

How to make a U-shaped waterproof junction box



Article Overview

You can create a U-shaped waterproof junction box by combining a durable enclosure, flexible gaskets, sealed cable entries, and silicone caulking to ensure complete water resistance.

Materials Needed

- Durable plastic or resin for the box body (PETG, ABS, or ASA recommended for outdoor use)
- Flexible gasket material (TPU or silicone) for sealing edges
- Waterproof cable glands or connectors for wire entry
- Silicone caulk for additional sealing
- Screws or fasteners compatible with the box material
- Optional: electrical insulating gel for extra protection inside the box

Step-by-Step Construction

1. Design the U-Shaped Box

- The U-shape can be fabricated using a 3D printer, CNC, or by bending a waterproof sheet into a U-profile.
- Ensure the base and sides are thick enough to resist impact and environmental stress.
- Include flanges along the edges for gasket placement and lid attachment (). 2. In...

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