

Article Overview

Network cabinet installation in Norway follows NEK 700 standards for structured cabling, ensuring safety, reliability, and compliance with national regulations.

Overview of NEK 700 and Related Standards

In Norway, NEK 700 is the primary standard governing electronic communication (EKOM) installations, including network cabinets. It provides guidelines for the design, installation, and maintenance of structured cabling systems, ensuring reliable data transfer and operational safety . NEK 399 complements this by regulating connection points and cabinet requirements, ensuring installations meet both safety and functional standards . Compliance with these standards is essential for legal, operational, and future-proof network infrastructure.

Structured Cabling Principles

Structured cabling in network cabinets involves a centralized, organized approach to connecting all IT components, including patch panels, switches, and servers . Key principles include:

- o Omradefordeler (OF): Area distributors managing connections within a specific building area.
- o Bygningsfordeler (BF): Main building distributors connecting all cabling within a building.
- o Etasjefordeler (EF): Floor distributors managing connections on each floor.
- o Telekomunikasjonsuttak (TO): Outlets where devices connect to the network. Cabling should follow a star topology (stjernekabling), where all outlets connect to a central point, simplifying management and troubleshooting while minimizing interference .

Installation Best Practices

- o Planning: Identify devices, required ports, redundancy, and fail-safe requirements before installation .
- o Cable Management: Use structured routing to prevent signal faults, overheating, and maintenance difficulties. Proper management ensures scalability, maintainability, and safety .
- o Documentation: Maintain detailed records of ports, IPs, VLANs, and devices to comply with ISO/IEC 27001, GDPR, and other regulatory requirements .
- o Cabling Standards: Use appropriate cable types (e.g., Cat 6 for 1 Gb/s, Cat 6a for 10 Gb/s) and adhere to maximum horizontal cabling lengths (90 meters) to maintain signal integrity .
- o Compliance and Safety: Ensure installations meet fire protection, occupational safety, and IT security guidelines, as required by NEK 700 and related standards .

Future-Proofing

Norwegian Standardized Network Cabinet Installation

Network cabinets should be designed to accommodate future technological advancements and increased data demands. This includes planning for additional capacity, flexible cable routing, and modular components to simplify upgrades .

Resources

For access to official Norwegian standards, including NEK 700 and related documents, Standards Norway (Standard Norge) provides subscriptions, courses, and consultancy services to ensure installations comply with the latest regulations . Networks Centre in Norway supplies IT infrastructure products, including cabinets and cabling systems, suitable for NEK-compliant installations .

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Practice-oriented guide to network cabinet cabling with documentation template, safety aspects & software tips.

Informationstechnik - Installation von Kommunikationsverkablung - Teil 1: Installationsspezifikation und Qualitätssicherung

What is NEK 399? NEK 399 is the Norwegian standard that defines how service cabinets must be designed and installed. Key

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NEK 702 er en standard som gir kravene til planlegging og utføring av kabling for

informasjonsteknologi. Standarden er en del av

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Main requirements Electrical equipment shall be in such a condition that in use it does not present a danger to life,

Cabinet and Rack Installation General Requirements for Cabinets and Racks The cabinet or rack must be one of the

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