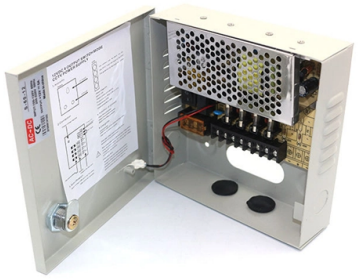
Relay Protection Telecommunication Equipment Chassis Dimensions



Overview

Mounting points & overall panel dimensions meet international standards such that the cases may be interchanged with other similar types available on the market.

Key Takeaways

Relay protection and telecommunication equipment typically use 19-inch rack-mountable chassis, with heights measured in rack units (U), such as 3U (5. 25”) or 6U (10. 50”), and standard widths of 19 inches (482.

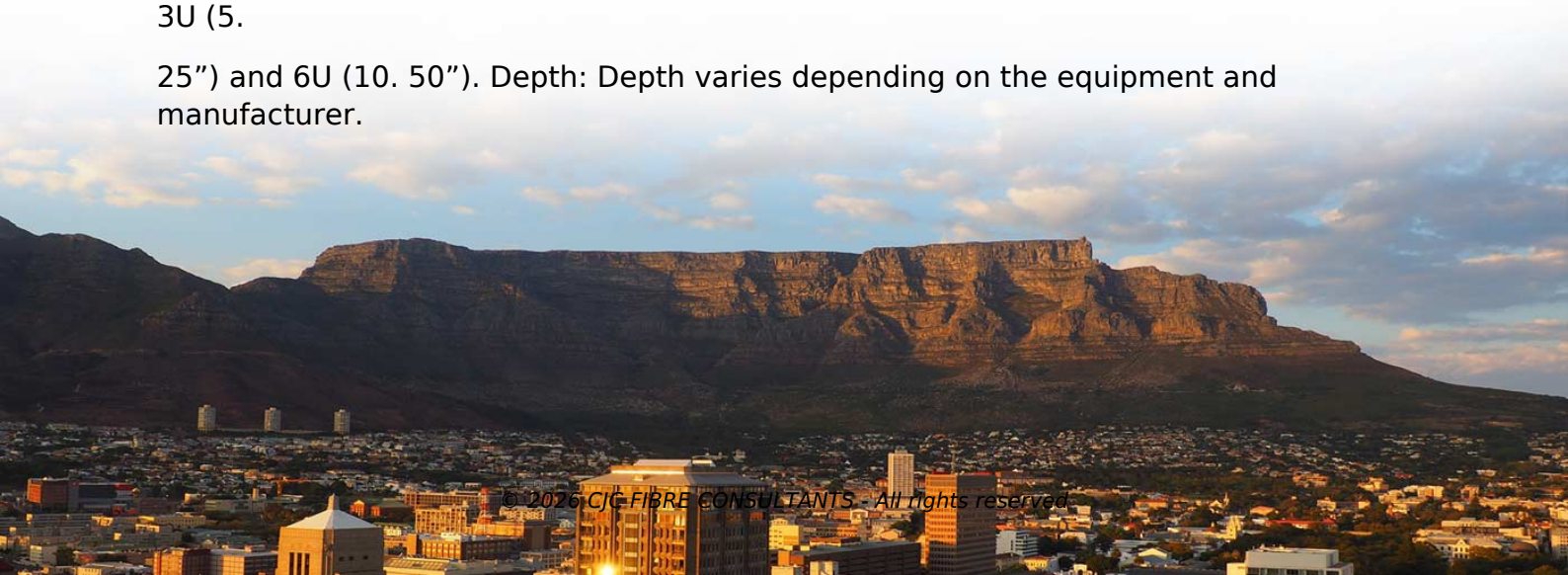
6 mm).

Standard Rack and Chassis Dimensions

Width: Most telecommunication and relay protection equipment is designed for 19-inch racks, where the 19 inches (482. 6 mm) includes the mounting ears on each side for securing the chassis to the rack frame. Height: Equipment height is standardized in rack units (U), where 1U = 1.

75 inches (44. 45 mm). Common chassis heights for relay protection systems include 3U (5.

25”) and 6U (10. 50”). Depth: Depth varies depending on the equipment and manufacturer.



© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Typical relay racks may have depths ranging from 12” to 16” for smaller wall-mounted units, while full cabinets can be deeper to accommodate larger modules and cable management. Mounting: Chassis are often mounted on rails or slides to allow easy access for maintenance. Rails may be set back from the front and rear of the rack by several inches, and some systems include tilt or slide mechanisms for inspection.

Example: RFL GARD 8000 Series3U chassis: 5. 25” high, supports up to two teleprotection or protective relay modules. 6U chassis: 10.

50” high, supports up to eight modules. Width: Standard 19-inch rack-mountable. Additional features: Redundant controllers and power supplies are optional; all modules meet ANSI and IEC dielectric and transient withstand standards.

Standards and ComplianceETSI 300 119-2 and IEC Subcommittee 48D define engineering requirements for racks and cabinets housing telecommunication equipment.

NEB

S GR-63-CORE specifies seismic and structural requirements for telecom equipment racks, including dynamic load support and mounting stability. Material and construction: Typical racks use steel with powder-coated finishes, ventilation grills, and fire-retardant coatings, with minimum thicknesses around 1. 2 mm.

Summary

Relay protection and telecommunication equipment chassis are designed to fit standard 19-inch racks, with heights in multiples of 1U (commonly 3U or 6U), and variable depths depending on the application. Compliance with ETSI, IEC, and NEBS standards ensures proper mounting, structural integrity, and safety in operational environments. This allows for modular installation, easy maintenance, and compatibility with standard rack infrastructure.

Article Content

Communications Systems Performance Guide for Electric Protection

This guide was prepared by the WECC Telecommunications and Relay work groups. It gives recommendations to communications system designers for communication circuits that support

M Series

Mounting points & overall panel dimensions meet international standards such that the cases may be interchanged with other similar types available on the market.

Datacom/Telecom Racks & Cabinets Catalog

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

The C4 Series cabinet features a fully-welded 14-gauge steel frame with heavy-duty struts contributing to a weight-load rating of 2000lbs. With an available depth of up to 42”, the C4 series can support

19-inch rack

Each module has a front panel that is 19 inches (482.6 mm) wide. The 19 inch dimension includes the edges or ears that protrude from each side of the equipment, allowing the module to be fastened to

M Series Modular Rack Mount Protection Relay Cases

Mounting points & overall panel dimensions meet international standards such that the cases may be interchanged with other similar types available on the market. Optional CT shorting switches,

Telecom Racks and Cabinets

Made from welded steel or aluminum, and coming in many stocked sizes and styles, our selection of equipment racks and cabinets will help protect and simplify the integration of your project.

Telco And Relay Racks for Switches, Hubs and Telecom Equipment

Another method of racking equipment is on Relay Racks (also called Telco Racks). We offer 19" racks in heights of 48", 68", 84" and 96" (24, 36, 45 and 52 rack spaces).

Telecom Products

Relay Racks Open frame equipment racks are widely used for the primary structure of an installation and provide the frame to support electronic equipment, power, cooling and cable management.

19" Relay/Frame Racks – Rugged Telecom Equipment and Patch

19 inch relay frame racks are designed to support structured mounting of telecommunications, networking, and patch panel equipment in MDF installations and network infrastructure environments.

SELECTION GUIDE

SELECTION GUIDE TE Connectivity (TE) is your components provider for relays that help increase reliability and enhance productivity in your applications. We ofer the broadest range of relays and

1756 ControlLogix Chassis Specifications Technical Data

Standard ControlLogix Chassis Specifications The chassis backplane provides a high-speed communication path between modules and distributes power to each of the modules installed within

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Chassis and enclosures design

TELEPLATFORMS provides a full range of services for the design of enclosures and chassis of radio electronic equipment (REA). We can develop both a new product and update and improve the

Techrack | Relay & Telco Racks for 19" Rack Equipment

Telecom / Relay racks are ideal for mounting hubs, power backup, rack mount servers and telecommunication equipment. Fully compatible with19" rackmount equipment from all brands

Telecommunication Room (TR) Requirements & Standards v3.2

A typical telecommunication room (TR) will have one 4-post rack for electronic equipment, one 2-post rack for the cabling, and a vertical manager in-between. Racks must have square holes for mounting.

Telecommunications Cabling Specification

Unless otherwise stated, all telecommunications cabling works are carried out by the University of Warwick preferred installer, Dimension Data Advanced Infrastructure.

Optimizing Telecommunications Spaces : Sizing

Telecommunications spaces are the backbone of structured cabling systems in commercial buildings. Proper sizing and layout are critical for functionality,

SPECIFICATION STANDARD Communication Cabinets, Racks, 1.01

Work covered by this Section shall consist of furnishing labor, equipment, supplies, materials, and testing unless otherwise specified, and in performing the following operations recognized as

Communications in power system protection (medias, protocols and

A communication system consists of a transmitter, a receiver and communication channels. Type of medias and network topologies in communications provide different opportunities

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Contact Us

Continue your research online:

Website: https://cjcconsultants.co.za
Technical inquiry: https://cjcconsultants.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CJC FIBRE CONSULTANTS - All rights reserved