

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.

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.

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.

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.

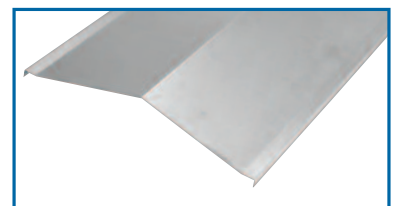
Reduced costs

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

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.



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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)

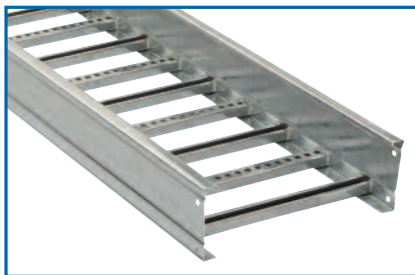
Stainless steel offers high strength and high resistance to chemicals, even at high ambient temperatures. T&B stainless steel cable ladder is roll-formed from AISI Type 316 stainless steel as standard, with Type 304 stainless steel available to special order.



Ladder

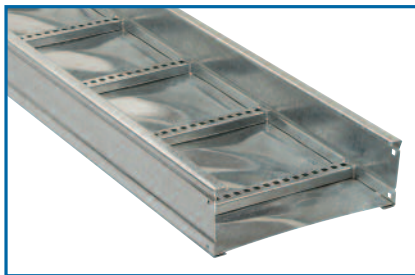
Longitudinal rungs are welded to extruded siderails for maximum structural strength. Rungs are extra wide for maximum cable bearing, and have continuous open slot for strut pipe clamps and barrier strip adjustability.

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.

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).

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.

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.

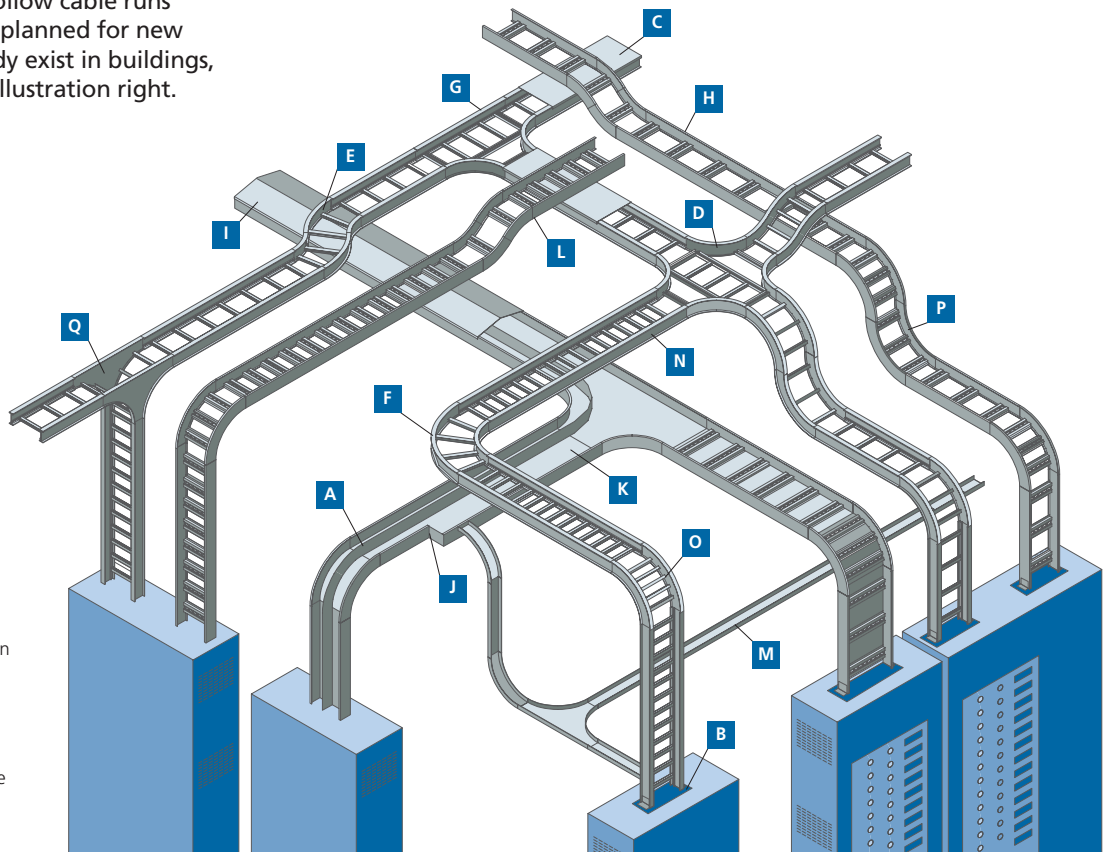
Accessories

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





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	Steel
<p>Pre-fabricated aluminium section with siderails connected by rungs.</p> <p>Features</p> <ul style="list-style-type: none"> ● 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) 	<p>Pre-fabricated steel section with siderails connected by rungs.</p> <p>Features</p> <ul style="list-style-type: none"> ● 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		Span	
				lb/ft	kg/m	ft	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
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		Span	
				lb/ft	kg/m	ft	m
3 5/8"	MS*-1-3	2 5/8"	12A	50	74	12	3.7
4"	MS*-1-4 MS*-3-4	3"	12C	100	149	12	3.7
			20A	50	74	20	6.0
5"	MS*-2-5 MS*-4-5 MS*-5-5	4"	20A	50	74	20	6.0
			20B	75	112	20	6.0
			20C	100	149	20	6.0
6"	MS*-0-6 MS*-1-6 MS*-3-6 MS*-4-6	5"	12C	100	149	12	3.7
			20A	50	74	20	6.0
			20B	75	112	20	6.0
			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

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*	4 4"	06 6"	L06 6" rung spacing	144 12 ft
	1 Series 1**		09 9"	L09 9" rung spacing	288 24 ft
	2 Series 2		12 12"	L12 12" rung spacing	3 3 m
	3 Series 3		18 18"	V Ventilated	6 6 m
	4 Series 4		24 24"	S Solid trough	
	5 Series 5	30 30"			
	2 Series 2	5 5"	36 36"		
	3 Series 3				
	4 Series 4				
	0 Series 0*	6 6"			
	1 Series 1				
	2 Series 2				
	3 Series 3				
	4 Series 4				
	5 Series 5				
6 Series 6					
	2 Series 2	7 7"			
	2C Series 2C				
	3 Series 3				

* 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.

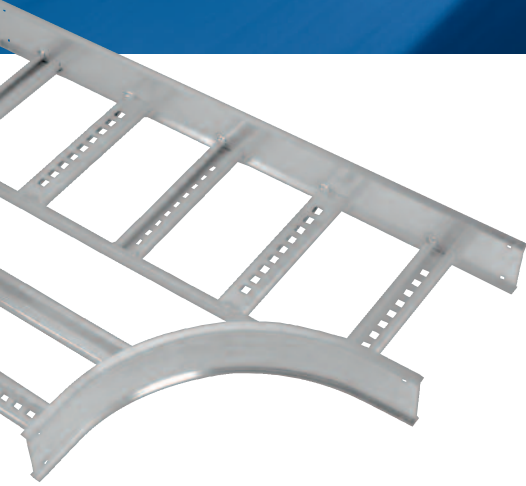
Straight section - steel

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 MSH Hot dip galvanized steel MSS Stainless steel 316*	1 Series 1**	3 3 5/8"	06 6"	L06 6" rung spacing	144 12 ft	
			09 9"	L09 9" rung spacing	288 24 ft	
			12 12"	L12 12" rung spacing	3 3 m	
			18 18"	V Ventilated	6 6 m	
			24 24"	S Solid trough		
		3 Series 3	30 30"			
		2 Series 2	5 5"	36 36"		
		4 Series 4				
		5 Series 5				
		0 Series 0**	6 6"			
		1 Series 1				
		3 Series 3				
		4 Series 4				
		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.



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)	H-Style fitting (Aluminium only)
<p>Fittings constructed with the siderail flanges on the inside only, creating a U-shaped fitting style.</p> <p>Features:</p> <ul style="list-style-type: none"> ● Simple, functional design ● Tangents on fittings ● 7" splice plate (aluminium splice plates 'snap-in' for added convenience) <p>Benefits:</p> <ul style="list-style-type: none"> ● 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 	<p>Fittings constructed with the siderail having inner and outer flanges, creating a H-shaped fitting style.</p> <p>Features:</p> <ul style="list-style-type: none"> ● Premium yet simple design ● 3" tangents on fittings ● 7" splice plate (aluminium splice plates 'snap-in' for added convenience) <p>Benefits:</p> <ul style="list-style-type: none"> ● 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

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

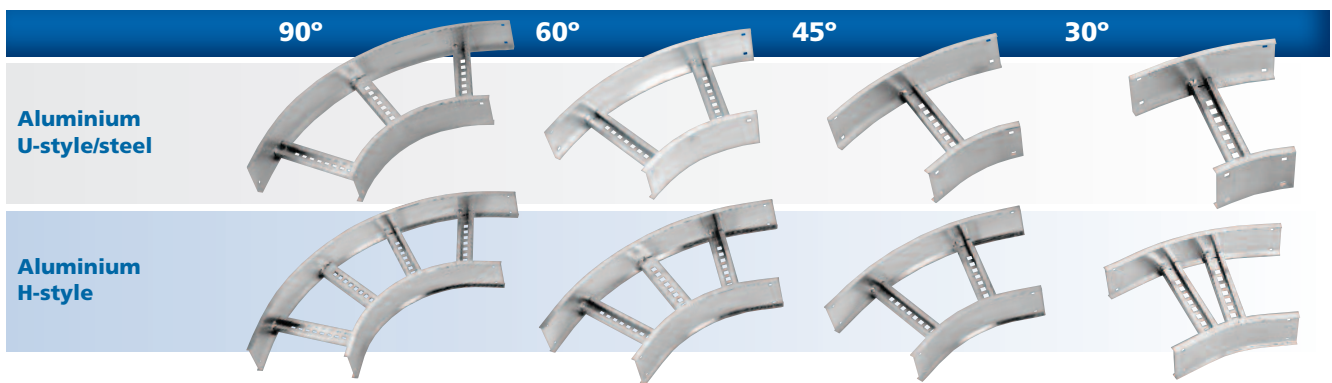
Select the preferred component parts and create the specific part number as per the example shown.

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"				
	4 4"	36 36"				
MSHF Hot dip galvanized steel U-style	5 5"					
	6 6"					
MSSF Stainless steel 316* U-style	7 7"					

* Stainless steel 304 is available to special order.

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





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

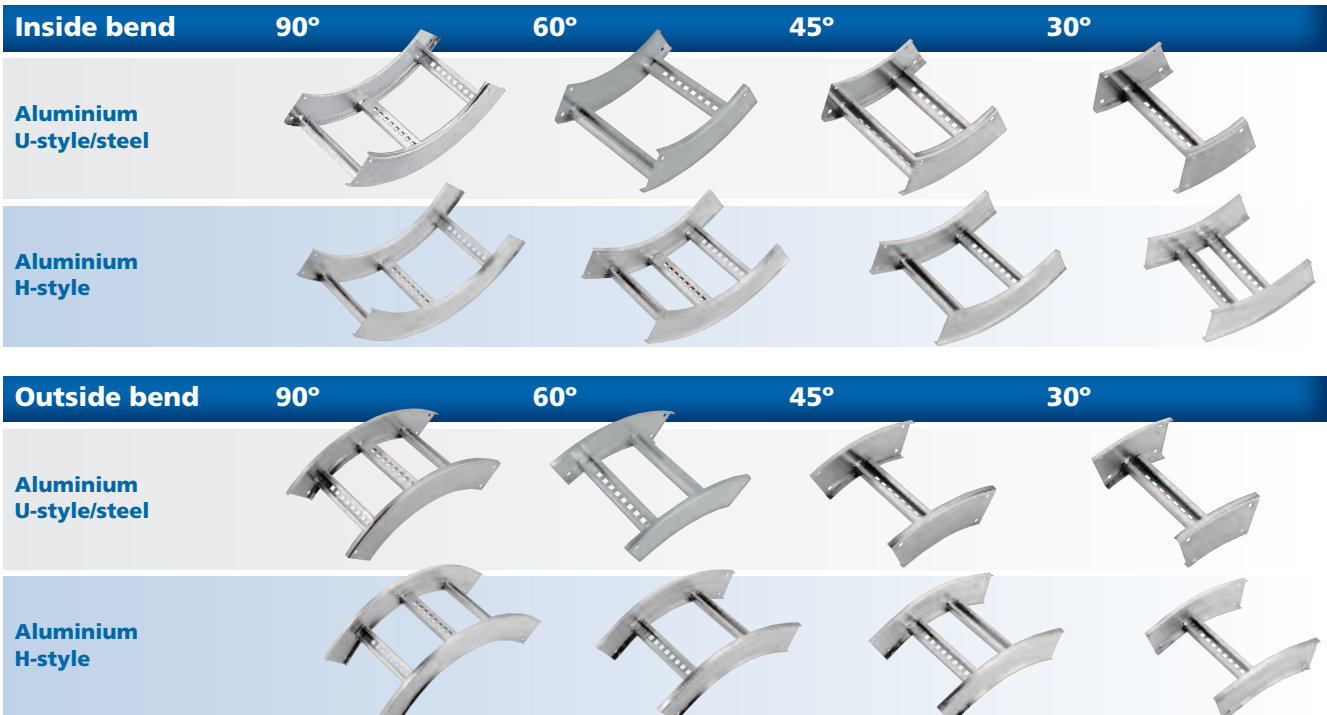
Select the preferred component parts and create the specific part number as per the example shown.

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"				
	5 5"					
MSSF Stainless steel 316* U-style	6 6"					
	7 7"					

* Stainless steel 304 is available to special order.

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



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

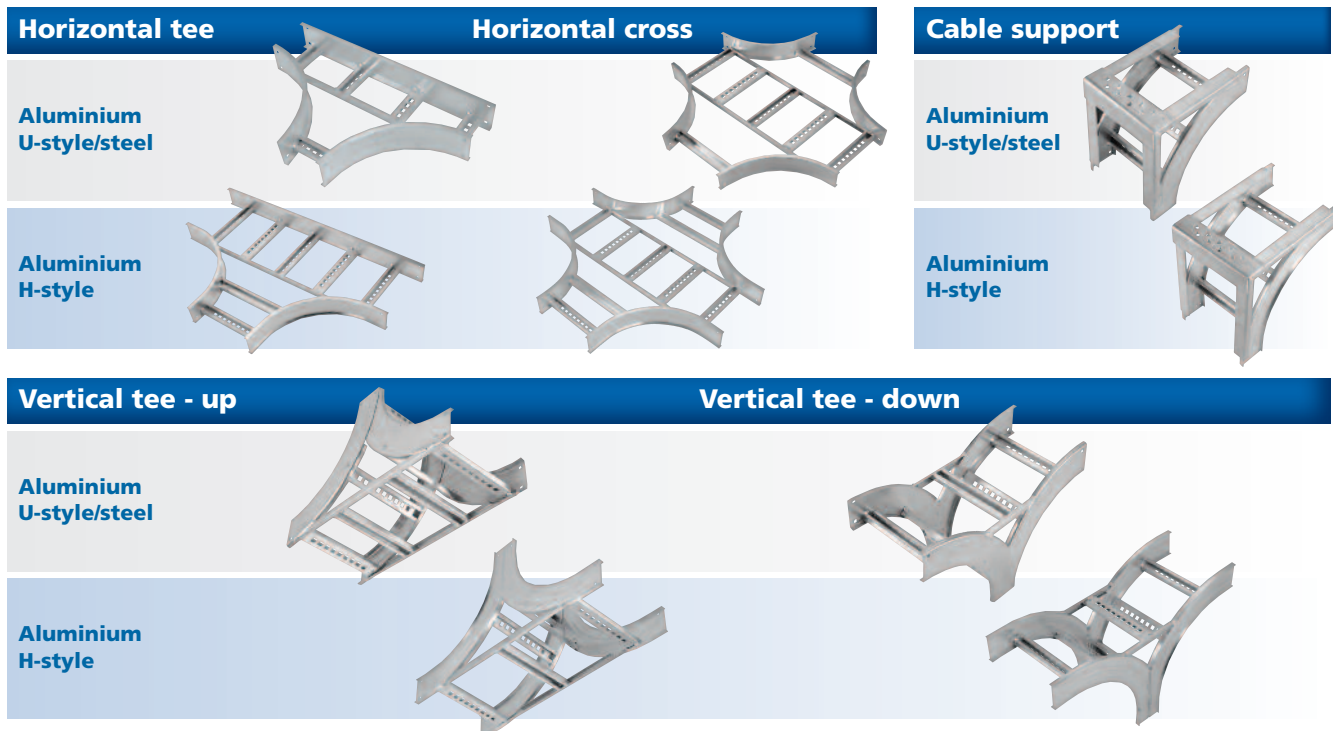
Select the preferred component parts and create the specific part number as per the example shown.

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 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

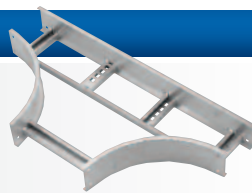
Fitting material & siderail style	Siderail height	Ladder width 1	Ladder width 2	Bottom type	Fitting type	Nominal radius
MAUF Aluminium U-style	4 4"	06 6"	09 9"	L Ladder	ET Horizontal expanding tee	12 12"
MAHF Aluminium H-style	5 5"	09 9"	12 12"	V Ventilated	EX Horizontal expanding cross	24 24"
	6 6"	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"					
	5 5"					
MSSF Stainless steel 316* U-style	6 6"					
	7 7"					

* Stainless steel 304 is available to special order.

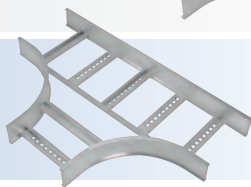
Note: Aluminium U-style and H-style fittings are interchangeable.

Expanding tee

Aluminium U-style/steel

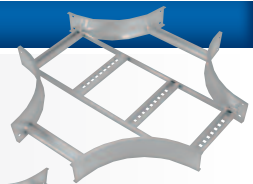


Aluminium H-style

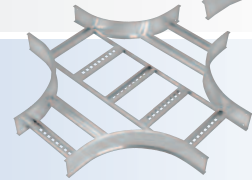


Expanding cross

Aluminium U-style/steel



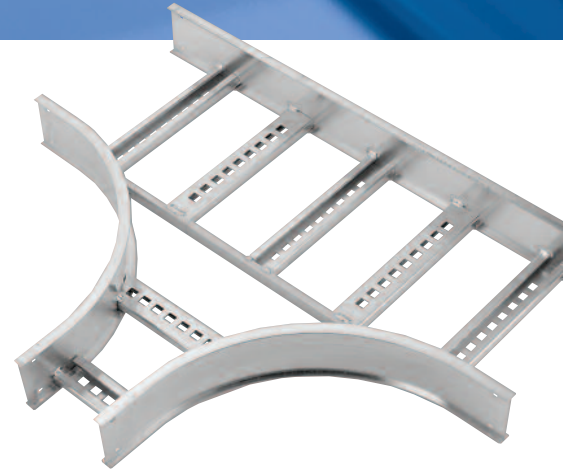
Aluminium H-style



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

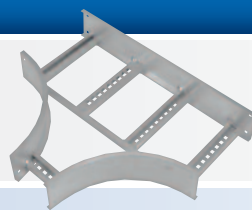
Fitting material & siderail style	Siderail height	Ladder width 1	Ladder width 2	Bottom type	Fitting type	Nominal radius
MAUF Aluminium U-style	4 4"	09 9"	06 6"	L Ladder	RT Horizontal reducing tee	12 12"
MAHF Aluminium H-style	5 5"	12 12"	09 9"	V Ventilated		24 24"
	6 6"	18 18"	12 12"	S Solid trough	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

* Stainless steel 304 is available to special order.

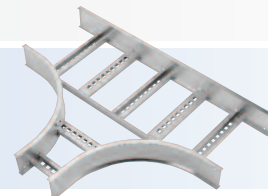
Note: Aluminum U-style and H-style fittings are interchangeable.

Horizontal reducing tee

Aluminium U-style/steel



Aluminium H-style





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

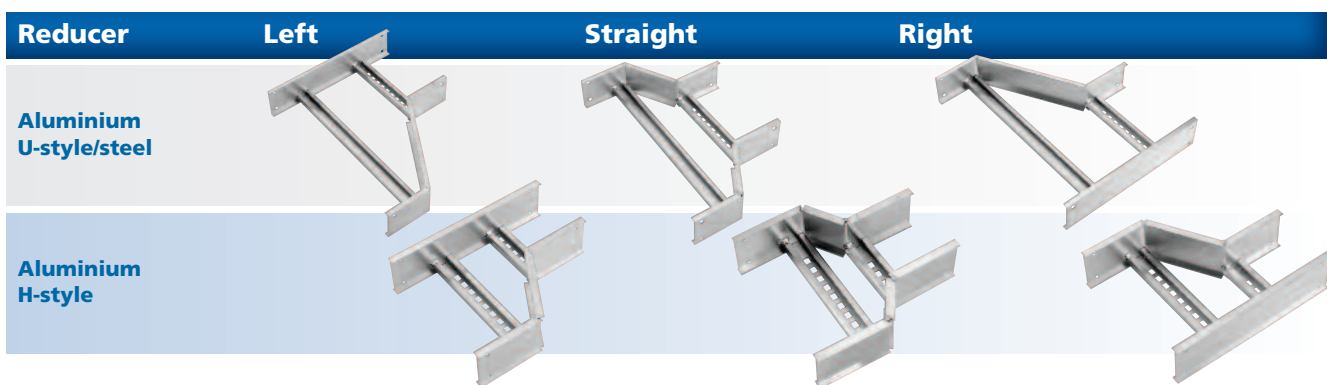
Select the preferred component parts and create the specific part number as per the example shown.

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"		
MSPF Pre-galvanized steel U-style	3 3 5/8"	30 30"	24 24"		
	4 4"	36 36"	30 30"		
MSHF Hot dip galvanized steel U-style	5 5"				
	6 6"				
MSSF Stainless steel 316* U-style	7 7"				

* Stainless steel 304 is available to special order.

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



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

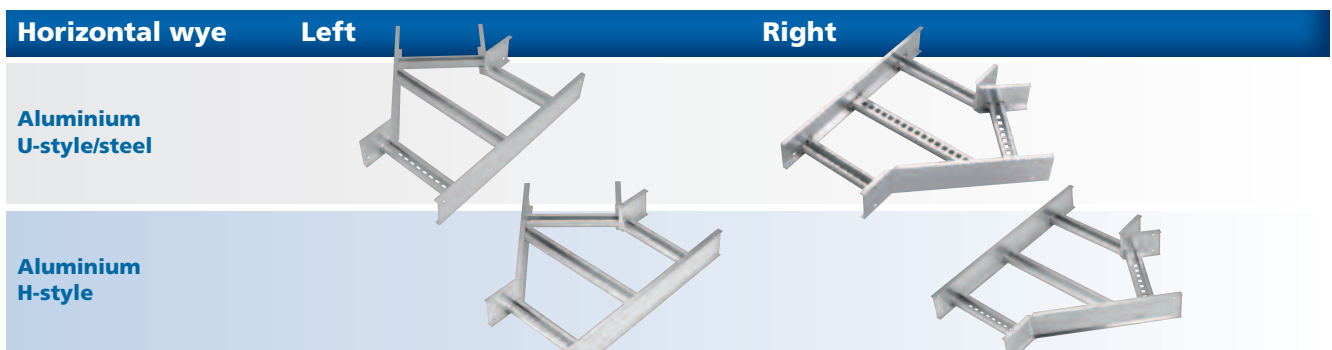
Select the preferred component parts and create the specific part number as per the example shown.

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"		
	4 4"	36 36"		
MSHF Hot dip galvanized steel U-style	5 5"			
	6 6"			
MSSF Stainless steel 316* U-style	7 7"			

* Stainless steel 304 is available to special order.

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

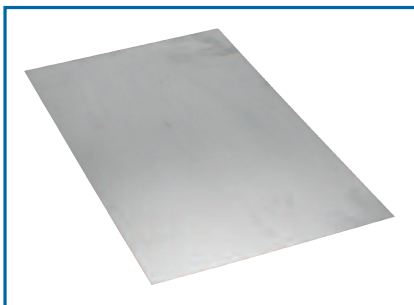




Covers are available for all cable ladder widths and material types, in a range of styles - solid, ventilated or peaked - for varying installation needs.

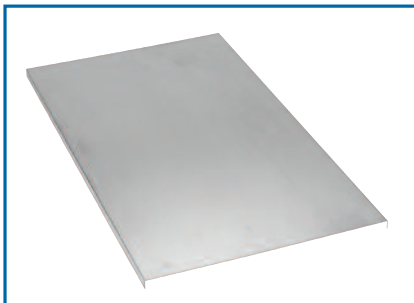
Covers provide mechanical protection to cable runs and should be installed where falling objects may damage cables or where vertical cable ladder run is accessible by pedestrian or vehicular traffic.

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.



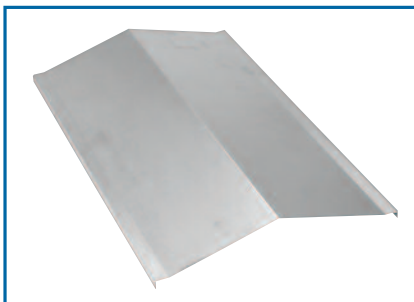
Solid flanged cover

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.

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 <small>* Peaked covers greater than 12" wide available in 72" and 3 m lengths only.</small>	1 For cable ladder series: MAH-0-4, MAH-1-4	06 6" 09 9"	SNC Solid non-flanged cover	72 72" 144 12 ft
	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	12 12" 18 18" 24 24" 30 30"	SFC Solid flanged cover VFC Ventilated flanged cover	3 3 m
	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	36 36"	PFC Peaked flanged cover*	

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 MSHW Hot dip galvanized steel* MSSW Stainless steel 316**	06 6" 09 9" 12 12" 18 18" 24 24" 30 30" 36 36"	SNC Solid non-flanged cover SFC Solid flanged cover VFC Ventilated flanged cover PFC Peaked flanged cover	72 72" 144 12 ft 3 3 m 15 1.5 m*

* 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.

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"
	12 12"			60 60°	36 36"
MSPW Pre-galvanized steel	18 18"	VFC Ventilated flanged cover		90 90°	48 48"
MSHW Hot dip galvanized steel	24 24"	PFC Peaked flanged cover**			
MSSW Stainless steel 316*	30 30"				
	36 36"	PVC Peaked vented flanged cover**			

* 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"			45 45°	24 24"
	6 6"	12 12"	SFC Solid flanged cover		60 60°	36 36"
	7 7"	18 18"	VFC Ventilated flanged cover		90 90°	48 48"
		24 24"				
MSPW Pre-galvanized steel	3 3 5/8"	30 30"	PFC Peaked flanged cover**			
	4 4"	36 36"	PVC Peaked vented flanged cover**			
MSHW Hot dip galvanized steel	5 5"					
MSSW Stainless steel 316*	6 6"					
	7 7"					

* Stainless steel 304 is available to special order.
** Peaked covers are not available in pre-galvanized steel.

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"			

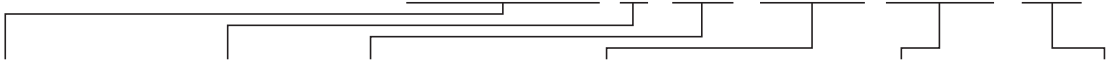
* Stainless steel 304 is available to special order.

** 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"			
	4 4"	36 36"			
MSHW Hot dip galvanized steel	5 5"				
MSSW Stainless steel 316*	6 6"				
	7 7"				

* Stainless steel 304 is available to special order.

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"		ET Horizontal expanding tee	24 24"
MSPW Pre-galvanized steel	12 12"	12 12"	SFC Solid flanged cover	EX Horizontal expanding cross	36 36"
MSHW Hot dip galvanized steel	18 18"	18 18"			48 48"
MSSW Stainless steel 316*	24 24"	24 24"	VFC Ventilated flanged cover	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.	
	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"		HSR Horizontal reducer - straight
MSPW Pre-galvanized steel	18 18"	12 12"	SFC Solid flanged cover	HRR Horizontal reducer - right
MSHW Hot dip galvanized steel	24 24"	18 18"		
MSSW Stainless steel 316*	30 30"	24 24"	VFC Ventilated flanged cover	Note: for reduction, ladder width 2 should be less than ladder width 1.
	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"		HYL Horizontal wye - left
MSPW Pre-galvanized steel	12 12"	SFC Solid flanged cover	
MSHW Hot dip galvanized steel	18 18"		
MSSW Stainless steel 316*	24 24"	VFC Ventilated flanged cover	
	30 30"		
	36 36"		

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

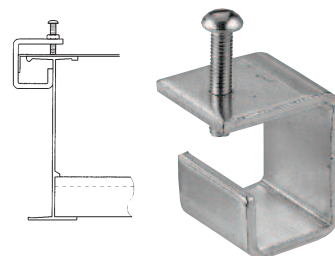
Note: when using the heavy duty cover clamp, only half the quantity of pieces are required.

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

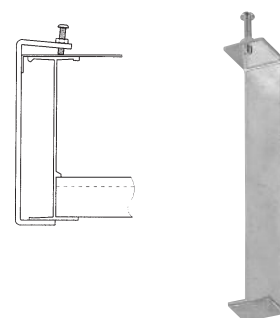


Cover clamp

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: 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

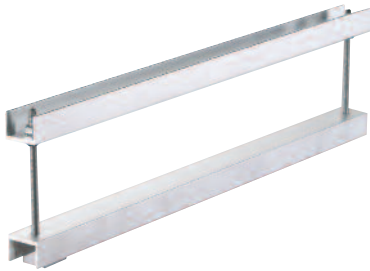
Wrap around design offers added protection for rugged applications and outdoor conditions. Hardware included.

Part No.	Material/Ladder type	Part No. variable (*)	Part No. variable (+)
WAB-(*)-(+)-HCC	Aluminium	Replace (*) with single digit reference for siderail height: 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-(*)-(+)-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.



Extreme heavy duty cover clamp

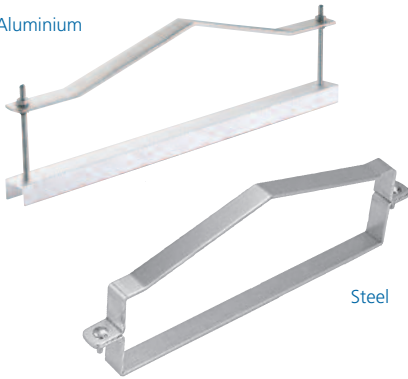


Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.

Part No.	Material/Ladder type	Part No. variable (*)	Part No. variable (+)
WAB-(*)-(+)-ECC	Aluminium	Replace (*) with single digit reference for siderail height: 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"

Heavy duty peaked cover clamp

Aluminium



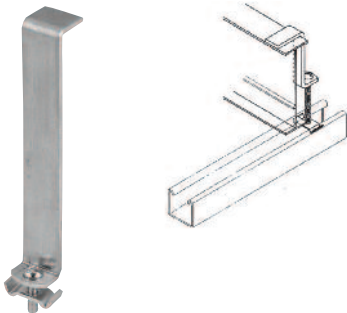
Steel

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:	Replace (+) with double digit reference for ladder width:
WSP-(*)-(+)-HPC	Steel (pre-galvanized)	3 = 3 5/8" 4 = 4"	06 = 6" 09 = 9" 12 = 12"
WSH-(*)-(+)-HPC	Steel (hot dip galvanized)	5 = 5" 6 = 6" 7 = 7"	18 = 18" 24 = 24" 30 = 30"
WSS-(*)-(+)-HPC	Stainless steel 316		36 = 36"

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

Combination hold down cover clamp

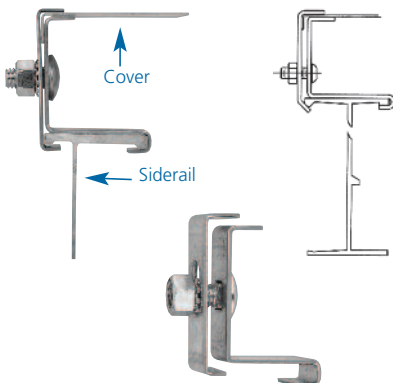


Designed to secure flat and flanged covers with hold down feature.

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

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

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: 06 = 6" 09 = 9" 12 = 12" 18 = 18" 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: 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"
WSP-(*)-SCS	Steel (pre-galvanized)	
	Steel (hot dip galvanized)	
	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: 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.

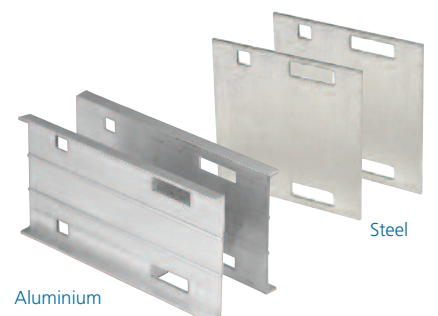


Expansion splice plate

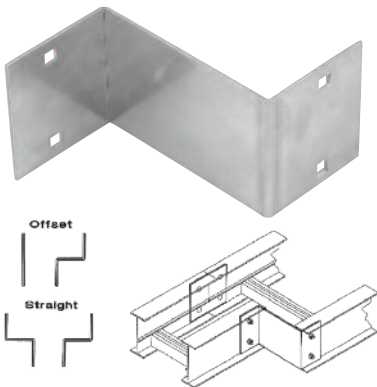
Allows for a 1" expansion or contraction of the cable ladder system. Aluminium versions 'snap-in' and are designed to lock into place for easy alignment and installation. Packaged in pairs with hardware.

Part No.	Material/Ladder type	Part No. variable (*)
WAB-(*)-ESP	Aluminium	Replace (*) with single digit reference for siderail height: 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.



Reducing splice plate



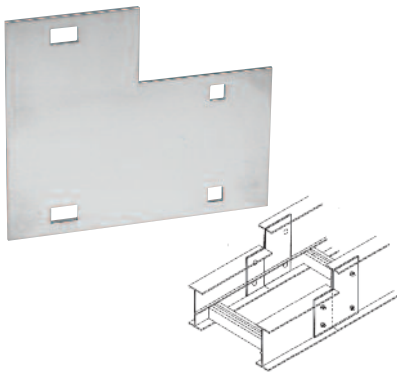
Use in pairs to provide a straight reduction or with a standard splice plate for an offset reduction. Packaged with hardware.

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:	Replace (+) with double digit reference for reduction value - single figures are preceded by '0' and decimals use first digit.
WSP-(*)-(+)-RSP	Steel (pre-galvanized)		
WSH-(*)-(+)-RSP	Steel (hot dip galvanized)	3 = 3 5/8" 4 = 4"	e.g.: 03 = 3" 15 = 15"
WSS-(*)-(+)-RSP	Stainless steel	5 = 5" 6 = 6" 7 = 7"	01 = 1.5" 04 = 4.5"

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

Step down splice plate

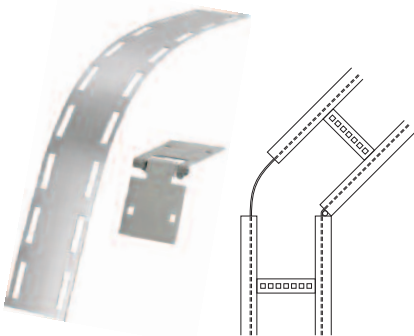


Connects siderails of different heights. Hardware included.

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

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

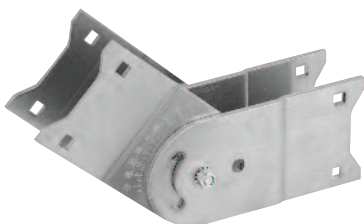


Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished in pairs with hardware.

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

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:
WSP-(*)-VSP	Steel (pre-galvanized)	
WSH-(*)-VSP	Steel (hot dip galvanized)	3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7"
WSS-(*)-VSP	Stainless steel 316	

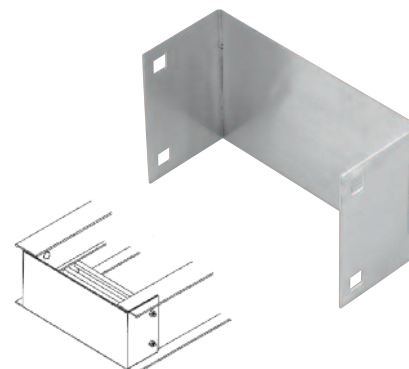
Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

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:	Replace (+) with double digit reference for ladder width:
WSP-(*)-(+)-CEP	Steel (pre-galvanized)		06 = 6" 09 = 9" 12 = 12"
WSH-(*)-(+)-CEP	Steel (hot dip galvanized)	3 = 3 5/8" 4 = 4"	18 = 18" 24 = 24" 30 = 30"
WSS-(*)-(+)-CEP	Stainless steel 316	5 = 5" 6 = 6" 7 = 7"	36 = 36"

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

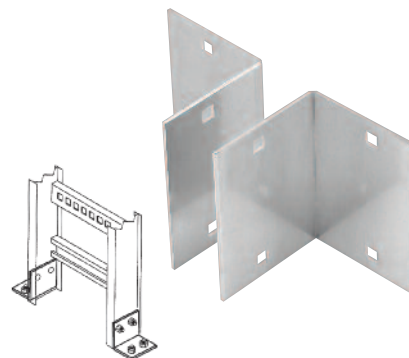


Box to cable ladder plate

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:
WSP-(*)-BSP	Steel (pre-galvanized)	3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7"
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.

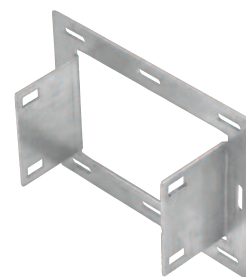


Frame type cable ladder to box plate

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:	Replace (+) with double digit reference for ladder width:
WSP-(*)-(+)-FBP	Steel (pre-galvanized)		06 = 6" 09 = 9" 12 = 12"
WSH-(*)-(+)-FBP	Steel (hot dip galvanized)	3 = 3 5/8" 4 = 4"	18 = 18" 24 = 24" 30 = 30"
WSS-(*)-(+)-FBP	Stainless steel 316	5 = 5" 6 = 6" 7 = 7"	36 = 36"

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.

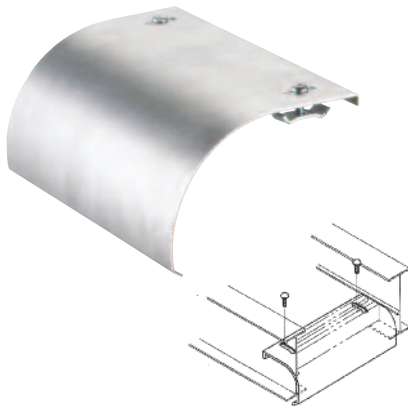
Note: Not Fire Rated. Fire Stop not included.

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

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



Drop-out

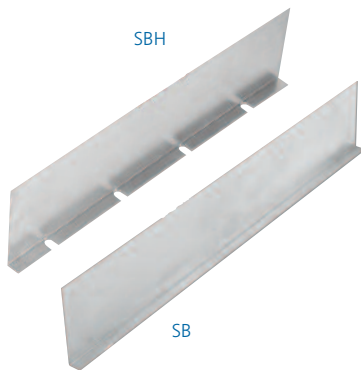


Designed to provide a smooth radiused surface at any position on the ladder or trough bottom. Drop-outs are easily attached using hardware provided. Standard Radius = 4".

Part No.	Material	Bottom type	Part No. variable (*)
WAB-(*)-DO	Aluminium	Ladder/Ventilated	Replace (*) with double digit reference for ladder width: 06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 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



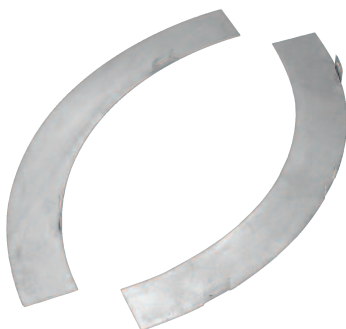
Barrier strips provide a method for separating cables in cable ladder systems. Easily installed using supplied hardware or barrier strip clamps (sold separately).

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: WAB = Aluminium WSP = Steel (pre-galvanized) WSH = Steel (hot dip galvanized) WSS = Stainless steel 316	Replace (+) with single digit reference for siderail height: 3 = 3 5/8" 4 = 4" 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: WAB = Aluminium WSP = Steel (pre-galvanized) WSH = Steel (hot dip galv.) WSS = Stainless steel 316	Replace (+) with bend angle: 90 = 90° 60 = 60° 45 = 45° 30 = 30°
(*)-4-VIB-(+)-(%)	4"		
(*)-5-VIB-(+)-(%)	5"		Replace (%) with bend radius: 12 = 12" 24 = 24" 36 = 36" 48 = 48"
(*)-6-VIB-(+)-(%)	6"		
(*)-7-VIB-(+)-(%)	7"		
Vertical outside bend			
(*)-3-VOB-(+)-(%)	3 5/8"	Replace (*) with three letter reference for material type: WAB = Aluminium WSP = Steel (pre-galvanized) WSH = Steel (hot dip galv.) WSS = Stainless steel 316	Replace (+) with bend angle: 90 = 90° 60 = 60° 45 = 45° 30 = 30°
(*)-4-VOB-(+)-(%)	4"		
(*)-5-VOB-(+)-(%)	5"		Replace (%) with bend radius: 12 = 12" 24 = 24" 36 = 36" 48 = 48"
(*)-6-VOB-(+)-(%)	6"		
(*)-7-VOB-(+)-(%)	7"		

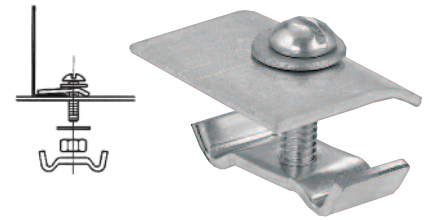
Note: 3 5/8" siderail available for steel cable ladder only. Stainless steel 304 available to special order.

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

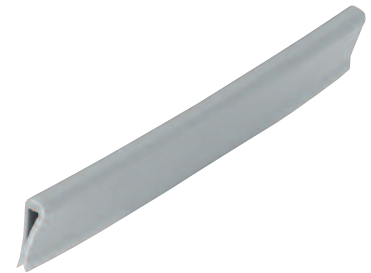
Stainless steel 304 available to special order.



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.

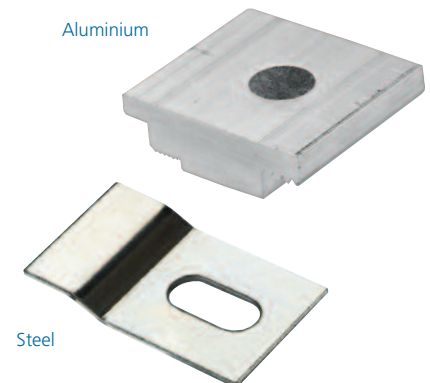


Combination hold down/expansion guide clamp

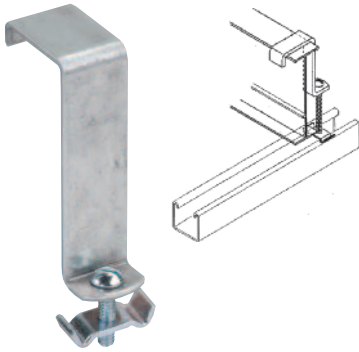
Order hardware separately.

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.



Hold down clamp

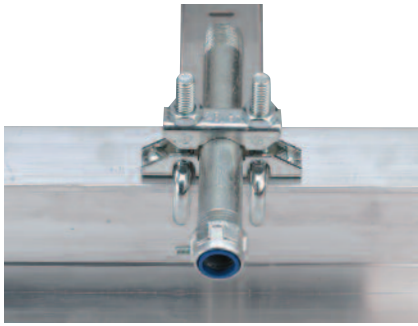


Designed to secure cable ladder to support system. Hardware included.

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

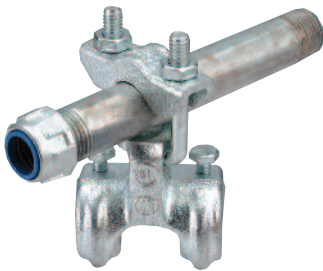
Conduit to cable ladder clamp



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

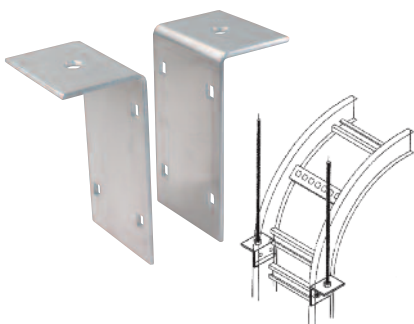


Swivel clamp for aluminium and steel cable ladder with regular or reinforced flanges. Material: zinc plated malleable iron hub, with steel U-bolt included.

- 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: 3 = 3 5/8" 4 = 4" 5 = 5" 6 = 6" 7 = 7"
WSP-(*)-VTH	Steel (pre-galvanized)	
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.

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.

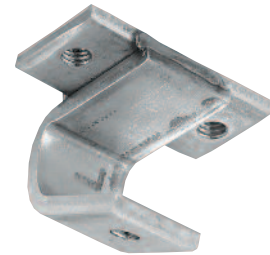


Cable ladder clamp

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

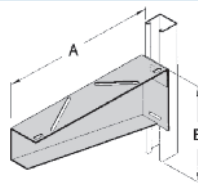
Stainless steel 304 available to special order.



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

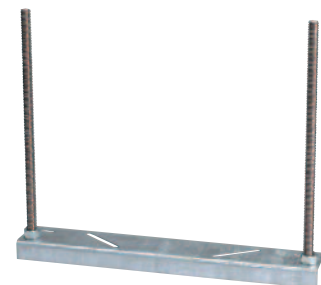
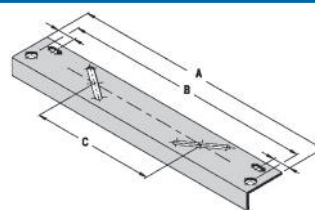


Note: order hold down clips separately - Part No. WSS-SHC.

Cross member

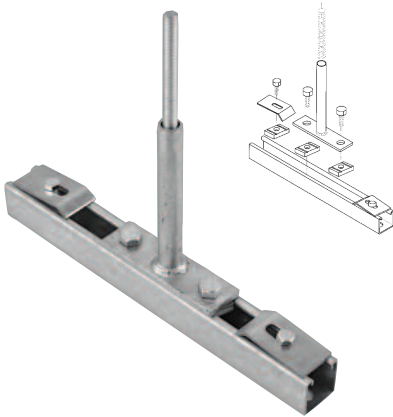
Standard finish: hot dip galvanized steel. Hanging rods not included.

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.

Centre support bracket

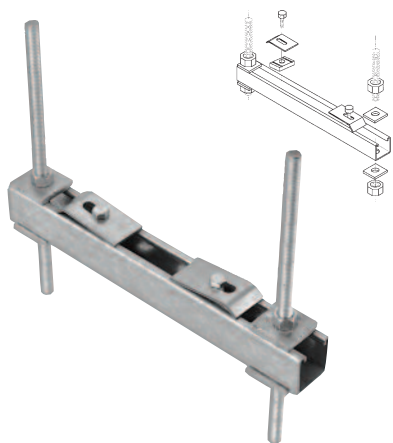


Cable support brackets are designed to reduce cable pulling by allowing access from both sides of the cable ladder. Installation cost and time are reduced significantly by single point suspension.

- 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: 18 = 18" (for 6" cable ladder) 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.

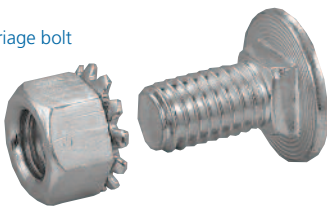
Uses 1/2" threaded rod (order separately).

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

Stainless steel 304 available to special order.

Tray hardware

Carriage bolt



Self-drilling tapping screw

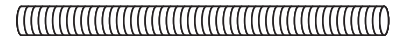


Part No.	Material	Description
WSP-1/4-CB	Zinc plated steel	Square shoulder self-positioning 1/4" carriage bolt
WSP-3/8-CB	Zinc plated steel	Square shoulder self-positioning 3/8" carriage bolt
WSP-1/4-HN	Zinc plated steel	1/4" Hex. nut
WSP-3/8-HN	Zinc plated steel	3/8" Hex. nut
WSS-3/8-CB	Stainless steel 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.

Threaded rod

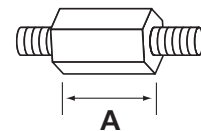
Part No.	Size	Threads/inch	Design load	Part No. variable (*)
H104-1/4x3(*)	1/4"	20	150 lb	Replace (*) with reference for material type: EG = Electro-galvanized HDG = Hot dip galvanized SS4 = Stainless steel 304 SS6 = Stainless steel 316
H104-3/8x3(*)	3/8"	16	610 lb	
H104-1/2x3(*)	1/2"	13	1130 lb	
H104-5/8x3(*)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

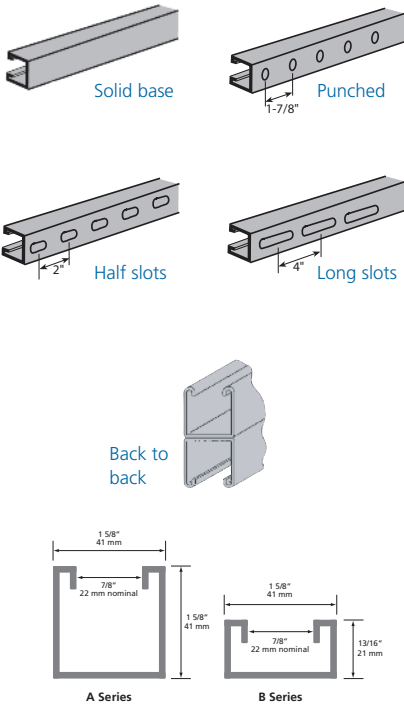
Threaded rod coupling

Part No.	Rod size	A	Part No. variable (*)
H119-1/4(*)	1/4"	7/8"	Replace (*) with reference for material type: EG = Electro-galvanized HDG = Hot dip galvanized SS4 = Stainless steel 304 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.

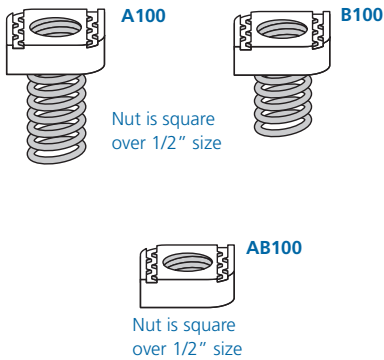
Superstrut® 2.5 mm (12 Ga.) & 2 mm (14 Ga.) channel - type A and type B



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:	Replace (+) with ref. for material/finish type:
A1200-P-(*)(+)M	A1400-P-(*)(+)M	Punched	10 = 10 ft	AL = Aluminium
A1200-HS-(*)(+)M	A1400-HS-(*)(+)M	Half slots	20 = 20 ft	HDG = Hot dip galvanized
A1200-S-(*)(+)M	A1400-S-(*)(+)M	Long slots	3 = 3 m	PG = Pre-galvanized
			6 = 6 m	T304 = Stainless steel 304
A1202-(*)(+)M	A1402-(*)(+)M	Back to back		T316 = Stainless steel 316
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:	Replace (+) with ref. for material/finish type:
B1200-P-(*)(+)M	B1400-P-(*)(+)M	Punched	10 = 10 ft	AL = Aluminium
B1200-HS-(*)(+)M	B1400-HS-(*)(+)M	Half slots	20 = 20 ft	HDG = Hot dip galvanized
B1200-S-(*)(+)M	B1400-S-(*)(+)M	Long slots	3 = 3 m	PG = Pre-galvanized
			6 = 6 m	T304 = Stainless steel 304
B1202-(*)(+)M	B1402-(*)(+)M	Back to back		T316 = Stainless steel 316

Channel nuts

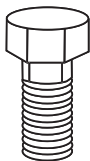


Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

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:	Replace (+) with ref. for material/finish type:
B100-(*)(+)	Spring nut	1/4 = 1/4"/M6 5/16 = 5/16"/M8	EG = Electro-galvanized
		3/8 = 3/8"/M10 1/2 = 1/2"/M12	HDG = Hot dip galvanized
AB100-(*)(+)	Springless nut	5/8 = 5/8"/M16 3/4 = 3/4"/M20	SS4 = Stainless steel 304
		7/8 = 7/8"/M22	SS6 = Stainless steel 316

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:	Replace (+) with reference for material/finish type:
		1/4x100 = 1/4" x 1"	EG = Electro-galvanized
		1/4x150 = 1/4" x 1 1/2"	HDG = Hot dip galvanized
		3/8x100 = 3/8" x 1"	SS4 = Stainless steel 304
		3/8x150 = 3/8" x 1 1/2"	SS6 = Stainless steel 316
		1/2x100 = 1/2" x 1"	
		1/2x150 = 1/2" x 1 1/2"	

Cap screw available in metric sizes to special order - contact 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:

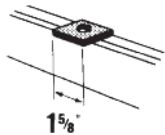
Note: Hot dip galvanized HDG or stainless steel fittings (SS6 or SS4) are recommended to assemble aluminum channel.

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

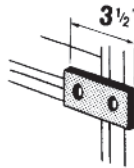
Standard dimensions:

Hole spacing: 13/16" from end, 1 7/8" centres

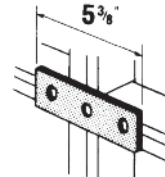
Hole size: 9/16" diameter, fitting width 1 5/8"



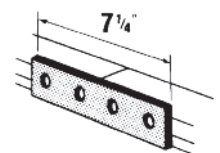
Part No.	Hole size
AB241-1/4(*)	1/4"
AB241-3/8(*)	3/8"
AB241-1/2(*)	1/2"
AB241-3/4(*)	3/4"



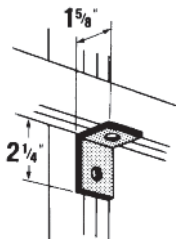
AB206(*)



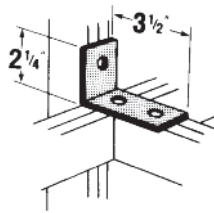
AB207(*)



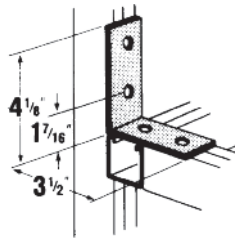
X207(*)



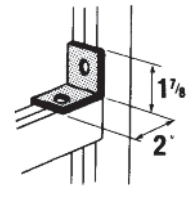
AB201(*)



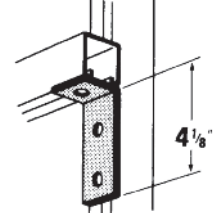
AB204(*)



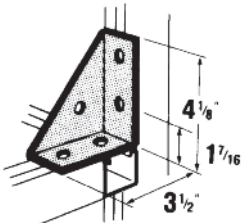
AB205(*)



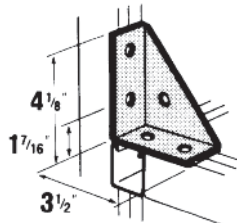
AB202(*)



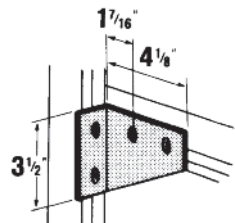
AB203(*)



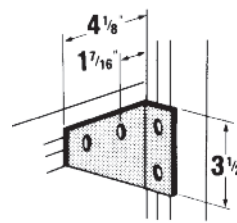
AB213(*)



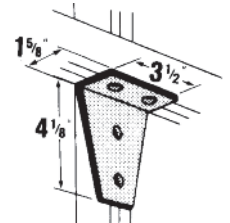
AB214(*)



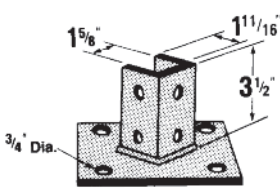
AB254-L(*)



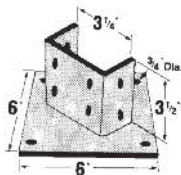
AB254-R(*)



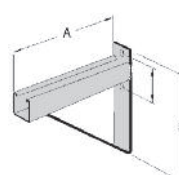
X289(*)



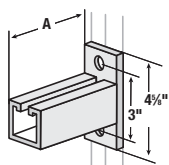
AP232(*)



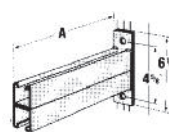
AP235H(*)



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

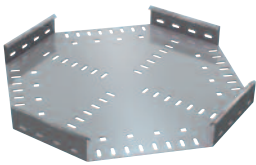


Part No.	A	Load
S251-14(*)	14 1/2"	1650 lb
S251-20(*)	20 1/2"	800 lb
S251-26(*)	26 1/2"	650 lb
S251-32(*)	32 1/2"	500 lb
S251-38(*)	38 1/2"	500 lb

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

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

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.

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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