# 

**Sealed Power Plugs and Jacks** 



# IP68/ NEMA 250 (6P) Sealed Power Plug and Jack

# **Applications:**

- Outdoor power supplies where a weather resistant connection is needed
- Medical equipment where the power plug would need to be water proof
- Lighting connections where a rugged harsh environment connector would provide the most reliable sealed connection

# **Key Features:**

- IP rating of IP68/ NEMA 250 (6P), for properly mated Switchcraft sealed jack and plug, makes the device perfect for harsh environments
- Available in multiple pin diameters
- Automatic switch over from AC to DC permitted by sleeve shunt spring
- Optional IP rated cap (JCAP) protects Jack when not in use
- Up to 5A current rating (carry), at 65°C, up to 30 VDC
- Overmold options available
- Color coded plug finger

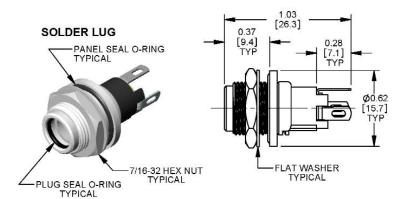


Harsh Environment Connectivity Solutions



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# Sealed Power Plugs and Jacks

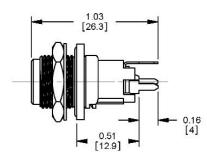


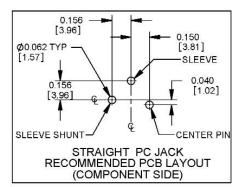


SCHEMATIC - TYPICAL

RECOMMENDED PANEL MTG HOLE:  $0.440\pm0.002$  [11.18 $\pm0.05$ ] - TYPICAL

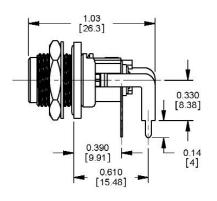


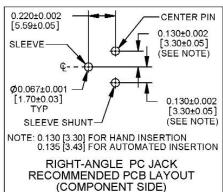














DIMENSIONS SHOWN FOR REFERENCE ONLY, inches [mm]

Part Number	Center Pin/ Jack Size	Terminal Type	Mating Power Plug		
L712AS		Solder Lugs			
PCL712AS	0.10 [2.5]	Straight PC	761KS12, 761KS15, 761KS17		
L712RAS		Right-angle PC			
L722AS		Solder Lugs	07041/040 07041/045 07041/047		
PCL722AS	0.08 [2.0]	Straight PC	\$761K\$12, \$761K\$15, \$761K\$17, 767K\$12, 767K\$15, 767K\$17		
L722RAS		Right-angle PC	7071(012, 7071(010, 7071(017		
JCAP	Power Jack Seal Cap				

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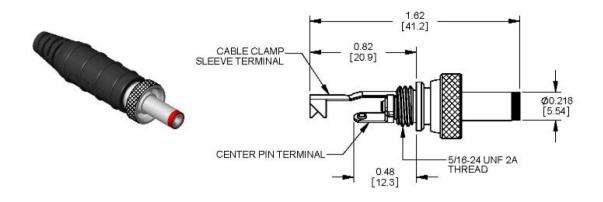


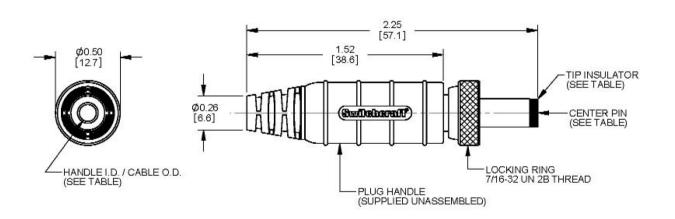
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# **Sealed Power Plugs and Jacks**





DIMENSIONS SHOWN FOR REFERENCE ONLY, inches [mm]

Part Number	Center Pin I.D./ Plug Size	Tip Insulator Color	Cable Nominal O.D. Range	Mating Power Jacks
761KS12	0.10 [2.5]	Black	0.125 - 0.150 [3.2 - 3.8mm]	L712AS, L712RAS, PCL712AS
761KS15		Black	0.150 - 0.175 [3.8 - 4.4mm]	
761KS17		Black	0.175 - 0.200 [4.4 - 5.1mm]	
S761KS12	0.08 [2.0]	White	0.125 - 0.150 [3.2 - 3.8mm]	L722AS, L722RAS, PCL722AS
S761KS15		White	0.150 - 0.175 [3.8 - 4.4mm]	
S761KS17		White	0.175 - 0.200 [4.4 - 5.1mm]	
767KS12	0.084 [2.1]	Red	0.125 - 0.150 [3.2 - 3.8mm]	L721AS, L721RAS, PCL721AS
767KS15		Red	0.150 - 0.175 [3.8 - 4.4mm]	
767KS17		Red	0.175 - 0.200 [4.4 - 5.1mm]	



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# **Sealed Power Plugs and Jacks**

### **Power Jack - Specifications**

#### Features:

- IP66, IP67, IP68 / NEMA 250 (6P) when mated
- Automatic switch over from AC to DC permitted by sleeve shunt spring
- Split center pin shaped to hold mating plug firmly
- Right Angle versions offer "kinked" PC terminals for board retention
- Optional IP rated cap (JCAP) protects jack when not in use
- Operating temperature range is -20°C to +65°C

#### Materials:

Housing: Rigid thermoplastic

Bushing: Plated copper alloy, with assembled &

lubricated o-ring

Terminals: Plated copper alloy Insulators: Rigid Thermoplastic

Hardware: Supplied with one nickel plated copper alloy hex nut (P1489), one nickel plated steel flat washer (P3031) and one o-ring for sealing jack

to panel

#### Electrical:

Current Rating (carry): 5A, up to 30V DC at 65°C Contact Resistance: 0.01 Ohms max (initial), 0.02 Ohms (after humidity, durability exposure), 0.10 Ohms max. (after salt spray)

Insulation Resistance: 10,000 Mohms min. (initial), 1,000 Mohms (after humidity, durability exposure)

Dielectric Withstanding Voltage: 500VAC max.

### **Power Plug - Specifications**

#### Features:

- IP66, IP67, IP68 / NEMA 250 (6P) when mated
- Hollow center pin available in 3 pin diameters (2.5mm, 2.1mm, 2.0mm)
- Locking ring provides security in critical applications
- Sleeve terminal serves as cord clamp
- Handle/Boot with cable strain relief
- Operating temperature range is -20°C to +65°C

#### Specifications:

Plug Sleeve and Pin: Plated copper alloy

Lock Ring: Plated copper alloy

Lock Ring Thread Size: 7/16-32 UN2B thread

Finger Insulator: Rigid thermoplastic Insulating Washer: Rigid thermoplastic

Sleeve Terminal: Plated copper alloy, electro-tinned

Handle: Rigid thermoplastic overmolded with

thermoplastic elastomer

Handle Thread Size: 5/16-24 UNF 2A Electrical: Current (carry) 5A at 65°C

## **Overmold Option**



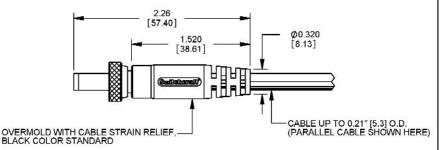
# **Seal Cap - Specifications**

#### Features:

- IP66, IP67, IP68 / NEMA 250 (6P) when mated

### Material:

Thermoplastic Elastomer



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