



Replacement Strainrelief for LEGO(R) EV3 Charger (16521) (Ladegerät Zugentlastung)



phistoeck

[VIEW IN BROWSER](#)

updated 26. 6. 2024 | published 26. 6. 2024

Summary

Replacement strainrelief for the official charger for the EV3 battery. To be printed from TPU. Read the disclaimer!

[Hobby & Makers](#) > [Electronics](#)

Tags: [replacement](#) [fusion360](#) [fusion](#) [repair](#)
[replacementpart](#) [ev3](#) [flexiblefilament](#) [sourcefiles](#)
[fusion360file](#)

Disclaimer:

Swapping the strain relief involves opening the charger, which is a mains-powered device. Such devices contain components like capacitors that can store high voltage even after being disconnected from power for long periods. Proceed with care and only attempt this repair if you have the necessary knowledge and experience. I take no responsibility whatsoever if you decide to undertake this repair.

You have been warned!

Description:

One of my chargers for the EV3 battery packs had severely degraded and cracked insulation around the strain relief. To repair the charger, I designed this part. I used a small drop of glue to secure the cable to the strain relief. Note the polarity of the wires / plug when disassembling and reassembling!

I printed the part from Sainsmart TPU on my Prusa Mini+.

Model files



ev3-charger-strainrelief-v9.3mf

ev3-charger-strainrelief-v9.f3d

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](#)



Attribution-ShareAlike

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✓ | Commercial Use
 - ✓ | Free Cultural Works
 - ✓ | Meets Open Definition