

# Requirements for wiring harnesses in computer room power distribution boxes



## Overview

Article 645 of the 2017 Edition of the National Electrical Code (NEC) covers equipment, power supply wiring, equipment interconnecting wiring, and grounding (bonding) of information technology (IT) equipment and systems in IT equipment rooms. This space is often constructed to meet specific criteria to qualify as an IT room, essentially creating a fire-rated isolation (envelope) from the rest of the building. Many other areas in the NEC apply to these rooms [Sec. Choose the right box based on environment (indoor/outdoor), load capacity, and durability. Check for proper IP/NEMA ratings and material quality. Ensure safe placement: install in. 645. These include the following (in. Design requirements for low voltage distribution boxes cover NEC, IEC, and safety standards to ensure reliable, compliant electrical installations.

## Requirements for wiring harnesses in computer room power distribution



circuit conductors supplying one or more units of 645.5 (E) (1) Installation Requirements for Branch information technology equipment shall have an Circuit Supply Conductors Under a Raised Floor.



Good busbar and chassis design requirements help you save space, reduce wiring errors, and make installation faster. You should look for features like finger-safe design, color-coded phases, ...



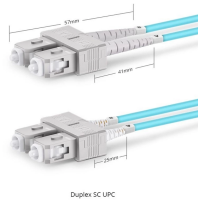
The document summarizes Article 645.5 of the National Electrical Code (NEC), which provides requirements for supply circuits, branch circuits, power cords, interconnecting cables, and physical ...



Article 645 of the National Electrical Code provides specific requirements that must be met before the rules in Article 645 can be applied to an IT room. In other words, to be able to use the provisions in ...



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This article covers the equipment, wiring methods, and grounding requirements for information technology equipment rooms. It includes provisions for branch circuit wiring, power connections, ...



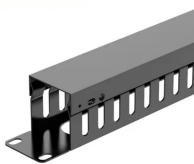
Learn how to install a distribution box safely and correctly. Covers wiring, placement, standards, and expert tips for a compliant setup.



Article 645 of the 2017 Edition of the National Electrical Code (NEC) covers equipment, power supply wiring, equipment interconnecting wiring, and grounding (bonding) of information ...



Other than branch-circuit conductors and power supply cords, interconnecting cables used under raised floors are required to be enclosed in a raceway, be listed as Type DP (data processing) cables, or be ...



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circuit conductors supplying one or more units of 645.5 (E) (1) Installation Requirements for Branch information technology equipment shall have an Circuit ...



Only equipment and wiring associated with the operation of the IT room can be located in the room. See 645.4 for complete information about each of these six criteria.

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