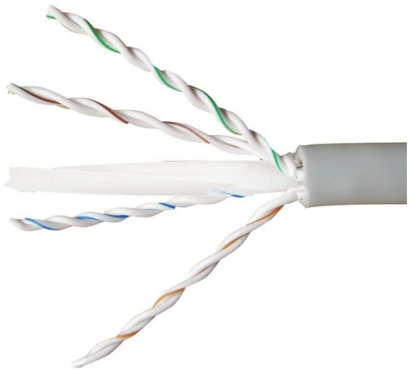
Cleanroom for Cable Trays



Overview

Cleanroom Cable Trays | Products & Suppliers | GlobalSpecFind Cleanroom Cable Trays related suppliers, manufacturers, products and specifications on Global.

Key Takeaways

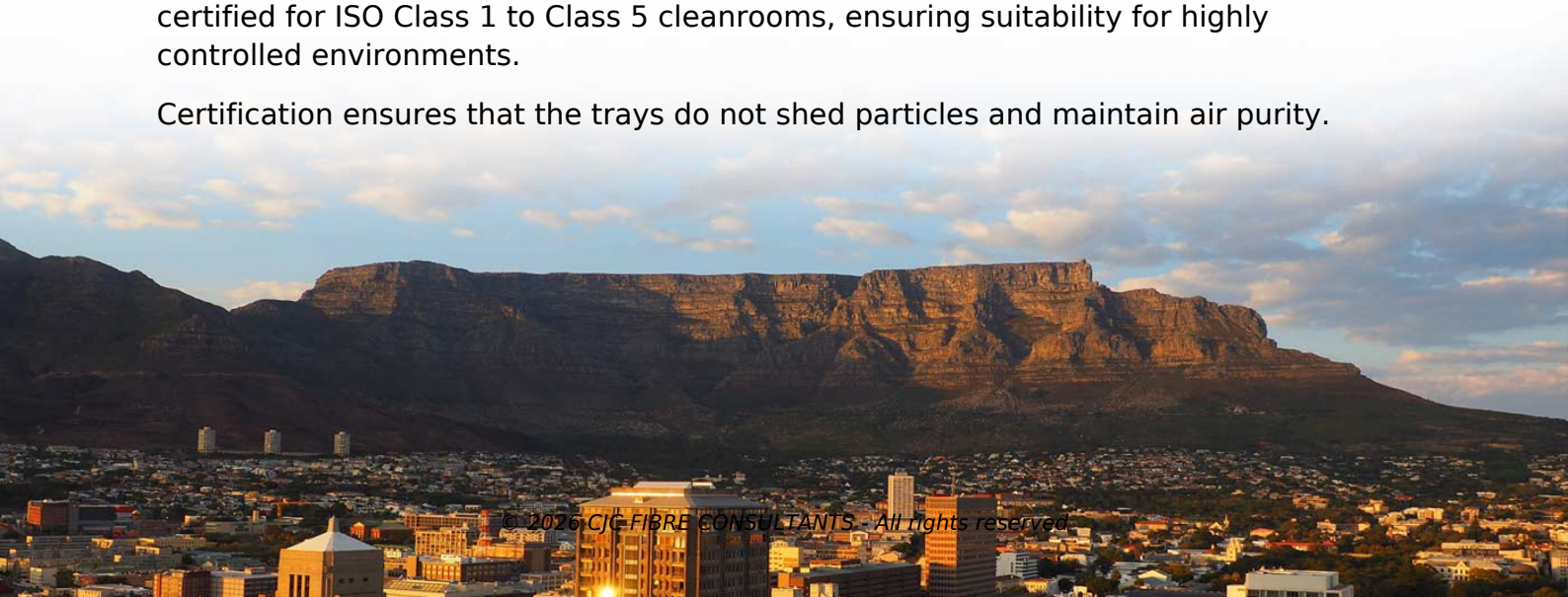
Cleanroom cable trays are specialized systems designed to support and manage cables while minimizing contamination, using materials and designs that comply with ISO 14644 standards.

Key Features of Cleanroom Cable Trays

Materials: Stainless steel (304 or 316) is the most common choice due to its corrosion resistance, hygiene, and durability. Advanced coatings, such as anti-static powder coatings or polymer layers, are often applied to reduce particulate generation and maintain cleanroom integrity. Design: Modular, pre-fabricated, and tool-less assembly systems allow for quick installation and reduce contamination risk.

Some trays include integrated solutions for fire suppression, monitoring systems, or cable containment. Certifications: Cleanroom cable trays and carriers are tested according to ISO 14644-1 standards. For example, igus® e-chains® have been certified for ISO Class 1 to Class 5 cleanrooms, ensuring suitability for highly controlled environments.

Certification ensures that the trays do not shed particles and maintain air purity.



© 2026 CJC FIBRE CONSULTANTS - All rights reserved

Types of Cable Management Systems

Cable Trays: Support and protect power and signal cables, facilitating upgrades, expansions, or reconfigurations. They are essential for maintaining organized and contamination-free cable routing. Cable Carriers: Flexible link systems, such as e-chains®, manage moving cables and hoses in dynamic applications.

They are grease-free, corrosion-resistant, and tested for low particle emission. Cable Transits and Entry Frames: Split cable entry systems allow multiple pre-terminated cables to pass through walls or floors while providing strain relief, sealing, and protection against contamination. These systems can achieve IP66/IP68 and UL Type 4X ratings.

Applications

Cleanroom cable trays are widely used in industries requiring strict contamination control, including: Semiconductor manufacturingPharmaceutical productionBiotechnology laboratoriesPrecision automation and aerospace applications Selection ConsiderationsWhen choosing a cleanroom cable tray, consider: Cleanroom class requirements (ISO Class 1–5)Material and coating to minimize particle sheddingModularity and ease of maintenanceCompatibility with dynamic or static cable routingSupplier certifications and traceability Leading SuppliersNotable suppliers include igus® for e-chain® systems, Tsubaki Kabelschlepp for CLEANVEYOR solutions, and icotek for cable transits and split entry frames.

These manufacturers provide certified, high-quality products designed specifically for cleanroom environments. Cleanroom cable trays are critical for maintaining operational reliability, reducing contamination risk, and ensuring compliance with stringent cleanroom standards. Selecting the right system involves balancing material quality, certification, and installation flexibility to meet the specific needs of your cleanroom application.

Article Content

Cleanroom Cable Trays | Products & Suppliers | GlobalSpec

Find Cleanroom Cable Trays related suppliers, manufacturers, products and specifications on GlobalSpec - a trusted source of Cleanroom Cable Trays information.

Cleanroom Technology | Cable Management

In the field of cable transit, cable management and EMC technology, icotek offers highly efficient and economical solutions for cleanroom systems.

CABLE MANAGEMENT SYSTEMS FOR CLEANROOMS

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

CABLE MANAGEMENT SYSTEMS FOR CLEANROOMS or cable carrier systems in cleanrooms. Our decades of experience from hundreds of realized projects in various industries with diverse demands

e-chain® cable carriers for cleanroom environments

Learn more about our cleanroom-approved cable carriers, which are grease-free and resistant to corrosion, dust, and debris.

Cleanroom Cables for Controlled Environments | ISO 14644-1 Tested ...

Our cleanroom cables are specially designed for use in controlled industrial environments, meeting the highest standards for cleanliness, hygiene, and low particle emission.

CLEANVEYOR

CLEANVEYOR is an extremely top-class solution with a free-standing guiding system that makes full use of our cable carrier technology and experience.

Food & Clean Room | Nordic Wire Tray

Our cable trays are designed for easy cleaning, even with frequent use of harsh chemicals and high temperatures. This ensures you can maintain your high

Cleanroom and Industrial Floor Raceways and Cable

Low-profile cable raceway integrates seamlessly, protecting electrical connections while maintaining caster wheel clearance. Design enables facility mobility without

Ladder Type Cable Trays for Cleanroom and Pharmaceutical

The ladder-type cable trays satisfy the requirements for pharmaceutical and cleanroom environments since they follow the IEC standard and provide versatility in design, thereby

Ladder Type Cable Trays for Cleanroom and Pharmaceutical

Cleanroom and pharmaceutical environments have numerous benefits in the form of materials, design, and roles that ladder-type cable trays provide for cleanliness and safety. These

Cleanroom technology | Cable management & Cable

Cable transit and cable management for cleanroom systems used in biotechnology, pharmaceutical industry or food technology.

CABLE MANAGEMENT SYSTEMS FOR CLEANROOMS

© 2026 CJC FIBRE CONSULTANTS - All rights reserved

CABLE MANAGEMENT SYSTEMS FOR CLEANROOMS TSUBAKI KABELSCHLEPP develops customized solutions for cable carrier systems in cleanrooms. Our decades of experience from

6 Best Mini PCs for Living Room TV in 2026: Compact Picks for

Best for Open-Air Cable Management Furologee 55" TV Stand Open shelves keep mini PCs and consoles ventilated. Four hooks add extra room for cables and accessories. Rustic

Cable entry systems for the use in cleanrooms

A cleanroom is a room that has an extremely low concentration of airborne particles. Airborne particles are all particles and substances that are suspended in the air and for the most part cannot be seen

Cable entry systems for the use in cleanrooms

For cables without plugs, the KEL-DPZ cable entry plates are also available as a cleanroom version. All icotek cable entry systems for cleanrooms have been tested and certified by

Types of Cable Trays – Advantages, Applications and Sizes

Explore the types of cable trays, their advantages, applications, and standard sizes. Learn how they improve cable management and support various industries.

Cables in a cleanroom

Cable range for cleanrooms - CFCLEAN In our product range you will find 1,084 cleanroom-compatible chainflex cables. The IPA Institute has certified them for cleanrooms of ISO Class 1 or 2. We pay

Cleanrooms | TSUBAKI KABELSCHLEPP

They are abrasion-resistant and low-vibration and thus, keep the number of airborne particles at technically possible minimum. Certified as “cleanroom-suitable”, our cable carriers meet all standards

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