

Cable Frame Diagonal Running

Overview

Running electrical wire diagonally is generally discouraged due to potential strain and code violations. Wires should follow straight, horizontal, or vertical paths secured with staples or clips every 4'. In current practice, the design of this type of bracing system is based on the assumption the compression diagonal has negligible capacity and the tension diagonal resists the total load (Fig. 1). If the diagonals are not perpendicular, the design must be based on the actual geometry. After I eventually drill the second hole, the routing will be easier if I make that second hole approximately 1 foot out of line with the initial hole. Using high-strength steel cables, it helps buildings resist wind and earthquakes while keeping construction cost-efficient and flexible. As a certified Steel. 300. 4 Protection Against Physical Damage. (A) Cables and Raceways Through Wood Members. In both exposed and concealed locations, where a cable- or raceway-type wiring method is installed through bored holes in joists. Question for some of the longer established sparks (I was new to the trade c2000) - working in a 1991 property on a kitchen fit - wiring original, very neat, looks a professional job, but in the kitchen there are lots of diagonal chases taking cables from spurs to appliances.



Article Content

Jul 18, 2026

Can a cable be run diagonally across the wall? | Information by ...

I assume you are referring to a wire that is run through studs and will be hidden behind the drywall. There is no code section that I know of that indicates how this wire should be run.

Dec 23, 2025

Diagonal bracing of steel frames with multi-cable arrangements

In this study a retrofit methodology has been developed, which involves diagonal bracing of steel frames with different cable arrangements. In the experimental and numerical program 5 different lateral load ...

Dec 10, 2025

Can I run wire diagonally in between joists?

Electrical - AC & DC - Can I run wire diagonally in between joists? - I have situation in which it's much more convenient for me to not do a straight run of wires through my joists in one ...

Jun 04, 2026

How To Run an Electrical Cable

Ideally, cables should run vertical to switches or sockets. Electrical cables should never be run diagonally across walls: once covered and finished, it's impossible to tell where the cable is located ...

Mar 08, 2026

Diagonal Cable Runs

I did it once as a 1st apprentice in 1981 and left to my own devices for an hour, I raggelled out a diagonal cable run and after I was hit about the head I never did it again. In my defence I knew ...

Jun 20, 2026

Design of Diagonal Cross Bracings Part 1: Theoretical Study

Diagonal bracing is commonly used in steel structures to resist horizontal loads. In current practice, the design of this type of bracing system is based on the assumption the compression diagonal has ...

Sep 24, 2025

Diagonal bracing of steel frames with multi-cable arrangements

In this study, the behavior of steel frames which is strengthened with diagonally braced multi-cables were examined. For this purpose, five different three dimensional numerical models were analyzed.

Feb 26, 2026

Expert Answers on Running Electrical Wire: Tips and Techniques

Running electrical wire diagonally is generally discouraged due to potential strain and code violations. Wires should follow straight, horizontal, or vertical paths secured with staples or clips every 4.5 feet. ...

Jan 06, 2026

Diagonal Bracing Methods | Eng-Tips

Having the bracing on the column flanges should be ok too. This location is no different than the way many wooden structures are braced. Of course be sure to limit the extent of welding on ...

May 17, 2026

Cable Bracing Systems for Steel Buildings: Factory Direct Guide

Discover cable bracing systems for steel buildings. Learn benefits, hardware, design, and installation—factory-direct supply from certified manufacturer.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

