimum Quantity		10
1	20.0 mm- 24.0 mm (0.79" - 0.85")	B02130P7

\* 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:

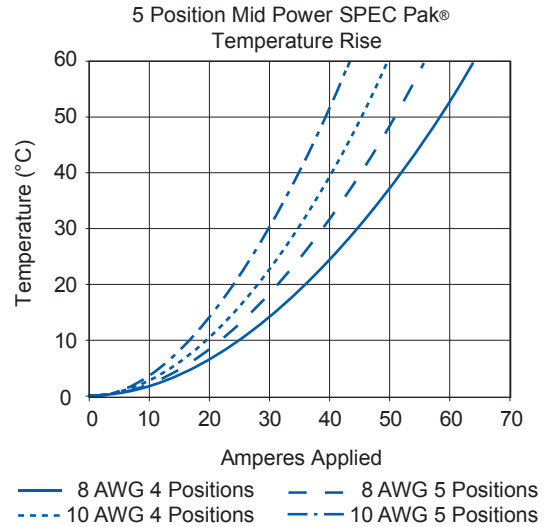
	<u>Number of Circuits</u>	<u>Wire Gauge</u>
Contacts	_____	_____
- Power	_____	_____
- Other	_____	_____

Amps (continuous): \_\_\_\_\_ Max amps at \_\_\_\_\_ Volts

\* Select power and/or ground contacts appropriate for your wire size (AWG or mm<sup>2</sup>).

- 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 <sup>2</sup>	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](http://www.dmctools.com)



Pneumatic Bench Tool - **1387G1**

Locator - **1389G19**



Die - **1388G6**

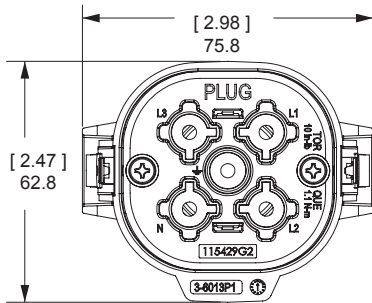


Insert & Extract Tool - **M81969/14-06**

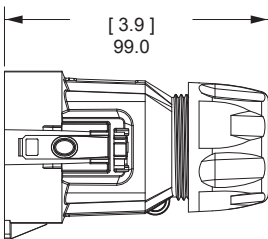
# Dimensions

## Plug Mid Power | SK6-076D05

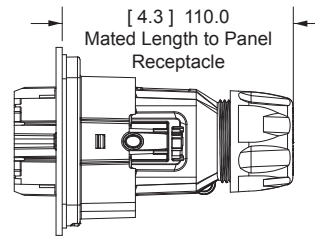
Front View



Side View

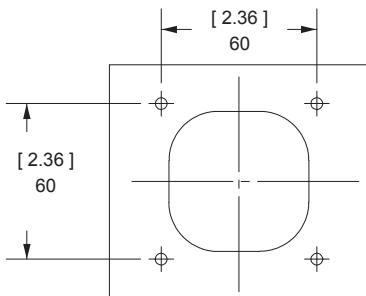


Mated View

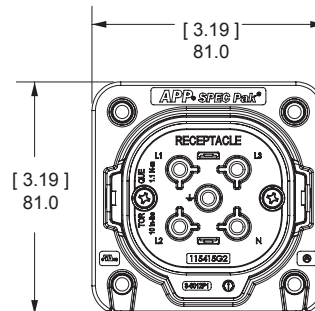


## Panel Mount Receptacle Mid-Power | SK2-076D05

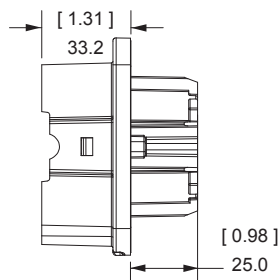
Panel Cut Out



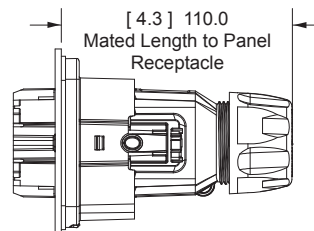
Front View



Side View

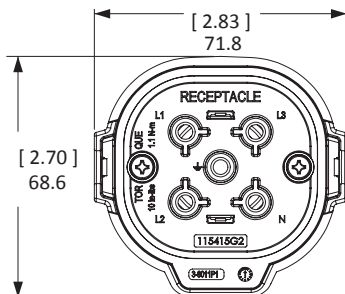


Mated View

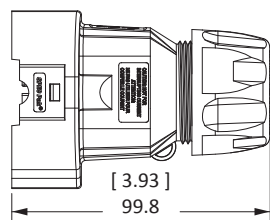


## Inline Receptacle Mid-Power | SK1-076D05

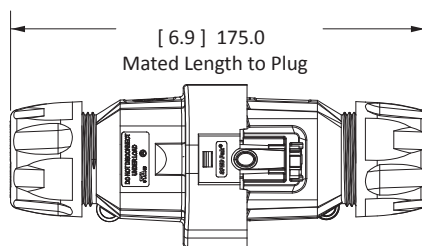
Front View



Side View

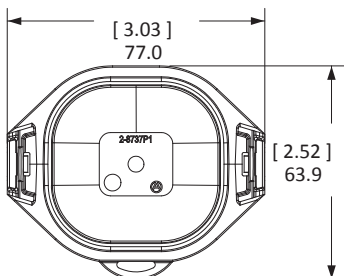


Mated View



## Plug Cover Kit | SK9P-076

Front View

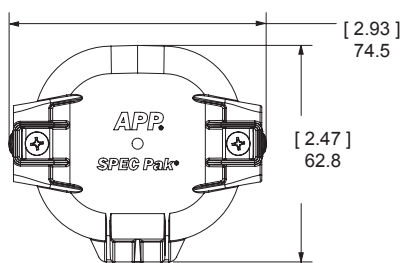


Side View

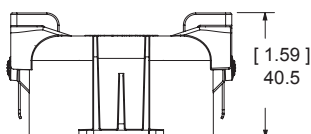


## Receptacle Cover Kit | SK9-076

Front View



Side View



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