

Terminal box cable is too thin



Overview

Using thin wires in large contact chambers prevents the crimp sleeve from compressing the strands effectively. This gap increases electrical resistance, causing the joint to overheat. I am currently installing an (off-grid, battery based) PV system for 5kWp at 48V (resulting in $\sim 100\text{A}$ DC). In order to keep the system extensible in the future (don't want to reinstall cables because it involves damaging walls and floors/ceilings), I have already chosen the cables for 200A, which. Improper wire gauge selection often leads to assembly failure in industrial power systems. When the conductor diameter is too small for the terminal cross-section, heavy-duty connectors cannot achieve a secure mechanical lock. This mismatch creates significant operational hazards, ranging from. Wall is too thin for a box can I just wrap this in tape and leave it in the wall?

I can't find a box narrow enough to fit in the wall, we removed a wall which had a socket on one side that we don't need. I've spent an hour and not even been close. What is the solution here?

Can you get sockets with bigger terminals?

Any way of connecting wires in the back box. Fiber terminal boxes and closures serve as transition and protection points within FTTH and ODN architectures.



Article Content

Jun 20, 2026

Terminal Box Installation Mistakes and Failure Risks

Engineering analysis of common installation mistakes in fiber terminal boxes and closures, explaining structural stress, and long-term ODN instability risks.

Dec 07, 2025

How to Connect and Hook Up Electrical Wires

Use terminals rated for the size of the wire (s). Simply stated, unless indicated otherwise, only one wire is permitted to be terminated under a terminal (such as those on bus bars, switches, outlets, etc.), unless specifically designed to connect 2 or more (such as wirenuts, split bolts, etc.). Additionally, it is not permissible

Oct 13, 2025

4 gauge wire too thick for amp terminals.

I have got a new amp which is CDT's new ACD-4090 Class D amplifier. I am working on some install related modifications but noticed today when trying to hook the 4 gauge power and

Oct 08, 2025

Risks Of Undersized Wiring In Heavy-duty Connectors Assembly

Why Thin Wires Cause Assembly Issues The internal mechanism of heavy duty crimp connectors relies on a specific compression ratio. If the wire gauge is significantly lower than the

Dec 27, 2025

Wall is too thin for a box can I just wrap this in tape and

Yes, but you will need to mount the box so it's flush with the surface of the wall covering, then put a cover plate on the box. This way, if you ever need to get at

Dec 08, 2025

MOTOR TERMINAL BOX Cable Connection

Sounds like you should use two parallel sets of cables with smaller size that do each fit within the m63 termination or modify the terminal box so it is

Aug 11, 2025

How to connect tiny signal wires into screw terminal blocks?

Hello, I want to buy a terminal shield for a Nano. That is, every pin on the Nano is connected to a separate terminal block.

May 21, 2026

Wall is too thin for a box can I just wrap this in tape and

NO NO NO! Not only can you not just tape a terminal block and install it without an appropriate enclosure, the terminal block you are using is not meant for splicing

Mar 13, 2026

Wires Too Short in Electrical Box: How to Repair

If you have an electrical box with wiring that is too short to make electrical connections to outlets, switches or even another junction box, you will need to add "pigtails" to the wiring in order to

Sep 03, 2025

What happens if a speaker wire is too thick or too thin?

Conclusion Using speaker wire that is either too thick or too thin for your audio system can result in various issues that affect performance, cost, and

Sep 27, 2025

Frequent problems of optical fiber terminal boxes

Frequent Problems of Optical Fiber Terminal Boxes Optical fiber terminal boxes are critical components in fiber optic networks, providing a centralized point for connecting and managing fiber optic cables.

Aug 19, 2025

Wires too thick to fit in replacement light fitting

The problem I have is that although the single switched live will fit into the relevant terminal, the three neutrals twisted together are too big to fit. What is the correct procedure here?

Jun 29, 2025

What You Need to Know About Terminal Blocks | DigiKey

Terminal blocks, also referred to as connection terminals, terminal connectors, or screw terminals, consist of a modular housing and insulated body

Oct 29, 2025

Starter post too short? Ring terminal too thick?

The copper ring terminal on the cable is too thick (about 3/16") to share the post with any other wires (there's another one that also goes to that post).

Jul 09, 2025

!! NEW RESEARCH: Fiber-optic cables can be turned into a hidden ...

International Cyber Digest (@IntCyberDigest). 41 replies. !! NEW RESEARCH: Fiber-optic cables can be turned into a hidden microphone and used for eavesdropping. Researchers from

Feb 10, 2026

The Ultimate Guide to Terminal Junction Box Wiring:

Learn how to properly wire terminal junction boxes for electrical connections. Understand the importance of proper wiring techniques, safety precautions, and

Dec 12, 2025

Production And Installation Of Terminal Blocks: Common Problems

Solution: Optimize the crimping process to ensure good contact; Choose high-temperature resistant materials such as fiberglass tubes or high-temperature silicone protection; For high current circuits, it

Oct 09, 2025

Can Wires & Cables Be TOO Thin? (Explained)

Cross-checking your wire against an AWG chart will allow you to confirm whether your wire is up to the task – or whether it is too thin. There's no

Nov 17, 2025

All You Need To Know About Fiber Termination Boxes:

Then, the optical cable core and pigtail are welded in the terminal box. These boxes are similar to MDF in telephone exchanges. There are cassettes

Sep 29, 2025

Connecting thick cables to small terminal

What would be the proper engineering way to reduce the diameter

May 05, 2026

Wall too thin for outlet box?

And if you don't have enough depth for that box eliminator ring either, they make surface mount boxes for phone/network connections. Some of those

Aug 06, 2025

What should I do with wires that are too large for back

I am replacing all my electrical outlets and only one has wires that are too big to put into the back of the new outlet. Any suggestions?

Dec 18, 2025

If consumer unit moved, cables would be too short.

If our consumer unit is moved by about a metre/3' 3" the upstairs circuit cables would be too short to reach the CU. Would all the upstairs cables

Jun 01, 2026

terminal block question | Information by Electrical Professionals for ...

I have the following issue. I have a terminal box with the attached terminal blocks. Seems they allow max size #10 conductors but I need to disconnect the existing #12 cables on it and

Oct 06, 2025

terminal cage in wall-socket too small

You are currently reading thread: terminal cage in wall-socket too small. You're welcome to reply to the electrical related thread that has been

Mar 24, 2026

What happens if cable is too thin?

If too small of a size is used, the wire could melt because of the large amount of current flowing through it compared to how much the cables can handle. The smaller the wire diameter, the

Feb 28, 2026

Production And Installation Of Terminal Blocks: Common Problems

Reason: Terminal and wire specifications do not match, aperture is too large or too small. Solution: Strictly follow the principle of "copper to copper, aluminum to aluminum", and copper aluminum

Aug 16, 2025

Socket Spur Wires Too Thick for Terminal

I've discovered it was spurred to the box bedroom below, chased through the plaster. However the cable from the loft to the socket was ended and not connected. I thought "simple

Apr 16, 2026

A PRIMER ON SMALL WIRE CRIMPING

Terminal overfeed and underfeed conditions are caused either by a bad terminal feed setup or poor terminal feed performance. Operators should check and adjust the terminal feed as needed every

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