



AMASS XT30 Strain-Relief Housing - Slim, for Ø3.4 mm Cable (20 AWG)



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Summary

This XT30 connector housing is designed for round cables with an outer diameter of Ø3.4 mm.

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Most XT30 housings on Printables are designed for bulky RC/drone battery leads, typically using 14-16 AWG silicone wire for relatively high-current RC/drone applications. I needed a connector housing for a much thinner cable — an aquarium lighting cable with an outer diameter of Ø3.4 mm. I couldn't find one, so I designed my own.

Hardware Requirements

- **1× M2×8 mm** pan-head or round-head screw (a button-head screw also works)
- **1× M2** standard nut

Recommended Print Settings

- **Nozzle:** 0.4 mm
- **Layer height:** 0.20 mm (or 0.15 mm for slightly finer detail)
- **Supports:** None required; print both halves flat on the bed

- **Infill:** 100%, or use 4+ perimeters

Material Selection

Choose the filament according to the expected operating conditions:

- **PETG / ABS / ASA:** Recommended for applications that may run warm, such as enclosed aquarium hoods, continuously operated lighting systems, or installations near power supplies.
- **PLA:** Suitable for low-temperature applications where no significant local heat buildup is expected.

Model files



xt30u-enclosure.stl

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