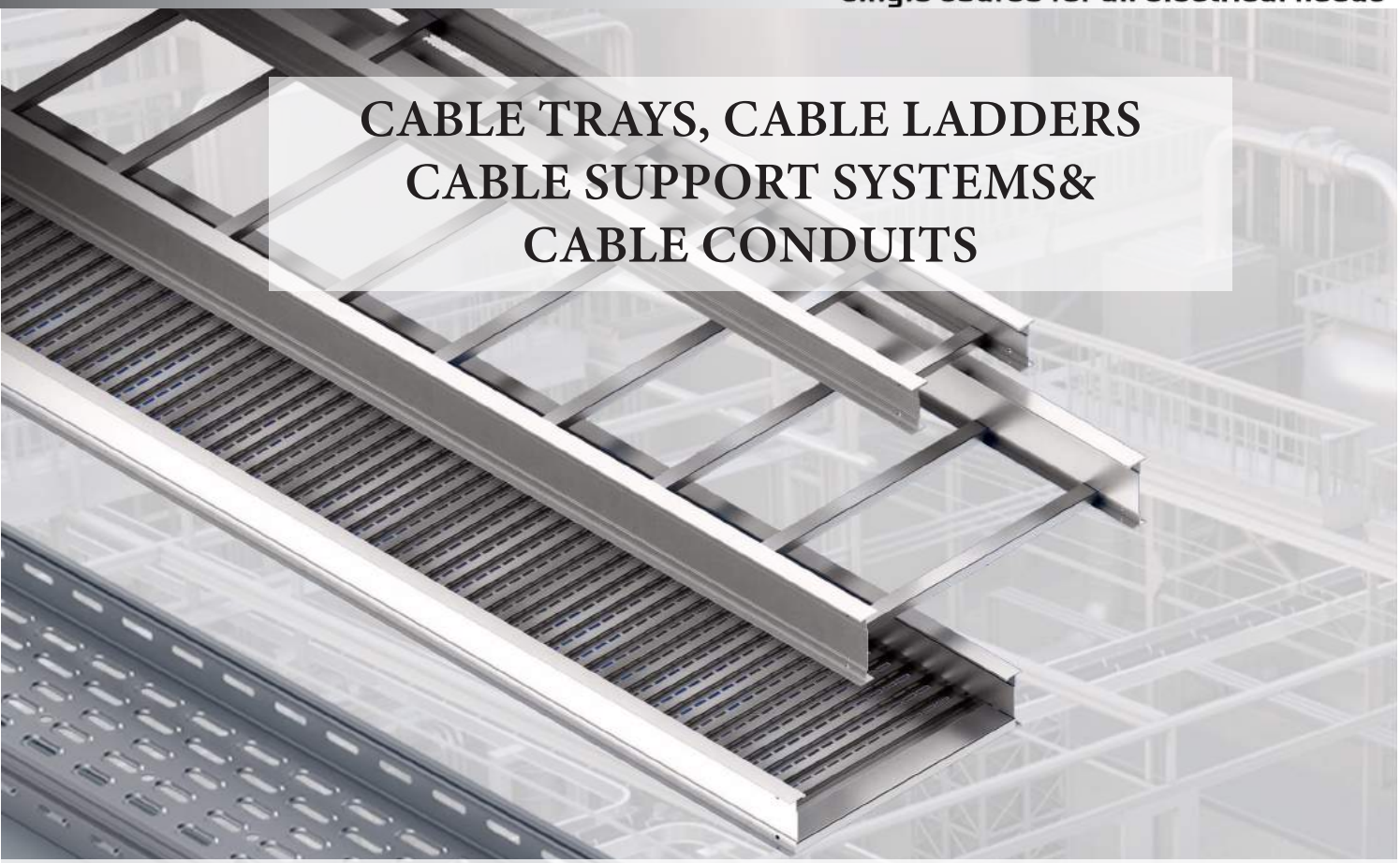
DEMKA
single source for all electrical needs



CABLE TRAYS, CABLE LADDERS CABLE SUPPORT SYSTEMS& CABLE CONDUITS

- **CABLE TRAYS**
  - Standard Type Cable Trays
  - Heavy Duty Cable Trays
  - Strengthened Type Cable Trays
  - Marine Type and Lighting Fixture Type Cable Trays
  - Click-Fit Type Cable Trays
  - Wire-mesh Cable Tray
- **CABLE LADDERS**
  - Cable Ladder With C-Profile Rung
  - Heavy Duty Type Cable Ladders
- **CABLE SUPPORTING SYSTEMS**
- **CABLE CONDUITS**
  - Galvanized Steel Conduit
  - PVC Type Conduit

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CABLE TRAYS & ACCESSORIES

GENERAL INFORMATION

A cable tray system is used in building electrical wiring to support insulated electrical wires used for power distribution, control, and communication. Cable trays are often used for cable management in commercial and industrial construction as an alternative to open wiring or electrical conduit systems. They're particularly handy in instances where alterations to a wiring system are expected, because new cables can be laid in the tray rather than pulled through a pipe.
When the components of the system are examined individually, they are not extremely sophisticated items in terms of physical attributes and manufacturing procedures. However, given the installation's safety concerns and long-term use objectives, they are items that necessitate a precise and high-quality manufacturing process, from raw materials to assembly services, as well as serious engineering.

APPLICATION

- Industrial Plants
- Car Parks
- Hotels
- Housings
- Factories
- Food Premises

CABLE TRAY TYPES

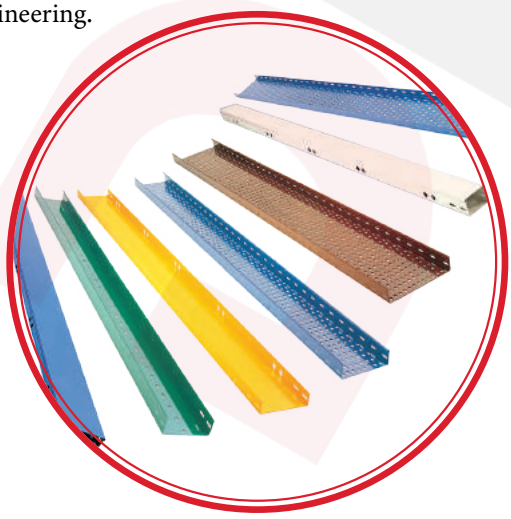
- Standard Type Cable Trays
- Heavy-duty Cable Trays
- Strengthened Cable Trays
- Marine Type and Lighting Fixture Type Cable Trays
- Click-Fit Cable Trays

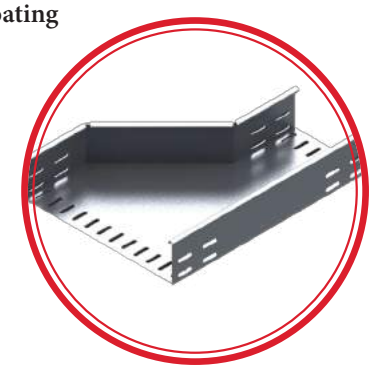
CABLE TRAY MATERIALS

- Steel
- Stainless Steel
- Aluminium

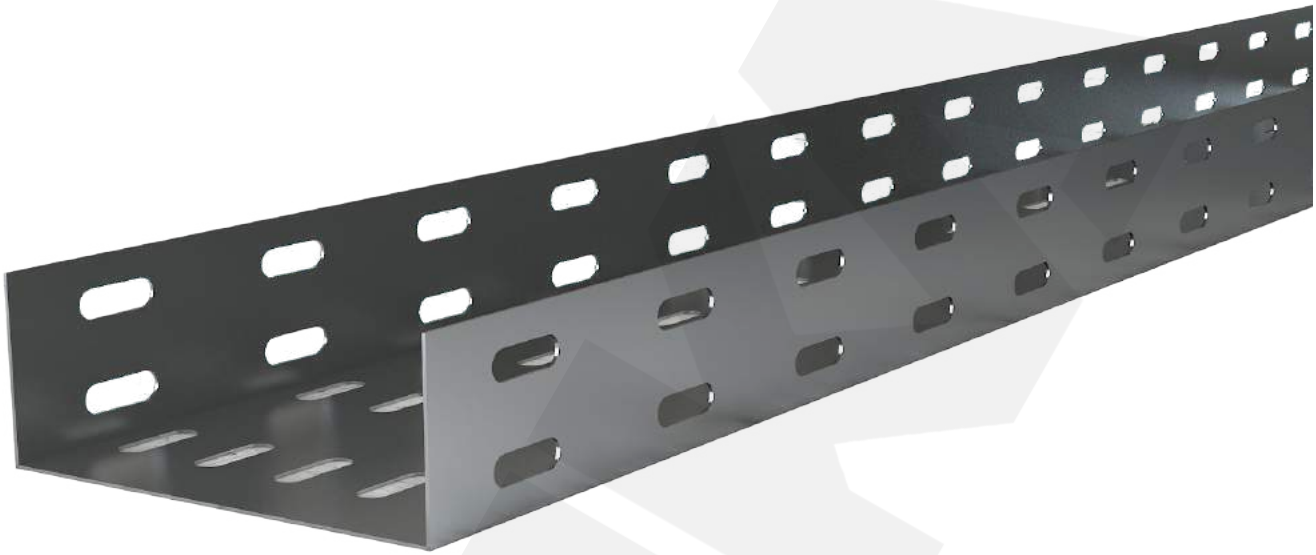
CABLE TRAY FINISHING

- Hot-dipped Galvanized Cable Trays
- Pre-Galvanized Cable Trays
- Electro-Static Powder Coating





STANDARD TYPE CABLE TRAYS



TECHNICAL DATA

Width: From 50mm up to 600mm
Height: From 40mm up to 60mm
Length: Up to 6m
Thickness: Between 1.0mm and 2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE TRAY MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE TRAY FINISHING

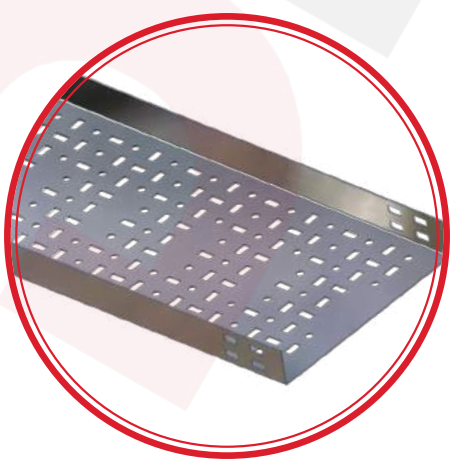
- **Hot-dipped Galvanized Cable Trays**
- **Pre-Galvanized Cable Trays**
- **Electro-Static Powder Coating**

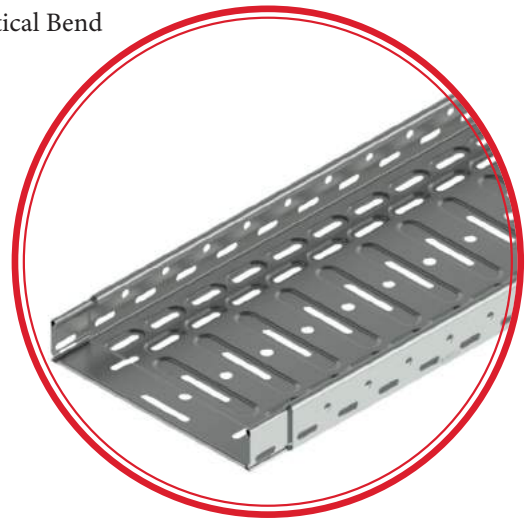
INTRODUCTION

A Cable Tray is a bridge that enables for the safe transit of wires across open spans while also providing protection from overheating and fire build-up. It's a basic cable management system that comes in a variety of sizes to make entering and exiting new or existing cables in the tray easier.
These are typically used to transport huge web bundles and protect them from harm.

ACCESSORIES

- Cable Tray Cover
- Coupler
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator





HEAVY DUTY CABLE TRAYS

TECHNICAL DATA

Width: From 50mm up to 600mm
Height: From 40mm up to 100mm
Length: Up to 6m
Thickness: Between 0.6mm and 2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE TRAY MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE TRAY FINISHING

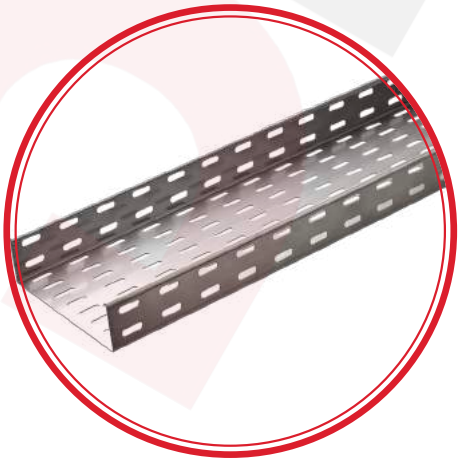
- **Hot-dipped Galvanized Cable Trays**
- **Pre-Galvanized Cable Trays**
- **Electro-Static Powder Coating**

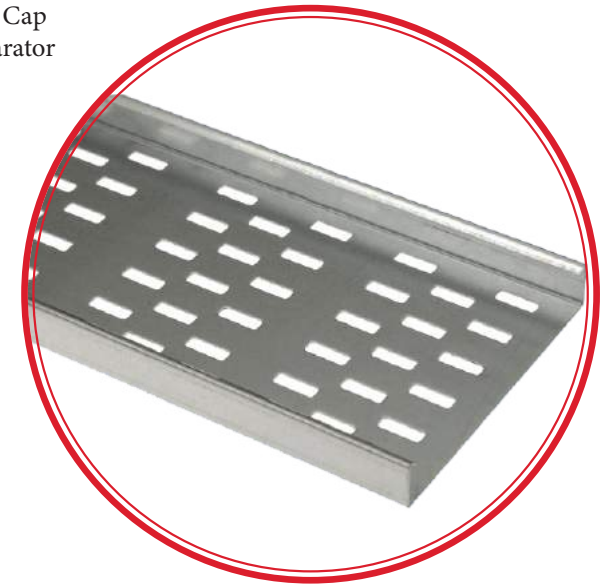
INTRODUCTION

Heavy Duty Cable Trays are used in industrial facilities such as Petrol and Gas facilities. These cable trays are resistant to cable weights.

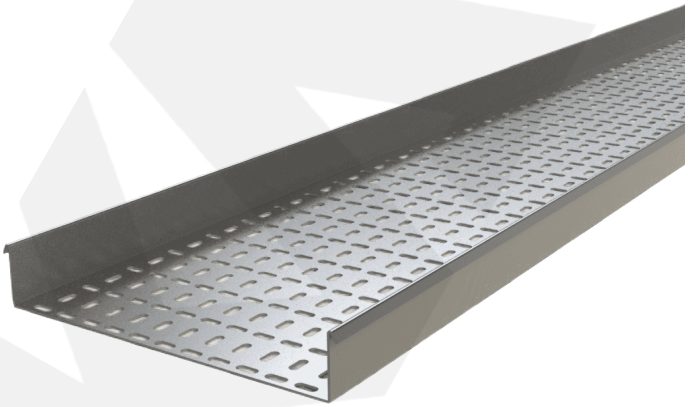
ACCESSORIES

- Cable Tray Cover
- Coupler
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator





STRENGTHENED CABLE TRAYS



TECHNICAL DATA

Width: From 50mm up to 600mm
Height: From 40mm up to 100mm
Length: Up to 6m
Thickness: Between 0.6mm and 2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE TRAY MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE TRAY FINISHING

- **Hot-dipped Galvanized Cable Trays**
- **Pre-Galvanized Cable Trays**
- **Electro-Static Powder Coating**

INTRODUCTION

In building electrical wiring, a strengthened type cable tray system is utilized to support insulated electrical wires used for power distribution, control, and communication.
As an alternative to exposed wire or electrical conduit systems, these trays are frequently utilized for cable management in commercial and industrial buildings. Because new cabling may be put in the tray rather than dragged through a pipe, they're especially useful when changes to a wiring system are planned.

ACCESSORIES

- Cable Tray Cover
- Coupler
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator

MARINE TYPE and LIGHTING FIXTURE TYPE CABLE TRAYS

TECHNICAL DATA

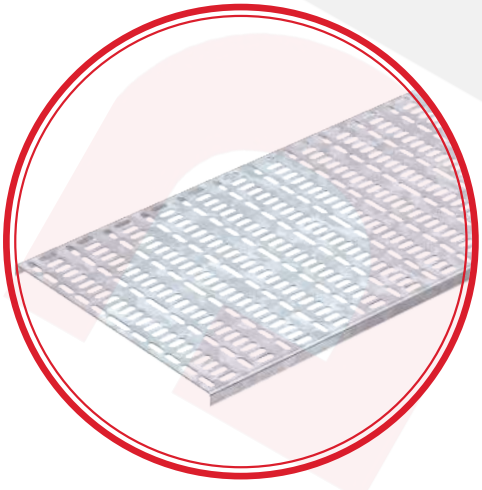
Width: From 50mm up to 600mm
Height: From 15mm up to 60mm
Length: Up to 3m
Thickness: From 0.6mm up to 2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE TRAY MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE TRAY FINISHING

- **Hot-dipped Galvanized**
- **Pre-Galvanized**
- **Electro-Static Powder Coating**



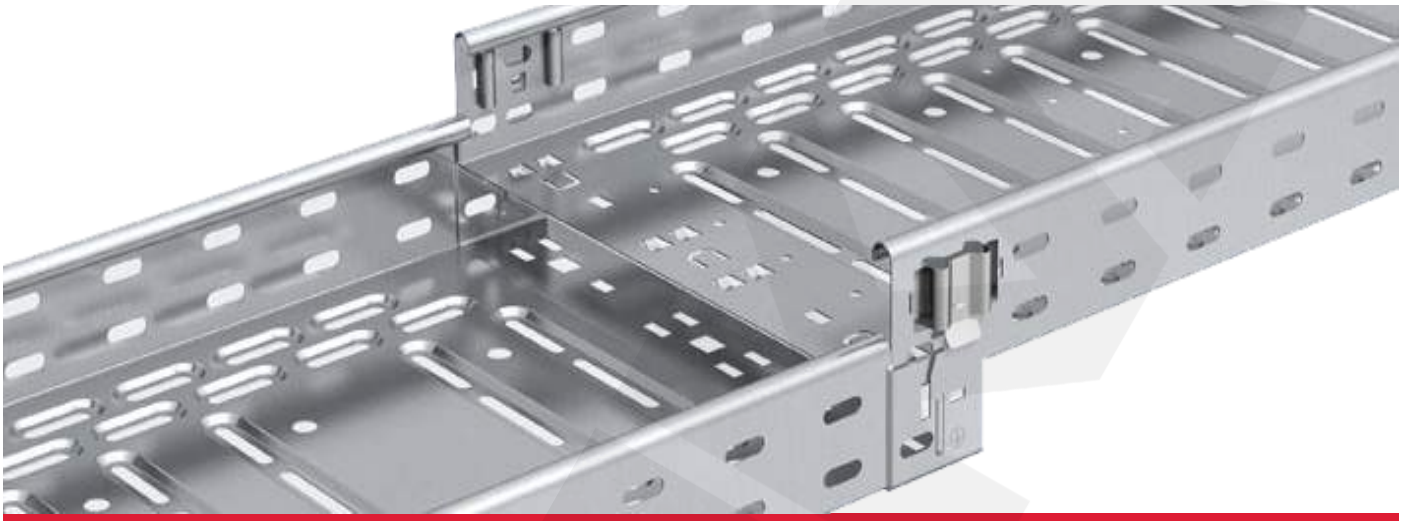
INTRODUCTION

Marine type and lighting fixture type cable trays are due to use in ship construction and carry cable installations within interior spaces of ships, yachts and also indoor applications.
Marine type cable trays are constructed in customized sized to avoid cable's exposure to heat.

ACCESSORIES

- Cable Tray Cover
- Coupler
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator

CLICK-FIT TYPE CABLE TRAYS



TECHNICAL DATA

Width: From 50mm up to 600mm
Height: From 40mm up to 100mm
Length: Up to 6m
Thickness: Between 1.5mm and 2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE TRAY MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE TRAY FINISHING

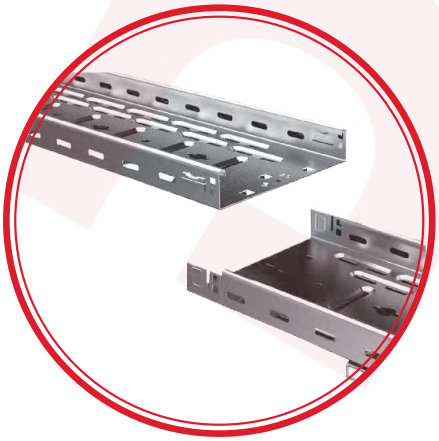
- **Hot-dipped Galvanized Cable Trays**
- **Pre-Galvanized Cable Trays**
- **Electro-Static Powder Coating**

INTRODUCTION

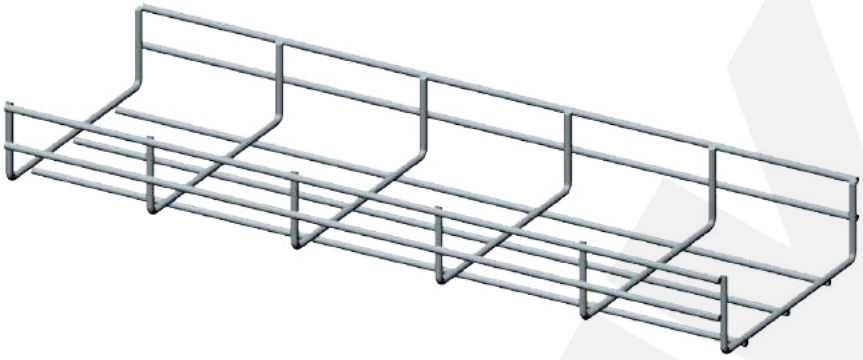
Click-fit type cable trays can be bolted together without requiring additional accessories thanks to the Snap-On system at its end sections. It provides great savings with the lowest thickness and lowest cost as well as shortest time during installations. With a side height of 35 mm, all fittings and the straight connection set are also available.

ACCESSORIES

- Cable Tray Cover
- Coupler
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator



WIRE MESH CABLE TRAYS



TECHNICAL DATA

Width: From 50mm up to 600mm
Height: Up to 100mm
Length: Up to 3m
Thickness: From 1.0mm up to 4.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE LADDER MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE LADDER FINISHING

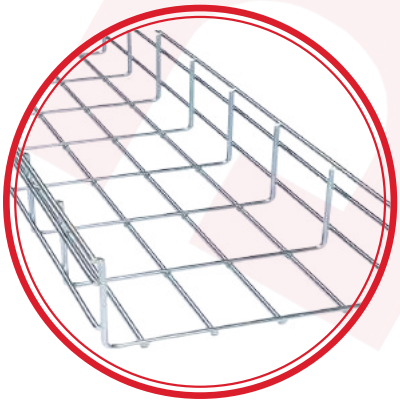
- **Hot-dipped Galvanized Cable Trays**
- **Pre-Galvanized Cable Trays**
- **Electro-Static Powder Coating**

INTRODUCTION

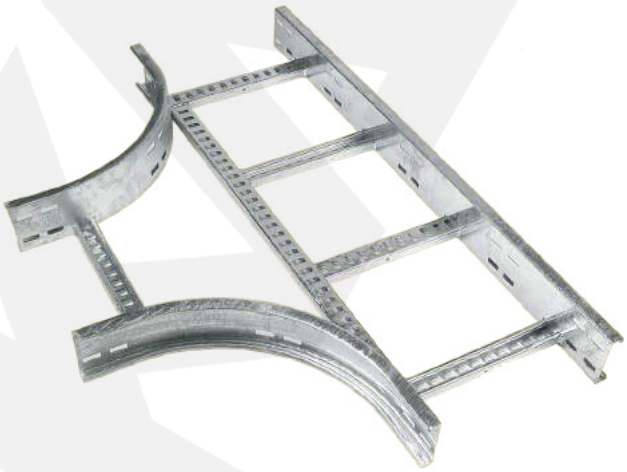
Wire mesh cable trays are made by compounding wire cable conduits with horizontal wires running vertically every 100 mm and vertical wires running horizontally every 50 mm.
Low-voltage current cable trays must be installed within a distinct partition within the "wire mesh cable trays."
For example, a divider inside wire mesh cable trays must have the same height and length, or low-voltage current installation cables must be in separate cable trays. A plastic cable tie must be used to secure the cables within the cable tray.

ACCESSORIES

- Connector
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossover
- Internal Riser
- External Riser
- End Cap



CABLE LADDERS

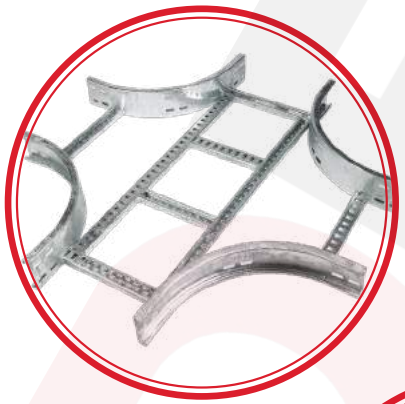


GENERAL INFORMATION

Cable ladder systems are intended to serve as cable supports rather than complete mechanical protective enclosures. They are not intended to be used as ladders, walkways, or other forms of support for humans, since this can result in personal injury as well as damage to the system and any wires placed.

CABLE LADDER TYPES

- Cable Ladders with C-Profile Rung
- Heavy Duty Type Cable Ladders



APPLICATION

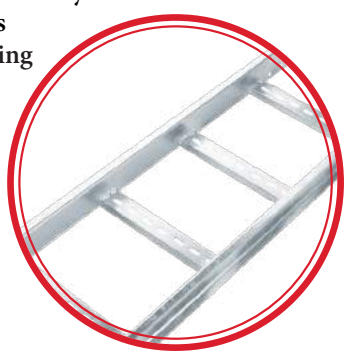
- Thermal Power Plants
- LNG Terminals and Pump Stations
- Chemical Plants
- Factories and Industrial Installations
- Food premises
- Hydro Power Plants
- Nuclear Power Plants
- Offices
- Geothermal Power Plants
- Data Center
- Banks
- Airports
- Heavy Industry Production Facilities
- Refineries and Oil Platforms

CABLE LADDER MATERIALS

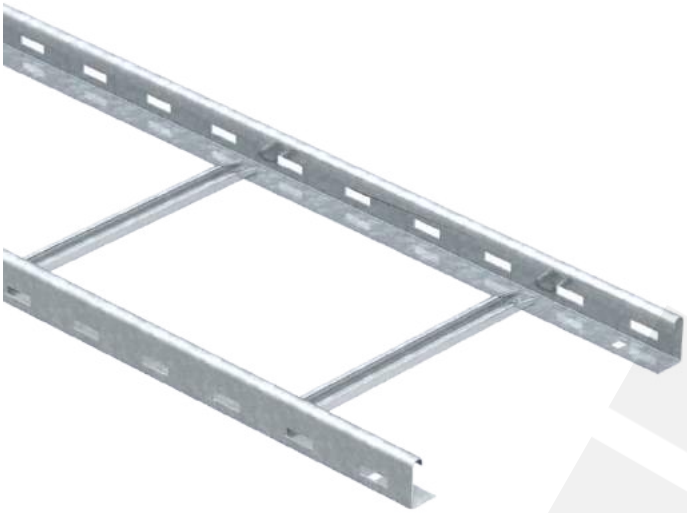
- Steel
- Stainless Steel
- Aluminium

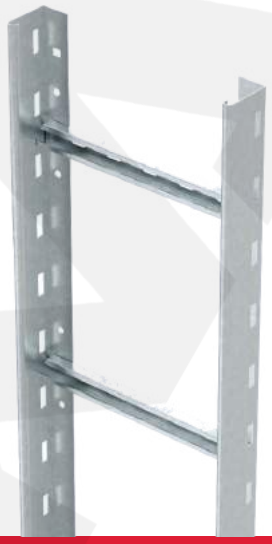
CABLE LADDER FINISHING

- Hot-dipped Galvanized Cable Trays
- Pre-Galvanized Cable Trays
- Electro-Static Powder Coating



CABLE LADDERS
with C-PROFILE RUNG





TECHNICAL DATA

Width: From 50mm up to 600mm
Height: From 15mm up to 200mm
Length: Up to 6m
Thickness: From 0.6mm up to2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE LADDER MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE LADDER FINISHING

- **Hot-dipped Galvanized**
- **Pre-Galvanized**
- **Electro-Static Powder Coating**

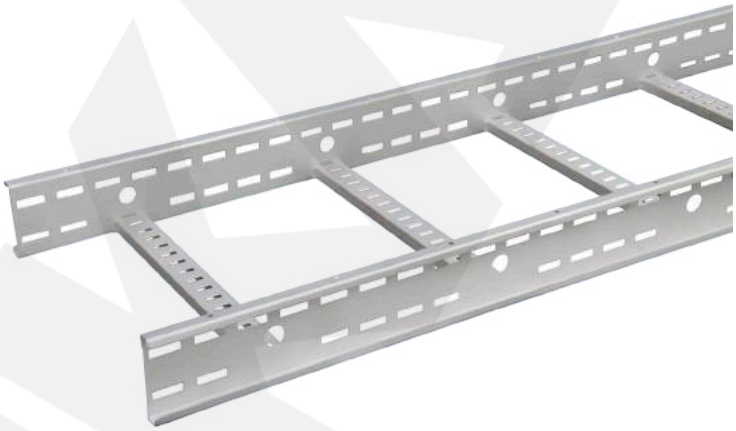
INTRODUCTION

Cable ladders with C-Profile Rungs are designed to hold cables rather than provide complete mechanical protection.
They are not designed to be used as ladders, walkways, or other kinds of human support, since this can result in personal injury as well as damage to the system and any cables that have been installed.

ACCESSORIES

- Cable Ladder Cover
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator

HEAVY DUTY TYPE CABLE LADDERS



TECHNICAL DATA

Width: From 50mm up to 600mm
Height: From 15mm up to 200mm
Length: Up to 6m
Thickness: From 0.8mm up to 2.0mm
*** Special dimension can be produced upon the customer's requests.**

CABLE LADDER MATERIALS

- **Steel**
- **Stainless Steel**
- **Aluminium**

CABLE LADDER FINISHING

- **Hot-dipped Galvanized**
- **Pre-Galvanized**
- **Electro-Static Powder Coating**

INTRODUCTION

Heavy-duty cable ladders are intended for temporary vertical access and are compact while providing maximum strength. When rigid rail ladders are not feasible or might endanger users or other employees, it can be utilized.
Additional bends in the sidewalls and a welding technique applied to the joints enhance the weight carrying capability of heavy-duty cable ladders.

ACCESSORIES

- Cable Ladder Cover
- Coupler
- Adjustable Coupler
- Horizontal Bends 45°
- Horizontal Bends 90°
- Reducer
- Tee Bend
- Crossing Elements
- Inside Vertical Bend
- Outside Vertical Bend
- End Cap
- Separator

CABLE SUPPORT SYSTEMS

GENERAL INFORMATION

Cable Support Systems are used to hold systems in steel structures at buildings and enterprises in an appropriate manner. Light-duty and heavy-duty brackets are offered depending on the weight of the system to be supported. Pre-galvanized, Hot Dip Galvanized, and Painted Cable Support Systems can be produced in thicknesses ranging from 2mm to 6mm, depending on the kind of coating. Hot dip galvanized brackets are used for any brackets that need welding during manufacturing. It is also feasible to develop support systems and shaft supports that are customized to the requirements, as well as to give solutions for building site needs.

APPLICATION

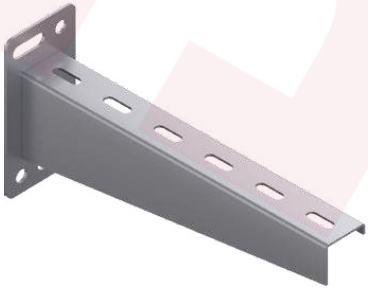
- **Commercial Construction**
- **Industrial Construction**

CABLE SUPPORT S. TYPES

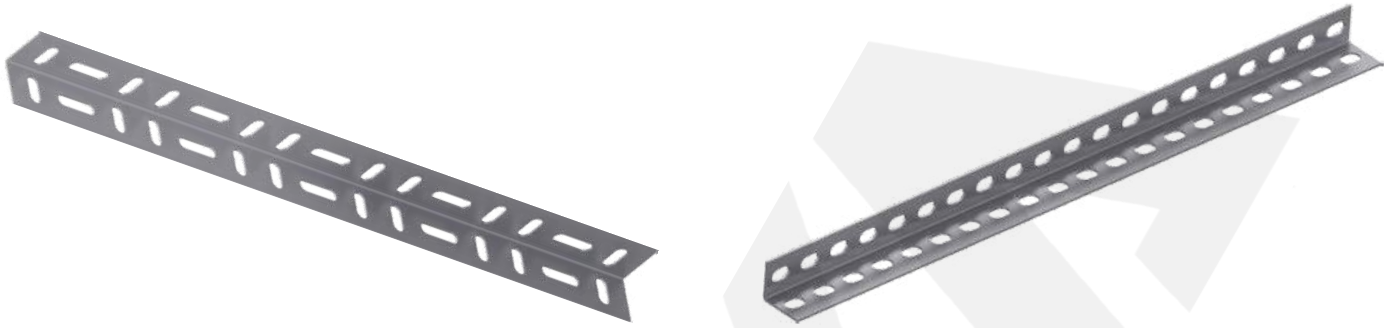
- **Wall Brackets (Unwelded)**
- **Wall Brackets (Welded)**
- **L-C-U-Z Profiles**
- **Connection Units**

WALL BRACKETS(UNWELDED)

WALL BRACKETS (WELDED)



PROFILES



L Profile

C Profile

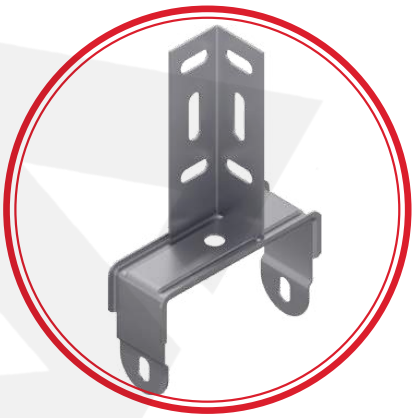
U Profile

Z Profile

CONNECTION UNITS

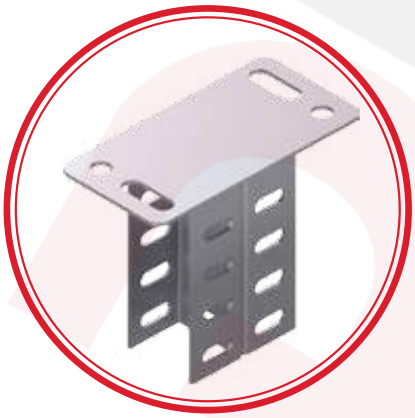
L Profile Mounting Unit

L Profile Mounting Unit



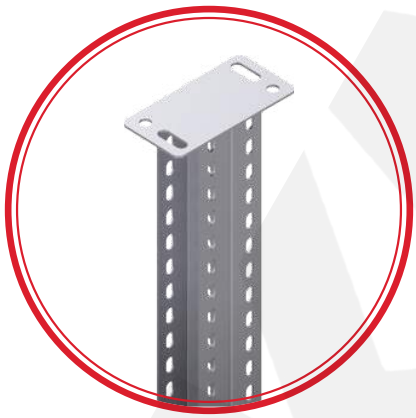
L Profile Support

Tray Supports For Threaded Rods

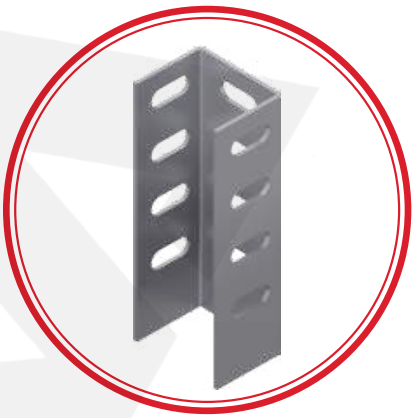


Ceiling Mounting Fittings

Ceiling Mounting Fittings



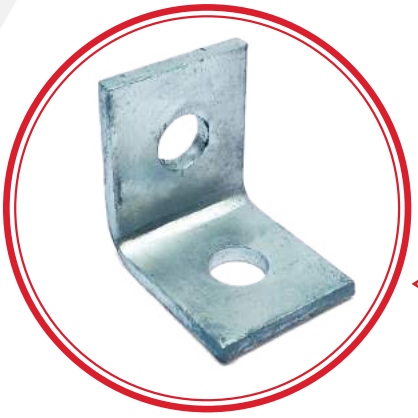
Ceiling Mounting Fittings



U Profile Joint Element

U Profile Brackets

45° Channel Bracket

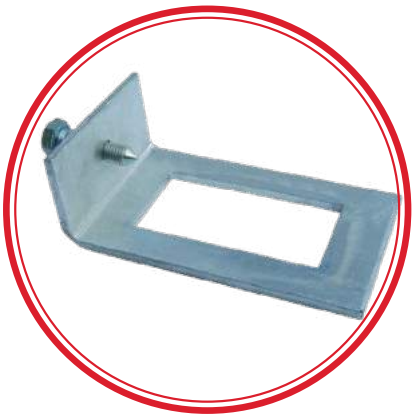


90° Channel Bracket

Base Plates

Beam Clamp

Channel Accessories



Window Bracket

Channel Nuts

Internal Splice

External Splice

Flat Gusset Tee

Flat Plates

PVC End Caps

Special Fittings

Channel Closure Strips

CABLE CONDUITS

GENERAL INFORMATION

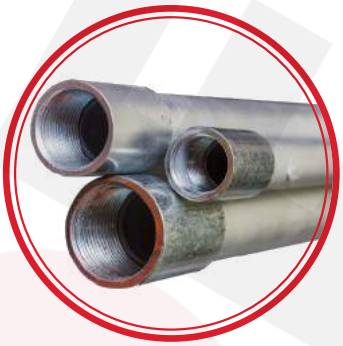
Electrical conduit is a tube system for routing and protecting wires and cables within a building or permanent structure. Cable conduit is meant to protect against damage from sharp objects, impact, and dampness and is usually placed into a wall rather than being surface mounted. This provides long-term protection, making it a popular choice for a variety of applications. For simplicity of installation, corresponding conduit fittings are provided, with a large range to meet all needs.

APPLICATION

- **Commercial Construction**
- **Industrial Construction**

CABLE CONDUIT TYPES

- **Electrical Metallic Tubing (EMT)**
- **Rigid Metal Conduit (RMC)**
- **Intermediate Metal Conduit (IMC)**
- **Flexible Metal Conduit (FMC)**
- **Liquid-tight Flexible Metal (LFMC)**
- **Electrical Non-Metallic Tubing (ENT)**
- **Rigid PVC Conduit**



GALVANIZED STEEL CONDUITS

Electrical Metallic Tubing (EMT)

Electrical metal tube, or EMT, is often composed of galvanized steel, although it may also be made of aluminium. Because EMT is thin and lightweight compared to RMC, it is sometimes known as "thin-wall" conduit. EMT is stiff, but it may be bent with a conduit bender, which is a basic instrument. Setscrew or compression-type fasteners are used to secure the couplings and fittings on EMT. The tubing is not threaded like RMC tubing. In residential and light commercial construction, it is often utilized for exposed indoor wire lines. It must be assembled with appropriate waterproof connections if put outside in exposed places.

Rigid Metal Conduit (RMC)

Rigid metal conduit, or RMC, is galvanized steel tube with threaded fittings that is installed. It's generally used outside to shield electrical wires, panels, and other equipment from damage, and it can also offer structural support.

Intermediate Metal Conduit (IMC)

IMC (intermediate metal conduit) is a robust steel electrical conduit that is designed for outdoor use and strong connections. It was created to safeguard insulated electrical wires and cables. It performs the same functions as rigid metal conduit (RMC), but weights roughly a third less. It can be removed the requirement for a heavier-walled conduit by using IMC in any places where it is permitted.

Flexible Metal Conduit (FMC)

Flexible metal conduit (FMC) is also known as "Greenfield," after its inventor's surname. It is flexible because to its spiral design, which allows it to slither around walls and other buildings. Standard FMC is used for short lines between a wall box and a motor or stationary device, such as a garbage disposer, in dry interior settings.

PVC CONDUITS

Liquid-Type Flexible Metal Conduit (LMFC)

Liquid-tight flexible metal conduit (LFMC) is a form of flexible metal conduit with a plastic covering that is waterproof when used with sealed fittings. It's frequently utilized with outdoor equipment like air conditioners.

Electrical Non-Metallic Conduit (ENT)

Electrical non-metallic tubing (ENT) is a moisture-resistant and flame-retardant flexible corrugated plastic tubing. It's simple to bend, and snap-lock or bonded plastic fittings are used to attach it. Non-metallic tubing, unlike EMT, cannot be placed in exposed areas, thus it is often utilized inside walls. ENT can be put inside concrete block buildings and coated with concrete, as addition to being installed in ordinary wood or metal-frame walls.

Rigid Polyvinyl Chloride (Rigid PVC)

Rigid polyvinyl chloride (PVC) resembles plastic plumbing pipe and is fitted using glued-on plastic fittings. After being heated in a portable heater box, it may be bent.
The conduit assemblies can be waterproof since the tubing and fittings are bonded together, making PVC ideal for direct burial in the ground for many applications. In corrosive conditions, it is also permitted.

CONNECTION UNITS