SPEC PAK®

Solar 5 Position Mid Power

- Solar Power Wind Power DC Lighting Inverters Battery Backup IP68 Rated
- LED Lighting Solar Panels Combiner Boxes Hydro-Electricity Micro Inverters





SPECIFICATIONS

UL6703 MECHANICAL		
Operating Temperature		
UL 6703	-40 to 90°C	-40 to 194°F

Electrical

Current Rating (Amperes)	UL 6703
8 AWG	37A
Voltage Rating	600V
Grounding	
UL 2238, Sec 37.8	UL Tested
Environmental Seal	
UL6703	IP68 (mated only)

UL1977 MECHANICAL					
Environmental Seal					
IEC 60529 UL 50E	IP 68 UL Approved				
Wire Size	8 AWG	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 side only)				
Enclosure Ratings	UL 50E 4/4x *				

Electrical

Current Rating (Amperes)	UL 1977	CSA	
8 AWG	60A	40A	
Voltage Rating			
UL 1977 (AC/DC)	600V		
Grounding			
UL 2238, Sec 37.8	Impedance		
Contact Resistance (average)	erage) 0.300 Milliohms		

^{*} Need stainless hardware- type 304 or 316



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

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

IEC 60950-1

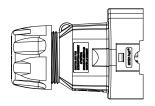
Creepage / Clearance per IEC 60950-1	9.55 (mated or unmated)				
Material Group	Illa				

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

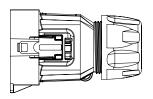
ORDERING INFORMATION

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

Step 1: Select Shell







PK6-076D05 Plug Shell



PK2-076D05

Panel Mount Receptacle & Gasket

Description	Part Numbers
Minimum Quantity	25
Inline Receptacle Shell	PK1-076D05
Plug Shell	PK6-076D05
Panel Mount Receptacle	
& Gasket	PK2-076D05
Receptacle Cover Kit	PK9-076 (shown on back page)
Plug Cover Kit	PK9P-076 (shown on back page)

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

Step 2: Select Sealing Gland



Deline:		
	Number of Wires	Wire OD
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 receptacle shell (PK1-076D05) and plug shell (PK6-076D05) to obtain IP68 seal.

Number of Holes	Cable Range Wire Outer Diameter mm (in)	Sealing Grommet Part Number Only
Minimum		
Quantity		10
1	20 mm (0.79)	B02266P7

• For other wire configurations contact manufacturer

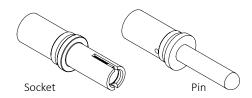
Wire Test Approval

- Type TC-ER, 8 AWG 5/C sunlight resistant
- Rated minimum 90°C dry: 90°C wet
- 600V with outer diameter of cord 20 mm (0.79)

Torque Requirements

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

Step 3: Select Contacts

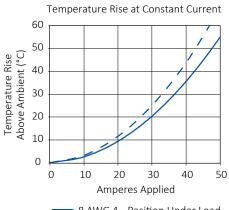


- * Select power and/or ground contacts appropriate for your wire size (AWG or mm²)
- Sockets are used in the receptacles (part numbers PK1-076D05 & PK2-076D05)
- Pins are used in the plug (part number PK6-076D05)
- Solid wires not recommended

Description	Part Numbers
Minimum Quantity	10
Power Drawer® 8 AWG Socket Crimp, Hot Plug/Ground	SC08-GH
Power Drawer® 8 AWG Socket Crimp, Standard Mate	SC08-SN
Power Drawer® 8 AWG Pin Crimp, Hot Plug/Ground	PP08SGH
Power Drawer® 8 AWG Pin Crimp, Standard Mate	PC08SSN

TEMPERATURE CHART - PER UL 1977

Solar 5 Position Mid Power SPEC Pak®



8 AWG 4 - Position Under Load8 AWG 5 - Position Under Load

TOOLING INFORMATION

Wire	Size	Part Number		Crimp Tools								
		Power		Pneumatic						Daniels Mfg Tool *		
AWG	MM ²	Contact		Bench Tool	+	Die	+	Locator	OR	Tool	Die	Locator
	8.4 to 6.0	SC08-GH	POWER DRAWER CONT. 8 AWG SOC.CRIMP, FIRST MATE GROUND	1387G1		1388G6				M22520/23-01	M22520/23-2	M22520/23-9
		SC08-SN	POWER DRAWER CONT. 8 AWG SOC.CRIMP, STD.MATE							M22520/23-01	M22520/23-2	M22520/23-9
8 to 10		PP08SGH	POWER DRAWER CONT. 8 AWG PIN,CRIMP, STD.MATE, FIRST MATE GROUND					1389G19		M22520/23-01	M22520/23-2	M22520/23-9
		PC08SSN	POWER DRAWER CONT. 8 AWG PIN,CRIMP, STD.MATE							M22520/23-01	M22520/23-2	M22520/23-9
		M81969/14-06	INSERT AND EXTRACT TOOL									
N	I/A	PKT-076TO1	MID POWER SOLAR SPEC PAK RELEASE TOOL									

 $^{^{\}star}$ Must contact Daniels directly for this tooling option, ${\bf www.dmctools.com}$





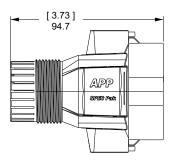




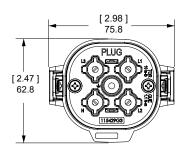
DIMENSIONS

Plug Shell | PK6-076D05

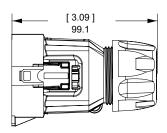
Top View



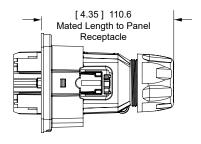
Front View



Side View

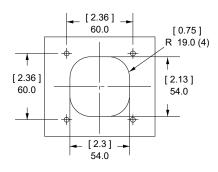


Mated View

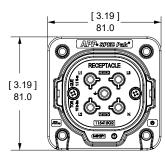


Panel Mount Receptacle & Gasket | PK2-076D05

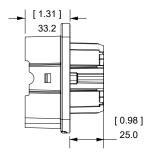
Panel Cut Out



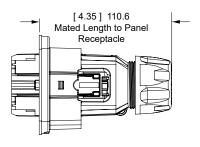
Front View



Side View

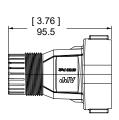


Mated View

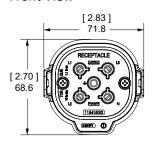


Inline Receptacle Shell | PK1-076D05

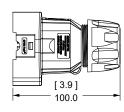
Top View



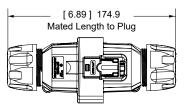
Front View



Side View

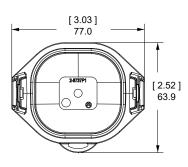


Mated View



Plug Cover Kit | PK9P-076

Front View

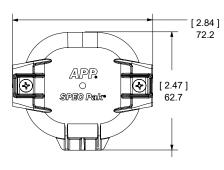


Side View

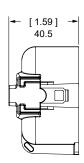


Receptacle Cover Kit | PK9-076

Front View



Side View



^{*} Covers are only for transporting conditions; not UL6703 approved.

Your Best Connection™

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