

C-shaped steel production for cable trays

Article Overview

C-shaped steel cable trays are produced through a precise roll forming, punching, and cutting process that transforms steel coils into durable, standardized profiles for cable support.

Material Selection

The process begins with selecting high-quality steel, typically galvanized or stainless, with thicknesses ranging from 0.5 mm to 2.5 mm depending on load requirements and environmental conditions. Steel is chosen for its strength, durability, and corrosion resistance, ensuring the tray can safely support electrical cables over time .

Decoiling and Leveling

Steel coils are mounted on an automatic hydraulic decoiler, which feeds the material into a leveling unit. This step removes any curvature or stress from the coil, producing a flat, uniform strip ready for forming .

Roll Forming

The leveled steel strip passes through a series of roll forming stations. Each station incrementally bends the metal to create the C-shaped cross-section. This cold forming process preserves material strength, ensures dimensional accuracy, and allows continuous high-volume production with minimal waste . Roll forming machines may include integrated punching modules for side slots or mounting holes....

Article Content

Jun 18, 2026

Steel Cable Trays in Commercial Buildings: Balancing Functionality

Learn how to integrate steel cable trays in commercial spaces without compromising on aesthetics. Explore design tips

Dec 21, 2025

Cable Tray Manufacturing Machine Solution: CNC Punching, Press

Cable tray manufacturing machine solution for accessories, brackets and sheet metal parts: CNC punching, press

Dec 24, 2025

Cable trays

We offer a wide range of cable tray systems to support tubing, electrical cables and instrumentation. Our cable trays are produced in

Aug 13, 2025

Cablofil Cable Management | Legrand

Cablofil® Products Cablofil is the global gold standard for total cable management. Explore the one-stop shop for innovative, fast,

Mar 10, 2026

Cable tray

Main benefits Extensive product range Available in aluminium or steel Medium duty to ultra heavy duty, to cover all types of

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Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

Apr 18, 2026

Cable Management Support Systems

Cable Management Support Systems Cable Support Systems are well designed to provide necessary support for cable trays, cable

Jun 23, 2026

Cable Trays and Accesories

SFSP cable trays and accessories from SFSP are manufactured from steel sheets in accordance with BS EN 10130/BS EN 10131/

May 16, 2026

How to Produce Wire Mesh Cable Trays and Complex Connectors

Learn how to produce wire mesh cable trays and complex connectors with this detailed guide. Explore the key steps

Oct 17, 2025

Types of Cable Trays: Ladder, Perforated, Basket, Solid

Cable trays support insulated electrical cables in industrial and commercial settings. There

Apr 01, 2026

Cable Tray Production Line | Cable Tray Roll Forming

We customize according to customer requirements and meet your semi-automatic or fully automated

Nov 06, 2025

C-grid cable trays

Our C-grid cable trays including universal fastening material are an economical alternative to conventional cable support systems.

May 21, 2026

C Channel Steel Cable Tray

Discover c channel steel cable trays with CE certification, ideal for construction & solar. Perforated, hot-dip galvanized,

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Cable Trays

These trays, meeting sector-specific needs with a robust structure, feature a covered design, interlocking splicing options, and wire

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CPI Cable Pathway Solutions White Paper 34811

As expected, the presence of OnTrac Shaped Tray's flattened wires produced more surface area and support than round cross

Jan 02, 2026

Cable trays

Our cable trays are produced in fit for purpose materials like stainless steel, galvanized, aluminium and

Jan 31, 2026

C-Shaped Steel

C-shaped steel is used for building purlins, wall beams and roof trusses, machine-made columns and beams, and bridges.

Apr 12, 2026

China Galvanized C-Shaped Steel Factory | Pudeli Cable Tray

Pudeli Cable Tray produces galvanized C-shaped steel in China, offering reliable structural support components for industrial cable

Oct 14, 2025

Cable Tray

Cable Tray Cable trays are mechanical support systems that provide a rigid structural system for electrical cables, raceways, and

Mar 21, 2026

TALON® Cable Cleats

TALON ® cable cleats provide support, restraint, strain relief, and protect cable management systems during a short-circuit by

Jan 01, 2026

Cable tray

Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

Sep 20, 2025

Wire Mesh Cable Tray Solutions • PFLITSCH

A coordinated range of accessories with hygiene-optimised fastening solutions and roof-shaped covers further adds to the

Mar 19, 2026

C Channel for Cable Tray Support | Ajay Industrial

High-strength C channels for supporting cable trays. Available in various sizes and materials for industrial, structural, and heavy-duty

Sep 22, 2025

Cable Tray Roll Forming Machine | Cable Tray Making Machine

Cable Tray Roll Forming Machine can produce cable trays with different sizes, thickness, and from different materials, SS, CR, GI,

Dec 01, 2025

Cable Tray | EAE Electric | Medium & heavy duty cable trays

The Suspension-Accessory System E-Line AA; designed to carry busbars, cable trays, and cable ladders, etc. on reinforced concrete

Dec 14, 2025

Comprehensive Guide to Cable Tray Production Line Systems and

Understanding the Cable Tray Production Line Process A typical cable tray production line encompasses several key

May 17, 2026

C-Shaped Steel: A Guide to Types, Uses, and Benefits -

Public and Miscellaneous Facilities: Used for signboard supports, road guardrails, frames for temporary structures, and as supports

Dec 31, 2025

C cable tray manufacturing machine

The c cable tray manufacturing machine operates with numerous functions and features that boost its performance

Jul 22, 2026

C shaped Steel: Load Capacities, Dimensions & Galvanized Options

C shaped steel has good features of bending and compression resistance, convenient construction, and strong connections. It is

Oct 26, 2025

Full cable tray systems specification document

H. Cable Tray Supports: Shall be placed so that the support spans do not exceed the maximum span indicated on drawings.

Jul 06, 2026

Cable Trays

Our product range includes stainless steel cable trays, galvanised cable trays, and wire cable trays, available in multiple cable tray

Mar 18, 2026

Cable tray

ABB designs and manufactures cable tray systems, including perforated tray, cable ladder, channel tray and strut (metal framing),

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Cable Management System

Cable Management System Indiana is one of leading fabricators of cable management systems. Indiana supplies perforated cable

Sep 09, 2025

Cable Tray Technical Guide A practical guide to product selection and ...

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Apr 27, 2026

Cable Tray Making Machine

Cable trays come in many sizes and designs – ladder type, ventilated channel type, solid channel type, wire mesh

Contact Us

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