T&B® Cable Tray


# Cable Management Systems

## Perforated cable tray

Thomas&Betts

# Delivering world class solutions in cable management.

**Thomas & Betts is a global leader in the design, development and supply of cable support and management solutions.**

**From Ty-Rap® cable ties to complete cable tray systems, Thomas & Betts products are renowned for delivering robust, reliable and high performance solutions to the electrical marketplace.**

With a long history of excellence and innovation, Thomas & Betts products offer the complete solution to your electrical needs.

Thomas & Betts is now manufacturing cable tray systems, including perforated tray, cable ladder, channel tray and strut (metal framing), directly from our new production facility at Dammam in Saudi Arabia.

Combining local manufacture and distribution with an extensive product range, this facility ensures we can effectively support customer demand and respond rapidly to project timelines for all types of installation across the Middle East.

So, whether specifying a major new project, or simply refurbishing existing facilities, choose Thomas & Betts cable tray to deliver the most effective, reliable and long lasting support for your cabling needs.

## Thomas & Betts perforated tray is ideal for a wide range of commercial, industrial & public sector projects:

### Commercial
- Offices & retail centres
- Hotels & resorts
- Stadia & concert halls

### Public sector
- Schools & universities
- Hospitals & healthcare
- Government buildings

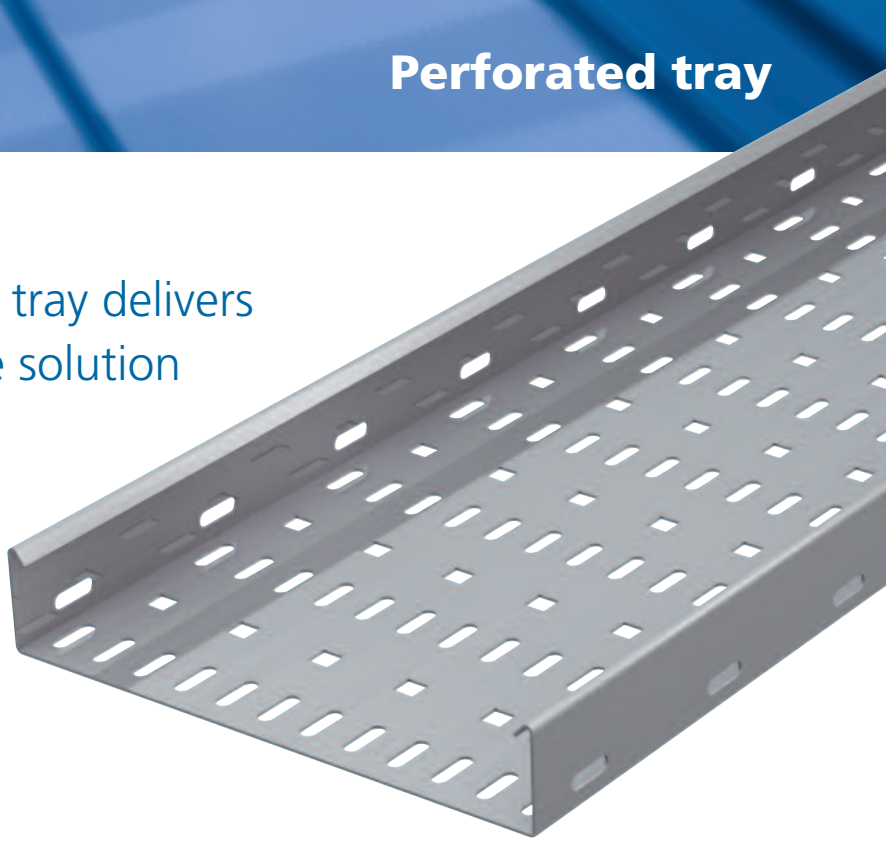
### Industrial
- Automotive plants
- Food processing
- Pharmaceutical & manufacturing

### Infrastructure
- Airports
- Rail terminals
- Tunnels

### Oil & Gas
- Petrochemical plants
- Oil & Gas refineries
- Offshore platforms

### Utilities
- Power stations
- Water treatment facilities

# Thomas & Betts perforated tray delivers the comprehensive, flexible solution for supporting cable.



T&B perforated tray is a durable and cost effective solution for supporting cable, which is easy to install, modify and maintain.

Suitable for a wide variety of industries and installations, T&B perforated tray offers the sure choice for high quality, high performance cable management.

## Extensive product range

T&B perforated tray is available in aluminium or steel, from medium duty to ultra heavy duty, to cover all types of installation.

Straight sections are complemented by an extensive selection of fittings, covers and accessories to permit specification of full perforated tray systems from a single source.

## Enhanced safety

T&B perforated tray offers enhanced safety with lower risk of exposure to live, energised parts.

In a perforated tray system, cables can be pulled from near one termination enclosure to the next before being connected, rather than being pulled through conduit after the cable is terminated.

## Increased adaptability

Businesses must remain flexible - to be able to expand facilities quickly, or introduce new processes or product lines as markets dictate.

T&B perforated tray offers a major advantage in being highly adaptable to meet new needs and technology, with no need to replace the system with each new development.

Modifications or expansions are achieved quickly as cables can enter or exit the tray at any point, thus keeping business disruption and downtime to a minimum.

## Reduced costs

Reliability and adaptability coupled with ease of maintenance result in perforated tray systems delivering many types of cost saving, including:

- Lower installation, engineering and maintenance costs
- Lower need to reconfigure the system as needs change
- Reduced downtime for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

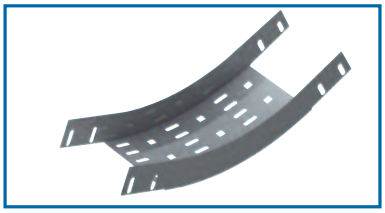
## Low maintenance

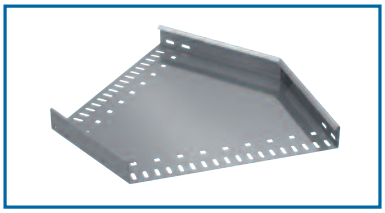
Cable tray wiring systems have a lower maintenance demand than conduit or other systems.

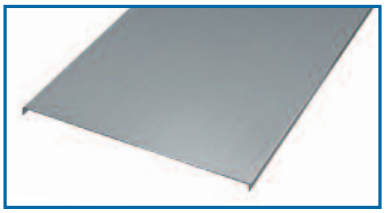
When maintenance is necessary, it proves easier, less labour intensive, and requires less time to complete.

## First class support

Thomas & Betts combines global market leadership with local product & technical support, either through our network of distributors, or via our T&B sales office in Dubai and our production facility at Dammam.







## Contents





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**Thomas & Betts perforated tray is available in four material types for maximum versatility in installation.**

## Material types

- Aluminium
- Steel (pre-galvanized, hot dip galvanized and stainless steel grades 304 and 316)

### **Aluminium** (to 1050 H14)

Aluminium 1050 H14 alloy for lightweight construction, excellent corrosion resistance, and high strength-to-weight ratio. Aluminium cable tray offers simple installation and low maintenance.

### **Pre-galvanized steel** (to BS EN 10142 & BS EN 10143)

Steel is ideal as a high strength, low cost material for cable tray.

Pre-galvanized steel tray is produced by passing the low-carbon steel through molten zinc before fabrication, and is generally recommended for indoor commercial applications rather than outdoor or industrial environments.

### **Hot dip galvanized steel** (to BS EN ISO 1461)

Hot dip galvanized steel tray is produced by immersing the fabricated tray in molten zinc, creating a much thicker coating than pre-galvanized. This process is recommended for most outdoor and harsh industrial applications.

### **Stainless steel** (to AISI Type 316 or 304)

Stainless steel offers high strength and high resistance to chemicals, even at high ambient temperatures. T&B stainless steel cable tray is roll-formed from AISI Type 316 or 304 stainless steel.

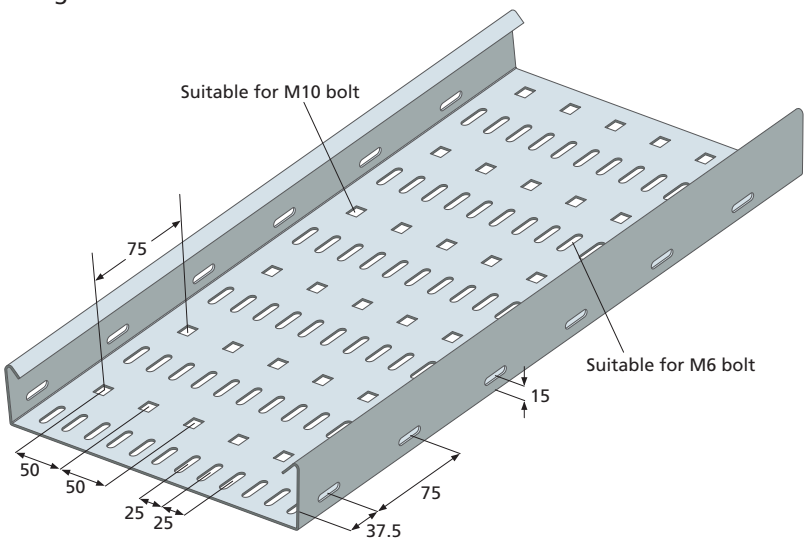
**T&B perforated tray has four duty types with differing siderail heights - 25 mm (medium duty), 50 mm (heavy duty), 75 mm (extra heavy duty) and 100 mm (ultra heavy duty).**

**This design permits specification across the widest possible range of projects with each duty type including the standard T&B perforation pattern.**

## T&B perforation pattern

The pattern used on T&B perforated tray has been specifically designed to meet Middle East market expectations and to ensure all component parts can be quickly and easily coupled together, keeping installation time to a minimum.

Included in the pattern are burr free slots and squares for securing barrier strips, mounts and supports, and also for securing Ty-Rap® cable ties when bundling cable.




Note: cable tray edges and welds are rounded and smoothed during manufacture to prevent cable damage. Care should be taken when handling cable tray and protective gloves should be worn to avoid risk of injury.



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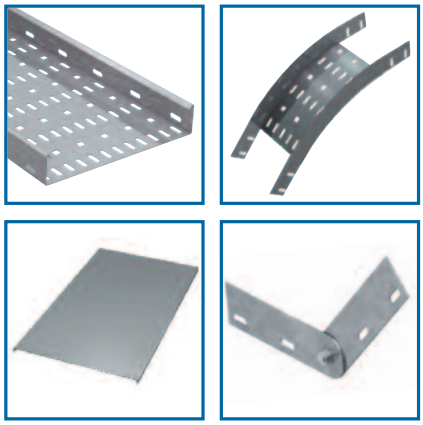
**T&B perforated tray delivers the complete, versatile solution for cable management, with straight sections, fittings, and covers etc., developed to overcome the design constraints found in all kinds of buildings and locations.**



## Straight section

Pre-fabricated steel or aluminium straight sections designed with a perforation pattern which permits efficient connection of Ty-Rap® cable ties, supports and accessories.

Available in aluminium or steel in a range of finishes to cover all possible installation needs.

Supplied complete with standard coupler for connection to fittings and other straight sections.

## Covers

Available for all cable tray widths and material types, covers provide mechanical protection and should be installed where falling objects may damage cables or where vertical tray runs are accessible by pedestrian or vehicular traffic.

Styled as solid or ventilated for varying installation needs, each including an integral flange to enable quick and simple positioning above tray lengths.

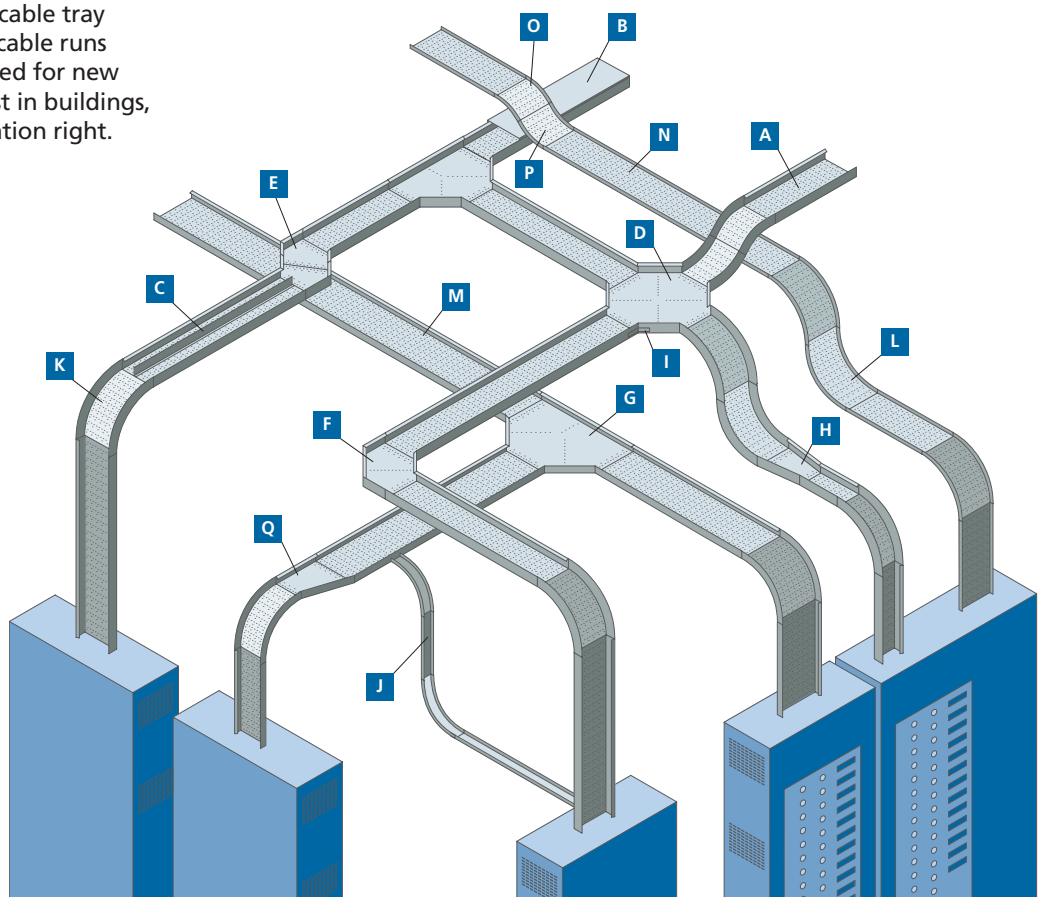
## Fittings

Including bends, reducers, tees and crosses, fittings enable a perforated tray system to change direction, elevation or size to meet building design/cable run constraints.

## Accessories

A complete line of accessories and supports to supplement the function of straight sections and fittings, including couplers, cover brackets, barrier strips, end plates and Superstrut® support solutions.

Straight sections and fittings provide the flexibility to allow cable tray installations to follow cable runs which are either planned for new projects or already exist in buildings, as shown in the illustration right.




- A Extra heavy duty tray
- B Flat cover
- C Barrier strip
- D Horizontal cross
- E Horizontal 45°
- F Horizontal 90°
- G Horizontal tee
- H Straight reducer
- I Cranked coupler
- J Solid channel tray
- K Vertical 90° outside
- L Vertical 90° inside
- M Heavy duty tray
- N Medium duty tray
- O Vertical 45° outside
- P Vertical 45° inside
- Q Reducer - right



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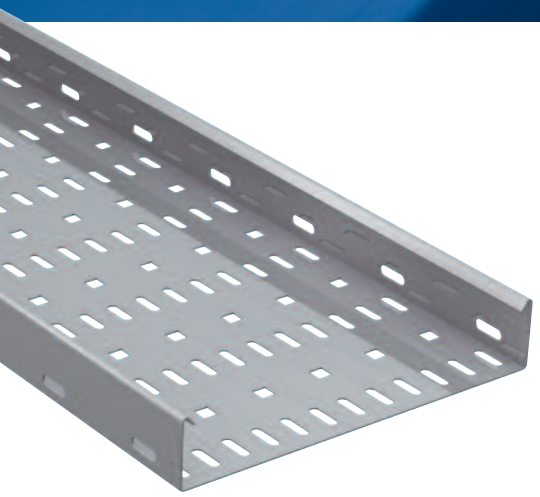

Straight sections are available in aluminium, or steel in a range of finishes, and are supplied complete with standard coupler and tray hardware.

## Features & benefits

- High quality manufacturing delivers enhanced system rigidity
- Choice of aluminium, pre-galvanized, hot dip galvanized, or stainless (304 or 316) steel
- Siderails include return flange for increased strength, safety, enhanced aesthetics and customer appeal
- Siderail heights from 25 mm to 100 mm for medium to ultra heavy duty applications
- Extensive range of tray widths, from 50 mm to 900 mm
- Standard coupler (2 per section) included with each section

## Product selection - straight section

Straight section part numbers are created using a range of selection criteria. Determine the most suitable perforated tray type based on the parameters shown, then use the table below to create the exact part number for your needs.

**IMPORTANT NOTE:** When specifiying perforated tray, note that the tray width must always be greater than the siderail height. For example, medium duty tray with 25 mm siderail can have tray widths from 50 mm to 900 mm as per the table below, whereas for heavy duty tray with 50 mm siderail, tray width starts at 75 mm, and so on for extra heavy duty (75 mm siderail/minimum width 100 mm) and ultra heavy duty (100 mm siderail/minimum width 150 mm).

## Straight section

Select the preferred component parts and create the specific part number as per the example shown.

**SHP75-450SL15-3**

| Material | Siderail height | Tray width | Type | Material thickness* | Length |
|---|---|---|---|---|---|
| ALP \| Aluminium | 25 \| 25 mm | 50 \| 50 mm | SL \| Straight section | 1 \| 1 mm | 3 \| 3 m |
| SPP \| Pre-galvanized steel | 50 \| 50 mm | 75 \| 75 mm | | 15 \| 1.5 mm | |
| SHP \| Hot dip galvanized steel | 75 \| 75 mm | 100 \| 100 mm | | 20 \| 2 mm | |
| SS4P \| Stainless steel 304 | 100 \| 100 mm | 150 \| 150 mm | | | |
| SS6P \| Stainless steel 316 | | 225 \| 225 mm | | | |
| | | 300 \| 300 mm | | | |
| | | 450 \| 450 mm | | | |
| | | 600 \| 600 mm | | | |
| | | 750 \| 750 mm | | | |
| | | 900 \| 900 mm | | | |

* Medium duty perforated tray (25 mm siderail) is supplied with a material thickness of 1 mm for tray widths 50 mm to 225 mm, and 1.5 mm for tray widths 300 mm to 900 mm. Heavy to ultra heavy duty perforated tray (50 mm, 75 mm and 100 mm siderail) is supplied with a material thickness of 1.5 mm for tray widths 75 mm to 300 mm, and 2 mm for tray widths 450 mm to 900 mm.



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Fittings enable a perforated tray system to change direction, elevation or size in order to meet building design and cable run constraints.

## Features & benefits

- All fittings follow a simple, functional design with connection points at all siderail ends for attachment to straight sections/couplers
- Easy to install with straightforward alignment between straight sections and fittings
- Available in all material types - aluminium, pre-galvanized, hot dip galvanized and stainless (304 or 316) steel
- Siderail heights from 25 mm to 100 mm
- Extensive range of tray widths from 50 mm to 900 mm
- Lightweight design for easy handling on-site

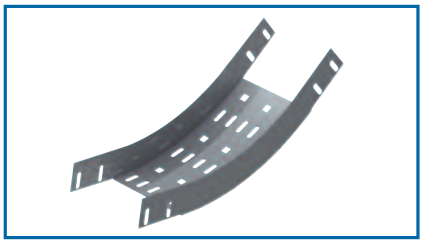
## Range of fittings

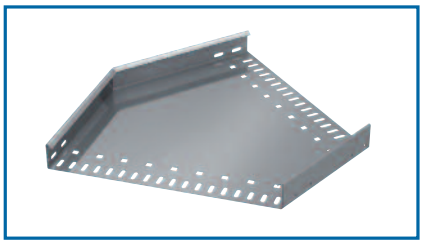
A full suite of fittings ensures the cable tray system can be planned to fit building and cable run constraints within all types of installation.

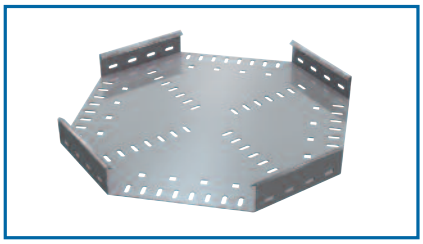
The full range includes:

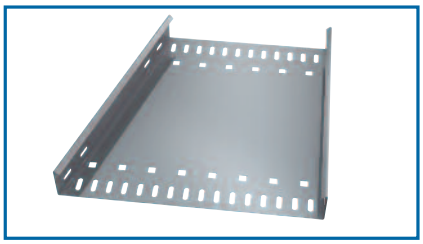
- Horizontal bends - from 30° to 90°
- Vertical bends - inside and outside bends from 30° to 90°
- Horizontal tee
- Horizontal cross
- Straight, left or right reducer

All perforated tray components have been designed to allow a cable bend radius of 300 mm, to simplify planning, design and installation.









## Product selection - fittings

Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable tray system.

Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists in the tables and create the part number following the example shown.



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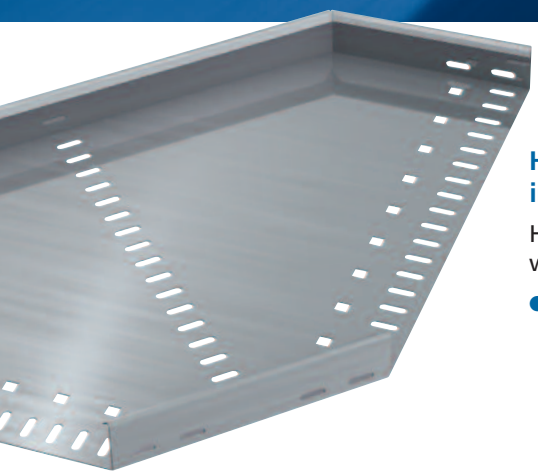


## Horizontal bends enable the cable tray system to change direction in the same plane.

Horizontal bends are available in all material types, siderail heights and tray widths to match straight sections.

- Available with angles of 30°, 45°, 60° or 90°

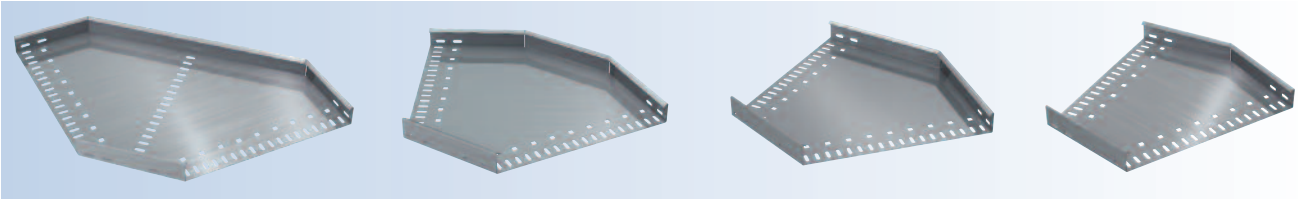
## Horizontal bend

Select the preferred component parts and create the specific part number as per the example shown.

**ALP50-300HB45**

| Material | Siderail height | Tray width | Fitting type | Angle |
|---|---|---|---|---|
| ALP \| Aluminium | 25 \| 25 mm | 50 \| 50 mm | HB \| Horizontal bend | 30 \| 30° |
| SPP \| Pre-galvanized steel | 50 \| 50 mm | 75 \| 75 mm | | 45 \| 45° |
| SHP \| Hot dip galvanized steel | 75 \| 75 mm | 100 \| 100 mm | | 60 \| 60° |
| SS4P \| Stainless steel 304 | 100 \| 100 mm | 150 \| 150 mm | | 90 \| 90° |
| SS6P \| Stainless steel 316 | | 225 \| 225 mm | | |
| | | 300 \| 300 mm | | |
| | | 450 \| 450 mm | | |
| | | 600 \| 600 mm | | |
| | | 750 \| 750 mm | | |
| | | 900 \| 900 mm | | |

| 90° | 60° | 45° | 30° |
|---|---|---|---|





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## Vertical bends enable the cable tray system to change direction to a different plane.

An inside vertical bend changes direction upward from the horizontal plane. An outside vertical bend changes direction downward from the horizontal plane.

Vertical bends are available in all material types, siderail heights and tray widths to match straight sections.

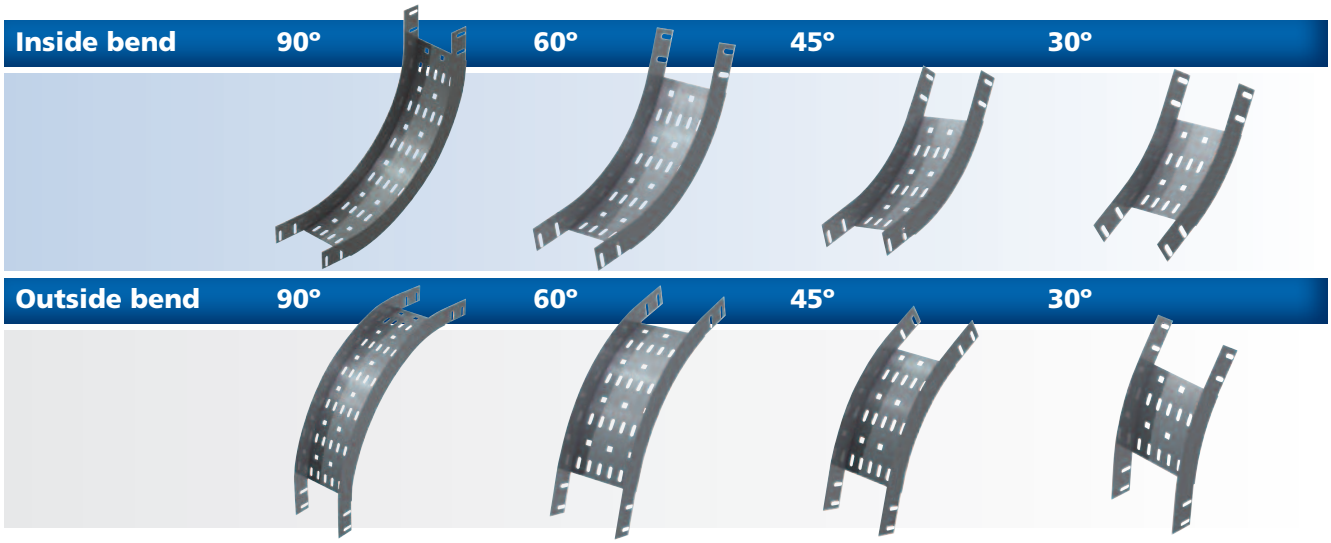
- Available with angles of 30°, 45°, 60° or 90°

## Vertical bend

Select the preferred component parts and create the specific part number as per the example shown.

**ALP50-300VI45**

| Material | Siderail height | Tray width | Fitting type | Angle |
|---|---|---|---|---|
| ALP \| Aluminium | 25 \| 25 mm | 50 \| 50 mm | VI \| Vertical inside bend | 30 \| 30° |
| SPP \| Pre-galvanized steel | 50 \| 50 mm | 75 \| 75 mm | VO \| Vertical outside bend | 45 \| 45° |
| SHP \| Hot dip galvanized steel | 75 \| 75 mm | 100 \| 100 mm | | 60 \| 60° |
| SS4P \| Stainless steel 304 | 100 \| 100 mm | 150 \| 150 mm | | 90 \| 90° |
| SS6P \| Stainless steel 316 | | 225 \| 225 mm | | |
| | | 300 \| 300 mm | | |
| | | 450 \| 450 mm | | |
| | | 600 \| 600 mm | | |
| | | 750 \| 750 mm | | |
| | | 900 \| 900 mm | | |



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**Horizontal tees and crosses enable joins to be made in the cable tray system at 90° angles, in the same plane.**

Available in all material types, siderail heights and tray widths to match straight sections.

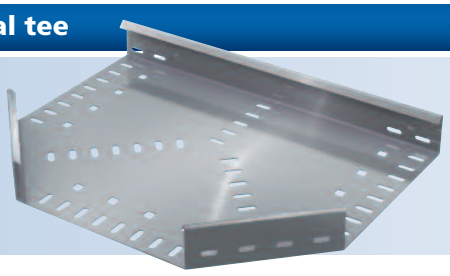
## Horizontal tee & cross

Select the preferred component parts and create the specific part number as per the example shown.

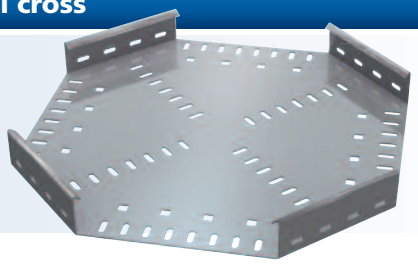
**SS6P100-750HT**

| Material | Siderail height | Tray width | Fitting type |
|---|---|---|---|
| ALP \| Aluminium | 25 \| 25 mm | 50 \| 50 mm | HT \| Horizontal tee |
| SPP \| Pre-galvanized steel | 50 \| 50 mm | 75 \| 75 mm | HX \| Horizontal cross |
| SHP \| Hot dip galvanized steel | 75 \| 75 mm | 100 \| 100 mm | |
| SS4P \| Stainless steel 304 | 100 \| 100 mm | 150 \| 150 mm | |
| SS6P \| Stainless steel 316 | | 225 \| 225 mm | |
| | | 300 \| 300 mm | |
| | | 450 \| 450 mm | |
| | | 600 \| 600 mm | |
| | | 750 \| 750 mm | |
| | | 900 \| 900 mm | |

## Horizontal tee



## Horizontal cross





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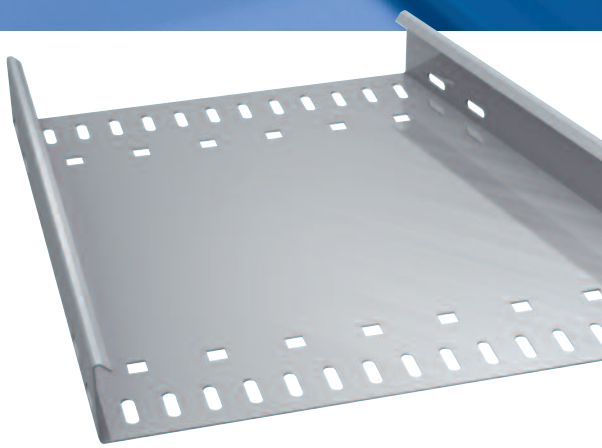


**Reducers enable joins to be made in the cable tray system to fittings or straight sections of different widths, in the same plane.**

An offset reducer has the reduction set to a single side (right or left).
A straight reducer has two symmetrical offset sides.

Available in all material types, siderail heights and tray widths to match straight sections.

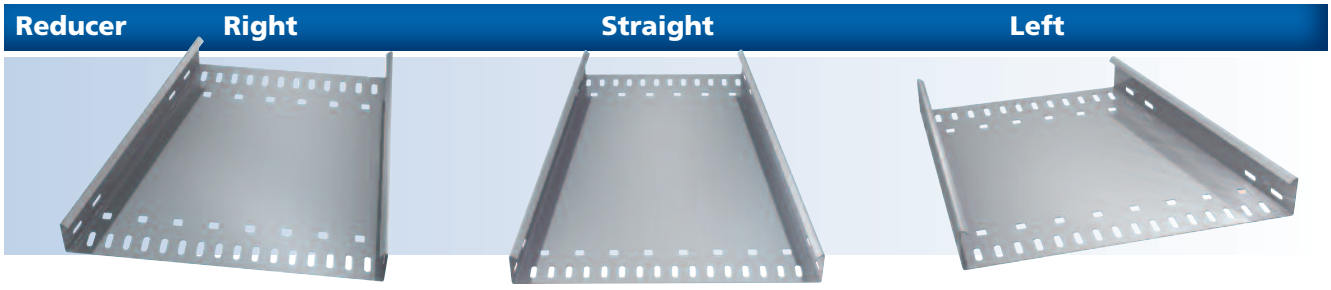
- For reduction, tray width 2 should be less than tray width 1

## Reducer

Select the preferred component parts and create the specific part number as per the example shown.

**ALP50-300-150SR**

| Material | Siderail height | Tray width 1 | Tray width 2 | Fitting type |
|---|---|---|---|---|
| ALP \| Aluminium | 25 \| 25 mm | 75 \| 75 mm | 50 \| 50 mm | SR \| Straight reducer |
| SPP \| Pre-galvanized steel | 50 \| 50 mm | 100 \| 100 mm | 75 \| 75 mm | LR \| Offset reducer - left |
| SHP \| Hot dip galvanized steel | 75 \| 75 mm | 150 \| 150 mm | 100 \| 100 mm | RR \| Offset reducer - right |
| SS4P \| Stainless steel 304 | 100 \| 100 mm | 225 \| 225 mm | 150 \| 150 mm | |
| SS6P \| Stainless steel 316 | | 300 \| 300 mm | 225 \| 225 mm | |
| | | 450 \| 450 mm | 300 \| 300 mm | |
| | | 600 \| 600 mm | 450 \| 450 mm | |
| | | 750 \| 750 mm | 600 \| 600 mm | |
| | | 900 \| 900 mm | 750 \| 750 mm | |



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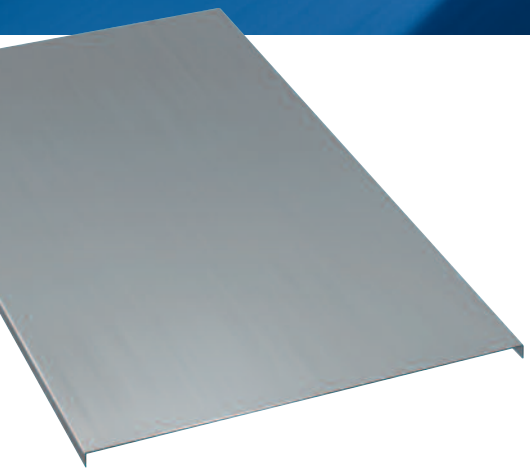

**Tray covers are available for all cable tray widths and material types, in solid flanged or ventilated flanged format.**

**Covers provide mechanical protection to cable runs and should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.**

Solid flanged covers provide maximum mechanical protection for cables which have limited heat build up. Ventilated flanged covers offer excellent mechanical protection whilst allowing heat produced by cables to dissipate through vents in the surface.

Both solid and ventilated covers include a 15 mm (nominal) flange which enables easy location of the cover above the tray.

Note: cover mounting hardware must be ordered separately for all cover types.

## Product selection - covers

Cover part numbers are based on a range of selection criteria, dependent on the type of cover required, and the need to cover straight sections or fittings.

The tables shown below and over the following pages establish the selection criteria for each cover type. Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown.

### Cover - straight section

Select the preferred component parts and create the specific part number as per the example shown.

**SPP75-SFC-3**

| Material | Tray width | Cover type | Length |
|---|---|---|---|
| ALP \| Aluminum | 50 \| 50 mm | SFC \| Solid flanged cover | 3 \| 3 m |
| SPP \| Pre-galvanized steel | 75 \| 75 mm | VFC \| Ventilated flanged cover | |
| SHP \| Hot dip galvanized steel | 100 \| 100 mm | | |
| SS4P \| Stainless steel 304 | 150 \| 150 mm | | |
| SS6P \| Stainless steel 316 | 225 \| 225 mm | | |
| | 300 \| 300 mm | | |
| | 450 \| 450 mm | | |
| | 600 \| 600 mm | | |
| | 750 \| 750 mm | | |
| | 900 \| 900 mm | | |



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## Cover - horizontal bend & vertical inside bend

Select the preferred component parts and create the specific part number as per the example shown.

**SHP75-SFC-HB45**

| Material | Tray width | Cover type | Fitting type | Angle |
|---|---|---|---|---|
| ALP \| Aluminium | 50 \| 50 mm | SFC \| Solid flanged cover | HB \| Horizontal bend | 30 \| 30° |
| SPP \| Pre-galvanized steel | 75 \| 75 mm | VFC \| Ventilated flanged cover | VI \| Vertical inside bend | 45 \| 45° |
| SHP \| Hot dip galvanized steel | 100 \| 100 mm | | | 60 \| 60° |
| SS4P \| Stainless steel 304 | 150 \| 150 mm | | | 90 \| 90° |
| SS6P \| Stainless steel 316 | 225 \| 225 mm | | | |
| | 300 \| 300 mm | | | |
| | 450 \| 450 mm | | | |
| | 600 \| 600 mm | | | |
| | 750 \| 750 mm | | | |
| | 900 \| 900 mm | | | |

## Cover - vertical outside bend

Select the preferred component parts and create the specific part number as per the example shown.

**ALP25-75-SFC-VO90**

| Material | Siderail height | Tray width | Cover type | Fitting type | Angle |
|---|---|---|---|---|---|
| ALP \| Aluminium | 25 \| 25 mm | 50 \| 50 mm | SFC \| Solid flanged cover | VO \| Vertical outside bend | 30 \| 30° |
| SPP \| Pre-galvanized steel | 50 \| 50 mm | 75 \| 75 mm | VFC \| Ventilated flanged cover | | 45 \| 45° |
| SHP \| Hot dip galvanized steel | 75 \| 75 mm | 100 \| 100 mm | | | 60 \| 60° |
| SS4P \| Stainless steel 304 | 100 \| 100 mm | 150 \| 150 mm | | | 90 \| 90° |
| SS6P \| Stainless steel 316 | | 225 \| 225 mm | | | |
| | | 300 \| 300 mm | | | |
| | | 450 \| 450 mm | | | |
| | | 600 \| 600 mm | | | |
| | | 750 \| 750 mm | | | |
| | | 900 \| 900 mm | | | |



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## Cover - reducer

Select the preferred component parts and create the specific part number as per the example shown.

**SS6P75-50-SFC-SR**

| Material | Tray width 1 | Tray width 2 | Cover type | Fitting type |
|---|---|---|---|---|
| ALP \| Aluminium | 75 \| 75 mm | 50 \| 50 mm | SFC \| Solid flanged cover | SR \| Straight reducer |
| SPP \| Pre-galvanized steel | 100 \| 100 mm | 75 \| 75 mm | VFC \| Ventilated flanged cover | LR \| Offset reducer - left |
| SHP \| Hot dip galvanized steel | 150 \| 150 mm | 100 \| 100 mm | | RR \| Offset reducer - right |
| SS4P \| Stainless steel 304 | 225 \| 225 mm | 150 \| 150 mm | | |
| SS6P \| Stainless steel 316 | 300 \| 300 mm | 225 \| 225 mm | | |
| | 450 \| 450 mm | 300 \| 300 mm | | |
| | 600 \| 600 mm | 450 \| 450 mm | | |
| | 750 \| 750 mm | 600 \| 600 mm | | |
| | 900 \| 900 mm | 750 \| 750 mm | | |

Note: for reduction, tray width 2 should be less than tray width 1.

## Cover - horizontal tee & cross

Select the preferred component parts and create the specific part number as per the example shown.

**SS4P75-SFC-HT**

| Material | Tray width | Cover type | Fitting type |
|---|---|---|---|
| ALP \| Aluminium | 50 \| 50 mm | SFC \| Solid flanged cover | HT \| Horizontal tee |
| SPP \| Pre-galvanized steel | 75 \| 75 mm | VFC \| Ventilated flanged cover | HX \| Horizontal cross |
| SHP \| Hot dip galvanized steel | 100 \| 100 mm | | |
| SS4P \| Stainless steel 304 | 150 \| 150 mm | | |
| SS6P \| Stainless steel 316 | 225 \| 225 mm | | |
| | 300 \| 300 mm | | |
| | 450 \| 450 mm | | |
| | 600 \| 600 mm | | |
| | 750 \| 750 mm | | |
| | 900 \| 900 mm | | |



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## Accessories and supports supplement installation of straight sections, covers and fittings.

Accessories enable clamping of covers, separation of cables within trays and variable mounting, support and suspension of the perforated tray system.

## Quantity of standard cover brackets required:

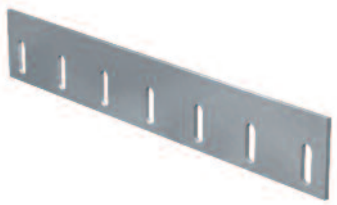
| | |
|---|---|
| Straight section | 6 pieces |
| Horizontal and vertical bends | 4 pieces |
| Tees | 6 pieces |
| Crosses | 8 pieces |

Note: when using the heavy duty cover clamp, only half the quantity of pieces are required.

**IMPORTANT NOTE:** tray hardware, where included with accessories, is supplied in electro-galvanized format. Stainless steel hardware is available through addition of a suffix, as noted with each applicable accessory.

## Straight coupler

For connecting straight sections to fittings and other straight sections. Electro-galvanized hardware included as standard.



| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-SSP | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm |
| SPP-(*)-SSP | Steel (pre-galvanized) | |
| SHP-(*)-SSP | Steel (hot dip galvanized) | |
| SS4P-(*)-SSP | Stainless steel 304 | |
| SS6P-(*)-SSP | Stainless steel 316 | |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-SSP-S4** = 25 mm siderail coupler with stainless steel 304 hardware.

## Reducer coupler

For connections between straight sections and fittings or other straight sections, with varying tray widths. Electro-galvanized hardware included as standard.

| Part No. | Material | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| ALP-(*)-(+)-RSP | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm | Replace (+) with reduction amount, eg:<br>25 = 25 mm<br>300 = 300 mm etc |
| SPP-(*)-(+)-RSP | Steel (pre-galvanized) | | |
| SHP-(*)-(+)-RSP | Steel (hot dip galvanized) | | |
| SS4P-(*)-(+)-RSP | Stainless steel 304 | | |
| SS6P-(*)-(+)-RSP | Stainless steel 316 | | |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-300-RSP-S4** = 25 mm siderail reducer coupler with stainless steel 304 hardware.

## Expansion coupler

For connecting straight sections to fittings and other straight sections allowing for up to 25 mm expansion of the perforated cable tray system.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-ESP | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm |
| SPP-(*)-ESP | Steel (pre-galvanized) | |
| SHP-(*)-ESP | Steel (hot dip galvanized) | |
| SS4P-(*)-ESP | Stainless steel 304 | |
| SS6P-(*)-ESP | Stainless steel 316 | |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-ESP-S4** = 25 mm siderail expansion coupler with stainless steel 304 hardware.



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## 45° Cranked coupler

For connections between straight sections and fittings or other straight sections, at 45°. Electro-galvanized hardware included as standard.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-CCP | Aluminium | Replace (*) with reference for siderail height: |
| SPP-(*)-CCP | Steel (pre-galvanized) | 25 = 25 mm |
| SHP-(*)-CCP | Steel (hot dip galvanized) | 50 = 50 mm |
| SS4P-(*)-CCP | Stainless steel 304 | 75 = 75 mm |
| SS6P-(*)-CCP | Stainless steel 316 | 100 = 100 mm |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-CCP-S4** = 25 mm siderail cranked coupler with stainless steel 304 hardware.

## 45° Cranked reducer coupler

For connections between straight sections and fittings or other straight sections with reduced tray widths, at a 45° angle. Electro-galvanized hardware included as standard.

| Part No. | Material | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| ALP-(*)-(+)-CRP | Aluminium | Replace (*) with reference for siderail height: | Replace (+) with reduction amount, eg: |
| SPP-(*)-(+)-CRP | Steel (pre-galvanized) | 25 = 25 mm | 25 = 25 mm |
| SHP-(*)-(+)-CRP | Steel (hot dip galvanized) | 50 = 50 mm | 300 = 300 mm etc |
| SS4P-(*)-(+)-CRP | Stainless steel 304 | 75 = 75 mm | |
| SS6P-(*)-(+)-CRP | Stainless steel 316 | 100 = 100 mm | |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-300-CRP-S4** = 25 mm siderail cranked reducer coupler with stainless steel 304 hardware.

## Horizontal adjustable coupler

For connecting straight sections to fittings and other straight sections at an angle in the horizontal plane. Electro-galvanized hardware included as standard.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-HAP | Aluminium | Replace (*) with reference for siderail height: |
| SPP-(*)-HAP | Steel (pre-galvanized) | 25 = 25 mm |
| SHP-(*)-HAP | Steel (hot dip galvanized) | 50 = 50 mm |
| SS4P-(*)-HAP | Stainless steel 304 | 75 = 75 mm |
| SS6P-(*)-HAP | Stainless steel 316 | 100 = 100 mm |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-HAP-S4** = 25 mm siderail horizontal adjustable coupler with stainless steel 304 hardware.

## Vertical adjustable coupler

For connecting straight sections to fittings and other straight sections at an angle in the vertical plane. Electro-galvanized hardware included as standard.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-VSP | Aluminium | Replace (*) with reference for siderail height: |
| SPP-(*)-VSP | Steel (pre-galvanized) | 25 = 25 mm |
| SHP-(*)-VSP | Steel (hot dip galvanized) | 50 = 50 mm |
| SS4P-(*)-VSP | Stainless steel 304 | 75 = 75 mm |
| SS6P-(*)-VSP | Stainless steel 316 | 100 = 100 mm |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-VSP-S4** = 25 mm siderail vertical adjustable coupler with stainless steel 304 hardware.



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## Cover bracket

For securing covers to straight sections and fittings, with flush fit. Order hardware separately.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-SCC | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm |
| SPP-(*)-SCC | Steel (pre-galvanized) | |
| SHP-(*)-SCC | Steel (hot dip galvanized) | |
| SS4P-(*)-SCC | Stainless steel 304 | |
| SS6P-(*)-SCC | Stainless steel 316 | |

## Raised cover bracket

For securing covers to straight sections and fittings, whilst allowing a nominal 25 mm gap for additional ventilation. Order hardware separately.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-RCC | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm |
| SPP-(*)-RCC | Steel (pre-galvanized) | |
| SHP-(*)-RCC | Steel (hot dip galvanized) | |
| SS4P-(*)-RCC | Stainless steel 304 | |
| SS6P-(*)-RCC | Stainless steel 316 | |

## Heavy duty cover clamp

Wraparound design offers added protection for rugged applications. Electro-galv. hardware included.

| Part No. | Material | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| ALP-(*)(+)-HCC | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm | Replace (+) with reference for tray width:<br>50 = 50 mm 75 = 75 mm<br>100 = 100 mm 150 = 150 mm<br>225 = 225 mm 300 = 300 mm<br>450 = 450 mm 600 = 600 mm<br>750 = 750 mm 900 = 900 mm |
| SPP-(*)(+)-HCC | Steel (pre-galvanized) | | |
| SHP-(*)(+)-HCC | Steel (hot dip galvanized) | | |
| SS4P-(*)(+)-HCC | Stainless steel 304 | | |
| SS6P-(*)(+)-HCC | Stainless steel 316 | | |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25300-HCC-S4** = cover clamp with stainless steel 304 hardware.

## Hold down clamp

Designed to secure perforated cable tray to support system. Electro-galvanized hardware included as standard.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-HDC | Aluminium | Replace (*) with reference for siderail height:<br>25 = 25 mm<br>50 = 50 mm<br>75 = 75 mm<br>100 = 100 mm |
| SPP-(*)-HDC | Steel (pre-galvanized) | |
| SHP-(*)-HDC | Steel (hot dip galvanized) | |
| SS4P-(*)-HDC | Stainless steel 304 | |
| SS6P-(*)-HDC | Stainless steel 316 | |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-HDC-S4** = 25 mm siderail hold down clamp with stainless steel 304 hardware.



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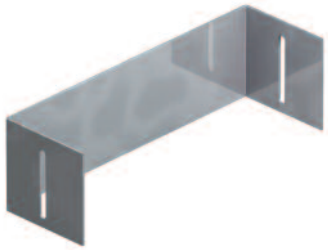
## Barrier strip

Barrier strips provide a method of separating cables in tray systems. Easily installed using supplied electro-galvanized hardware. Length 3 m.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-SBH-3 | Aluminium | Replace (*) with reference for siderail height: |
| SPP-(*)-SBH-3 | Steel (pre-galvanized) | 25 = 25 mm |
| SHP-(*)-SBH-3 | Steel (hot dip galvanized) | 50 = 50 mm |
| SS4P-(*)-SBH-3 | Stainless steel 304 | 75 = 75 mm |
| SS6P-(*)-SBH-3 | Stainless steel 316 | 100 = 100 mm |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-SBH-3-S4** = 25 mm siderail barrier strip with stainless steel 304 hardware.

## Closure end plate



Provides closure to any tray end. Electro-galvanized hardware included.

| Part No. | Material | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| ALP-(*)(+)-CEP | Aluminium | Replace (*) with reference for siderail height: | Replace (+) with reference for tray width: |
| SPP-(*)(+)-CEP | Steel (pre-galvanized) | 25 = 25 mm | 50 = 50 mm 75 = 75 mm |
| SHP-(*)(+)-CEP | Steel (hot dip galvanized) | 50 = 50 mm | 100 = 100 mm 150 = 150 mm |
| SS4P-(*)(+)-CEP | Stainless steel 304 | 75 = 75 mm | 225 = 225 mm 300 = 300 mm |
| SS6P-(*)(+)-CEP | Stainless steel 316 | 100 = 100 mm | 450 = 450 mm 600 = 600 mm |
| | | | 750 = 750 mm 900 = 900 mm |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25150-CEP-S4** = closure end plate with stainless steel 304 hardware.

## Drop-out

Designed to provide a smooth radiused surface at any position on the tray bottom. Drop-outs are easily attached using electro-galvanized hardware provided. Nominal radius 100 mm.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-DO | Aluminium | Replace (*) with reference for tray width: |
| SPP-(*)-DO | Steel (pre-galvanized) | 50 = 50 mm 75 = 75 mm 100 = 100 mm |
| SHP-(*)-DO | Steel (hot dip galvanized) | 150 = 150 mm 225 = 225 mm 300 = 300 mm |
| SS4P-(*)-DO | Stainless steel 304 | 450 = 450 mm 600 = 600 mm 750 = 750 mm |
| SS6P-(*)-DO | Stainless steel 316 | 900 = 900 mm |

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-600-DO-S4** = drop-out with stainless steel 304 hardware.

## Vertical tray hanger

For suspension of vertically hanging perforated tray. Requires threaded rod and hardware (order separately).

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| ALP-(*)-VTH | Aluminium | Replace (*) with reference for siderail height: |
| SPP-(*)-VTH | Steel (pre-galvanized) | 25 = 25 mm |
| SHP-(*)-VTH | Steel (hot dip galvanized) | 50 = 50 mm |
| SS4P-(*)-VTH | Stainless steel 304 | 75 = 75 mm |
| SS6P-(*)-VTH | Stainless steel 316 | 100 = 100 mm |



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## Trapeze kit

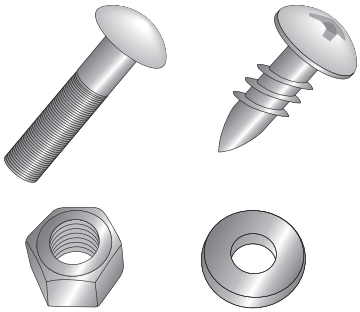
Trapeze kits are designed to support various cable tray widths in a suspending installation.

Kit includes strut (cut to length) and all appropriate hardware including hex nuts, screws and washers. Uses 1/2" threaded rod (order separately).

| Part No. | Description | Part No. variable (*) |
|---|---|---|
| WSP-(*)-TPK | Steel (pre-galvanized) | Replace (*) with reference for tray width:<br>**50** = 50 mm **75** = 75 mm **100** = 100 mm<br>**150** = 150 mm **225** = 225 mm **300** = 300 mm<br>**450** = 450 mm **600** = 600 mm **750** = 750 mm<br>**900** = 900 mm |
| WSH-(*)-TPK | Steel (hot dip galvanized) | |
| WSS-(*)-TPK | Stainless steel 316* | |

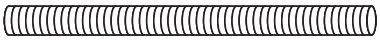
* Stainless steel 304 available to special order.

## Tray hardware



| Part No. | Description | Part No. variable (*) |
|---|---|---|
| (*)-M616-RHB | M6 x 16 round head bolt | Replace (*) with reference for material:<br>**SPP** = Zinc plated steel<br>**SS4P** = Stainless steel 304<br>**SS6P** = Stainless steel 316 |
| (*)-M616-HN | M6 hex. nut | |
| (*)-M6-FW | M6 flat washer | |
| (*)-M616-HWK | Hardware kit inc. 8 nuts, 8 bolts & 8 flat washers | |
| WSP-10-SCR | Self-drilling tapping screw | Material : zinc plated steel |

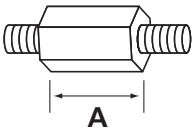
## Threaded rod



| Part No. | Size | Threads/inch | Design load | Part No. variable (*) |
|---|---|---|---|---|
| H104-1/4x3(*) | 1/4" | 20 | 68 kg (150 lb) | Replace (*) with reference for material type:<br>**EG** = Electro-galvanized<br>**HDG** = Hot dip galvanized<br>**SS4** = Stainless steel 304<br>**SS6** = Stainless steel 316 |
| H104-3/8x3(*) | 3/8" | 16 | 277 kg (610 lb) | |
| H104-1/2x3(*) | 1/2" | 13 | 513 kg (1130 lb) | |
| H104-5/8x3(*) | 5/8" | 11 | 822 kg (1810 lb) | |
| H104-3/4x3(*) | 3/4" | 10 | 1231 kg (2710 lb) | |
| H104-7/8x3(*) | 7/8" | 9 | 1713 kg (3770 lb) | |
| H104-1x3(*) | 1" | 8 | 2254 kg (4960 lb) | |

Standard length 3 m. Rod available in metric sizes to special order - contact Thomas & Betts.

## Threaded rod coupling




| Part No. | Rod size | A | Part No. variable (*) |
|---|---|---|---|
| H119-1/4(*) | 1/4" | 7/8" | Replace (*) with reference for material type:<br>**EG** = Electro-galvanized<br>**HDG** = Hot dip galvanized<br>**SS4** = Stainless steel 304<br>**SS6** = Stainless steel 316 |
| H119-5/16(*) | 5/16" | 7/8" | |
| H119-3/8(*) | 3/8" | 1 1/8" | |
| H119-1/2(*) | 1/2" | 1 1/4" | |
| H119-5/8(*) | 5/8" | 2 1/8" | |
| H119-3/4(*) | 3/4" | 2 1/4" | |
| H119-7/8(*) | 7/8" | 2 1/2" | |
| H119-1(*) | 1" | 2 1/4" | |

Coupling available in metric sizes to special order - contact Thomas & Betts.



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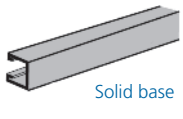
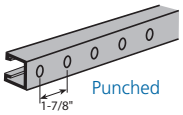
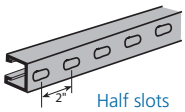
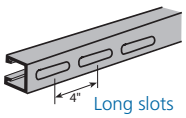
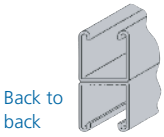
## Superstrut® 2.5 mm (12 Ga.) & 2 mm (14 Ga.) channel - type A and type B

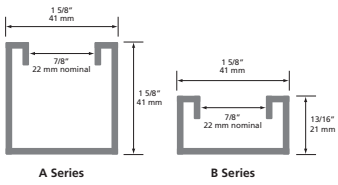


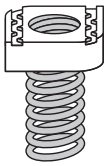



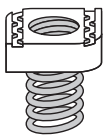




Metal framing channel available in 2.5 mm (12 Gauge) and 2 mm (14 Gauge) thickness. Aluminium, hot dip galvanized or stainless steel channels are recommended to support aluminium, steel or stainless steel cable tray. Offered in lengths of 10 ft, 20 ft, 3 m or 6 m.

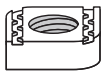
| Part No. (12 Ga.) | Part No. (14 Ga.) | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|---|
| A Series channel - 1 5/8" x 1 5/8" / 41 mm x 41 mm | | | | |
| A1200-(*)-(+)M | A1400-(*)-(+)M | Solid base | Replace (*) with ref. for length:<br>10 = 10 ft<br>20 = 20 ft<br>3 = 3 m<br>6 = 6 m | Replace (+) with ref. for material/finish type:<br>AL = Aluminium<br>HDG = Hot dip galvanized<br>PG = Pre-galvanized<br>T304 = Stainless steel 304<br>T316 = Stainless steel 316 |
| A1200-P-(*)-(+)M | A1400-P-(*)-(+)M | Punched | | |
| A1200-HS-(*)-(+)M | A1400-HS-(*)-(+)M | Half slots | | |
| A1200-S-(*)-(+)M | A1400-S-(*)-(+)M | Long slots | | |
| A1202-(*)-(+)M | A1402-(*)-(+)M | Back to back | | |
| B Series channel - 1 5/8" x 13/16" / 41 mm x 21 mm | | | | |
| B1200-(*)-(+)M | B1400-(*)-(+)M | Solid base | Replace (*) with ref. for length:<br>10 = 10 ft<br>20 = 20 ft<br>3 = 3 m<br>6 = 6 m | Replace (+) with ref. for material/finish type:<br>AL = Aluminium<br>HDG = Hot dip galvanized<br>PG = Pre-galvanized<br>T304 = Stainless steel 304<br>T316 = Stainless steel 316 |
| B1200-P-(*)-(+)M | B1400-P-(*)-(+)M | Punched | | |
| B1200-HS-(*)-(+)M | B1400-HS-(*)-(+)M | Half slots | | |
| B1200-S-(*)-(+)M | B1400-S-(*)-(+)M | Long slots | | |
| B1202-(*)-(+)M | B1402-(*)-(+)M | Back to back | | |

## Channel nuts




Nut is square over 1/2" size



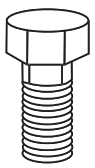

Nut is square over 1/2" size

Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

A100 is designed for A Series channel, and B100 is for B Series. A100 and B100 available in imperial sizes ranging from 1/4" to 7/8", and metric sizes from M6 to M22. AB100 available in imperial sizes ranging from 1/4" to 3/4", and metric sizes from M6 to M20.

| Part No. | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| A100-(*)-(+) | Spring nut | Replace (*) with reference for thread size:<br>1/4 = 1/4"/M6 5/16 = 5/16"/M8<br>3/8 = 3/8"/M10 1/2 = 1/2"/M12<br>5/8 = 5/8"/M16 3/4 = 3/4"/M20<br>7/8 = 7/8"/M22 | Replace (+) with ref. for material/finish type:<br>EG = Electro-galvanized<br>HDG = Hot dip galvanized<br>SS4 = Stainless steel 304<br>SS6 = Stainless steel 316 |
| B100-(*)-(+) | Spring nut | | |
| AB100-(*)-(+) | Springless nut | | |

## Hex head cap screw



Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

| Part No. | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| E142-(*)-(+) | Hex head cap screw | Replace (*) with reference for size:<br>1/4x100 = 1/4" x 1"<br>1/4x150 = 1/4" x 1 1/2"<br>3/8x100 = 3/8" x 1"<br>3/8x150 = 3/8" x 1 1/2"<br>1/2x100 = 1/2" x 1"<br>1/2x150 = 1/2" x 1 1/2" | Replace (+) with reference for material/finish type:<br>EG = Electro-galvanized<br>HDG = Hot dip galvanized<br>SS4 = Stainless steel 304<br>SS6 = Stainless steel 316 |

Cap screw available in metric sizes to special order - contact Thomas & Betts.



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Thomas&Betts

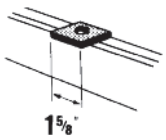
## Superstrut® fittings and brackets

Fittings and brackets are available in four materials. To create specific part numbers, replace the part number variable (*) with the relevant material code shown right:

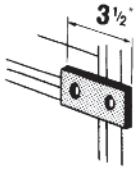
Note: Hot dip galvanized HDG or stainless steel fittings (SS6 or SS4) are recommended to assemble aluminum channel.

| | | |
|---|---|---|
| EG | = | Electro-galvanized |
| HDG | = | Hot dip galvanized |
| SS4 | = | Stainless steel 304 |
| SS6 | = | Stainless steel 316 |

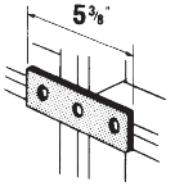
Standard dimensions: **Hole spacing:** 13/16" from end, 1 7/8" centres **Hole size:** 9/16" diameter, fitting width 1 5/8"



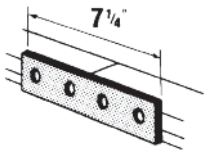

| Part No. | Hole size |
|---|---|
| AB241-1/4(*) | 1/4" |
| AB241-3/8(*) | 3/8" |
| AB241-1/2(*) | 1/2" |
| AB241-3/4(*) | 3/4" |



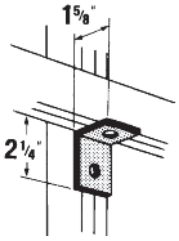

AB206(*)



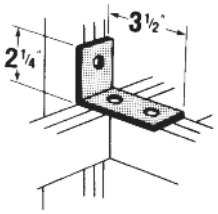

AB207(*)




X207(*)




AB201(*)

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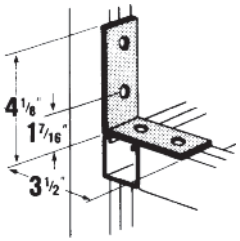


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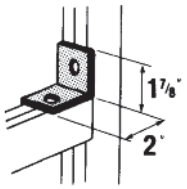


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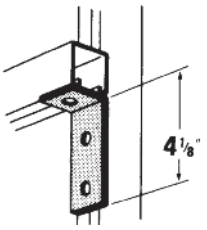


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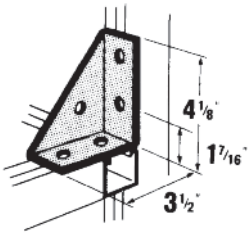


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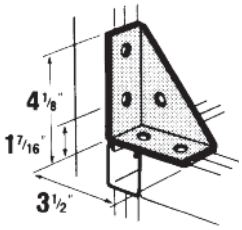


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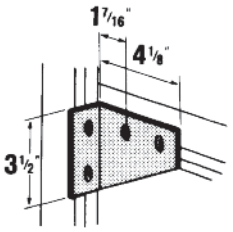
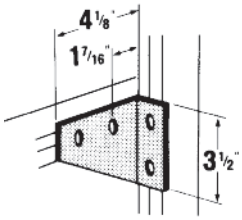
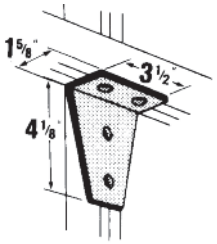


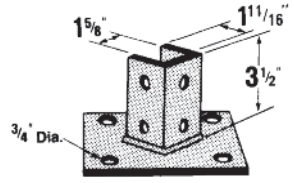

AB254-L(*)



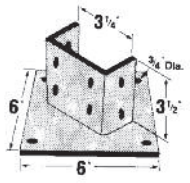

AB254-R(*)



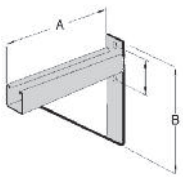

X289(*)



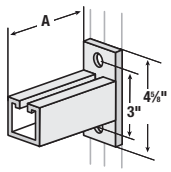

AP232(*)




AP235H(*)

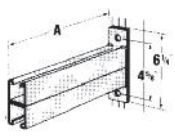



| Part No. | A | B | Load |
|---|---|---|---|
| S249-8(*) | 8 1/2" | 8" | 681 kg (1500 lb) |
| S249-14(*) | 14 1/2" | 9" | 681 kg (1500 lb) |
| S249-20(*) | 20 1/2" | 9" | 681 kg (1500 lb) |
| S249-26(*) | 26 1/2" | 11 1/2" | 681 kg (1500 lb) |
| S249-32(*) | 32 1/2" | 11 1/2" | 681 kg (1500 lb) |
| S249-38(*) | 38 1/2" | 11 1/2" | 681 kg (1500 lb) |




| Part No. | A | Load |
|---|---|---|
| S250-6(*) | 6" | 681 kg (1500 lb) |
| S250-12(*) | 12" | 363 kg (800 lb) |
| S250-18(*) | 18" | 250 kg (550 lb) |
| S250-24(*) | 24" | 181 kg (400 lb) |

Note: may be installed inverted with no change in load ratings. Strut section made from half slot channel.




| Part No. | A | Load |
|---|---|---|
| S251-14(*) | 14 1/2" | 750 kg (1650 lb) |
| S251-20(*) | 20 1/2" | 363 kg (800 lb) |
| S251-26(*) | 26 1/2" | 295 kg (650 lb) |
| S251-32(*) | 32 1/2" | 227 kg (500 lb) |
| S251-38(*) | 38 1/2" | 227 kg (500 lb) |

Superstrut® channel brackets are available in other lengths on request. Contact Thomas & Betts for further information.



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Thomas&Betts

## Cable ladder

Available in aluminium, or steel in a range of finishes, T&B cable ladder provides the optimum solution for supporting large quantities of heavy duty cable, across a wide variety of commercial and industrial installations.

Thomas & Betts cable ladder is manufactured in three styles - ladder, ventilated or solid trough - for maximum versatility and robust, reliable performance on-site.

## Channel tray

T&B channel tray systems provide the ideal light duty solution to cable support.

Suitable for supporting a wide range of telecoms, data, signal, computer and light power cables, channel tray is available in solid or ventilated straight sections together with a full suite of fittings & accessories, to meet the demands of even the most complex installations.

## Non-metallic cable tray

Non-metallic cable tray is tested and proven in the harsh environment of the offshore oil & gas industry, where exposure to adverse and corrosive conditions demands a solution with unique material properties.

Non-metallic cable tray is lightweight, neither rusts nor requires painting, and provides the load capacity of steel.

## ExpressTray™ wire frame cable tray

The ExpressTray™ cable management system is a complete solution for managing light power, voice & data cables in commercial and industrial facilities, that delivers simplicity, efficiency, versatility and performance.

Requiring no corner, cross or bend elements, any layout can be achieved simply with a length of tray and a pair of wire cutters.

## E-Klips spring steel fasteners

E-Klips spring steel fasteners offer a quick, easy and reliable method of fixing services to steelwork without the need for bracket making, drilling holes or use of nuts and bolts.

E-Klips fasteners are suitable for almost every application, including cables, cable tray, ducting, pipework, trunking, light fittings, conduit and suspended ceilings.

## Large radius cable tray

Custom-built cable support for petrochemical project tanks or towers.

This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Designed to special order to meet specific project needs.



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Thomas&Betts

## Cable ties and fasteners

Thomas & Betts offers a broad range of cable ties designed to make the task of fastening, bundling, clamping and managing wires easier for all types of commercial, industrial and OEM applications.

Strength and reliability are hallmarks of the Thomas & Betts cable tie range, which are available in a variety of styles under the core brands: Ty-Rap®, Ty-Met®, Ty-Fast®, Ty-Grip® and Deltec® .

## Terminals and connectors

Sta-Kon®, Shield-Kon®, Color-Keyed® and Dragon Tooth® connectors offer secure, reliable, and highly conductive termination of shielded cables, power cables and magnet wire.

All T&B connectors are complemented by manual and hydraulic crimping tools to enable fast, high quality crimps with the minimum of effort.

## Flexible conduit systems

Thomas & Betts flexible conduit provides excellent protection for electrical cables against aggressive/corrosive environments, moisture and liquids, pressure loads, oil, dust, chemical pollutants and extreme temperatures.

Flexible conduit is available under the Thomas & Betts core brands: Adaptaflex®, Kopex, Kopex-Ex, PMAFIX, PMAFLEX, Shureseal® and Shureflex®.

## Heat shrink technologies

Shrink-Kon® heavy, medium and thin wall heat shrink products protect cables and connectors against moisture, corrosion and abrasion.

Additionally providing mechanical and electrical insulation, Shrink-Kon® products range from highly flexible to semi-rigid for a multitude of applications in industry and OEM.

## Imperial to metric conversion chart

Perforated cable tray accessory and Superstrut® measurements in this publication where necessary are shown as imperial sizes. Please use the following chart for conversions of imperial measurements to metric as required when assessing cable tray projects.

| inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
|---|---|---|---|---|---|---|---|---|---|
| 1/4" | 6.35 mm | 1" | 25.4 mm | 2" | 50.8 mm | 6" | 152.4 mm | 18" | 457.2 mm |
| 5/16" | 7.94 mm | 1 1/8" | 28.58 mm | 2 1/8" | 53.98 mm | 7 1/4" | 184.15 mm | 20 1/2" | 520.7 mm |
| 3/8" | 9.53 mm | 1 1/4" | 31.75 mm | 2 1/4" | 57.15 mm | 8" | 203.8 mm | 24" | 609.6 mm |
| 1/2" | 12.7 mm | 1 7/16" | 36.51 mm | 2 1/2" | 63.5 mm | 8 1/2" | 215.9 mm | 26 1/2" | 673.1 mm |
| 5/8" | 15.9 mm | 1 1/2" | 38.1 mm | 3 1/4" | 82.55 mm | 9" | 228.6 mm | 32 1/2" | 825.5 mm |
| 3/4" | 19.05 mm | 1 5/8" | 41.28 mm | 3 1/2" | 88.9 mm | 11 1/2" | 292.1 mm | 38 1/2" | 977.9 mm |
| 13/16" | 20.64 mm | 1 11/16" | 42.86 mm | 4 1/8" | 104.78 mm | 12" | 304.8 mm | | |
| 7/8" | 22.23 mm | 1 7/8" | 47.63 mm | 5 3/8" | 136.53 mm | 14 1/2" | 368.3 mm | | |



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Thomas&Betts

# T&B® Cable Tray


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TB-AS-PT-1011


Thomas&Betts

T&B® Cable Tray

# Cable Management Systems

## Channel tray

Thomas&Betts

# Delivering world class solutions in cable management.

**Thomas & Betts is a global leader in the design, development and supply of cable support and management solutions.**

**From Ty-Rap® cable ties to complete cable tray systems, Thomas & Betts products are renowned for delivering robust, reliable and high performance solutions to the electrical marketplace.**

With a long history of excellence and innovation, Thomas & Betts products offer the complete solution to your electrical needs.

Thomas & Betts is now manufacturing cable tray systems, including channel tray, perforated tray, cable ladder and strut (metal framing), directly from our new production facility at Dammam in Saudi Arabia.

Combining local manufacture and distribution with an extensive product range, this facility ensures we can effectively support customer demand and respond rapidly to project timelines for all types of installation across the Middle East.

So, whether specifying a major new project, or simply refurbishing existing facilities, choose Thomas & Betts cable tray to deliver the most effective, reliable and long lasting support for your cabling needs.

## Thomas & Betts channel tray is suitable for a wide range of commercial, industrial & public sector projects:

### Commercial
- Offices & retail environments
- Telecommunications centres
- Datacentres and IT facilities

### Public sector
- Schools & universities
- Hospitals & healthcare
- Government buildings

### Industrial
- Automotive plants
- Food processing
- Pharmaceutical & manufacturing

### Infrastructure
- Airports
- Rail terminals
- Tunnels

### Oil & Gas
- Petrochemical plants
- Oil & Gas refineries
- Offshore platforms

### Utilities
- Power stations
- Water treatment facilities

# Thomas & Betts channel tray provides the ideal support system for lighter duty copper and fibre optic cable used in data, signal, telecoms and computer applications.

With many installations now reliant on electronic communications, T&B channel tray offers the easy to install, highly flexible yet robust solution for supporting smaller, lightweight cable runs.

## Extensive product range

T&B channel tray offers a complete system including straight sections, fittings, covers and accessories for optimum versatility when planning cable runs.

Components are available in a range of materials to cover the variety of installation requirements across the Middle East.

## Enhanced safety

Channel tray proves much safer than conduit installation, with lower risk of exposure to live, energised parts.

In a channel tray system, cables can be pulled from near one termination enclosure to the next before being connected, rather than being pulled through the conduit after the cable is terminated.

## Increased adaptability

A major advantage of channel tray is its adaptability. Modification of the system is easy because cables can enter or exit a tray at any point.

Channel tray is often used to provide support to smaller cable runs from a larger cable ladder or perforated cable tray system.

Channel tray can be easily affixed to larger systems, and is revised or expanded simply without disruption or the need to replace the entire cable management system.

## Reduced costs

Reliability, adaptability and ease of maintenance are some of the many benefits of channel tray which deliver savings during installation and over the lifetime of the system.

Straightforward installation ensures costs are reduced considerably compared to the time needed to pull cables through conduit.

High adaptability permits rapid system adjustment, ensuring downtime is kept to a minimum in electrical and data handling systems.

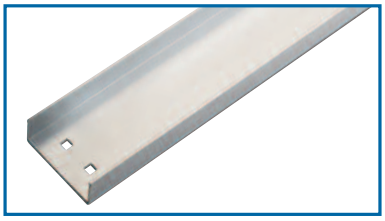
## Low maintenance

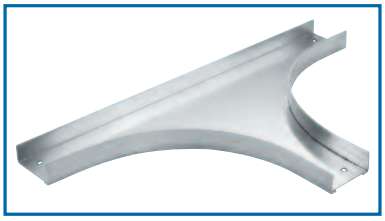
The simplicity of the channel tray system ensures installation and maintenance routines can be conducted quickly and effortlessly.

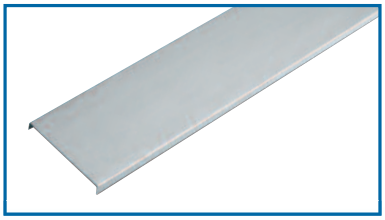
When maintenance is necessary, it requires less labour and time than alternative cabling solutions.

## First class support

Thomas & Betts combines global market leadership with local product & technical support, either through our network of distributors, or via our T&B sales office in Dubai and our production facility at Dammam.







## Contents





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**Thomas & Betts channel tray is available in four material types and two tray bottom types, for maximum versatility.**

## Material types

- Aluminium
- Steel (pre-galvanized, hot dip galvanized & stainless steel)

## Tray bottom types

- Solid
- Ventilated

## Aluminium (to 6063 T6)

Aluminium 6063 T6 alloy for lightweight construction, excellent corrosion resistance, and high strength-to-weight ratio. Aluminium channel tray offers simple installation and low maintenance.

## Pre-galvanized steel (to BS EN 10142 & BS EN 10143)

Steel is ideal as a high strength, low cost material for channel tray.

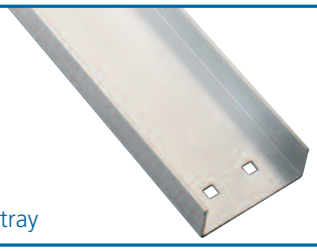
Pre-galvanized steel tray is produced by passing the low-carbon steel through molten zinc before fabrication, and is generally recommended for indoor commercial applications rather than outdoor or industrial environments.

## Hot dip galvanized steel (to BS EN ISO 1461)

Hot dip galvanized steel tray is produced by immersing the fabricated tray in molten zinc, creating a much thicker coating than pre-galvanized. This process is recommended for most outdoor and harsh industrial applications.

## Stainless steel (to AISI Type 316 or 304)

Stainless steel offers high strength and high resistance to chemicals, even at high ambient temperatures. T&B stainless steel channel tray is roll-formed from AISI Type 316 stainless steel, as standard, with Type 304 stainless steel available to special order.


Solid tray


Ventilated tray 1 1/2”


Ventilated tray 3”, 4” & 6”

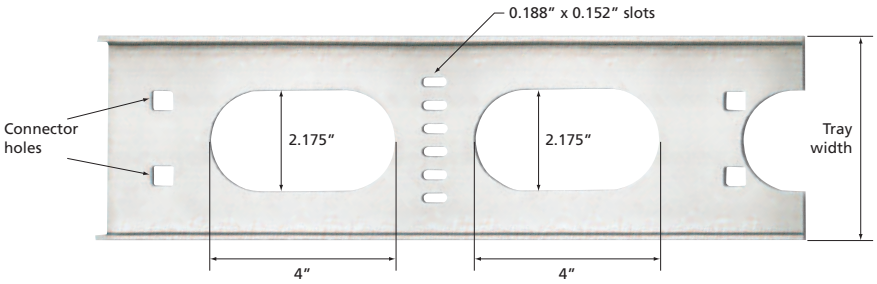
## Channel tray bottom types

Solid channel tray is offered in all widths (1 1/2”, 3”, 4”, 6”), and includes connector holes at each end for attachment of fittings or other straight sections via a splice plate.

3”, 4” and 6” ventilated channel tray includes burr free oblong punched holes for easy access. Ty-Rap® slots are provided between each opening for securing and maintaining air space between cables. Ty-Rap® slots are provided at intervals in 1 1/2” ventilated tray.

Note: fittings supplied in solid bottom type only.

### Punched hole dimensions (ventilated tray widths 3” to 6”)




Note: channel tray edges and welds are rounded and smoothed during manufacture to prevent cable damage. Care should be taken when handling channel tray and protective gloves should be worn to avoid risk of injury.



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Straight sections are available in aluminium, or steel in a range of finishes, with solid or ventilated bottom type.

| Aluminium | Steel |
|---|---|
| • Extruded 6063 T6 Aluminium alloy construction<br>• Nominal channel width from 1 1/2" to 6"<br>• Ventilated bottom type includes pre-punched burr free holes with Ty-Rap® slots between each opening<br>• One splice plate and hardware supplied with each section | • Roll formed pre-galvanized, hot dip galvanized or stainless steel 316 (stainless steel 304 available to special order)<br>• Nominal channel width from 1 1/2" to 6"<br>• Ventilated bottom type includes pre-punched burr free holes with Ty-Rap® slots between each opening<br>• One splice plate and hardware supplied with each section |

## Product selection - straight section

Part numbers are created using a range of selection criteria (shown below). Determine the most suitable channel tray type for your needs, then use the table to create the exact part number.

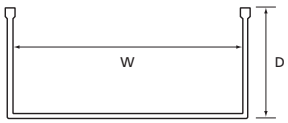
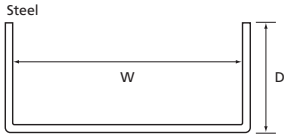
### Straight section

Select the preferred component parts and create the specific part number as per the example shown.

**MSPT-C-04-S-144**

| Material | Type | Tray width | Bottom type | Length |
|---|---|---|---|---|
| MALT \| Aluminium | C \| Straight section | 01 \| 1 1/2" | V \| Ventilated | 144 \| 12 ft |
| MSPT \| Pre-galvanized steel | | 03 \| 3" | S \| Solid trough | 288 \| 24 ft |
| MSHT \| Hot dip galvanized steel | | 04 \| 4" | | 3 \| 3 m/10 ft |
| MSST \| Stainless steel 316* | * Stainless steel 304 available to special order | 06 \| 6" | | |

### Channel tray load rating (lb/ft)

| | Channel width (W) | Channel depth (D) | SOLID CHANNEL TRAY Support span (feet) 2 | 4 | 6 | 8 | 10 | VENTILATED CHANNEL TRAY Support span (feet) 2 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminium  | Aluminium channel tray - **MALT-C** | | | | | | | | | | | |
| | 1 1/2" | 3/4" | 47.5 | 11.9 | 5.4 | 3.0 | 1.9 | 47.5 | 11.9 | 5.4 | 3.0 | 1.9 |
| | 3" | 1 3/8" | 362.5 | 90.6 | 40.3 | 22.7 | 17.0 | 300.0 | 75.0 | 33.3 | 18.8 | 14.0 |
| | 4" | 1 5/8" | 580.0 | 145.0 | 64.4 | 36.3 | 24.0 | 525.0 | 131.3 | 58.3 | 32.8 | 19.0 |
| | 6" | 1 3/4" | 607.5 | 151.9 | 67.5 | 38.0 | 25.0 | 580.0 | 145.0 | 64.4 | 36.3 | 21.0 |
| Steel  | Steel channel tray - **MSPT-C, MSHT-C, MSST-C** | | | | | | | | | | | |
| | 1 1/2" | 3/4" | 97.5 | 24.4 | 10.8 | 6.1 | 3.9 | 97.5 | 24.4 | 10.8 | 6.1 | 3.9 |
| | 3" | 1 3/8" | 252.0 | 63.0 | 28.0 | 15.8 | 17.0 | 207.0 | 51.8 | 23.0 | 12.9 | 14.0 |
| | 4" | 1 5/8" | 408.0 | 102.0 | 45.3 | 25.5 | 24.0 | 363.0 | 90.8 | 40.3 | 22.7 | 19.0 |
| | 6" | 1 3/4" | 432.0 | 108.0 | 48.0 | 27.0 | 25.0 | 405.0 | 101.3 | 45.0 | 25.3 | 21.0 |



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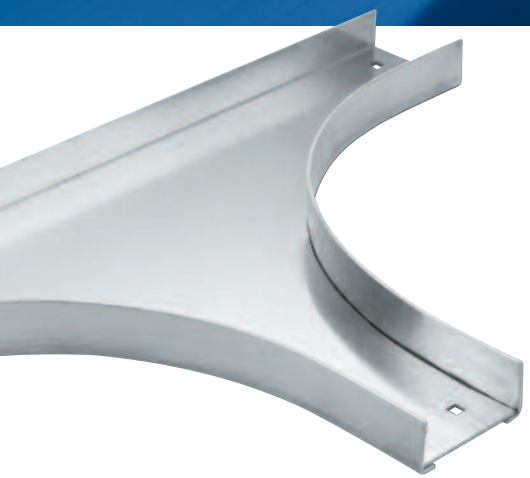


**Fittings enable a channel tray system to change direction or elevation in order to meet building design and cable run constraints.**

The channel tray range of fittings includes:

- Horizontal bends
- Vertical outside bends
- Horizontal crosses
- Vertical inside bends
- Horizontal tees

The most important decision to be made in fitting design concerns radius.

Selection of the most appropriate radius requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost.

Whether horizontal or vertical application, a standard radius of either 12" or 24" is available, with options for zero (non-radius), or custom sizes greater than 24" to special order.

The typical radius specified in channel tray installations is 24".

## Horizontal bend

90° 60° 45° 30°

Horizontal bends enable the channel tray system to change direction in the same plane.

## Vertical inside bend

90° 60° 45° 30°

Vertical inside bends enable the channel tray system to change direction, upwards to a different plane.

## Vertical outside bend

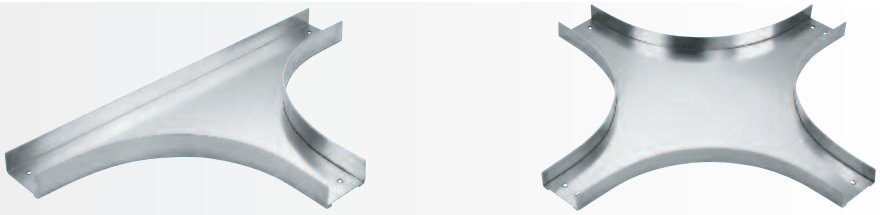
90° 60° 45° 30°

Vertical outside bends enable the channel tray system to change direction, downwards to a different plane.

## Horizontal tee & cross

Tee Cross

Horizontal tees and crosses enable joins to be made in the channel tray system at 90° angles, in the same plane.





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## Product selection - fittings

Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the channel tray system.

For product ordering, specifiers should choose the appropriate component part from the lists shown in the tables below and create a specific part number following the example shown.

Horizontal and vertical bends are available with standard angles of 30°, 45°, 60° and 90°. When a standard angle is not suitable, field fittings or adjustable splice plates can be used. It may be necessary to add supports to the tray at these points (our range of accessories and Superstrut® is shown on pages 10 to 14).

Refer to NEMA VE-2 Installation Guidelines for suggested support locations for fittings.

## Horizontal & vertical bend

Select the preferred component parts and create the specific part number as per the example shown.

**MALT-F-04-S-HB-90-24**

| Material | Type | Tray width | Bottom type | Fitting type | Angle | Nominal radius |
|---|---|---|---|---|---|---|
| MALT \| Aluminium | F \| Fitting | 01 \| 1 1/2" | S \| Solid trough | HB \| Horizontal bend | 30 \| 30° | 12 \| 12" |
| MSPT \| Pre-galvanized steel | | 03 \| 3" | | VI \| Vertical inside bend | 45 \| 45° | 24 \| 24" |
| MSHT \| Hot dip galvanized steel | | 04 \| 4" | | VO \| Vertical outside bend | 60 \| 60° | 0 \| Zero radius** |
| MSST \| Stainless steel 316* | | 06 \| 6" | | | 90 \| 90° | |

* Stainless steel 304 available to special order.
** Contact your local sales office for availability of zero radius fittings.

## Horizontal tee & horizontal cross

Select the preferred component parts and create the specific part number as per the example shown.

**MALT-F-04-S-HT-12**

| Material | Type | Tray width | Bottom type | Fitting type | Nominal radius |
|---|---|---|---|---|---|
| MALT \| Aluminium | F \| Fitting | 01 \| 1 1/2" | S \| Solid trough | HT \| Horizontal tee | 12 \| 12" |
| MSPT \| Pre-galvanized steel | | 03 \| 3" | | HX \| Horizontal cross | 24 \| 24" |
| MSHT \| Hot dip galvanized steel | | 04 \| 4" | | | 0 \| Zero radius** |
| MSST \| Stainless steel 316* | | 06 \| 6" | | | |

* Stainless steel 304 available to special order.
** Contact your local sales office for availability of zero radius fittings.



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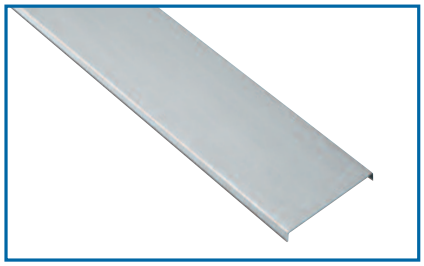
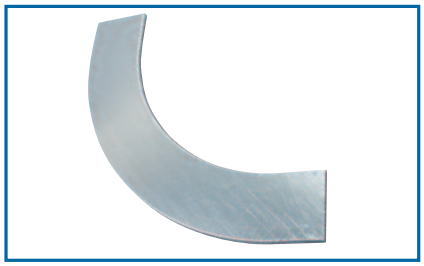
**Tray covers are available for all channel tray widths and material types, in solid style for both straight sections and fittings.**

**Covers provide mechanical protection to cable runs and should be installed where falling objects may damage cables, or where vertical tray run is accessible by pedestrian or vehicular traffic.**



## Solid flanged cover

Solid covers provide maximum mechanical protection for cables which have limited heat build up, and include a 1/2" flange for secure positioning above the channel tray.



## Solid cover for fittings

Covers for fittings (bends, tees and crosses) are available in solid cover type only and include a 1/2" flange for secure positioning above the channel tray.

Note: cover mounting hardware must be ordered separately for all cover types.

## Product selection - covers

Cover part numbers are based on a range of selection criteria, dependent on the type of cover required, and the need to cover straight sections or fittings.

On the following page, the selection criteria for each cover type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown.



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## Cover - straight section

Select the preferred component parts and create the specific part number as per the example shown.

**MSHT-F-04-SFC-144**

| Material | Type | Tray width | Cover type | Length |
|---|---|---|---|---|
| MALT \| Aluminium | F \| Fitting (straight cover) | 01 \| 1 1/2" | SFC \| Solid flanged cover | 72 \| 72" |
| MSPT \| Pre-galvanized steel | | 03 \| 3" | | 144 \| 12 ft |
| MSHT \| Hot dip galvanized steel | | 04 \| 4" | | 3 \| 3 m/ 10 ft |
| MSST \| Stainless steel 316* | | 06 \| 6" | | |

* Stainless steel 304 available to special order.

## Cover - horizontal bend, vertical inside bend & vertical outside bend

Select the preferred component parts and create the specific part number as per the example shown.

**MSPT-F-04-HBC-60-12**

| Material | Type | Tray width | Fitting type | Angle | Nominal radius |
|---|---|---|---|---|---|
| MALT \| Aluminium | F \| Fitting | 01 \| 1 1/2" | HBC \| Horizontal bend | 30 \| 30° | 12 \| 12" |
| MSPT \| Pre-galvanized steel | | 03 \| 3" | VIC \| Vertical inside bend | 45 \| 45° | 24 \| 24" |
| MSHT \| Hot dip galvanized steel | | 04 \| 4" | VOC \| Vertical outside bend | 60 \| 60° | 0 \| Zero radius** |
| MSST \| Stainless steel 316* | | 06 \| 6" | | 90 \| 90° | |

* Stainless steel 304 available to special order.
** Contact your local sales office for availability of zero radius covers for fittings.

## Cover - horizontal tee & cross

Select the preferred component parts and create the specific part number as per the example shown.

**MSPT-F-04-HXC-24**

| Material | Type | Tray width | Fitting type | Nominal radius |
|---|---|---|---|---|
| MALT \| Aluminium | F \| Fitting | 01 \| 1 1/2" | HTC \| Horizontal tee | 12 \| 12" |
| MSPT \| Pre-galvanized steel | | 03 \| 3" | HXC \| Horizontal cross | 24 \| 24" |
| MSHT \| Hot dip galvanized steel | | 04 \| 4" | | 0 \| Zero radius** |
| MSST \| Stainless steel 316* | | 06 \| 6" | | |

* Stainless steel 304 available to special order.
** Contact your local sales office for availability of zero radius covers for fittings.



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## Accessories and supports supplement installation of straight sections, covers and fittings.

Accessories enable clamping of covers, variable mounting, support and suspension of the channel tray system.

Available materials are described in the tables. Unless otherwise stated, 'stainless steel' refers to grade 316.

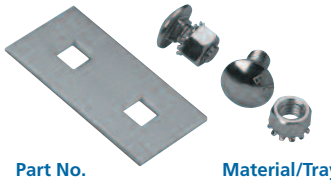
Stainless steel 304 is available to special order - contact your local sales office for details.

## Quantity of standard clamps required to secure tray covers:

| | | |
|---|---|---|
| Straight section | 72" | 4 pieces |
| | 10 or 12 ft | 6 pieces |
| Horizontal and vertical bends | | 4 pieces |
| Tees | | 6 pieces |
| Crosses | | 8 pieces |

Note: when using the heavy duty cover clamp, only half the quantity of pieces are required.

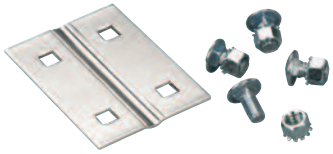
## Standard 1 1/2" splice plate



Connects 1 1/2" straight sections to fittings and other straight sections. Supplied with zinc plated hardware.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CCS | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CCS | Steel (pre-galvanized) | 01 = 1 1/2" |
| WSHT-(*)-CCS | Steel (hot dip galvanized) | |
| WSST-(*)-CCS | Stainless steel | |

## Standard splice plate



Connects 3" to 6" straight sections to fittings and other straight sections. Supplied with zinc plated hardware.

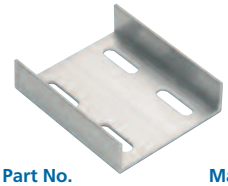
| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CCS | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CCS | Steel (pre-galvanized) | 03 = 3" 04 = 4" |
| WSHT-(*)-CCS | Steel (hot dip galvanized) | 06 = 6" |
| WSST-(*)-CCS | Stainless steel | |

## Expansion splice plate

Allows expansion & contraction of channel tray systems with widths 3" to 6". Supplied with zinc plated hardware.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-ESP | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-ESP | Steel (pre-galvanized) | 03 = 3" 04 = 4" |
| WSHT-(*)-ESP | Steel (hot dip galvanized) | 06 = 6" |
| WSST-(*)-ESP | Stainless steel | |

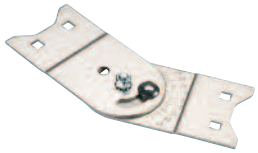
## Wrap around splice plate



Provides all round support for connections between straight sections and fittings/ other straight sections. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-ACS | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-ACS | Steel (pre-galvanized) | 01 = 1 1/2" 03 = 3" |
| WSHT-(*)-ACS | Steel (hot dip galvanized) | 04 = 4" 06 = 6" |
| WSST-(*)-ACS | Stainless steel | |

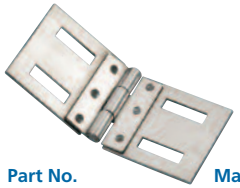
## Horizontal adjustable splice plate



Hinged horizontal plate allows maximum flexibility for changes in direction of the tray system. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CHA | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CHA | Steel (pre-galvanized) | 01 = 1 1/2" 03 = 3" |
| WSHT-(*)-CHA | Steel (hot dip galvanized) | 04 = 4" 06 = 6" |
| WSST-(*)-CHA | Stainless steel | |

## Vertical adjustable splice plate



Hinged vertical plate allows maximum flexibility for changes in elevation of the tray system. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CCV | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CCV | Steel (pre-galvanized) | 01 = 1 1/2" 03 = 3" |
| WSHT-(*)-CCV | Steel (hot dip galvanized) | 04 = 4" 06 = 6" |
| WSST-(*)-CCV | Stainless steel | |



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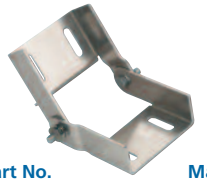
## Wraparound vertical adjustable splice plate



Splice plate with hinges and siderails for maximum flexibility in tray elevation plus additional support to tray sides. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-WAV | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-WAV | Steel (pre-galvanized) | |
| WSHT-(*)-WAV | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-WAV | Stainless steel | 04 = 4" 06 = 6" |

## Standard hold down clamp

For securing the tray system to the support system. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-SHC | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-SHC | Steel (pre-galvanized) | |
| WSHT-(*)-SHC | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-SHC | Stainless steel | 04 = 4" 06 = 6" |

## Channel expansion guide clamp

For securing the tray system to the support system, allowing for expansion. Order hardware separately.

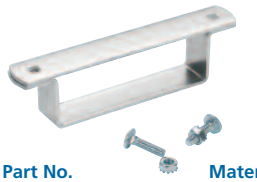
| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CEG | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CEG | Steel (pre-galvanized) | |
| WSHT-(*)-CEG | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-CEG | Stainless steel | 04 = 4" 06 = 6" |

## Combination hold down/cover clamp

For securing a covered tray system to the support system. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CCC | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CCC | Steel (pre-galvanized) | |
| WSHT-(*)-CCC | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-CCC | Stainless steel | 04 = 4" 06 = 6" |

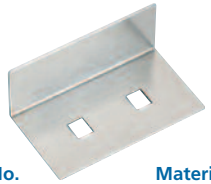
## Heavy duty cover clamp



Wraparound design offers added protection for rugged applications. Hardware included.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-HCC | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-HCC | Steel (pre-galvanized) | |
| WSHT-(*)-HCC | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-HCC | Stainless steel | 04 = 4" 06 = 6" |

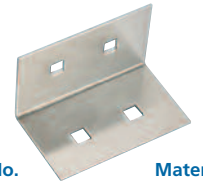
## Closed end plate



Provides closure to any tray end. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CEP | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CEP | Steel (pre-galvanized) | |
| WSHT-(*)-CEP | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-CEP | Stainless steel | 04 = 4" 06 = 6" |

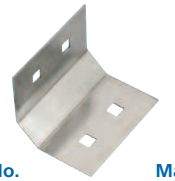
## Channel mounting bracket



For mounting the tray system to a datacentre or distribution box. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CCB | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CCB | Steel (pre-galvanized) | |
| WSHT-(*)-CCB | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-CCB | Stainless steel | 04 = 4" 06 = 6" |

## Channel to cable tray plate



For mounting channel tray to a cable tray system. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CCT | Aluminium | Replace (*) with double digit reference for tray width: |
| WSPT-(*)-CCT | Steel (pre-galvanized) | |
| WSHT-(*)-CCT | Steel (hot dip galvanized) | 01 = 1 1/2" 03 = 3" |
| WSST-(*)-CCT | Stainless steel | 04 = 4" 06 = 6" |



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## Channel to floor base plate

For securing the tray system to the floor/horizontal surfaces. Order hardware separately.

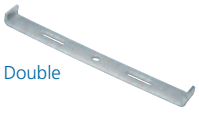
| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-CBP<br>WSPT-(*)-CBP<br>WSHT-(*)-CBP<br>WSST-(*)-CBP | Aluminium<br>Steel (pre-galvanized)<br>Steel (hot dip galvanized)<br>Stainless steel | Replace (*) with double digit reference for tray width:<br>01 = 1 1/2" 03 = 3"<br>04 = 4" 06 = 6" |

## Channel to tray mounting bracket

For mounting channel tray to supports or cable tray systems. Order hardware separately.

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-(*)-TCB<br>WSPT-(*)-TCB<br>WSHT-(*)-TCB<br>WSST-(*)-TCB | Aluminium<br>Steel (pre-galvanized)<br>Steel (hot dip galvanized)<br>Stainless steel | Replace (*) with double digit reference for tray width:<br>01 = 1 1/2" 03 = 3"<br>04 = 4" 06 = 6" |

## Channel hanger

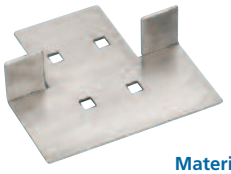




Single or double channel hanger enables suspension of the tray system. Designed for use with 1/2" threaded rod (order rod and hardware separately).

| Part No. | Material/Tray type | Part No. variable (*) |
|---|---|---|
| WALT-F-06-(*)<br>WSPT-F-06-(*)<br>WSHT-06-(*)<br>WSST-06-(*) | Aluminium<br>Steel (pre-galvanized)<br>Steel (hot dip galvanized)<br>Stainless steel | Replace (*) with reference for channel hanger type:<br>CCH = Single channel hanger<br>DCH = Double channel hanger |

## Channel straight reducer plate

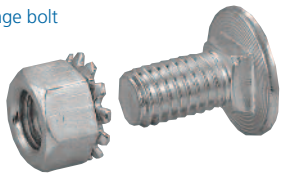


For securing channel tray to trays with reduced width. Order hardware separately.

| Part No. | Material/ Tray type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WALT-(*)-(+)-RSP<br>WSPT-(*)-(+)-RSP<br>WSHT-(*)-(+)-RSP<br>WSST-(*)-(+)-RSP | Aluminium<br>Steel (pre-galv.)<br>Steel (hot dip galv.)<br>Stainless steel | Replace (*) with double digit ref. for tray width 1:<br>03 = 3" 04 = 4"<br>06 = 6" | Replace (+) with double digit ref. for tray width 2:<br>01 = 1 1/2"<br>03 = 3" 04 = 4" |

## Tray hardware

Carriage bolt

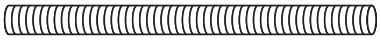


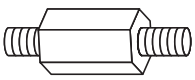
Self-drilling tapping screw

| Part No. | Material | Description |
|---|---|---|
| WSP-1/4-CB | Zinc plated steel | Square shoulder self-positioning 1/4" carriage bolt |
| WSP-3/8-CB | Zinc plated steel | Square shoulder self-positioning 3/8" carriage bolt |
| WSP-1/4-HN | Zinc plated steel | 1/4" Hex. nut |
| WSP-3/8-HN | Zinc plated steel | 3/8" Hex. nut |
| WSS-3/8-CB | Stainless steel (316) | 3/8" Carriage bolt |
| WSS-3/8-HN | Stainless steel (316) | 3/8" Hex. nut |
| WSS-3/8-HWK | Stainless steel (316) | Hardware kit inc. 8 nuts, 8 bolts, 8 lockwashers |
| WSP-10-SCR | Zinc plated steel | Self-drilling tapping screw |

Stainless steel 304 available to special order. Hardware available in metric sizes to special order - contact Thomas & Betts.

## Threaded rod & coupling





| Part No. | Description | Part No. variable (*) |
|---|---|---|
| H104-1/2x3(*) | 1/2" threaded rod (13 threads/inch) with design load of 1130 lbs | Replace (*) with reference for material type:<br>EG = Electro-galvanized<br>HDG = Hot dip galvanized<br>SS4 = Stainless steel 304<br>SS6 = Stainless steel 316 |
| H119-1/2(*) | Coupling for 1/2" threaded rod (length 1 1/4") | |

Standard rod length 3 m. Rod & coupling available in metric sizes to special order - contact Thomas & Betts.



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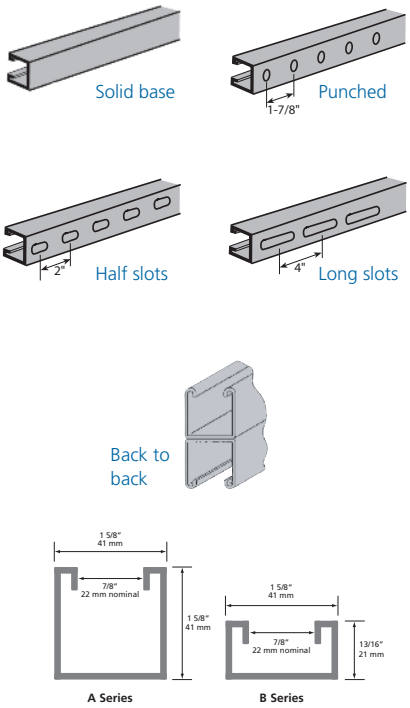
Thomas&Betts

## Superstrut® 2.5 mm (12 Ga.) & 2 mm (14 Ga.) channel - type A and type B

Metal framing channel available in 2.5 mm (12 Gauge) and 2 mm (14 Gauge) thickness. Aluminium, hot dip galvanized or stainless steel channels are recommended to support aluminium, steel or stainless steel channel tray. Offered in lengths of 10 ft, 20 ft, 3 m or 6 m.

| Part No. (12 Ga.) | Part No. (14 Ga.) | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|---|
| A Series channel - 1 5/8" x 1 5/8" / 41 mm x 41 mm | | | | |
| A1200-(*)-(+)M | A1400-(*)-(+)M | Solid base | Replace (*) with ref. for length:<br>**10** = 10 ft<br>**20** = 20 ft<br>**3** = 3 m<br>**6** = 6 m | Replace (+) with ref. for material/finish type:<br>**AL** = Aluminium<br>**HDG** = Hot dip galvanized<br>**PG** = Pre-galvanized<br>**T304** = Stainless steel 304<br>**T316** = Stainless steel 316 |
| A1200-P-(*)-(+)M | A1400-P-(*)-(+)M | Punched | | |
| A1200-HS-(*)-(+)M | A1400-HS-(*)-(+)M | Half slots | | |
| A1200-S-(*)-(+)M | A1400-S-(*)-(+)M | Long slots | | |
| A1202-(*)-(+)M | A1402-(*)-(+)M | Back to back | | |
| B Series channel - 1 5/8" x 13/16" / 41 mm x 21 mm | | | | |
| B1200-(*)-(+)M | B1400-(*)-(+)M | Solid base | Replace (*) with ref. for length:<br>**10** = 10 ft<br>**20** = 20 ft<br>**3** = 3 m<br>**6** = 6 m | Replace (+) with ref. for material/finish type:<br>**AL** = Aluminium<br>**HDG** = Hot dip galvanized<br>**PG** = Pre-galvanized<br>**T304** = Stainless steel 304<br>**T316** = Stainless steel 316 |
| B1200-P-(*)-(+)M | B1400-P-(*)-(+)M | Punched | | |
| B1200-HS-(*)-(+)M | B1400-HS-(*)-(+)M | Half slots | | |
| B1200-S-(*)-(+)M | B1400-S-(*)-(+)M | Long slots | | |
| B1202-(*)-(+)M | B1402-(*)-(+)M | Back to back | | |

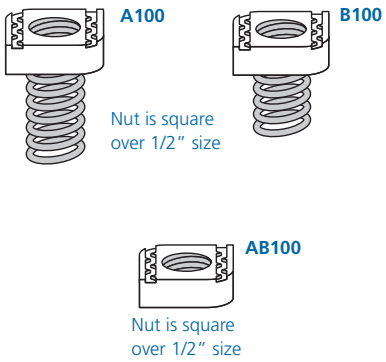



## Channel nuts

Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

A100 is designed for A Series channel, and B100 is for B Series. A100 and B100 available in imperial sizes ranging from 1/4" to 7/8", and metric sizes from M6 to M22. AB100 available in imperial sizes ranging from 1/4" to 3/4", and metric sizes from M6 to M20.

| Part No. | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| A100-(*)-(+) | Spring nut | Replace (*) with reference for thread size:<br>**1/4** = 1/4"/M6 **5/16** = 5/16"/M8<br>**3/8** = 3/8"/M10 **1/2** = 1/2"/M12<br>**5/8** = 5/8"/M16 **3/4** = 3/4"/M20<br>**7/8** = 7/8"/M22 | Replace (+) with ref. for material/finish type:<br>**EG** = Electro-galvanized<br>**HDG** = Hot dip galvanized<br>**SS4** = Stainless steel 304<br>**SS6** = Stainless steel 316 |
| B100-(*)-(+) | Spring nut | | |
| AB100-(*)-(+) | Springless nut | | |

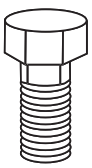



## Hex head cap screw

Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

| Part No. | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| E142-(*)-(+) | Hex head cap screw | Replace (*) with reference for size:<br>**1/4x100** = 1/4" x 1"<br>**1/4x150** = 1/4" x 1 1/2"<br>**3/8x100** = 3/8" x 1"<br>**3/8x150** = 3/8" x 1 1/2"<br>**1/2x100** = 1/2" x 1"<br>**1/2x150** = 1/2" x 1 1/2" | Replace (+) with reference for material/finish type:<br>**EG** = Electro-galvanized<br>**HDG** = Hot dip galvanized<br>**SS4** = Stainless steel 304<br>**SS6** = Stainless steel 316 |

Cap screw available in metric sizes to special order - contact Thomas & Betts.





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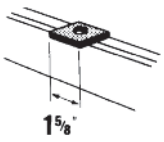
## Superstrut® fittings and brackets

Fittings and brackets are available in four materials. To create specific part numbers, replace the part number variable (*) with the relevant material code shown right:

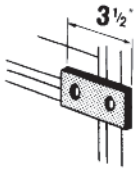
Note: Hot dip galvanized HDG or stainless steel fittings (SS6 or SS4) are recommended to assemble aluminum channel.

| | | |
|---|---|---|
| EG | = | Electro-galvanized |
| HDG | = | Hot dip galvanized |
| SS4 | = | Stainless steel 304 |
| SS6 | = | Stainless steel 316 |

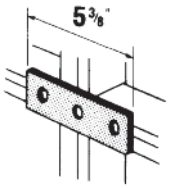
Standard dimensions: **Hole spacing:** 13/16" from end, 1 7/8" centres **Hole size:** 9/16" diameter, fitting width 1 5/8"



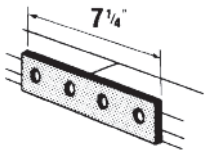

| Part No. | Hole size |
|---|---|
| AB241-1/4(*) | 1/4" |
| AB241-3/8(*) | 3/8" |
| AB241-1/2(*) | 1/2" |
| AB241-3/4(*) | 3/4" |



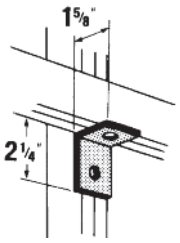

AB206(*)



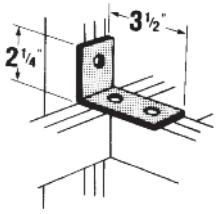

AB207(*)



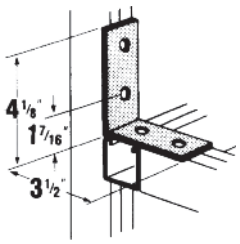

X207(*)



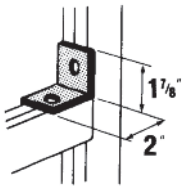

AB201(*)



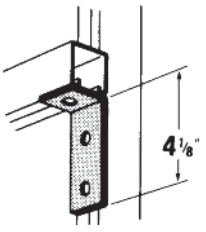

AB204(*)



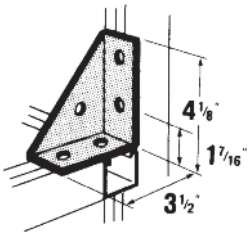

AB205(*)



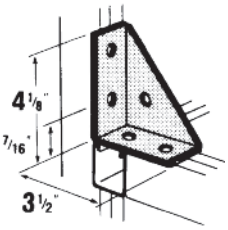

AB202(*)



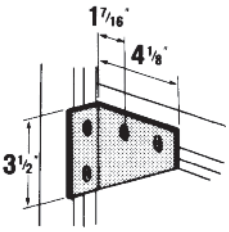

AB203(*)



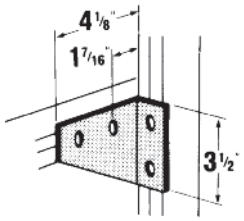

AB213(*)



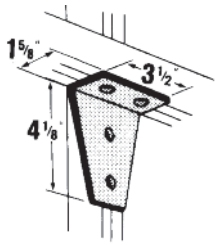

AB214(*)



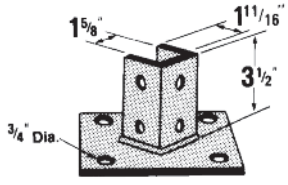

AB254-L(*)



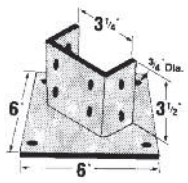

AB254-R(*)



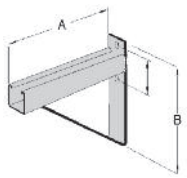

X289(*)



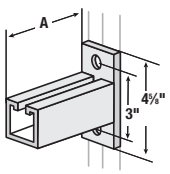

AP232(*)




AP235H(*)

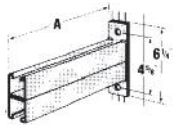



| Part No. | A | B | Load |
|---|---|---|---|
| S249-8(*) | 8 1/2" | 8" | 1500 lb |
| S249-14(*) | 14 1/2" | 9" | 1500 lb |
| S249-20(*) | 20 1/2" | 9" | 1500 lb |
| S249-26(*) | 26 1/2" | 11 1/2" | 1500 lb |
| S249-32(*) | 32 1/2" | 11 1/2" | 1500 lb |
| S249-38(*) | 38 1/2" | 11 1/2" | 1500 lb |




| Part No. | A | Load |
|---|---|---|
| S250-6(*) | 6" | 1500 lb |
| S250-12(*) | 12" | 800 lb |
| S250-18(*) | 18" | 550 lb |
| S250-24(*) | 24" | 400 lb |

Note: may be installed inverted with no change in load ratings. Strut section made from half slot channel.




| Part No. | A | Load |
|---|---|---|
| S251-14(*) | 14 1/2" | 1650 lb |
| S251-20(*) | 20 1/2" | 800 lb |
| S251-26(*) | 26 1/2" | 650 lb |
| S251-32(*) | 32 1/2" | 500 lb |
| S251-38(*) | 38 1/2" | 500 lb |

Superstrut® channel brackets are available in other lengths on request. Contact Thomas & Betts for further information.



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Thomas&Betts

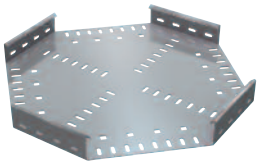
## Cable ladder

T&B cable ladder combines high performance with reduced costs to deliver the ultimate solution for providing support to heavy duty cabling.

Designed to NEMA standards, and highly corrosion resistant, cable ladder is available in steel or aluminium, in a variety of styles and sizes.

Cable ladder is offered with a full suite of fittings and accessories for maximum flexibility on-site.

## Perforated cable tray



Available in aluminium, or steel in a range of finishes, with formats from medium duty to ultra heavy duty, T&B perforated tray is the all-round performer in our portfolio of cable tray solutions.

The perforation pattern includes vertical and square slots for fixing Ty-Rap® cable ties etc, to enable better segregation and easier bundling of cables.

## Large radius cable tray

Custom-built cable support for petrochemical project tanks or towers.

This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Designed to special order to meet specific project needs.

## ExpressTray™ wire frame cable tray

The ExpressTray™ cable management system is a complete solution for managing light power, voice & data cables in commercial and industrial facilities, that delivers simplicity, efficiency, versatility and performance.

Requiring no corner, cross or bend elements, any layout can be achieved simply with a length of tray and a pair of wire cutters.

## Imperial to metric conversion chart

All channel tray measurements in this publication are based on imperial sizes. Please use the following chart for conversions of imperial measurements to metric as required when assessing channel tray projects.

| inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
|---|---|---|---|---|---|---|---|---|---|
| 0.152″ | 3.86 mm | 13/16″ | 20.64 mm | 1 7/8″ | 47.63 mm | 5 3/8″ | 136.53 mm | 18″ | 457.2 mm |
| 0.188″ | 4.78 mm | 7/8″ | 22.23 mm | 2″ | 50.8 mm | 6″ | 152.4 mm | 20 1/2″ | 520.7 mm |
| 1/4″ | 6.35 mm | 1 1/4″ | 31.75 mm | 2.175″ | 55.25 mm | 7 1/4″ | 184.15 mm | 24″ | 609.6 mm |
| 5/16″ | 7.94 mm | 1 3/8″ | 34.93 mm | 2 1/4″ | 57.15 mm | 8″ | 203.8 mm | 26 1/2″ | 673.1 mm |
| 3/8″ | 9.53 mm | 1 7/16″ | 36.51 mm | 3″ | 76.2 mm | 8 1/2″ | 215.9 mm | 32 1/2″ | 825.5 mm |
| 1/2″ | 12.7 mm | 1 1/2″ | 38.1 mm | 3 1/4″ | 82.55 mm | 9″ | 228.6 mm | 38 1/2″ | 977.9 mm |
| 9/16″ | 14.29 mm | 1 5/8″ | 41.28 mm | 3 1/2″ | 88.9 mm | 11 1/2″ | 292.1 mm | | |
| 5/8″ | 15.9 mm | 1 3/4″ | 44.45 mm | 4″ | 101.6 mm | 12″ | 304.8 mm | | |
| 3/4″ | 19.05 mm | 1 11/16″ | 42.86 mm | 4 1/8″ | 104.78 mm | 14 1/2″ | 368.3 mm | | |



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Thomas&Betts

# T&B® Cable Tray


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TB-LDAS-CT-1011


Thomas&Betts

T&B® Cable Tray

# Cable Management Systems

## Cable ladder

Thomas&Betts

# Delivering world class solutions in cable management.

**Thomas & Betts is a global leader in the design, development and supply of cable support and management solutions.**

**From Ty-Rap® cable ties to complete cable tray systems, Thomas & Betts products are renowned for delivering robust, reliable and high performance solutions to the electrical marketplace.**

With a long history of excellence and innovation, Thomas & Betts products offer the complete solution to your electrical needs.

Thomas & Betts is now manufacturing cable tray systems, including cable ladder, perforated tray, channel tray and strut (metal framing), directly from our new production facility at Dammam in Saudi Arabia.

Combining local manufacture and distribution with an extensive product range, this facility ensures we can effectively support customer demand and respond rapidly to project timelines for all types of installation across the Middle East.

So, whether specifying a major new project, or simply refurbishing existing facilities, choose Thomas & Betts cable tray to deliver the most effective, reliable and long lasting support for your cabling needs.

## Thomas & Betts cable ladder is ideal for a wide range of commercial, industrial & public sector projects:

### Commercial
- Offices & retail centres
- Hotels & resorts
- Stadia & concert halls

### Public sector
- Schools & universities
- Hospitals & healthcare
- Government buildings

### Industrial
- Automotive plants
- Food processing
- Pharmaceutical & manufacturing

### Infrastructure
- Airports
- Rail terminals
- Tunnels

### Oil & Gas
- Petrochemical plants
- Oil & Gas refineries
- Offshore platforms

### Utilities
- Power stations
- Water treatment facilities

# Thomas & Betts cable ladder offers significant advantages over conduit pipe and other wiring systems.

Cable ladder is a more reliable, less expensive solution for supporting cable, which is easier to maintain, proves more adaptable to changing needs, and is more suitable for harsh and corrosive environments.

In specifying T&B cable ladder, you will be choosing a highly versatile solution which delivers quality and performance over the long term.

## Extensive product range

Thomas & Betts cable ladder is available in aluminium or steel with a range of finishes.

Straight sections can be ordered in a variety of lengths and bottom styles, and are accompanied by an extensive selection of fittings, covers and accessories to ensure all installation needs are covered.

## Enhanced safety

Cable ladder proves much safer than conduit installation, with lower risk of exposure to live, energised parts.

In a cable ladder system, cables can be pulled from near one termination enclosure to the next before being connected, rather than being pulled through the conduit after the cable is terminated.

## Increased adaptability

More than ever, businesses must have flexibility - to expand facilities quickly, to introduce new processes or product lines as demand dictates.

A major advantage of cable ladder is its adaptability to meet new needs and technology.

System modification, redesign or expansion is a simple task because cables can enter or exit the ladder at any point. There is no need to replace the entire system, ensuring minimal disruption to site activity.

## Reduced costs

The adaptability, reliability and ease of maintenance of T&B cable ladder result in many types of cost saving, including:

- Lower installation, engineering and maintenance costs
- Lower need to reconfigure the system as needs change
- Reduced downtime for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

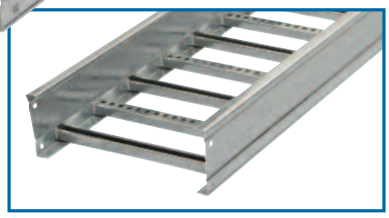
## Low maintenance

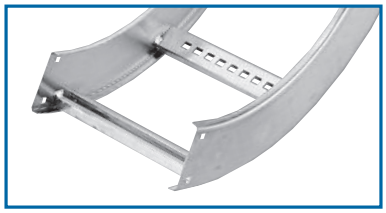
Cable ladder wiring systems have a lower maintenance demand than conduit systems.

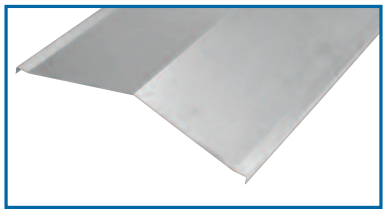
When maintenance is necessary, it proves easier, less labour intensive, and requires less time to complete.

## First class support

Thomas & Betts combines global market leadership with local product & technical support, either through our network of distributors, or via our T&B sales office in Dubai and our production facility at Dammam.







## Contents





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**Thomas & Betts cable ladder is available in four material types and three bottom types, for maximum versatility.**

## Material types

- Aluminium
- Steel (pre-galvanized, hot dip galvanized & stainless steel)

## Bottom types

- Ladder
- Ventilated
- Solid trough

## **Aluminium** (to 6063 T6)

Aluminium 6063 T6 alloy for lightweight construction, excellent corrosion resistance, and high strength-to-weight ratio. Aluminium cable ladder offers simple installation and low maintenance.

## **Pre-galvanized steel** (to BS EN 10142 & BS EN 10143)

Steel is ideal as a high strength, low cost material for cable ladder.

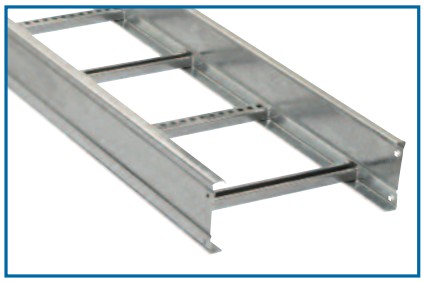
Pre-galvanized steel ladder is produced by passing low-carbon steel through molten zinc before fabrication, and is generally recommended for indoor commercial applications rather than outdoor or industrial environments.

## **Hot dip galvanized steel** (to BS EN ISO 1461)

Hot dip galvanized steel ladder is produced by immersing fabricated ladder in molten zinc, creating a much thicker coating than pre-galvanized. This process is recommended for most outdoor and harsh industrial applications.

## **Stainless steel** (to AISI Type 316 or 304)

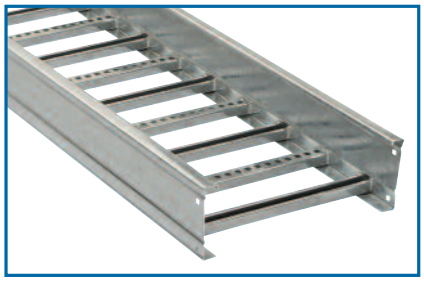
Stainless steel offers high strength and high resistance to chemicals, even at high ambient temperatures. T&B stainless steel cable ladder is roll-formed from AISI Type 316 stainless steel as standard, with Type 304 stainless steel available to special order.



## Ladder

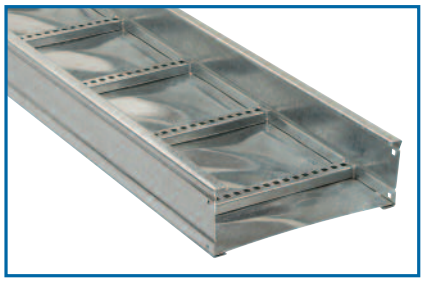
Longitudinal rungs are welded to extruded siderails for maximum structural strength. Rungs are extra wide for maximum cable bearing, and have continuous open slot for strut pipe clamps and barrier strip adjustability.

Every second rung is reversed for easy top or bottom mounting of cable ties and clamps, with exclusive Ty-Rap® slots on 1" centres. This ensures cables can be secured without kinks and keeps cables uniform.



## Ventilated

Comprising longitudinal rails and a bottom with openings sufficient for the passage of air. Rungs are extra wide for maximum cable bearing, and have continuous open slot for strut pipe clamps and barrier strip adjustability. Every second rung is reversed for easy top or bottom mounting of cable ties and clamps, with exclusive Ty-Rap® slots on 1" centres. This ensures cables can be secured without kinks and keeps cables uniform.



## Solid trough

A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal siderails.

Rungs are not alternated (up/down), however have perforations and, where necessary, Ty-Raps® can be inserted diagonally between rung and bottom sheet for cable fastening. This design offers added cable protection.



Note: cable ladder edges and welds are rounded and smoothed during manufacture to prevent cable damage. Care should be taken when handling cable ladder and protective gloves should be worn to avoid risk of injury.

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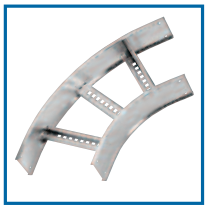
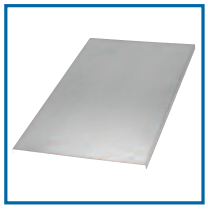
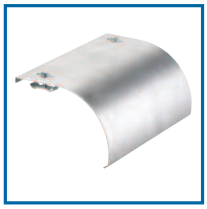
**Thomas & Betts cable ladder delivers the complete, versatile solution for cable management, with straight sections, fittings, and covers etc., developed to overcome the design constraints found in all kinds of buildings and locations.**







## Straight section

Pre-fabricated steel or aluminium sections with siderails connected by transverse rungs.

Available in a range of materials, lengths and bottom types to cover all installation options.

Supplied complete with 7" splice plates for connection to fittings, other sections etc. (aluminium splice plates 'snap-in' for easy installation).

## Fittings

Including bends, reducers, wyes, tees and crosses, fittings enable a cable ladder system to change direction, elevation or size to meet building design/cable run constraints.

T&B aluminum cable ladder is composed of two distinct systems - H-style & U-style.

These systems are interchangeable.

## Covers

Available for all cable ladder widths and material types, covers provide mechanical protection and should be installed where falling objects may damage cables or where vertical cable ladder runs are accessible by pedestrian or vehicular traffic.

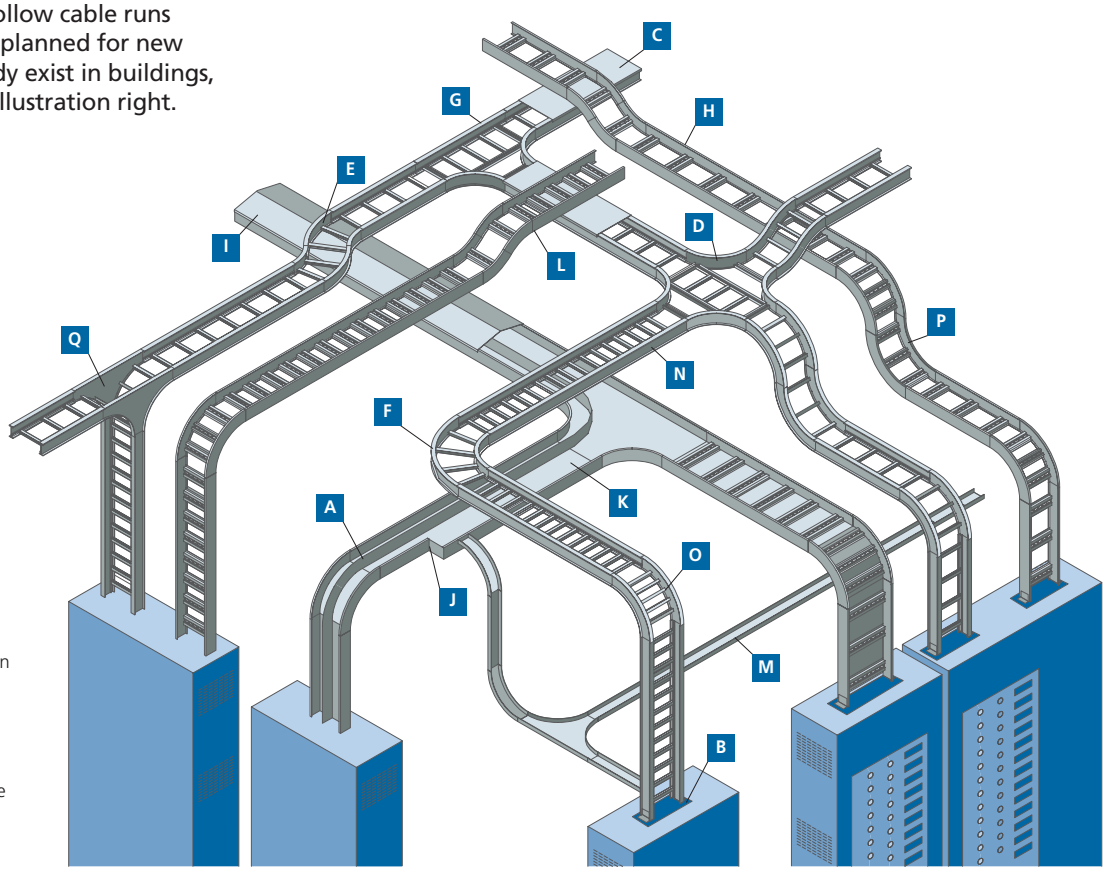
Styled as solid, ventilated or peaked, for varying installation needs.

## Accessories

A complete line of accessories and supports to supplement the function of straight sections and fittings, including drop-outs, hold down clamps, splice plates, barrier strips, and Superstrut® support solutions.

Barrier strips are fully adjustable (side to side) for use in straight sections and fittings.

Straight sections and fittings provide the flexibility to allow cable ladder installations to follow cable runs which are either planned for new projects or already exist in buildings, as shown in the illustration right.




- A Barrier strip
- B Box connector
- C Flat cover
- D Horizontal cross
- E Horizontal 45°
- F Horizontal 90°
- G Horizontal tee
- H Ladder section
- I Peaked cover
- J Right reducer
- K Solid trough section
- L Splice plate
- M Solid channel tray
- N Ventilated section
- O Vertical 90° outside
- P Vertical 90° inside
- Q Vertical tee



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## Straight section

Straight sections are available in aluminium, or steel in a range of finishes.

Straight sections utilize a 7" splice plate and the fittings have tangents at the extremities. This style offers enhanced aesthetics and rigidity to the end-user.

### Aluminium

**Pre-fabricated aluminium section with siderails connected by rungs.**

**Features**

- 6063 T6 Aluminium alloy construction
- H-beam siderail design with nominal height 4" to 7"
- Loading height 3" to 6"
- Extra wide rung design with continuous open slot, reverse position every second rung and Ty-Rap® cable tie slots (5/8" x 5/8") on 1" centres
- Snap-in splice plates included with straight section
- Choice of two styles of fitting siderail (U-style & H-style)

### Steel

**Pre-fabricated steel section with siderails connected by rungs.**

**Features**

- Choice of pre-galvanized, hot dip galvanized or type 316 stainless steel (type 304 stainless steel to special order)
- Nominal siderail height 3 5/8" to 7"
- Loading height 2 5/8" to 6"
- Extra wide rung design with continuous open slot, reverse position every second rung and Ty-Rap® cable tie slots (5/8" x 5/8") on 1" centres
- Splice plates included with straight section

## Product selection - straight section

Straight section part numbers are created using a range of selection criteria.

Determine the most suitable cable ladder type based on the parameters 1 - 5 shown right, then use the tables on the following page to create the exact part number for your needs.

1. Select the material best suited to the installation environment
2. Define the ladder series to NEMA class/loadings (see tables below for aluminium/steel loadings)
3. Select the nominal siderail height (depth) and width of ladder
4. Specify the bottom type based on the cables/spacing required
5. Establish the length of cable ladder in metres or inches

Note: All straight section types are suitable for use with both U-style and H-style fitting systems.

### Load rating/NEMA Class - aluminium

| Siderail height | Series | Load depth (nominal) | NEMA Class | Load lb/ft | Load kg/m | Span ft | Span m |
|---|---|---|---|---|---|---|---|
| 4" | MAH-0-4 | 3" | 8B | 75 | 112 | 8 | 2.4 |
| | MAH-1-4 | | 12A | 50 | 74 | 12 | 3.7 |
| | MAH-2-4 | | 12B | 75 | 112 | 12 | 3.7 |
| | MAH-3-4 | | 12C | 100 | 149 | 12 | 3.7 |
| | MAH-4-4 | | 20A | 50 | 74 | 20 | 6.0 |
| | MAH-5-4 | | 20B | 75 | 112 | 20 | 6.0 |
| 5" | MAH-2-5 | 4" | 12C | 100 | 149 | 12 | 3.7 |
| | MAH-3-5 | | 20A | 50 | 74 | 20 | 6.0 |
| | MAH-4-5 | | 20B | 75 | 112 | 20 | 6.0 |
| 6" | MAH-0-6 | 5" | 12B | 75 | 112 | 12 | 3.7 |
| | MAH-1-6 | | 12C | 100 | 149 | 12 | 3.7 |
| | MAH-2-6 | | 20A | 50 | 74 | 20 | 6.0 |
| | MAH-3-6 | | 20B | 75 | 112 | 20 | 6.0 |
| | MAH-4-6 | | 20C | 100 | 149 | 20 | 6.0 |
| | MAH-5-6 | | 20C | 100 | 149 | 20 | 6.0 |
| | MAH-6-6 | | 20C | 100 | 149 | 20 | 6.0 |
| 7" | MAH-2-7 | 6" | 20B | 75 | 112 | 20 | 6.0 |
| | MAH-2C-7 | | 20C | 100 | 149 | 20 | 6.0 |
| | MAH-3-7 | | 20C | 100 | 149 | 20 | 6.0 |

### Load rating/NEMA Class - steel

| Siderail height | Series | Load depth (nominal) | NEMA Class | Load lb/ft | Load kg/m | Span ft | Span m |
|---|---|---|---|---|---|---|---|
| 3 5/8" | MS*-1-3 | 2 5/8" | 12A | 50 | 74 | 12 | 3.7 |
| 4" | MS*-1-4 | 3" | 12C | 100 | 149 | 12 | 3.7 |
| | MS*-3-4 | | 20A | 50 | 74 | 20 | 6.0 |
| 5" | MS*-2-5 | 4" | 20A | 50 | 74 | 20 | 6.0 |
| | MS*-4-5 | | 20B | 75 | 112 | 20 | 6.0 |
| | MS*-5-5 | | 20C | 100 | 149 | 20 | 6.0 |
| 6" | MS*-0-6 | 5" | 12C | 100 | 149 | 12 | 3.7 |
| | MS*-1-6 | | 20A | 50 | 74 | 20 | 6.0 |
| | MS*-3-6 | | 20B | 75 | 112 | 20 | 6.0 |
| | MS*-4-6 | | 20C | 100 | 149 | 20 | 6.0 |
| 7" | MS*-3-7 | 6" | 20C | 100 | 149 | 20 | 6.0 |

Replace * with letter reference for material type:

**P** = Pre-galvanized **H** = Hot dip galvanized **S** = Stainless steel 316



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## Straight section - aluminium

Select the preferred component parts and create the specific part number as per the example shown.

**MAH-1-6-24-L09-144**

| Material | Series | Siderail height | Ladder width | Bottom type | Length |
|---|---|---|---|---|---|
| MAH \| Aluminium | 0 \| Series 0*<br>1 \| Series 1**<br>2 \| Series 2<br>3 \| Series 3<br>4 \| Series 4<br>5 \| Series 5 | 4 \| 4” | 06 \| 6”<br>09 \| 9”<br>12 \| 12”<br>18 \| 18”<br>24 \| 24”<br>30 \| 30”<br>36 \| 36” | L06 \| 6” rung spacing<br>L09 \| 9” rung spacing<br>L12 \| 12” rung spacing<br>V \| Ventilated<br>S \| Solid trough | 144 \| 12 ft<br>288 \| 24 ft<br>3 \| 3 m<br>6 \| 6 m |
| | 2 \| Series 2<br>3 \| Series 3<br>4 \| Series 4 | 5 \| 5” | | | |
| | 0 \| Series 0*<br>1 \| Series 1<br>2 \| Series 2<br>3 \| Series 3<br>4 \| Series 4<br>5 \| Series 5<br>6 \| Series 6 | 6 \| 6” | | | |
| | 2 \| Series 2<br>2C \| Series 2C<br>3 \| Series 3 | 7 \| 7” | | | |

* Series 0 is not available in 24 ft or 6 m lengths.

** Series MAH-1-4 is not available in 24 ft or 6 m lengths.

## Straight section - steel

Select the preferred component parts and create the specific part number as per the example shown.

**MSP-1-6-24-L09-144**

| Material | Series | Siderail height | Ladder width | Bottom type | Length |
|---|---|---|---|---|---|
| MSP \| Pre-galvanized steel<br>MSH \| Hot dip galvanized steel<br>MSS \| Stainless steel 316* | 1 \| Series 1** | 3 \| 3 5/8” | 06 \| 6”<br>09 \| 9”<br>12 \| 12”<br>18 \| 18”<br>24 \| 24”<br>30 \| 30”<br>36 \| 36” | L06 \| 6” rung spacing<br>L09 \| 9” rung spacing<br>L12 \| 12” rung spacing<br>V \| Ventilated<br>S \| Solid trough | 144 \| 12 ft<br>288 \| 24 ft<br>3 \| 3 m<br>6 \| 6 m |
| | 1 \| Series 1**<br>3 \| Series 3 | 4 \| 4” | | | |
| | 2 \| Series 2<br>4 \| Series 4<br>5 \| Series 5 | 5 \| 5” | | | |
| | 0 \| Series 0**<br>1 \| Series 1<br>3 \| Series 3<br>4 \| Series 4 | 6 \| 6” | | | |
| | 3 \| Series 3 | 7 \| 7” | | | |

* Stainless steel 304 is available to special order.

** Series 1-3, 1-4 and 0-6 is not available in 24 ft or 6 m lengths.



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## Fittings

Fittings enable a cable ladder system to change direction, elevation or size in order to meet building design and cable run constraints.

The range includes:

- Horizontal bends
- Vertical bends
- Tees and crosses
- Reducers
- Reducing tees and crosses
- Expanding tees
- Horizontal wyes
- Cable support

For aluminium cable ladder, two styles of fitting are available - H-style and U-style.

Select the fitting style that is preferred or best meets the project criteria and budget.

Note: H-style and U-style aluminium fittings are interchangeable.

### U-Style fitting (Aluminium/steel)

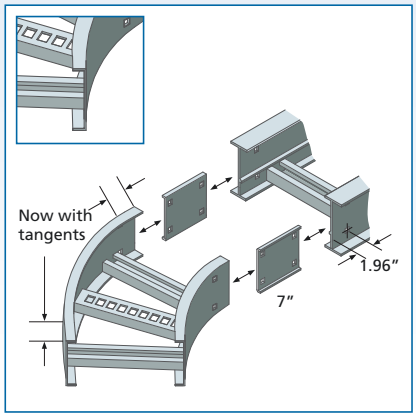
**Fittings constructed with the siderail flanges on the inside only, creating a U-shaped fitting style.**

**Features:**

- Simple, functional design
- Tangents on fittings
- 7" splice plate (aluminium splice plates 'snap-in' for added convenience)

**Benefits:**

- Offers maximum quality versus cost ratios of the installation
- Easy to install
- Occupies less space in areas where space is restricted
- Easy alignment between straight sections and fittings
- Splice plate holds components while hardware is inserted
- Lighter fittings are easy to handle




### H-Style fitting (Aluminium only)

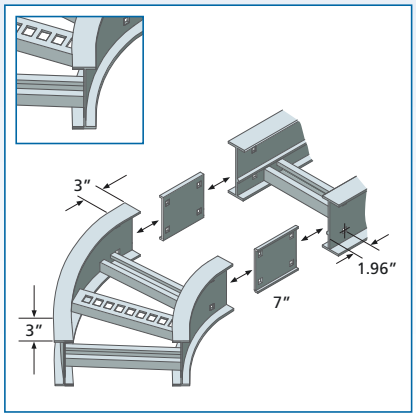
**Fittings constructed with the siderail having inner and outer flanges, creating a H-shaped fitting style.**

**Features:**

- Premium yet simple design
- 3" tangents on fittings
- 7" splice plate (aluminium splice plates 'snap-in' for added convenience)

**Benefits:**

- Enhanced aesthetics and customer appeal
- Easy to install
- Improved system rigidity
- Easy alignment between straight sections and fittings
- Splice plate holds components while hardware is inserted




## Product selection - fittings

Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable ladder system.

Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown.

Images of fittings are provided to assist with selection.

The variables for selection include:

- Material type
- Siderail height & ladder width(s)
- Bottom type and fitting type
- Angle
- Nominal radius



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## Horizontal bends enable the cable ladder system to change direction in the same plane.

Horizontal bends are available in all material types, siderail heights, ladder widths and bottom types to match straight sections, and have a nominal radius of either 12”, 24”, 36” or 48”.

- Available with angles of 30°, 45°, 60° or 90°

## Horizontal bend

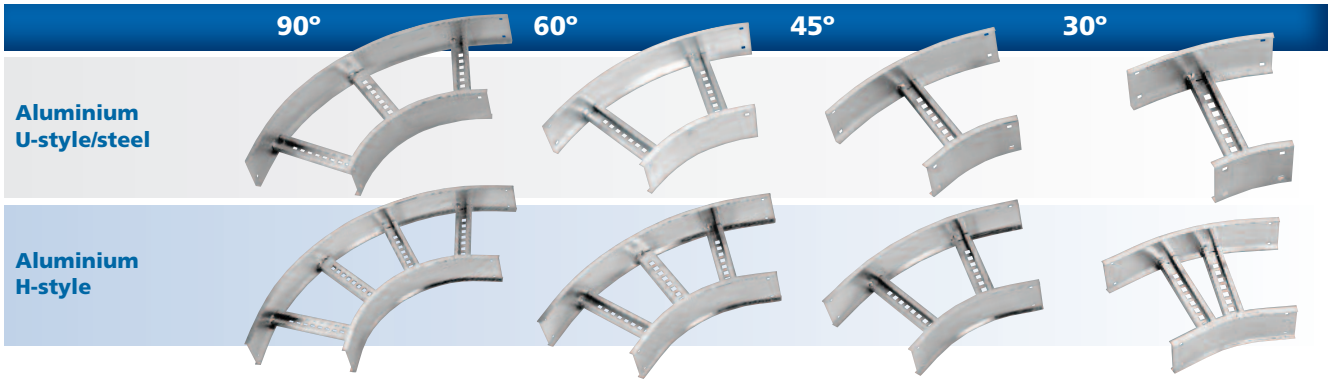
Select the preferred component parts and create the specific part number as per the example shown.

**MAUF-4-24-L-HB-45-12**

| Fitting material & siderail style | Siderail height | Ladder width | Bottom type | Fitting type | Angle | Nominal radius |
|---|---|---|---|---|---|---|
| MAUF \| Aluminium U-style | 4 \| 4” | 06 \| 6” | L \| Ladder | HB \| Horizontal bend | 30 \| 30° | 12 \| 12” |
| MAHF \| Aluminium H-style | 5 \| 5” | 09 \| 9” | V \| Ventilated | | 45 \| 45° | 24 \| 24” |
| | 6 \| 6” | 12 \| 12” | S \| Solid trough | | 60 \| 60° | 36 \| 36” |
| | 7 \| 7” | 18 \| 18” | | | 90 \| 90° | 48 \| 48” |
| | | 24 \| 24” | | | | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8” | 30 \| 30” | | | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4” | 36 \| 36” | | | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5” | | | | | |
| | 6 \| 6” | | | | | |
| | 7 \| 7” | | | | | |

* Stainless steel 304 is available to special order.

Note: Aluminium U-style and H-style fittings are interchangeable.



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## Vertical bends enable the cable ladder system to change direction to a different plane.

An inside vertical bend changes direction upward from the horizontal plane. An outside vertical bend changes direction downward from the horizontal plane.

Vertical bends are available in all material types, siderail heights, ladder widths and bottom types to match straight sections, and have a nominal radius of either 12”, 24”, 36” or 48”.

- Available with angles of 30°, 45°, 60° or 90°

## Vertical bend

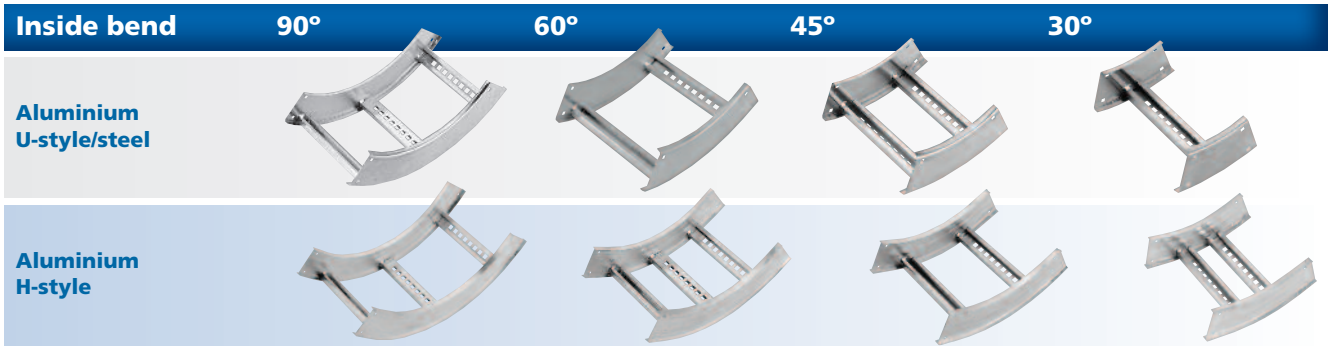
Select the preferred component parts and create the specific part number as per the example shown.

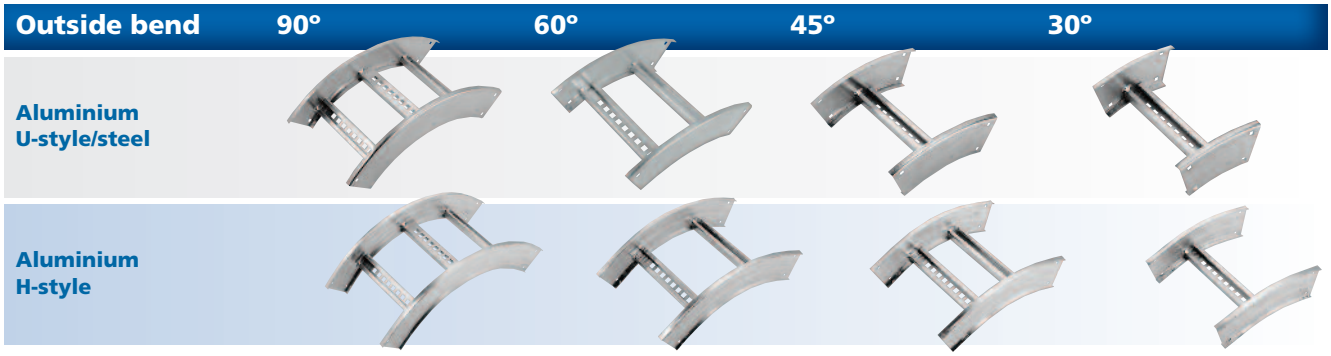
**MAUF-4-24-L-VO-45-12**

| Fitting material & siderail style | Siderail height | Ladder width | Bottom type | Fitting type | Angle | Nominal radius |
|---|---|---|---|---|---|---|
| MAUF \| Aluminium U-style | 4 \| 4” | 06 \| 6” | L \| Ladder | VI \| Vertical inside bend | 30 \| 30° | 12 \| 12” |
| MAHF \| Aluminium H-style | 5 \| 5” | 09 \| 9” | V \| Ventilated | VO \| Vertical outside bend | 45 \| 45° | 24 \| 24” |
| | 6 \| 6” | 12 \| 12” | S \| Solid trough | | 60 \| 60° | 36 \| 36” |
| | 7 \| 7” | 18 \| 18” | | | 90 \| 90° | 48 \| 48” |
| | | 24 \| 24” | | | | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8” | 30 \| 30” | | | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4” | 36 \| 36” | | | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5” | | | | | |
| | 6 \| 6” | | | | | |
| | 7 \| 7” | | | | | |

* Stainless steel 304 is available to special order.

Note: Aluminium U-style and H-style fittings are interchangeable.



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**Horizontal tees and crosses enable joins to be made in the cable ladder system at 90° angles, in the same plane.**

**Vertical tees enable joins to be made in the cable ladder system at 90° angles, between horizontal and vertical planes.**

**Cable support provides a corner support which changes direction of the cable run downwards by 90° to a different plane.**

Available in all material types, siderail heights, ladder widths and bottom types to match straight sections, with a nominal radius of either 12", 24", 36" or 48".

## Horizontal tee, horizontal cross & cable support

Select the preferred component parts and create the specific part number as per the example shown.

**MAUF-4-24-L-VTD-12**

| Fitting material & siderail style | Siderail height | Ladder width | Bottom type | Fitting type | Nominal radius |
|---|---|---|---|---|---|
| MAUF \| Aluminium U-style | 4 \| 4" | 06 \| 6" | L \| Ladder | HT \| Horizontal tee | 12 \| 12" |
| MAHF \| Aluminium H-style | 5 \| 5" | 09 \| 9" | V \| Ventilated | HX \| Horizontal cross | 24 \| 24" |
| | 6 \| 6" | 12 \| 12" | S \| Solid trough | VTU \| Vertical tee up | 36 \| 36" |
| | 7 \| 7" | 18 \| 18" | | VTD \| Vertical tee down | 48 \| 48" |
| | | 24 \| 24" | | CS \| Cable support | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8" | 30 \| 30" | | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4" | 36 \| 36" | | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5" | | | | |
| | 6 \| 6" | | | | |
| | 7 \| 7" | | | | |

* Stainless steel 304 is available to special order.

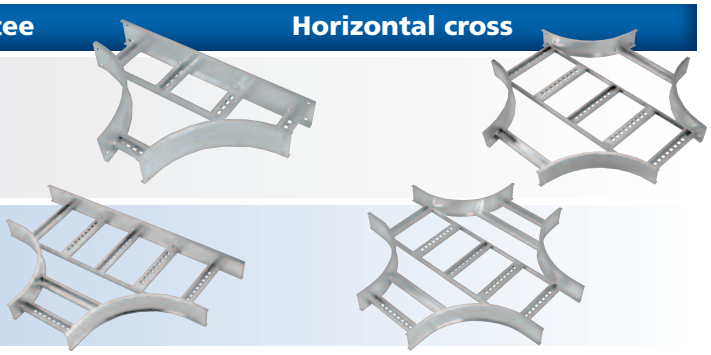
Note: Aluminum U-style and H-style fittings are interchangeable.

### Horizontal tee

### Horizontal cross

**Aluminium U-style/steel**

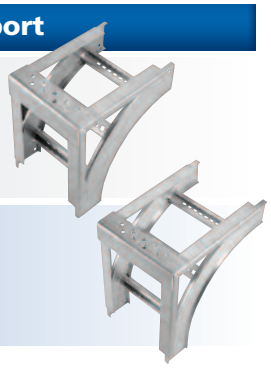
**Aluminium H-style**



### Cable support

**Aluminium U-style/steel**

**Aluminium H-style**

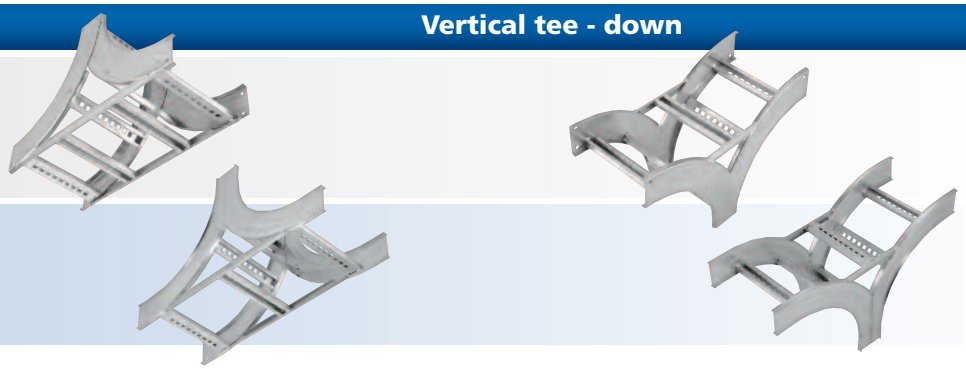


### Vertical tee - up

### Vertical tee - down

**Aluminium U-style/steel**

**Aluminium H-style**





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**Horizontal expanding tees and crosses enable joins to be made in the cable ladder system to wider ladder widths, at 90° angles in the same plane.**

Available in all material types, siderail heights, ladder widths and bottom types to match straight sections, with a nominal radius of either 12", 24", 36" or 48".

- For expansion, ladder width 2 should be greater than ladder width 1

## Horizontal expanding tee & cross

Select the preferred component parts and create the specific part number as per the example shown.

**MAUF-4-24-36-L-EX-12**

| Fitting material & siderail style | Siderail height | Ladder width 1 | Ladder width 2 | Bottom type | Fitting type | Nominal radius |
|---|---|---|---|---|---|---|
| MAUF \| Aluminium U-style | 4 \| 4" | 06 \| 6" | 09 \| 9" | L \| Ladder | ET \| Horizontal expanding tee | 12 \| 12" |
| MAHF \| Aluminium H-style | 5 \| 5" | 09 \| 9" | 12 \| 12" | V \| Ventilated | EX \| Horizontal expanding cross | 24 \| 24" |
| | 6 \| 6" | 12 \| 12" | 18 \| 18" | S \| Solid trough | | 36 \| 36" |
| | 7 \| 7" | 18 \| 18" | 24 \| 24" | | | 48 \| 48" |
| | | 24 \| 24" | 30 \| 30" | | | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8" | 30 \| 30" | 36 \| 36" | | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4" | | | | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5" | | | | | |
| | 6 \| 6" | | | | | |
| | 7 \| 7" | | | | | |

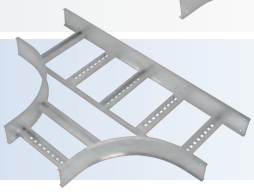
* Stainless steel 304 is available to special order.

Note: Aluminium U-style and H-style fittings are interchangeable.

## Expanding tee

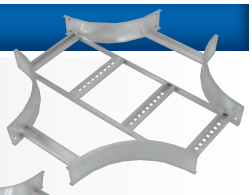
**Aluminium U-style/steel**

**Aluminium H-style**

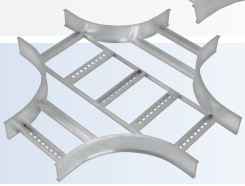


## Expanding cross

**Aluminium U-style/steel**



**Aluminium H-style**





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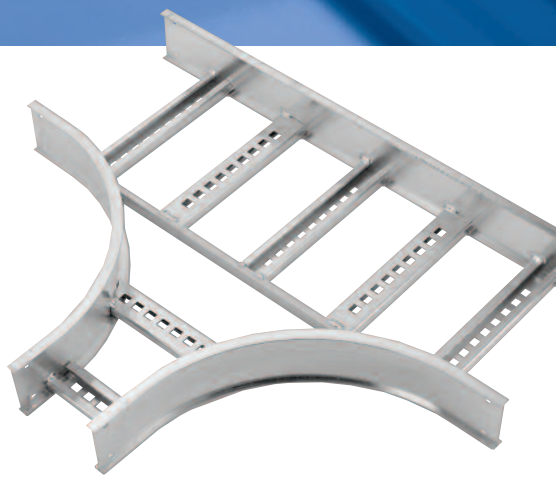


**Horizontal reducing tees enable joins to be made in the cable ladder system to more narrow ladder widths, at 90° angles in the same plane.**

Available in all material types, siderail heights, ladder widths and bottom types to match straight sections, with a nominal radius of either 12", 24", 36" or 48".

- For reduction, ladder width 2 should be less than ladder width 1

## Horizontal reducing tee

Select the preferred component parts and create the specific part number as per the example shown.

**MAUF-4-36-24-L-RT-12**

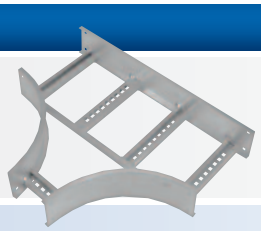
| Fitting material & siderail style | Siderail height | Ladder width 1 | Ladder width 2 | Bottom type | Fitting type | Nominal radius |
|---|---|---|---|---|---|---|
| MAUF \| Aluminium U-style | 4 \| 4" | 09 \| 9" | 06 \| 6" | L \| Ladder | RT \| Horizontal reducing tee | 12 \| 12" |
| MAHF \| Aluminium H-style | 5 \| 5" | 12 \| 12" | 09 \| 9" | V \| Ventilated | | 24 \| 24" |
| | 6 \| 6" | 18 \| 18" | 12 \| 12" | S \| Solid trough | | 36 \| 36" |
| | 7 \| 7" | 24 \| 24" | 18 \| 18" | | | 48 \| 48" |
| | | 30 \| 30" | 24 \| 24" | | | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8" | 36 \| 36" | 30 \| 30" | | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4" | | | | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5" | | | | | |
| | 6 \| 6" | | | | | |
| | 7 \| 7" | | | | | |

* Stainless steel 304 is available to special order.

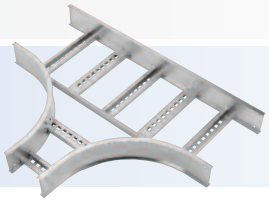
Note: Aluminum U-style and H-style fittings are interchangeable.

## Horizontal reducing tee

**Aluminium U-style/steel**



**Aluminium H-style**





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**Reducers enable joins to be made in the cable ladder system to fittings or straight sections of different widths, in the same plane.**

An offset reducer has the reduction set to a single side (right or left). A straight reducer has two symmetrical offset sides.

Available in all material types, siderail heights, ladder widths and bottom types to match straight sections.

- For reduction, ladder width 2 should be less than ladder width 1

## Offset & straight reducer

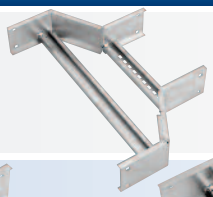
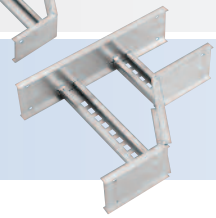
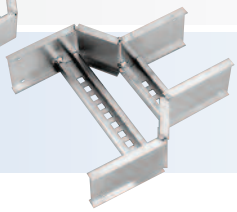
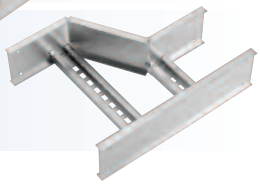
Select the preferred component parts and create the specific part number as per the example shown.

**MAUF-4-36-24-L-HLR**

| Fitting material & siderail style | Siderail height | Ladder width 1 | Ladder width 2 | Bottom type | Fitting type |
|---|---|---|---|---|---|
| MAUF \| Aluminium U-style | 4 \| 4” | 09 \| 9” | 06 \| 6” | L \| Ladder | HLR \| Offset reducer - left |
| MAHF \| Aluminium H-style | 5 \| 5” | 12 \| 12” | 09 \| 9” | V \| Ventilated | HSR \| Straight reducer |
| | 6 \| 6” | 18 \| 18” | 12 \| 12” | S \| Solid trough | HRR \| Offset reducer - right |
| | 7 \| 7” | 24 \| 24” | 18 \| 18” | | |
| | | 30 \| 30” | 24 \| 24” | | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8” | 36 \| 36” | 30 \| 30” | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4” | | | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5” | | | | |
| | 6 \| 6” | | | | |
| | 7 \| 7” | | | | |

* Stainless steel 304 is available to special order.

Note: Aluminium U-style and H-style fittings are interchangeable.

| Reducer | Left | Straight | Right |
|---|---|---|---|
| Aluminium U-style/steel |  |  |  |
| Aluminium H-style |  |  |  |



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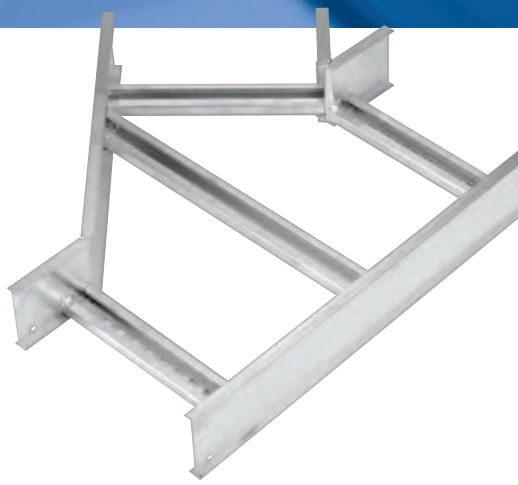


**Horizontal wyes enable joins to be made in the cable ladder system in three directions, at a 45° interval in the same plane.**

Available in all material types, siderail heights, ladder widths and bottom types to match straight sections.

## Horizontal wye

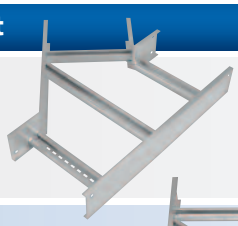
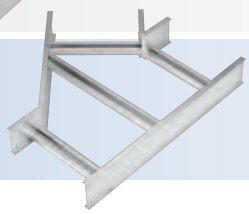
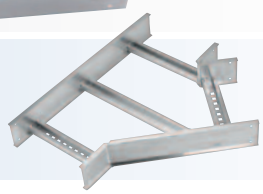
Select the preferred component parts and create the specific part number as per the example shown.

**MAUF-4-36-L-HYL**

| Fitting material & siderail style | Siderail height | Ladder width | Bottom type | Fitting type |
|---|---|---|---|---|
| MAUF \| Aluminum U-style | 4 \| 4" | 06 \| 6" | L \| Ladder | HYL \| Horizontal wye - left |
| MAHF \| Aluminum H-style | 5 \| 5" | 09 \| 9" | V \| Ventilated | HYR \| Horizontal wye - right |
| | 6 \| 6" | 12 \| 12" | S \| Solid trough | |
| | 7 \| 7" | 18 \| 18" | | |
| | | 24 \| 24" | | |
| MSPF \| Pre-galvanized steel U-style | 3 \| 3 5/8" | 30 \| 30" | | |
| MSHF \| Hot dip galvanized steel U-style | 4 \| 4" | 36 \| 36" | | |
| MSSF \| Stainless steel 316* U-style | 5 \| 5" | | | |
| | 6 \| 6" | | | |
| | 7 \| 7" | | | |

* Stainless steel 304 is available to special order.

Note: Aluminum U-style and H-style fittings are interchangeable.

| Horizontal wye | Left | Right |
|---|---|---|
| Aluminium U-style/steel |  |  |
| Aluminium H-style |  |  |



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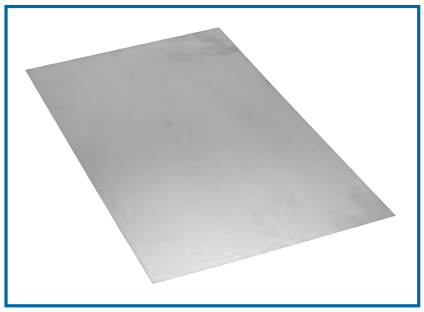
**Covers are available for all cable ladder widths and material types, in a range of styles - solid, ventilated or peaked - for varying installation needs.**

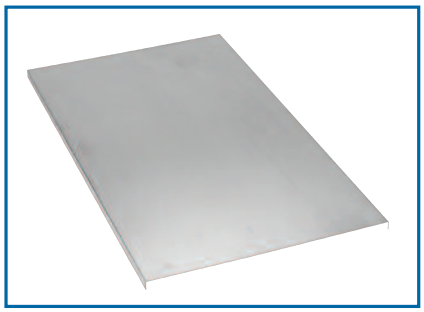
**Covers provide mechanical protection to cable runs and should be installed where falling objects may damage cables or where vertical cable ladder run is accessible by pedestrian or vehicular traffic.**

Outside cable ladder runs should be covered with a peaked flanged cover to protect cable from adverse weather conditions.



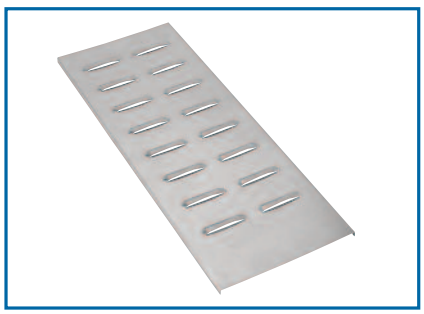
## Solid cover

Solid covers provide maximum mechanical protection for cables which have limited heat build up. This version is supplied without a flange.



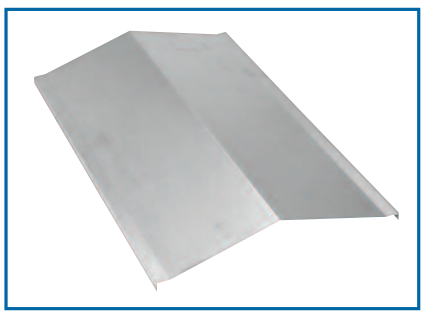
## Solid flanged cover

The solid flanged cover is comparable to the solid cover, providing maximum mechanical protection for cables which have limited heat build up, but also includes a 1/2" flange.



## Ventilated flanged cover

Ventilated flanged covers offer excellent mechanical protection while allowing heat produced by cables to dissipate through vents in the surface.



## Peaked flanged cover

Peaked covers have 15° rise at the peak, and offer mechanical protection plus prevent accumulation of liquids on the cover (due to adverse weather condition or accident).

Covers greater than 12" wide are available in 72" and 3 m lengths only.

Note: cover mounting hardware must be ordered separately for all cover types.



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## Product selection - covers

Cover part numbers are based on a range of selection criteria, dependent on the type of cover required, and the need to cover straight sections or fittings.

Covers are suitable for use with both U-style and H-style fittings.

Over the following pages, the selection criteria for each cover type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown.

The variables for selection include:

- Material type & series
- Siderail height & ladder width(s)
- Cover and fitting type
- Angle
- Nominal radius

## Cover - aluminium straight section

Select the preferred component parts and create the specific part number as per the example shown.

**MABW-1-12-SNC-72**

| Material type | Series | Ladder width | Cover type | Length |
|---|---|---|---|---|
| MABW \| Aluminium | 1 \| For cable ladder series: MAH-0-4, MAH-1-4 | 06 \| 6" | SNC \| Solid non-flanged cover | 72 \| 72" |
| | 2 \| For cable ladder series: MAH-2-4, MAH-3-4, MAH-4-4, MAH-5-4, MAH-2-5, MAH-3-5, MAH-4-5, MAH-0-6, MAH-1-6, MAH-2-6 | 09 \| 9" | SFC \| Solid flanged cover | 144 \| 12 ft |
| | | 12 \| 12" | VFC \| Ventilated flanged cover | 3 \| 3 m |
| | | 18 \| 18" | PFC \| Peaked flanged cover* | |
| | 3 \| For cable ladder series: MAH-3-6, MAH-4-6, MAH-5-6, MAH-6-6, MAH-2-7, MAH-2C-7, MAH3-7 | 24 \| 24" | | |
| | | 30 \| 30" | | |
| | | 36 \| 36" | | |

* Peaked covers greater than 12" wide available in 72" and 3 m lengths only.

## Cover - steel straight section

Select the preferred component parts and create the specific part number as per the example shown.

**MSPW-12-SNC-3**

| Material type | Ladder width | Cover type | Length |
|---|---|---|---|
| MSPW \| Pre-galvanized steel | 06 \| 6" | SNC \| Solid non-flanged cover | 72 \| 72" |
| MSHW \| Hot dip galvanized steel* | 09 \| 9" | SFC \| Solid flanged cover | 144 \| 12 ft |
| MSSW \| Stainless steel 316** | 12 \| 12" | VFC \| Ventilated flanged cover | 3 \| 3 m |
| | 18 \| 18" | PFC \| Peaked flanged cover | 15 \| 1.5 m* |
| | 24 \| 24" | | |
| | 30 \| 30" | | |
| | 36 \| 36" | | |

* Hot dip galvanized covers are available in 72" & 1.5 m lengths only. Other materials available in 72", 12 ft & 3 m lengths only.

** Stainless steel 304 is available to special order.



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## Cover - aluminium & steel - horizontal bend & vertical inside bend

Select the preferred component parts and create the specific part number as per the example shown.

**MAUW-24-SNC-HB-60-12**

| Material & fitting style | Ladder width | Cover type | Fitting type | Angle | Nominal radius |
|---|---|---|---|---|---|
| MAUW \| Aluminium U-style | 06 \| 6″ | SNC \| Solid non-flanged cover | HB \| Horizontal bend | 30 \| 30° | 12 \| 12″ |
| MAHW \| Aluminium H-style | 09 \| 9″ | SFC \| Solid flanged cover | VI \| Vertical inside bend | 45 \| 45° | 24 \| 24″ |
| MSPW \| Pre-galvanized steel | 12 \| 12″ | VFC \| Ventilated flanged cover | | 60 \| 60° | 36 \| 36″ |
| MSHW \| Hot dip galvanized steel | 18 \| 18″ | PFC \| Peaked flanged cover** | | 90 \| 90° | 48 \| 48″ |
| MSSW \| Stainless steel 316* | 24 \| 24″ | PVC \| Peaked vented flanged cover** | | | |
| | 30 \| 30″ | | | | |
| | 36 \| 36″ | | | | |

* Stainless steel 304 is available to special order.

** Peaked covers are not available in pre-galvanized steel.

## Cover - aluminium & steel - vertical outside bend

Select the preferred component parts and create the specific part number as per the example shown.

**MAUW-4-24-SNC-VO-90-12**

| Material & fitting style | Siderail height | Ladder width | Cover type | Fitting type | Angle | Nominal radius |
|---|---|---|---|---|---|---|
| MAUW \| Aluminium U-style | 4 \| 4″ | 06 \| 6″ | SNC \| Solid non-flanged cover | VO \| Vertical outside bend | 30 \| 30° | 12 \| 12″ |
| MAHW \| Aluminium H-style | 5 \| 5″ | 09 \| 9″ | SFC \| Solid flanged cover | | 45 \| 45° | 24 \| 24″ |
| | 6 \| 6″ | 12 \| 12″ | VFC \| Ventilated flanged cover | | 60 \| 60° | 36 \| 36″ |
| | 7 \| 7″ | 18 \| 18″ | PFC \| Peaked flanged cover** | | 90 \| 90° | 48 \| 48″ |
| MSPW \| Pre-galvanized steel | 3 \| 3 5/8″ | 24 \| 24″ | PVC \| Peaked vented flanged cover** | | | |
| MSHW \| Hot dip galvanized steel | 4 \| 4″ | 30 \| 30″ | | | | |
| MSSW \| Stainless steel 316* | 5 \| 5″ | 36 \| 36″ | | | | |
| | 6 \| 6″ | | | | | |
| | 7 \| 7″ | | | | | |

* Stainless steel 304 is available to special order.

** Peaked covers are not available in pre-galvanized steel.



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## Cover - aluminium & steel - horizontal tee & cross, vertical tee up

Select the preferred component parts and create the specific part number as per the example shown.

# MAUW-24-SNC-HT-12

| Material & fitting style | Ladder width | Cover type | Fitting type | Nominal radius |
|---|---|---|---|---|
| MAUW \| Aluminium U-style | 06 \| 6” | SNC \| Solid non-flanged cover | HT \| Horizontal tee** | 12 \| 12” |
| MAHW \| Aluminium H-style | 09 \| 9” | SFC \| Solid flanged cover | HX \| Horizontal cross | 24 \| 24” |
| MSPW \| Pre-galvanized steel | 12 \| 12” | VFC \| Ventilated flanged cover | VTU \| Vertical tee up | 36 \| 36” |
| MSHW \| Hot dip galvanized steel | 18 \| 18” | PFC \| Peaked flanged cover** | | 48 \| 48” |
| MSSW \| Stainless steel 316* | 24 \| 24” | PVC \| Peaked vented flanged cover** | | |
| | 30 \| 30” | | | |
| | 36 \| 36” | | | |

* Stainless steel 304 is available to special order.

** Peaked covers are not available in pre-galvanized steel, and are only available as horizontal tee.

## Cover - aluminium & steel - vertical tee down & cable support

Select the preferred component parts and create the specific part number as per the example shown.

# MAUW-6-24-SNC-VTD-12

| Material & fitting style | Siderail height | Ladder width | Cover type | Fitting type | Nominal radius |
|---|---|---|---|---|---|
| MAUW \| Aluminium U-style | 4 \| 4” | 06 \| 6” | SNC \| Solid non-flanged cover | VTD \| Vertical tee down | 12 \| 12” |
| MAHW \| Aluminium H-style | 5 \| 5” | 09 \| 9” | SFC \| Solid flanged cover | CS \| Cable support | 24 \| 24” |
| | 6 \| 6” | 12 \| 12” | VFC \| Ventilated flanged cover | | 36 \| 36” |
| | 7 \| 7” | 18 \| 18” | | | 48 \| 48” |
| | | 24 \| 24” | | | |
| MSPW \| Pre-galvanized steel | 3 \| 3 5/8” | 30 \| 30” | | | |
| MSHW \| Hot dip galvanized steel | 4 \| 4” | 36 \| 36” | | | |
| MSSW \| Stainless steel 316* | 5 \| 5” | | | | |
| | 6 \| 6” | | | | |
| | 7 \| 7” | | | | |

* Stainless steel 304 is available to special order.



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## Cover - aluminium & steel - horizontal reducing tee, horizontal expanding tee & cross

Select the preferred component parts and create the specific part number as per the example shown.

**MAUW-36-12-SNC-RT-12**

| Material & fitting style | Ladder width 1 | Ladder width 2 | Cover type | Fitting type | Nominal radius |
|---|---|---|---|---|---|
| MAUW \| Aluminium U-style | 06 \| 6″ | 06 \| 6″ | SNC \| Solid non-flanged cover | RT \| Horizontal reducing tee | 12 \| 12″ |
| MAHW \| Aluminium H-style | 09 \| 9″ | 09 \| 9″ | SFC \| Solid flanged cover | ET \| Horizontal expanding tee | 24 \| 24″ |
| MSPW \| Pre-galvanized steel | 12 \| 12″ | 12 \| 12″ | VFC \| Ventilated flanged cover | EX \| Horizontal expanding cross | 36 \| 36″ |
| MSHW \| Hot dip galvanized steel | 18 \| 18″ | 18 \| 18″ | | Note: for reduction, ladder width 2 should be less than ladder width 1. For expansion, ladder width 2 should be greater than ladder width 1. | 48 \| 48″ |
| MSSW \| Stainless steel 316* | 24 \| 24″ | 24 \| 24″ | | | |
| * Stainless steel 304 to special order. | 30 \| 30″ | 30 \| 30″ | | | |
| | 36 \| 36″ | 36 \| 36″ | | | |

## Cover - aluminium & steel - horizontal reducer

Select the preferred component parts and create the specific part number as per the example shown.

**MAUW-36-12-SNC-HLR**

| Material & fitting style | Ladder width 1 | Ladder width 2 | Cover type | Fitting type |
|---|---|---|---|---|
| MAUW \| Aluminium U-style | 09 \| 9″ | 06 \| 6″ | SNC \| Solid non-flanged cover | HLR \| Horizontal reducer - left |
| MAHW \| Aluminium H-style | 12 \| 12″ | 09 \| 9″ | SFC \| Solid flanged cover | HSR \| Horizontal reducer- straight |
| MSPW \| Pre-galvanized steel | 18 \| 18″ | 12 \| 12″ | VFC \| Ventilated flanged cover | HRR \| Horizontal reducer - right |
| MSHW \| Hot dip galvanized steel | 24 \| 24″ | 18 \| 18″ | | Note: for reduction, ladder width 2 should be less than ladder width 1. |
| MSSW \| Stainless steel 316* | 30 \| 30″ | 24 \| 24″ | | |
| * Stainless steel 304 to special order. | 36 \| 36″ | 30 \| 30″ | | |

## Cover - aluminium & steel - horizontal wye

Select the preferred component parts and create the specific part number as per the example shown.

**MAUW-24-SNC-HYL**

| Material & fitting style | Ladder width | Cover type | Fitting type |
|---|---|---|---|
| MAUW \| Aluminium U-style | 06 \| 6″ | SNC \| Solid non-flanged cover | HYR \| Horizontal wye - right |
| MAHW \| Aluminium H-style | 09 \| 9″ | SFC \| Solid flanged cover | HYL \| Horizontal wye - left |
| MSPW \| Pre-galvanized steel | 12 \| 12″ | VFC \| Ventilated flanged cover | |
| MSHW \| Hot dip galvanized steel | 18 \| 18″ | | |
| MSSW \| Stainless steel 316* | 24 \| 24″ | | |
| * Stainless steel 304 to special order. | 30 \| 30″ | | |
| | 36 \| 36″ | | |



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## Accessories and supports supplement installation of straight sections, covers and fittings.

Accessories enable clamping of covers, separation of cables within the ladder rack and variable mounting, support and suspension of the cable ladder system.

## Quantity of standard cover clamps required:

| | | |
|---|---|---|
| Straight section | 6 ft | 4 pieces |
| | 12 ft/3 m | 6 pieces |
| Horizontal and vertical bends | | 4 pieces |
| Tees | | 6 pieces |
| Crosses | | 8 pieces |

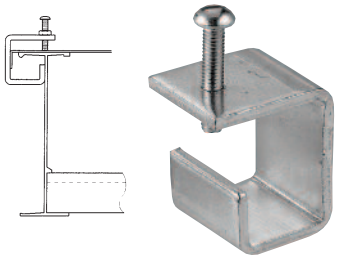
Note: when using the heavy duty cover clamp, only half the quantity of pieces are required.

**IMPORTANT NOTE:** where the aluminium accessory part number prefix includes 'B' (e.g. 'WAB'), this accessory can be used with both U-style and H-style fittings.

## Economical cover clamp

Rigid indoor cover clamp for flat and flanged covers.
Cannot be used with U-style fittings - use with MAH straights and MAHW fittings only.

| Part No. | Material | Siderail height |
|---|---|---|
| WAB-SCC | Zinc plated steel | All sizes |

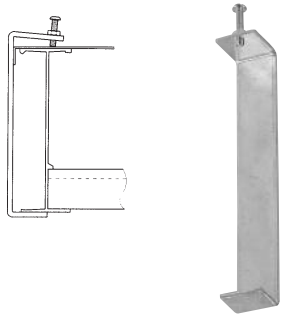


## Cover clamp

Rigid indoor cover clamp for flat and flanged covers.

| Part No. | Material | Part No. variable (*) |
|---|---|---|
| WAB-(*)-FCC | Zinc plated steel | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7" |
| WSP-(*)-SCC | Steel (pre-galvanized) | |
| WSS-(*)-SCC | Stainless steel 316 | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.



## Heavy duty cover clamp

Wrap around design offers added protection for rugged applications and outdoor conditions.
Hardware included.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)-(+)-HCC | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4"<br>5 = 5" 6 = 6" 7 = 7" | Replace (+) with double digit reference for ladder width:<br>06 = 6" 09 = 9" 12 = 12"<br>18 = 18" 24 = 24" 30 = 30"<br>36 = 36" |
| WSP-(*)-(+)-HCC | Steel (pre-galvanized) | | |
| WSH-(*)-(+)-HCC | Steel (hot dip galvanized) | | |
| WSS-(*)-(+)-HCC | Stainless steel 316 | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

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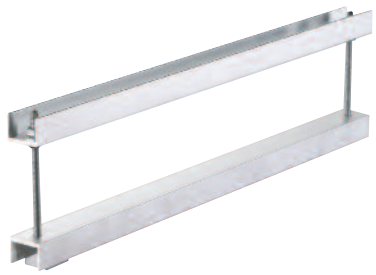
## Extreme heavy duty cover clamp

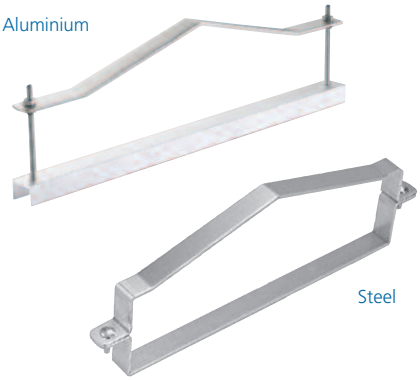


Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)-(+)-ECC | Aluminium | Replace (*) with single digit reference for siderail height:<br>4 = 4″ 5 = 5″ 6 = 6″ 7 = 7″ | Replace (+) with double digit reference for ladder width:<br>06 = 6″ 09 = 9″ 12 = 12″<br>18 = 18″ 24 = 24″ 30 = 30″<br>36 = 36″ |

## Heavy duty peaked cover clamp

Aluminium



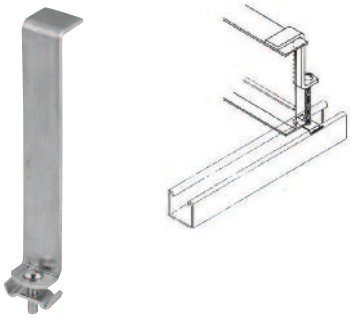
Steel

Wraparound design formed to fit peaked cover for outdoor applications. Hardware included.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)-(+)-HPC | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8″ 4 = 4″<br>5 = 5″ 6 = 6″ 7 = 7″ | Replace (+) with double digit reference for ladder width:<br>06 = 6″ 09 = 9″ 12 = 12″<br>18 = 18″ 24 = 24″ 30 = 30″<br>36 = 36″ |
| WSP-(*)-(+)-HPC | Steel (pre-galvanized) | | |
| WSH-(*)-(+)-HPC | Steel (hot dip galvanized) | | |
| WSS-(*)-(+)-HPC | Stainless steel 316 | | |

Note: 3 5/8″ siderail available for steel cable ladder only. Stainless steel 304 available to special order.

## Combination hold down cover clamp

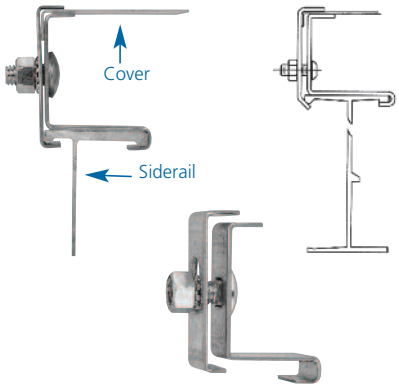


Designed to secure flat and flanged covers with hold down feature.

| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-CCC | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8″ 4 = 4″ 5 = 5″ 6 = 6″ 7 = 7″ |
| WSP-(*)-CCC | Steel (pre-galvanized) | |
| WSS-(*)-CCC | Stainless steel 316 | |

Note: 3 5/8″ siderail available for steel cable ladder only. Stainless steel 304 available to special order.

## Raised cover clamp




Designed to raise cover above cable ladder for added ventilation.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)(+)-RCC | Aluminium | Replace (*) with single digit reference for cover series:<br>1 = Series 1 2 = Series 2<br>3 = Series 3 | Replace (+) with single digit reference for cover offset:<br>1 = 1″ 2 = 2″<br>3 = 3″ |
| WSP-(+)-RCC | Steel (pre-galvanized) | | |
| WSS-(+)-RCC | Stainless steel 316 | | |

Note: cover series reference is only required for aluminium cable ladder. Stainless steel 304 available to special order.



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## Peaked end cap

Used for transition between peaked covers and straight covers.

| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-PEC | Aluminium | Replace (*) with double digit reference for ladder width:<br>06 = 6″ 09 = 9″ 12 = 12″ 18 = 18″<br>24 = 24″ 30 = 30″ 36 = 36″ |
| WSP-(*)-PEC | Steel (pre-galvanized) | |
| WSH-(*)-PEC | Steel (hot dip galvanized) | |
| WSS-(*)-PEC | Stainless steel 316 | |

Stainless steel 304 available to special order.

## Cover joint strip

Strip used for joining covers end to end. Manufactured from durable plastic material.

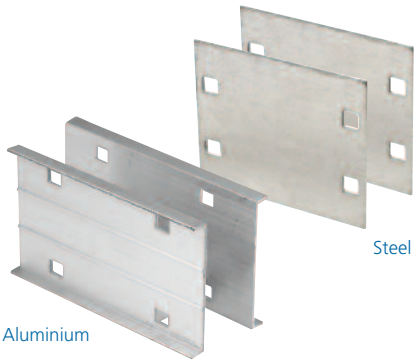
| Part No. | For ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-SCS | Aluminium | Replace (*) with double digit reference for ladder width:<br>06 = 6″ 09 = 9″ 12 = 12″ 18 = 18″<br>24 = 24″ 30 = 30″ 36 = 36″ |
| WSP-(*)-SCS | Steel (pre-galvanized)<br>Steel (hot dip galvanized)<br>Stainless steel 316 | |

## Splice plate

Packaged in pairs with zinc plated hardware. Aluminium versions 'snap-in' and are designed to lock into place for easy alignment and installation.

| Part No. | For ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-SSP | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8″ 4 = 4″ 5 = 5″ 6 = 6″ 7 = 7″ |
| WSP-(*)-SSP | Steel (pre-galvanized) | |
| WSH-(*)-SSP | Steel (hot dip galvanized) | |
| WSS-(*)-SSP | Stainless steel 316 | |

Note: splice plates provided as standard with each straight and/or fitting. 3 5/8″ siderail available for steel cable ladder only. Stainless steel 304 available to special order.

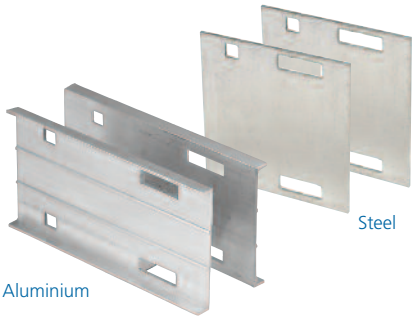



## Expansion splice plate

Allows for a 1″ expansion or contraction of the cable ladder system. Aluminium versions 'snap-in' and are designed to lock into place for easy alignment and installation. Packaged in pairs with hardware.

| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-ESP | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8″ 4 = 4″ 5 = 5″ 6 = 6″ 7 = 7″ |
| WSP-(*)-ESP | Steel (pre-galvanized) | |
| WSH-(*)-ESP | Steel (hot dip galvanized) | |
| WSS-(*)-ESP | Stainless steel 316 | |

Note: 3 5/8″ siderail available for steel cable ladder only. Stainless steel 304 available to special order.



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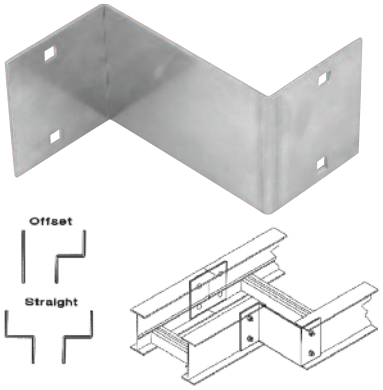
## Reducing splice plate



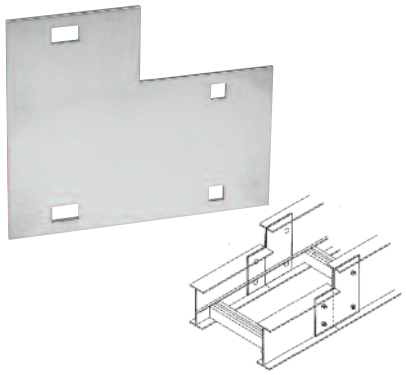

Use in pairs to provide a straight reduction or with a standard splice plate for an offset reduction. Packaged with hardware.

Note: **(+)** For offset reduction: insert width to be reduced. For straight reduction: insert half width to be reduced (2 required). Example: **MABW-4-03-RSP** = 3" offset reducer.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| **WAB-(*)-(+)-RSP** | Aluminium | Replace **(*)** with single digit reference for siderail height: **3** = 3 5/8" **4** = 4" **5** = 5" **6** = 6" **7** = 7" | Replace **(+)** with double digit reference for reduction value - single figures are preceded by '0' and decimals use first digit. e.g.: **03** = 3" **15** = 15" **01** = 1.5" **04** = 4.5" |
| **WSP-(*)-(+)-RSP** | Steel (pre-galvanized) | | |
| **WSH-(*)-(+)-RSP** | Steel (hot dip galvanized) | | |
| **WSS-(*)-(+)-RSP** | Stainless steel | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

## Step down splice plate

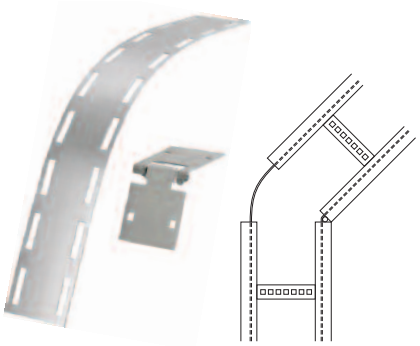


Connects siderails of different heights. Hardware included.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| **WAB-(*)-(+)-SDS** | Aluminium | Replace **(*)** with single digit reference for siderail height 1: **4** = 4" **5** = 5" **6** = 6" **7** = 7" | Replace **(+)** with single digit reference for siderail height 2: **3** = 3 5/8" **4** = 4" **5** = 5" **6** = 6" |
| **WSP-(*)-(+)-SDS** | Steel (pre-galvanized) | | |
| **WSH-(*)-(+)-SDS** | Steel (hot dip galvanized) | | |
| **WSS-(*)-(+)-SDS** | Stainless steel 316 | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order. When ordering, siderail height 2 should be less than siderail height 1.

## Horizontal adjustable plate

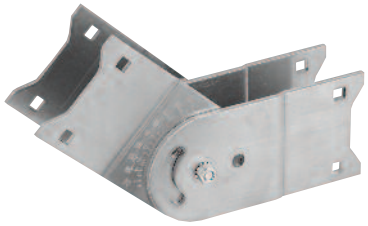


Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished in pairs with hardware.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| **WAB-(*)-(+)-HAP** | Aluminium | Replace **(*)** with single digit reference for siderail height: **3** = 3 5/8" **4** = 4" **5** = 5" **6** = 6" **7** = 7" | Replace **(+)** with double digit reference for ladder width: **06** = 6" **09** = 9" **12** = 12" **18** = 18" **24** = 24" **30** = 30" **36** = 36" |
| **WSP-(*)-(+)-HAP** | Steel (pre-galvanized) | | |
| **WSH-(*)-(+)-HAP** | Steel (hot dip galvanized) | | |
| **WSS-(*)-(+)-HAP** | Stainless steel 316 | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

## Vertical adjustable plate



Hinged vertical plates provide maximum flexibility for changes in elevation. Furnished in pairs with hardware.

| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| **WAB-(*)-VSP** | Aluminium | Replace **(*)** with single digit reference for siderail height: **3** = 3 5/8" **4** = 4" **5** = 5" **6** = 6" **7** = 7" |
| **WSP-(*)-VSP** | Steel (pre-galvanized) | |
| **WSH-(*)-VSP** | Steel (hot dip galvanized) | |
| **WSS-(*)-VSP** | Stainless steel 316 | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.



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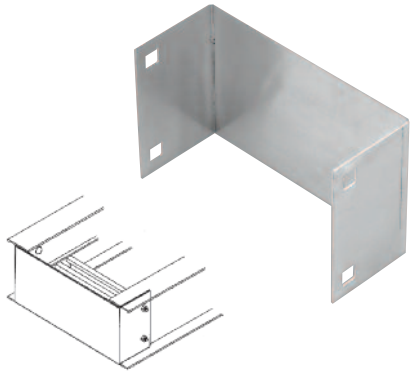
## Closure end plate

Provides closure for any cable ladder end. Packaged with hardware.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)-(+)-CEP | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4"<br>5 = 5" 6 = 6" 7 = 7" | Replace (+) with double digit reference for ladder width:<br>06 = 6" 09 = 9" 12 = 12"<br>18 = 18" 24 = 24" 30 = 30"<br>36 = 36" |
| WSP-(*)-(+)-CEP | Steel (pre-galvanized) | | |
| WSH-(*)-(+)-CEP | Steel (hot dip galvanized) | | |
| WSS-(*)-(+)-CEP | Stainless steel 316 | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

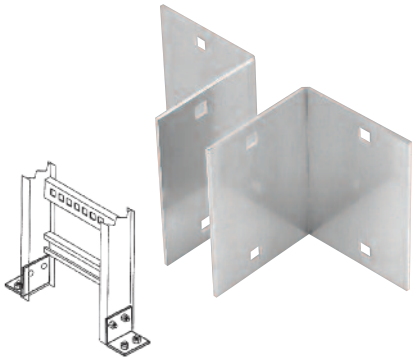


## Box to cable ladder plate

Designed to secure cable ladder to electrical panels or boxes, walls or end supports. Furnished in pairs with hardware.

| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-BSP | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7" |
| WSP-(*)-BSP | Steel (pre-galvanized) | |
| WSH-(*)-BSP | Steel (hot dip galvanized) | |
| WSS-(*)-BSP | Stainless steel 316 | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

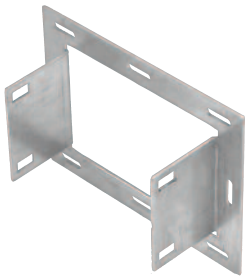


## Frame type cable ladder to box plate

Designed to secure cable ladder to electrical enclosures and panels. Hardware included.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)-(+)-FBP | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4"<br>5 = 5" 6 = 6" 7 = 7" | Replace (+) with double digit reference for ladder width:<br>06 = 6" 09 = 9" 12 = 12"<br>18 = 18" 24 = 24" 30 = 30"<br>36 = 36" |
| WSP-(*)-(+)-FBP | Steel (pre-galvanized) | | |
| WSH-(*)-(+)-FBP | Steel (hot dip galvanized) | | |
| WSS-(*)-(+)-FBP | Stainless steel 316 | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.



## Wall penetration sleeve

Designed to pass through walls and fire walls. Hardware included.
Note: Not Fire Rated. Fire Stop not included.

| Part No. | Material/Ladder type | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| WAB-(*)-(+)-WPS | Aluminium | Replace (*) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4"<br>5 = 5" 6 = 6" 7 = 7 | Replace (+) with double digit reference for ladder width:<br>06 = 6" 09 = 9" 12 = 12"<br>18 = 18" 24 = 24" 30 = 30"<br>36 = 36" |
| WSP-(*)-(+)-WPS | Steel (pre-galvanized) | | |
| WSH-(*)-(+)-WPS | Steel (hot dip galvanized) | | |
| WSS-(*)-(+)-WPS | Stainless steel 316 | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.



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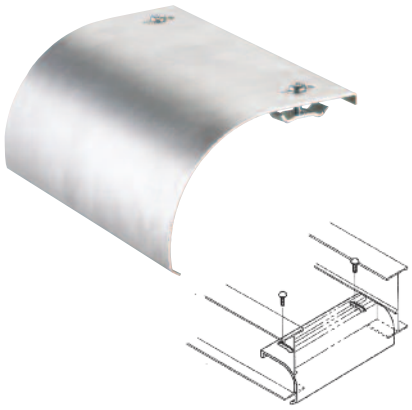
## Drop-out

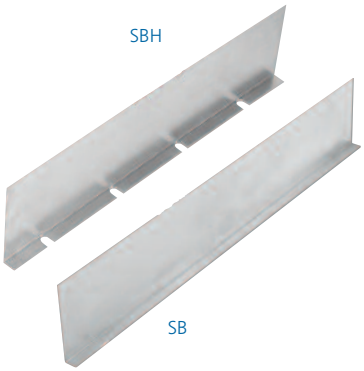


Designed to provide a smooth radiused surface at any position on the ladder or trough bottom. Drop-outs are easily attached using hardware provided. Standard Radius = 4".

| Part No. | Material | Bottom type | Part No. variable (*) |
|---|---|---|---|
| WAB-(*)-DO | Aluminium | Ladder/Ventilated | Replace (*) with double digit reference for ladder width:<br>06 = 6"<br>09 = 9"<br>12 = 12"<br>18 = 18"<br>24 = 24"<br>30 = 30"<br>36 = 36" |
| WAB-(*)-DOS | Aluminium | Solid | |
| WSP-(*)-DO | Steel (pre-galvanized) | Ladder/Ventilated | |
| WSP-(*)-DOS | Steel (pre-galvanized) | Solid | |
| WSH-(*)-DO | Steel (hot dip galvanized) | Ladder/Ventilated | |
| WSH-(*)-DOS | Steel (hot dip galvanized) | Solid | |
| WSS-(*)-DO | Stainless steel 316 | Ladder/Ventilated | |
| WSS-(*)-DOS | Stainless steel 316 | Solid | |

Stainless steel 304 available to special order.

## Barrier strip




Barrier strips provide a method for separating cables in cable ladder systems. Easily installed using supplied hardware or barrier strip clamps (sold separately).

**72" Barriers are flexible for use with horizontal fittings. WSH hot dip galvanized available in 72" and 1.5 m lengths only. Other materials available in 72", 144" and 3 m lengths only.**

| Part No. | Length | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| (*)-(+)-SBH-72 | 72" | Replace (*) with three letter reference for material type:<br>WAB = Aluminium<br>WSP = Steel (pre-galvanized)<br>WSH = Steel (hot dip galvanized)<br>WSS = Stainless steel 316 | Replace (+) with single digit reference for siderail height:<br>3 = 3 5/8" 4 = 4"<br>5 = 5" 6 = 6" 7 = 7 |
| (*)-(+)-SB-144 | 144" | | |
| (*)-(+)-SB-3 | 3 m | | |
| (*)-(+)-SB-15 | 1.5 m | | |

Note: 3 5/8" siderail available for steel cable ladder only. 72" barriers supplied as standard with 3 WSP-10-SCR (self-drilling tapping screw), 144" & 3 m barriers supplied as standard with 6 WSP-10-SCR. Stainless steel 304 available to special order.

## Inside/outside vertical bend barrier

Pre-formed to fit all standard vertical bends. Provided with hardware.

| Part No. | Siderail height | Part No. variable (*) | Part No. variable (+) (%) |
|---|---|---|---|
| Vertical inside bend | | | |
| (*)-3-VIB-(+)-(%) | 3 5/8" | Replace (*) with three letter reference for material type:<br>WAB = Aluminium<br>WSP = Steel (pre-galvanized)<br>WSH = Steel (hot dip galv.)<br>WSS = Stainless steel 316 | Replace (+) with bend angle:<br>90 = 90° 60 = 60°<br>45 = 45° 30 = 30°<br>Replace (%) with bend radius:<br>12 = 12" 24 = 24"<br>36 = 36" 48 = 48" |
| (*)-4-VIB-(+)-(%) | 4" | | |
| (*)-5-VIB-(+)-(%) | 5" | | |
| (*)-6-VIB-(+)-(%) | 6" | | |
| (*)-7-VIB-(+)-(%) | 7" | | |
| Vertical outside bend | | | |
| (*)-3-VOB-(+)-(%) | 3 5/8" | Replace (*) with three letter reference for material type:<br>WAB = Aluminium<br>WSP = Steel (pre-galvanized)<br>WSH = Steel (hot dip galv.)<br>WSS = Stainless steel 316 | Replace (+) with bend angle:<br>90 = 90° 60 = 60°<br>45 = 45° 30 = 30°<br>Replace (%) with bend radius:<br>12 = 12" 24 = 24"<br>36 = 36" 48 = 48" |
| (*)-4-VOB-(+)-(%) | 4" | | |
| (*)-5-VOB-(+)-(%) | 5" | | |
| (*)-6-VOB-(+)-(%) | 6" | | |
| (*)-7-VOB-(+)-(%) | 7" | | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.



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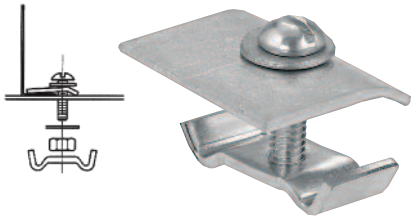
## Barrier strip clamp

Barrier strip clamps mount barrier strips to ladder rungs and ventilated bottoms. Complete mounting hardware supplied.

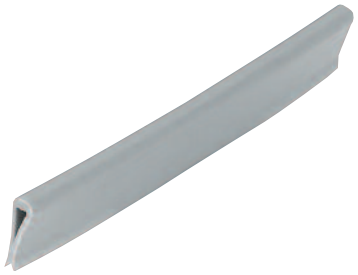


| Part No. | Material |
|---|---|
| WSP-BSC | Zinc plated steel |
| WSS-BSC | Stainless steel 316 |

Stainless steel 304 available to special order.

## Barrier strip splice

Alignment splice for joining connecting barrier strips.



| Part No. | Material |
|---|---|
| WAB-BSS | Plastic |

## Standard hold down clamp

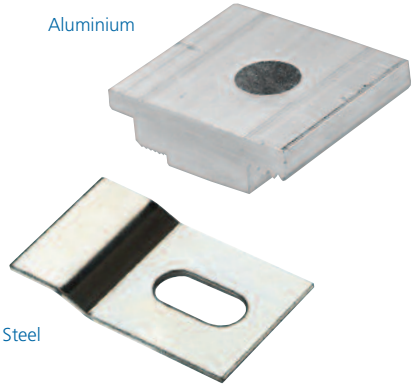
Designed for most indoor installations. Easy to use and install. Order 3/8" hardware separately.

| Part No. | Material |
|---|---|
| WSP-(*)-SHC | Zinc plated steel |
| WSS-(*)-SHC | Stainless steel 316 |
| WSP-(*)-SHC-HDW | Zinc plated steel, supplied with 1/4" hardware |
| WSS-(*)-SHC-HDW | Stainless steel 316, supplied with 1/4" hardware |

Stainless steel 304 available to special order.

## Combination hold down/expansion guide clamp

Order hardware separately.




| Part No. | Material |
|---|---|
| WAB-HEC | Aluminium |
| WSP-HEC | Steel (pre-galvanized) |
| WSH-HEC | Steel (hot dip galvanized) |
| WSS-HEC | Stainless steel 316 |

Stainless steel 304 available to special order.



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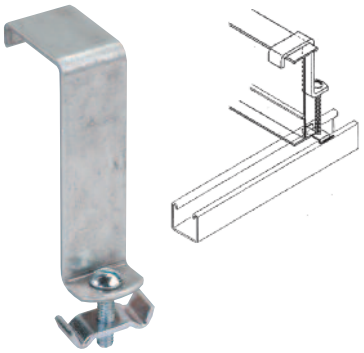
## Hold down clamp

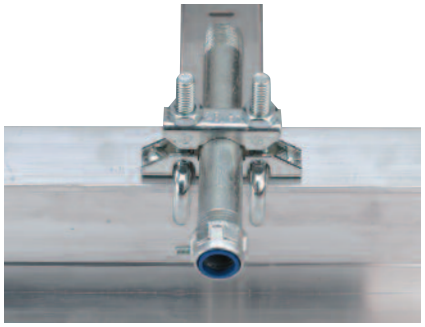


Designed to secure cable ladder to support system. Hardware included.

| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-HDC | Aluminium | Replace (*) with single digit reference for siderail height: |
| WSP-(*)-HDC | Steel (pre-galvanized) | 3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7" |
| WSH-(*)-HDC | Steel (hot dip galvanized) | |
| WSS-(*)-HDC | Stainless steel | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

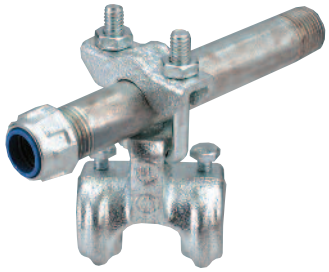
## Conduit to cable ladder clamp



Standard finish: electro-galvanized steel.

| Part No. | Conduit size |
|---|---|
| M6210 | 1/2" - 3/4" |
| M6212 | 1" - 1 1/4" |

## Conduit to cable ladder swivel clamp

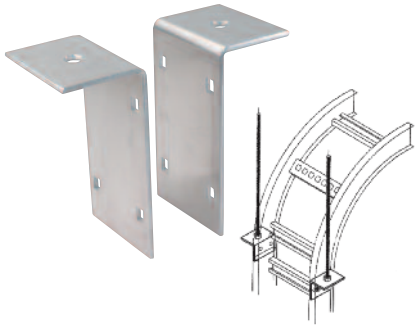


Swivel clamp for aluminium and steel cable ladder with regular or reinforced flanges.
Material: zinc plated malleable iron hub, with steel U-bolt included.

- Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp
- 1/2" to 4" can be clamped to any position in a 90° arc

| Part No. | Conduit size |
|---|---|
| M6209 | 1/2" - 3/4" |
| M6211 | 1" - 1 1/4" |
| M6214 | 1 1/2" - 2" |
| M6216 | 2 1/2" - 3" |
| M6218 | 3 1/2" - 4" |

## Vertical cable ladder hanger



| Part No. | Material/Ladder type | Part No. variable (*) |
|---|---|---|
| WAB-(*)-VTH | Aluminium | Replace (*) with single digit reference for siderail height: |
| WSP-(*)-VTH | Steel (pre-galvanized) | 3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7" |
| WSH-(*)-VTH | Steel (hot dip galvanized) | |
| WSS-(*)-VTH | Stainless steel 316 | |

Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.



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## Cable ladder guide

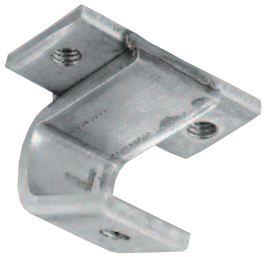
Expansion guide for single or double runs of cable ladder. No need to field drill the channel or H-beam.

| Part No. | Material |
|---|---|
| WSP-CTG | Zinc plated steel |
| WSH-CTG | Steel (hot dip galvanized) |
| WSS-CTG | Stainless steel 316 |

Stainless steel 304 available to special order.

## Cable ladder clamp

Clamps for single run of cable ladder. No need to field drill the channel or H-beam.



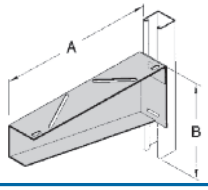
| Part No. | Material |
|---|---|
| WSP-CTC | Zinc plated steel |
| WSH-CTC | Steel (hot dip galvanized) |
| WSS-CTC | Stainless steel 316 |

Stainless steel 304 available to special order.

## Cantilever support

Standard finish: hot dip galvanized steel.

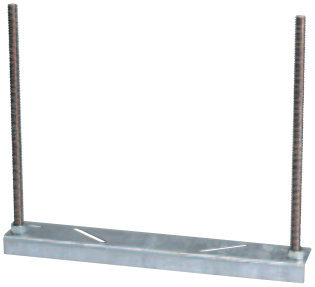
| Part No. | A | B | Design load |
|---|---|---|---|
| MS203-14HDG | 14 1/2" | 5 3/8" | 1200 lbs |
| MS203-20HDG | 20 1/2" | 6 11/16" | 1200 lbs |
| MS203-26HDG | 26 1/2" | 8" | 1200 lbs |
| MS203-32HDG | 32 1/2" | 8" | 1200 lbs |
| MS203-38HDG | 38 1/2" | 8" | 1200 lbs |



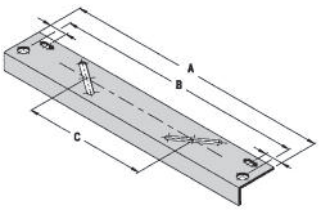

Note: order hold down clips separately - Part No. WSS-SHC.

## Cross member

Standard finish: hot dip galvanized steel. Hanging rods not included.



| Part No. | A | B | C |
|---|---|---|---|
| MS202-6HDG | 6" | 5" | - |
| MS202-9HDG | 9" | 8" | 2" |
| MS202-15HDG | 15" | 14" | 8" |
| MS202-21HDG | 21" | 20" | 14" |
| MS202-27HDG | 27" | 26" | 20" |
| MS202-33HDG | 33" | 32" | 26" |




Note: order hold down clips separately - Part No. WSS-SHC.



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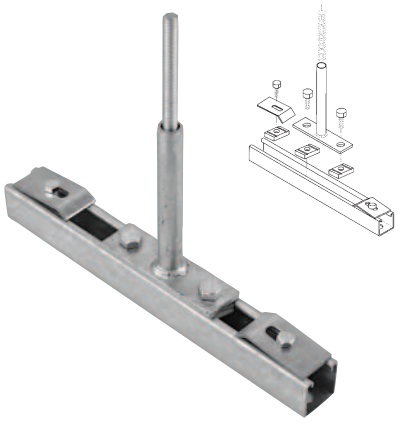
## Centre support bracket

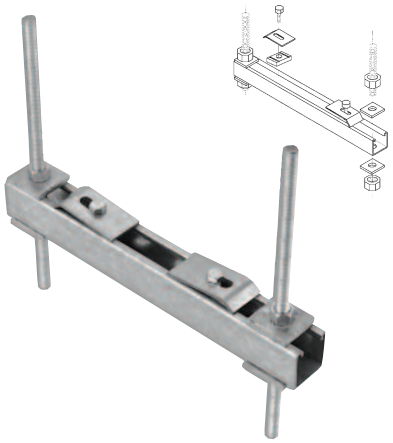


Cable support brackets are designed to reduce cable pulling by allowing access from both sides of the cable ladder. Installation cost and time are reduced significantly by single point suspension.

- Supplied as a complete kit
- Uses 1/2" threaded rod (order separately)
- For use with up to 24" wide cable ladder
- Load capacity : 700 lb per kit

| Part No. | Description | Part No. variable (*) |
|---|---|---|
| WSP-(*)-CSB | Steel (hot dip galvanized) | Replace (*) with double digit reference for channel width:<br>**18** = 18" (for 6" cable ladder)<br>**30** = 30" (for 9" to 24" cable ladder) |

## Trapeze kit



Trapeze kits are designed to support various cable ladder widths in a suspending installation.

Kit consists of 1 piece of strut cut to length, 4 x 3/8" strut nuts, 2 hold down clips, 4 x 1/2" hex nuts, 2 x 3/8" x 7/8" hex head cap screws, 4 x 1/2" square washers.

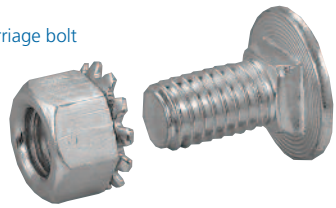
Uses 1/2" threaded rod (order separately).

| Part No. | Description | Part No. variable (*) | |
|---|---|---|---|
| WSP-(*)-TPK | Steel (pre-galvanized) | Replace (*) with double digit reference for ladder width:<br>**06** = 6" **09** = 9"<br>**12** = 12" **18** = 18"<br>**24** = 24" **30** = 30"<br>**36** = 36" | Ladder width:channel width ratio:<br>6":16 7/8" 9":18 3/4"<br>12":22 1/2" 18":28 1/8"<br>24":35 5/8" 30":41 1/4"<br>36":46 7/8" |
| WSH-(*)-TPK | Steel (hot dip galvanized) | | |
| WSS-(*)-TPK | Stainless steel 316 | | |

Stainless steel 304 available to special order.

## Tray hardware

Carriage bolt



Self-drilling tapping screw

| Part No. | Material | Description |
|---|---|---|
| WSP-1/4-CB | Zinc plated steel | Square shoulder self-positioning 1/4" carriage bolt |
| WSP-3/8-CB | Zinc plated steel | Square shoulder self-positioning 3/8" carriage bolt |
| WSP-1/4-HN | Zinc plated steel | 1/4" Hex. nut |
| WSP-3/8-HN | Zinc plated steel | 3/8" Hex. nut |
| WSS-3/8-CB | Stainless steel 316 | 3/8" Carriage bolt |
| WSS-3/8-HN | Stainless steel 316 | 3/8" Hex. nut |
| WSS-3/8-HWK | Stainless steel 316 | Hardware kit inc. 8 nuts, 8 bolts & 8 lockwashers |
| WSP-10-SCR | Zinc plated steel | Self-drilling tapping screw |

Stainless steel 304 available to special order. Hardware available in metric sizes to special order - contact Thomas & Betts.



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## Threaded rod

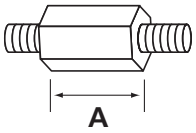
| Part No. | Size | Threads/inch | Design load | Part No. variable (*) |
|---|---|---|---|---|
| H104-1/4x3(*) | 1/4" | 20 | 150 lb | Replace (*) with reference for material type:<br>**EG** = Electro-galvanized<br>**HDG** = Hot dip galvanized<br>**SS4** = Stainless steel 304<br>**SS6** = Stainless steel 316 |
| H104-3/8x3(*) | 3/8" | 16 | 610 lb | |
| H104-1/2x3(*) | 1/2" | 13 | 1130 lb | |
| H104-5/8x3(*) | 5/8" | 11 | 1810 lb | |
| H104-3/4x3(*) | 3/4" | 10 | 2710 lb | |
| H104-7/8x3(*) | 7/8" | 9 | 3770 lb | |
| H104-1x3(*) | 1" | 8 | 4960 lb | |

Standard length 3 m. Rod available in metric sizes to special order - contact Thomas & Betts.

## Threaded rod coupling

| Part No. | Rod size | A | Part No. variable (*) |
|---|---|---|---|
| H119-1/4(*) | 1/4" | 7/8" | Replace (*) with reference for material type:<br>**EG** = Electro-galvanized<br>**HDG** = Hot dip galvanized<br>**SS4** = Stainless steel 304<br>**SS6** = Stainless steel 316 |
| H119-5/16(*) | 5/16" | 7/8" | |
| H119-3/8(*) | 3/8" | 1 1/8" | |
| H119-1/2(*) | 1/2" | 1 1/4" | |
| H119-5/8(*) | 5/8" | 2 1/8" | |
| H119-3/4(*) | 3/4" | 2 1/4" | |
| H119-7/8(*) | 7/8" | 2 1/2" | |
| H119-1(*) | 1" | 2 1/4" | |

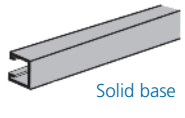
Coupling available in metric sizes to special order - contact Thomas & Betts.

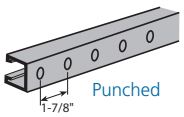


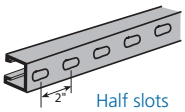


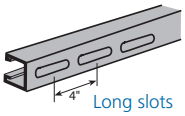

*Thomas & Betts Saudi Arabia, Building 128, Dammam Industrial Area #2, PO Box 514, Al Khobar 31952, Saudi Arabia Tel: +966 (0)3 812 1222 • Email: enquiryksa@tnb.com • Web: www.tnb-europe.com*

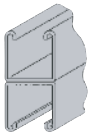
## Superstrut® 2.5 mm (12 Ga.) & 2 mm (14 Ga.) channel - type A and type B

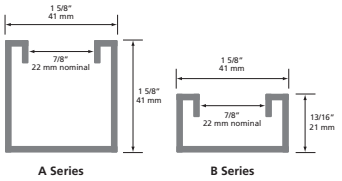


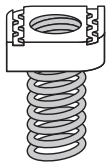



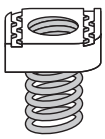




Metal framing channel available in 2.5 mm (12 Gauge) and 2 mm (14 Gauge) thickness. Aluminium, hot dip galvanized or stainless steel channels are recommended to support aluminium, steel or stainless steel cable ladder. Offered in lengths of 10 ft, 20 ft, 3 m or 6 m.

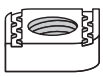
| Part No. (12 Ga.) | Part No. (14 Ga.) | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|---|
| A Series channel - 1 5/8" x 1 5/8" / 41 mm x 41 mm | | | | |
| A1200-(*)-(+)M | A1400-(*)-(+)M | Solid base | Replace (*) with ref. for length:<br>10 = 10 ft<br>20 = 20 ft<br>3 = 3 m<br>6 = 6 m | Replace (+) with ref. for material/finish type:<br>AL = Aluminium<br>HDG = Hot dip galvanized<br>PG = Pre-galvanized<br>T304 = Stainless steel 304<br>T316 = Stainless steel 316 |
| A1200-P-(*)-(+)M | A1400-P-(*)-(+)M | Punched | | |
| A1200-HS-(*)-(+)M | A1400-HS-(*)-(+)M | Half slots | | |
| A1200-S-(*)-(+)M | A1400-S-(*)-(+)M | Long slots | | |
| A1202-(*)-(+)M | A1402-(*)-(+)M | Back to back | | |
| B Series channel - 1 5/8" x 13/16" / 41 mm x 21 mm | | | | |
| B1200-(*)-(+)M | B1400-(*)-(+)M | Solid base | Replace (*) with ref. for length:<br>10 = 10 ft<br>20 = 20 ft<br>3 = 3 m<br>6 = 6 m | Replace (+) with ref. for material/finish type:<br>AL = Aluminium<br>HDG = Hot dip galvanized<br>PG = Pre-galvanized<br>T304 = Stainless steel 304<br>T316 = Stainless steel 316 |
| B1200-P-(*)-(+)M | B1400-P-(*)-(+)M | Punched | | |
| B1200-HS-(*)-(+)M | B1400-HS-(*)-(+)M | Half slots | | |
| B1200-S-(*)-(+)M | B1400-S-(*)-(+)M | Long slots | | |
| B1202-(*)-(+)M | B1402-(*)-(+)M | Back to back | | |

## Channel nuts




Nut is square over 1/2" size



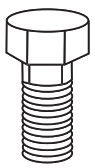

Nut is square over 1/2" size

Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

A100 is designed for A Series channel, and B100 is for B Series. A100 and B100 available in imperial sizes ranging from 1/4" to 7/8", and metric sizes from M6 to M22. AB100 available in imperial sizes ranging from 1/4" to 3/4", and metric sizes from M6 to M20.

| Part No. | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| A100-(*)-(+) | Spring nut | Replace (*) with reference for thread size:<br>1/4 = 1/4"/M6 5/16 = 5/16"/M8<br>3/8 = 3/8"/M10 1/2 = 1/2"/M12<br>5/8 = 5/8"/M16 3/4 = 3/4"/M20<br>7/8 = 7/8"/M22 | Replace (+) with ref. for material/finish type:<br>EG = Electro-galvanized<br>HDG = Hot dip galvanized<br>SS4 = Stainless steel 304<br>SS6 = Stainless steel 316 |
| B100-(*)-(+) | Spring nut | | |
| AB100-(*)-(+) | Springless nut | | |

## Hex head cap screw



Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

| Part No. | Description | Part No. variable (*) | Part No. variable (+) |
|---|---|---|---|
| E142-(*)-(+) | Hex head cap screw | Replace (*) with reference for size:<br>1/4x100 = 1/4" x 1"<br>1/4x150 = 1/4" x 1 1/2"<br>3/8x100 = 3/8" x 1"<br>3/8x150 = 3/8" x 1 1/2"<br>1/2x100 = 1/2" x 1"<br>1/2x150 = 1/2" x 1 1/2" | Replace (+) with reference for material/finish type:<br>EG = Electro-galvanized<br>HDG = Hot dip galvanized<br>SS4 = Stainless steel 304<br>SS6 = Stainless steel 316 |

Cap screw available in metric sizes to special order - contact Thomas & Betts.



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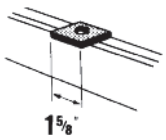
## Superstrut® fittings and brackets

Fittings and brackets are available in four materials. To create specific part numbers, replace the part number variable (*) with the relevant material code shown right:

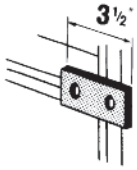
Note: Hot dip galvanized HDG or stainless steel fittings (SS6 or SS4) are recommended to assemble aluminum channel.

| | | |
|---|---|---|
| EG | = | Electro-galvanized |
| HDG | = | Hot dip galvanized |
| SS4 | = | Stainless steel 304 |
| SS6 | = | Stainless steel 316 |

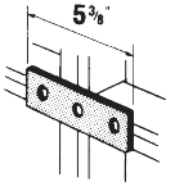
Standard dimensions: **Hole spacing:** 13/16" from end, 1 7/8" centres **Hole size:** 9/16" diameter, fitting width 1 5/8"



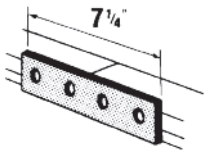

| Part No. | Hole size |
|---|---|
| AB241-1/4(*) | 1/4" |
| AB241-3/8(*) | 3/8" |
| AB241-1/2(*) | 1/2" |
| AB241-3/4(*) | 3/4" |



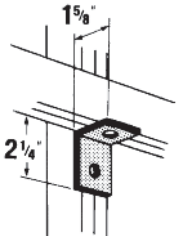

AB206(*)



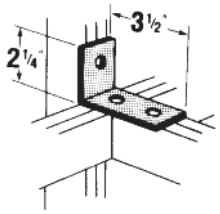

AB207(*)




X207(*)




AB201(*)

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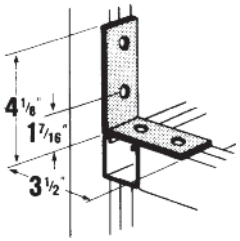


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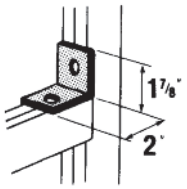


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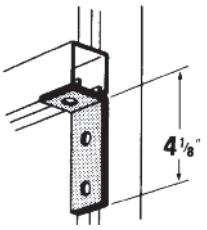
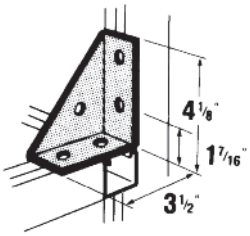



AB203(*)

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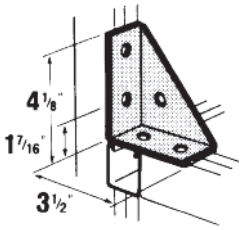
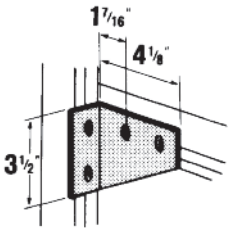
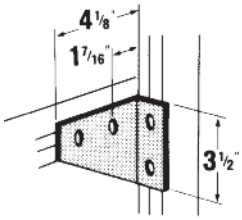


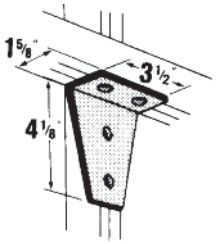

AB214(*)



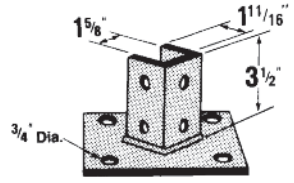

AB254-L(*)



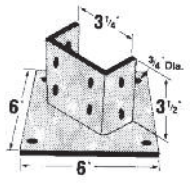

AB254-R(*)



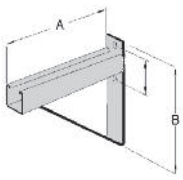

X289(*)



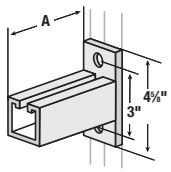

AP232(*)




AP235H(*)

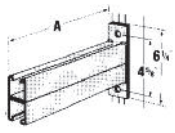



| Part No. | A | B | Load |
|---|---|---|---|
| S249-8(*) | 8 1/2" | 8" | 1500 lb |
| S249-14(*) | 14 1/2" | 9" | 1500 lb |
| S249-20(*) | 20 1/2" | 9" | 1500 lb |
| S249-26(*) | 26 1/2" | 11 1/2" | 1500 lb |
| S249-32(*) | 32 1/2" | 11 1/2" | 1500 lb |
| S249-38(*) | 38 1/2" | 11 1/2" | 1500 lb |




| Part No. | A | Load |
|---|---|---|
| S250-6(*) | 6" | 1500 lb |
| S250-12(*) | 12" | 800 lb |
| S250-18(*) | 18" | 550 lb |
| S250-24(*) | 24" | 400 lb |

Note: may be installed inverted with no change in load ratings. Strut section made from half slot channel.




| Part No. | A | Load |
|---|---|---|
| S251-14(*) | 14 1/2" | 1650 lb |
| S251-20(*) | 20 1/2" | 800 lb |
| S251-26(*) | 26 1/2" | 650 lb |
| S251-32(*) | 32 1/2" | 500 lb |
| S251-38(*) | 38 1/2" | 500 lb |



Superstrut® channel brackets are available in other lengths on request. Contact Thomas & Betts for further information.

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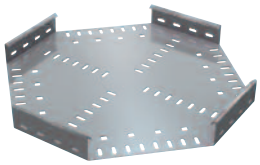
Thomas&Betts

## Perforated cable tray



Available in aluminium, or steel in a range of finishes, with formats from medium duty to ultra heavy duty, T&B perforated tray is the all-round performer in our portfolio of cable tray solutions.

The perforation pattern includes vertical and square slots for fixing Ty-Rap® cable ties etc, to enable better segregation and easier bundling of cables.

## Channel tray

T&B channel tray systems provide the ideal light duty solution to cable support.

Suitable for supporting a wide range of telecoms, data, signal, computer and light power cables, channel tray is available in solid or ventilated straight sections together with a full suite of fittings & accessories, to meet the demands of even the most complex installations.

## Non-metallic cable tray

Non-metallic cable tray is tested and proven in the harsh environment of the offshore oil & gas industry, where exposure to adverse and corrosive conditions demands a solution with unique material properties.

Non-metallic cable tray is lightweight, neither rusts nor requires painting, and provides the load capacity of steel.

## ExpressTray™ wire frame cable tray

The ExpressTray™ cable management system is a complete solution for managing light power, voice & data cables in commercial and industrial facilities, that delivers simplicity, efficiency, versatility and performance.

Requiring no corner, cross or bend elements, any layout can be achieved simply with a length of tray and a pair of wire cutters.

## E-Klips spring steel fasteners

E-Klips spring steel fasteners offer a quick, easy and reliable method of fixing services to steelwork without the need for bracket making, drilling holes or use of nuts and bolts.

E-Klips fasteners are suitable for almost every application, including cables, cable tray, ducting, pipework, trunking, light fittings, conduit and suspended ceilings.

## Large radius cable tray

Custom-built cable support for petrochemical project tanks or towers.

This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Designed to special order to meet specific project needs.



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Thomas&Betts

## Cable ties and fasteners

Thomas & Betts offers a broad range of cable ties designed to make the task of fastening, bundling, clamping and managing wires easier for all types of commercial, industrial and OEM applications.

Strength and reliability are hallmarks of the Thomas & Betts cable tie range, which are available in a variety of styles under the core brands: Ty-Rap®, Ty-Met®, Ty-Fast®, Ty-Grip® and Deltec® .

## Terminals and connectors

Sta-Kon®, Shield-Kon®, Color-Keyed® and Dragon Tooth® connectors offer secure, reliable, and highly conductive termination of shielded cables, power cables and magnet wire.

All T&B connectors are complemented by manual and hydraulic crimping tools to enable fast, high quality crimps with the minimum of effort.

## Flexible conduit systems

Thomas & Betts flexible conduit provides excellent protection for electrical cables against aggressive/corrosive environments, moisture and liquids, pressure loads, oil, dust, chemical pollutants and extreme temperatures.

Flexible conduit is available under the Thomas & Betts core brands: Adaptaflex®, Kopex, Kopex-Ex, PMAFIX, PMAFLEX, Shureseal® and Shureflex®.

## Heat shrink technologies

Shrink-Kon® heavy, medium and thin wall heat shrink products protect cables and connectors against moisture, corrosion and abrasion.

Additionally providing mechanical and electrical insulation, Shrink-Kon® products range from highly flexible to semi-rigid for a multitude of applications in industry and OEM.

## Imperial to metric conversion chart

All cable ladder measurements in this publication are based on imperial sizes. Please use the following chart for conversions of imperial measurements to metric as required when assessing cable ladder projects.

| inches | mm | inches | mm | inches | mm | inches | mm | inches | mm |
|---|---|---|---|---|---|---|---|---|---|
| 1/4" | 6.35 mm | 1 1/2" | 38.1 mm | 4" | 101.6 mm | 12" | 304.8 mm | 26 1/2" | 673.1 mm |
| 5/16" | 7.94 mm | 1 5/8" | 41.28 mm | 4 1/8" | 104.78 mm | 14" | 355.6 mm | 27" | 685.8 mm |
| 3/8" | 9.53 mm | 1 11/16" | 42.86 mm | 4 5/8" | 117.48 mm | 14 1/2" | 368.3 mm | 28 1/8" | 714.38 mm |
| 1/2" | 12.7 mm | 1 7/8" | 47.63 mm | 5" | 127 mm | 15" | 381 mm | 30" | 762 mm |
| 9/16" | 14.29 mm | 2" | 50.8 mm | 5 3/8" | 136.53 mm | 16 7/8" | 428.63 mm | 32" | 812.8 mm |
| 5/8" | 15.9 mm | 2 1/8" | 53.98 mm | 6" | 152.4 mm | 18" | 457.2 mm | 32 1/2" | 825.5 mm |
| 3/4" | 19.05 mm | 2 1/4" | 57.15 mm | 6 11/16" | 169.86 mm | 18 3/4" | 476.25 mm | 33" | 838.2 mm |
| 13/16" | 20.64 mm | 2 1/2" | 63.5 mm | 7" | 177.8 mm | 20" | 508 mm | 35 5/8" | 904.88 mm |
| 7/8" | 22.23 mm | 2 5/8" | 66.68 mm | 7 1/4" | 184.15 mm | 20 1/2" | 520.7 mm | 36" | 914.4 mm |
| 1" | 25.4 mm | 3" | 76.2 mm | 8" | 203.8 mm | 21" | 533.4 mm | 38 1/2" | 977.9 mm |
| 1 1/8" | 28.58 mm | 3 1/4" | 82.55 mm | 8 1/2" | 215.9 mm | 22 1/2" | 571.5 mm | 41 1/4" | 1047.75 mm |
| 1 1/4" | 31.75 mm | 3 1/2" | 88.9 mm | 9" | 228.6 mm | 24" | 609.6 mm | 46 7/8" | 1190.63 mm |
| 1 7/16" | 36.51 mm | 3 5/8" | 92.08 mm | 11 1/2" | 292.1 mm | 26" | 660.4 mm | 48" | 1219.2 mm |



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