

## uxcell PG9

# uxcell PG9 Cable Gland Instruction Manual

Model: PG9 | Brand: uxcell

## 1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of the uxcell PG9 Cable Gland. Designed for securing and sealing cables, this product ensures reliable and waterproof connections in various electrical applications. Please read this manual thoroughly before use to ensure safe and effective operation.

## 2. PRODUCT OVERVIEW

The uxcell PG9 Cable Gland is a waterproof plastic joint designed for cable fixing and sealing. It features an adjustable locknut mechanism, providing a secure and reliable connection for cables with diameters ranging from 4mm to 8mm. The gland is constructed from durable nylon plastic, ensuring an anti-loose structure and long service life.



Image 2.1: A set of five white uxcell PG9 cable glands, showing their complete assembled form.

### Key Features:

- **Type:** PG9
- **Cable Diameter Fit:** 4mm-8mm (0.16inch-0.31inch)
- **Thread Diameter:** 15.2mm (0.6inch)
- **Thread Length:** 9mm (0.35inch)
- **Material:** Durable Nylon Plastic
- **Design:** Anti-loose structure for reliable connection
- **Installation:** Direct insertion and easy tightening without disassembly
- **Components:** Consists of a lock nut, valve body, seal, and sealing nut
- **Applications:** Suitable for cable fixing, wiring, mechanical control boxes, switchboards, and various electrical appliances.



Image 2.2: Various application examples of cable glands, including use on a junction box, control panel, and power outlets.

### 3. SPECIFICATIONS

Attribute	Value
Manufacturer	uxcell
Part Number	a18032200ux0391
Item Weight	1.58 ounces
Model Number	a18032200ux0391
Size	PG9
Color	White
Style	Industrial

Attribute	Value
Material	Nylon, Plastic
Installation Method	Threaded (Note: Product data listed 'Self-Adhesive', but actual installation is threaded)
Item Package Quantity	5
Number Of Pieces	5
Cutting Diameter	0.31 Inches (for cable)
Measurement System	metric
Assembled Diameter	0.31 Inches (for cable)

## Normal Parameter:

Model	Thread Size	Cable Range(mm)	Thread O.D.(mm)	Thread Length(mm)
PG7	PG7	4~6.5	12.5	9
PG7	PG7	2~5	12.5	9
PG9	PG9	4~8	15.2	9
PG9	PG9	2~6	15.2	9
PG11	PG11	5~10	18.6	9
PG11	PG11	3~7	18.6	9
PG13.5	PG13.5	6~11	20.4	10
PG13.5	PG13.5	5~9	20.4	10
PG16	PG16	10~13	22.5	10
PG16	PG16	7~12	22.5	10
PG19	PG19	12~15	24	10
PG19	PG19	10~12	24	10
PG21	PG21	13~18	28.3	12
PG21	PG21	9~16	28.3	12
PG25	PG25	16~21	30	12
PG25	PG25	13~18	30	12
PG29	PG29	18~25	37	12
PG29	PG29	13~20	37	12
PG36	PG36	22~32	47	15
PG36	PG36	20~26	47	15
PG42	PG42	32~38	54	18
PG42	PG42	25~31	54	18
PG48	PG48	37~44	59.3	18
PG48	PG48	29~35	59.3	18
PG63	PG63	42~50	71	30
PG63	PG63	32~40	71	30

Image 3.1: A table detailing normal parameters such as thread size, cable range, thread O.D., and thread length for various PG model cable glands.

## 4. SETUP AND INSTALLATION

The uxcell PG9 Cable Gland is designed for straightforward installation. Follow these steps to ensure a secure and waterproof connection.

### Components of the PG9 Cable Gland:



Image 4.1: A PG9 cable gland shown both assembled and disassembled, illustrating its main components: lock nut, valve body, seal, and sealing nut.

1. **Prepare the Opening:** Ensure the mounting hole in your equipment (e.g., junction box, control panel) is appropriately sized for the PG9 thread.
2. **Disassemble the Gland:** Separate the cable gland into its individual components: the lock nut, the main body (valve body), the sealing washer/gasket, and the sealing nut.
3. **Insert Main Body:** Insert the threaded main body of the cable gland through the prepared opening from the outside of the equipment.
4. **Secure with Lock Nut:** Place the lock nut onto the threaded main body from the inside of the equipment and tighten it firmly to secure the gland to the equipment.
5. **Insert Cable:** Thread the cable through the sealing nut, then through the sealing washer/gasket, and finally through the main body of the gland. Ensure the cable is within the specified diameter range of 4mm-8mm.
6. **Tighten Sealing Nut:** Once the cable is in position, tighten the sealing nut onto the main body. This compresses the sealing washer around the cable, creating a waterproof and strain-relieved seal. Tighten until



the cable is firmly gripped and sealed, but do not overtighten.

7. **Verify Connection:** Gently pull on the cable to ensure it is securely held and cannot be easily dislodged. Check for any gaps that might compromise the seal.



Image 4.2: Visual guide demonstrating how to measure cable diameter using calipers and the process of installing a cable gland into an enclosure.

## 5. OPERATION

Once properly installed, the uxcell PG9 Cable Gland operates passively by providing a secure and sealed entry point for your cable into an enclosure. Its primary function is to:

- **Provide Strain Relief:** Prevents the cable from being pulled out or damaged due to tension.
- **Ensure Waterproofing/Resistance:** Protects the internal components of the equipment from water, dust, and other environmental elements.
- **Maintain Electrical Integrity:** Helps prevent short circuits or other electrical issues by securing the cable.

## Sealed



## Water Resistant



Image 5.1: Close-up views demonstrating the sealed and water-resistant properties of an installed cable gland, highlighting its protective function.

## 6. MAINTENANCE

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The uxcell PG9 Cable Gland is designed for durability and requires minimal maintenance. However, periodic inspection is recommended to ensure continued performance, especially in environments subject to vibration, extreme temperatures, or moisture.

- **Visual Inspection:** Regularly check the cable gland for any signs of physical damage, cracks, or degradation of the plastic material.
- **Tightness Check:** Periodically verify that both the lock nut and the sealing nut remain securely tightened. Loose connections can compromise the seal and strain relief.
- **Seal Integrity:** Inspect the sealing washer for any signs of wear, hardening, or cracking. If the seal appears compromised, consider replacing the gland.

- **Cleanliness:** Keep the area around the cable gland clean and free from excessive dust, dirt, or corrosive substances that could degrade the material over time.

## 7. TROUBLESHOOTING

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If you encounter issues with your uxcell PG9 Cable Gland, refer to the following troubleshooting guide:

### Common Issues and Solutions:

- **Issue: Water or Dust Ingress**
  - **Possible Cause:** Sealing nut not tightened sufficiently.
  - **Solution:** Ensure the sealing nut is firmly tightened around the cable.
  - **Possible Cause:** Incorrect cable diameter used.
  - **Solution:** Verify the cable diameter is within the 4mm-8mm range. A cable too thin will not seal properly.
  - **Possible Cause:** Damaged sealing washer.
  - **Solution:** Inspect the sealing washer for tears or deformation. Replace the gland if the seal is damaged.
- **Issue: Cable Pulls Out Easily / No Strain Relief**
  - **Possible Cause:** Sealing nut not tightened sufficiently.
  - **Solution:** Tighten the sealing nut until the cable is securely gripped.
  - **Possible Cause:** Cable diameter too small for the gland.
  - **Solution:** Ensure the cable diameter is at least 4mm. For smaller cables, a different size gland is required.
- **Issue: Gland is Loose on Equipment Enclosure**
  - **Possible Cause:** Lock nut not tightened.
  - **Solution:** Ensure the lock nut on the inside of the enclosure is firmly tightened against the enclosure wall.

## 8. SAFETY INFORMATION

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Always observe basic safety precautions when working with electrical components and installations.

- **Power Disconnection:** Always ensure that power to the equipment is disconnected before performing any installation or maintenance.
- **Qualified Personnel:** If you are unsure about any aspect of the installation, consult a qualified electrician.
- **Correct Tools:** Use appropriate tools for tightening to avoid damage to the gland or injury.
- **Environmental Suitability:** Ensure the cable gland's material and IP rating are suitable for the intended operating environment.
- **Avoid Overtightening:** Overtightening can damage the gland components or the cable insulation.

## 9. WARRANTY AND SUPPORT


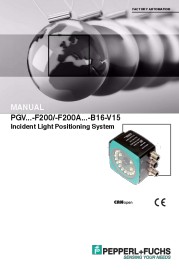

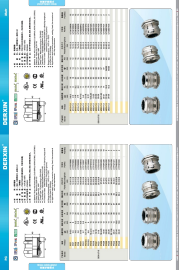

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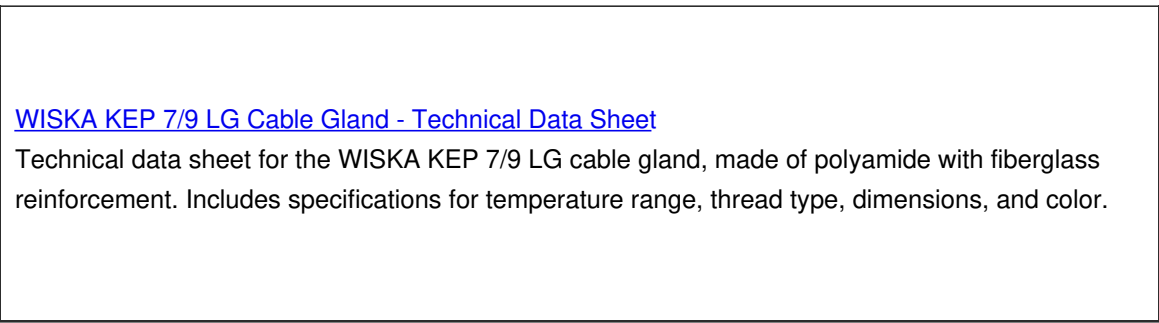
For information regarding product warranty or technical support, please refer to the uxcell official website or contact their customer service directly. Keep your purchase receipt for any warranty claims.

You can visit the uxcell store for more products and information: [uxcell Store on Amazon](#)



## Related Documents - PG9

 <p>BS CONNECTOR M12 Female/Male Back Mount Socket (Solder, Screw M16*1.5/PG9)</p> <p>PRODUCT PARAMETERS</p> <table border="1"> <tr> <td>Order number</td> <td>BS-CONNECTOR-M12-F-M-B-M-S-S-M16*1.5-PG9</td> </tr> <tr> <td>Product name</td> <td>BS-CONNECTOR-M12-F-M-B-M-S-S-M16*1.5-PG9</td> </tr> <tr> <td>Material</td> <td>Aluminum</td> </tr> <tr> <td>Color</td> <td>Black</td> </tr> <tr> <td>Weight</td> <td>0.05kg</td> </tr> <tr> <td>Dimensions</td> <td>12x12x12mm</td> </tr> <tr> <td>Operating temperature</td> <td>-40°C ~ 125°C</td> </tr> <tr> <td>Storage temperature</td> <td>-40°C ~ 125°C</td> </tr> <tr> <td>Humidity</td> <td>95% RH</td> </tr> <tr> <td>Shock</td> <td>1000g</td> </tr> <tr> <td>Vibration</td> <td>10g</td> </tr> <tr> <td>Life</td> <td>100,000 cycles</td> </tr> <tr> <td>Lead time</td> <td>1 week</td> </tr> </table>	Order number	BS-CONNECTOR-M12-F-M-B-M-S-S-M16*1.5-PG9	Product name	BS-CONNECTOR-M12-F-M-B-M-S-S-M16*1.5-PG9	Material	Aluminum	Color	Black	Weight	0.05kg	Dimensions	12x12x12mm	Operating temperature	-40°C ~ 125°C	Storage temperature	-40°C ~ 125°C	Humidity	95% RH	Shock	1000g	Vibration	10g	Life	100,000 cycles	Lead time	1 week	<p><a href="#">BS CONNECTOR M12 Female/Male Back Mount Socket (Solder, Screw M16*1.5/PG9) Technical Specifications</a></p> <p>Comprehensive technical details for BS CONNECTOR M12 Female and Male Back Mount Sockets, covering product parameters, electrical specifications, dimensional drawings, and wire color definitions for M16*1.5/PG9 connectors.</p>
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 <p>PGV...-F200/-F200A...-B16-V15 Incident Light Positioning System</p> <p>PEPPERL+FUCHS</p>	<p><a href="#">Pepperl+Fuchs PGV...-F200/-F200A...-B16-V15 Incident Light Positioning System Manual</a></p> <p>Comprehensive manual for the Pepperl+Fuchs PGV...-F200/-F200A...-B16-V15 Incident Light Positioning System. Covers installation, commissioning, operation, safety, and technical specifications for factory automation and AGV guidance.</p>																										
 <p>White-Rodgers HVAC Components Catalog: Gas Valves, Ignitors, Controls &amp; More</p>	<p><a href="#">White-Rodgers HVAC Components Catalog: Gas Valves, Ignitors, Controls &amp; More</a></p> <p>Comprehensive catalog from White-Rodgers detailing a wide range of HVAC heating components, including gas valves, ignition modules, HSI ignitors, thermocouples, flame sensors, fan/limit controls, thermostats, and air switches. Find model numbers, specifications, and cross-references for professional installers.</p>																										
 <p>DERXIN Metal Cable Glands - PG &amp; Metric Thread Specifications</p>	<p><a href="#">DERXIN Metal Cable Glands - PG &amp; Metric Thread Specifications</a></p> <p>Explore the DERXIN range of high-quality metal cable glands, featuring PG and metric threads. Detailed specifications, IP68 ratings, and certifications for industrial applications.</p>																										
 <p>WISKA KRP 11/9 LG Cable Gland - Technical Data Sheet</p>	<p><a href="#">WISKA KRP 11/9 LG Cable Gland - Technical Data Sheet</a></p> <p>Technical data sheet for the WISKA KRP 11/9 LG cable gland, made of glass-fiber reinforced polyamide in RAL 7035. Includes dimensions, material specifications, and contact information.</p>																										



Technical data sheet for the WISKA KEP 7/9 LG cable gland, made of polyamide with fiberglass reinforcement. Includes specifications for temperature range, thread type, dimensions, and color.