

The Benefits of Cable Tray

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is more cost efficient, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Avoiding the system selection process or deferring it until construction, often result in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.

Cost Efficiency

Extensive experience has shown that the initial cost of a cable tray installation (including conductor, material and installation labor costs) may be as much as 60% less than a comparable conduit wiring system.

Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can run up to 50 percent less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of an installation, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:

- Lower engineering and maintenance costs
- Less need to reconfigure system as needs change
- Less down time for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

Reliability

Cable tray systems offer unsurpassed reliability, resulting in less maintenance and down time—important considerations for all installations and especially for industries such as data communications and financial services.

In addition, since cable tray is an open system, moisture build up problems are eliminated and damage to cable insulation during installation is also greatly reduced.

Adaptability

A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating. More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point, and initial design considerations can build-in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.

Maintenance

Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive.

The physical condition and status of both the cable tray and cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As was noted above, changing or adding cables can also be accomplished easily.

Another comparative benefit of cable tray systems is that they do not act as channels of moisture paths, as conduit wiring systems do. Conduit systems tend to collect condensation resulting from changes in temperature and then channel the moisture to electrical equipment, where it can lead to corrosion and failure.

Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit suffers significant damage and thermoplastic insulation may actually fuse to the conduit.

Safety

Cable wiring systems lack the inherent safety concerns of conduit systems.

By its nature, a conduit wiring system can serve as a flow-through for corrosive, explosive and toxic gases in the same way that it channels moisture.

The conduit installation process can also present a safety issue for electricians. The process requires that a conduit system be installed from one enclosure to another before pulling in the conductors, leaving the electricians exposed to any live, energized equipment that may be in the enclosures. In contrast, installers can pull tray cables from near one termination enclosure to the next before they are inserted into the enclosures and then terminated.


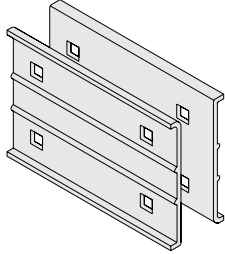
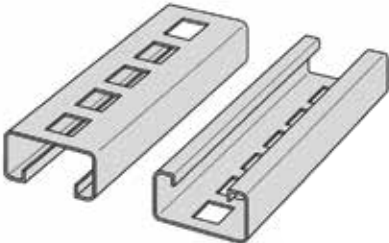
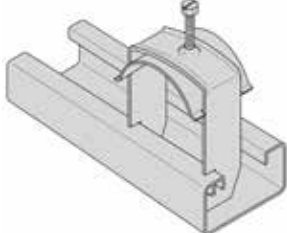
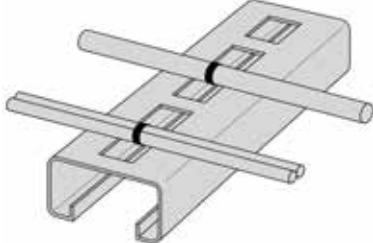
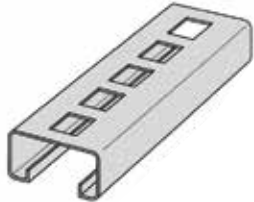
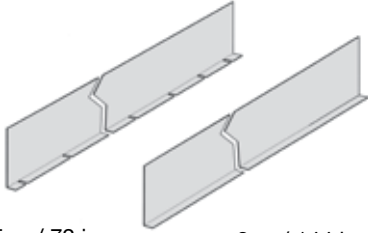
Finally, in installations where cable tray can be used as the equipment grounding conductor (per NEC standards), it is easy to visually check the system components as well as conduct checks for electrical continuity.

Glossary of Terms

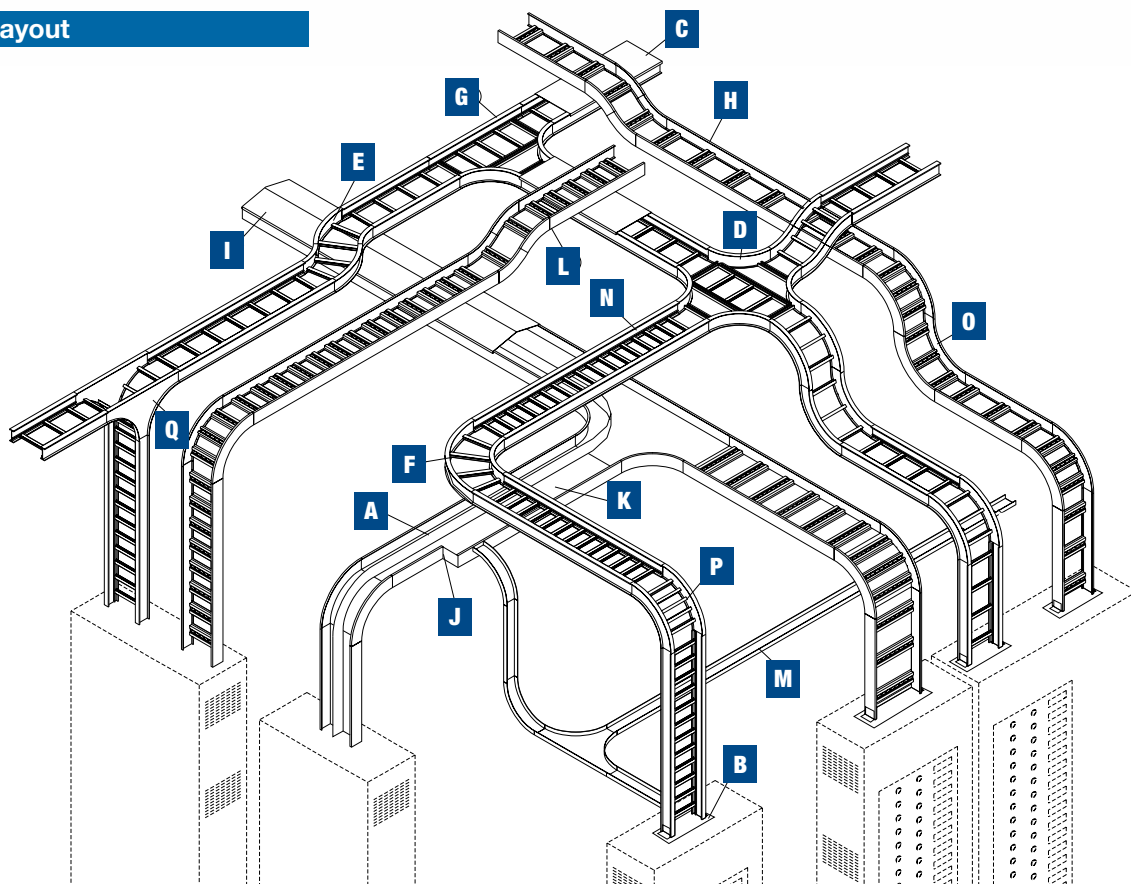


- Accessories.....** Devices which are used to supplement the function of straight sections and fittings, and include such items as dropouts, covers, conduit adapters, hold-down devices and dividers.
- Cable Tray Connector** A device which joins cable tray straight sections or fittings, or both. The basic types of connectors are: 1. Rigid, 2. Expansion, 3. Adjustable, 4. Reducer.
- Cable Tray Fitting.....** A device which is used to change the direction, elevation or width of a cable tray system.
- Cable Tray Support** A device which provides adequate means for supporting cable tray sections or fittings, or both. The basic types of cable tray supports are: 1. Cantilever bracket, 2. Trapeze, 3. Individual and suspension.
- Channel Cable Tray** A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding 6 inches in width.
- Ladder Cable Tray.....** A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.
- Solid Bottom Cable Tray** A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.
- One-Piece / Unit Cable Tray.....** A prefabricated metal structure consisting of a one-piece solid or ventilated bottom.
- Horizontal Cross** A cable tray fitting which is suitable for joining cable trays in four directions at 90-degree intervals in the same plane.
- Horizontal Bend** A cable tray fitting which changes the direction in the same plane.
- Horizontal Tee** A cable tray fitting which is suitable for joining cable trays in three directions at 90 degree intervals in the same plane.
- Metallic Cable Tray System** A metallic assembly of cable tray straight sections, fittings, and accessories that forms a rigid structural system to support cables.
- Reducer** A cable tray fitting which is suitable for joining cable trays of different widths in the same plane. A straight reducer has two symmetrical offset sides. A right-hand reducer, when viewed from the large end, has a straight side on the right. A left-hand reducer, when viewed from the large end, has a straight side on the left.
- Straight Section** A length of cable tray which has no change in direction or size.
- Ventilated Bottom.....** A cable tray bottom having openings sufficient for the passage of air and utilizing 75 percent or less of the plan area of the surface to support cables.
- Vertical Bend.....** A cable tray fitting which changes direction to a different plane. An inside vertical elbow changes direction upward from the horizontal plane. An outside vertical elbow changes direction downward from the horizontal plane.

Unique Design Features

<p>I-Beam Siderail (Aluminum)</p> <p>Maximum structural strength</p>		<p>Snap-in Splice plates (Aluminum)</p> <p>Snap-in aluminum splice plates for easy installation</p>	
<p>Alternating Rungs (Aluminum & Steel)</p> <p>Alternating rungs for top and bottom accessory installation and cable lashing</p>		<p>Continuous Open Slot (Aluminum & Steel)</p> <p>Rungs have continuous open slot to accept standard strut pipe clamps and provide complete barrier strip adjustability</p>	
<p>Ty-Rap® Cable Tie Slots (Aluminum & Steel)</p> <p>Exclusive Ty-Rap® cable tie slots on 1 in. centers on all ladder and ventilated bottoms. Secure cables without kinks and keeps cables uniform</p>		<p>Added Support (Aluminum & Steel)</p> <p>Aluminum and steel solid bottoms are constructed with a flat sheet for added cable protection</p>	
<p>Extra Wide Rung Design (Aluminum & Steel)</p> <p>Extra wide rung design for maximum cable bearing surface</p>		<p>Adjustable Barrier strips (Aluminum & Steel)</p> <p>Barrier strips are fully adjustable (side to side) for use in straight sections and fittings</p>	 <p>1.5 m / 72 in. 3 m / 144 in.</p>

Sample Plant Layout



Application	
COMMERCIAL	INDUSTRIAL
Schools	Petrochemical Plants
Hospitals	Automotive Plants
Office Buildings	Paper Plants
Airports	Food Processing
Casinos	Power Plants
Stadiums	Refineries
	Manufacturing
	Mining

Legend			
A	Barrier Strip	J	Right Reducer
B	Box Connector	K	Solid Tray
C	Flat Cover	L	Splice Connector
D	Horizontal Cross	M	Solid Channel Tray
E	Horizontal 45°	N	Ventilated Tray
F	Horizontal 90°	O	Vertical 90° Inside
G	Horizontal Tee	P	Vertical 90° Outside
H	Ladder Tray	Q	Vertical Tee
I	Peaked Cover		

Selection Process

A number of basic decisions must be made before a cable tray system can be specified. Thomas & Betts has developed a simple eight-step process to guide you in the process:

1. Select Material and Finish (p. A8)
2. Select the Tray Load Class (p. A16)
3. Select the Tray Type (p. A23)
4. Select the Tray Size (p. A23)
5. Select the Fittings (p. A24)
6. Consider Deflection (p. A25)
7. Consider Thermal Expansion & Contraction (p. A28)
8. Electrical Grounding Capacity (p. A29)

Each step is described in detail in the following pages. For many applications, however, you may also have to take the following into account:

- Weight of the installation, which affects the cost of the support structure and the ease of installation.
- Corrosion resistance of the material is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have a corrosive effect on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers), while exhibiting some corrosion pitting in standing salt water. Only the designer can quantify the various elements that affect the corrosion resistance of the cable tray system in a specific application. While Thomas & Betts can provide guidance, the designer is responsible for the final selection. For more information, see “Corrosion” section.
- Melting point and flammability rating are primarily concerns for nonmetallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- Relative cost varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the market.

1. Select Material and Finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion, and electrical considerations. Thomas & Betts offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosion-resistant finishes, including zinc, PVC and epoxy. Special paint is also available.

Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

Aluminum

Cable trays fabricated of extruded aluminum are often used for their high strength-to-Weight ratio, superior resistance to certain corrosive environments, and ease of installation. They also offer the advantages of being light Weight (approximately 50% that of a steel tray) and maintenance free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B® Cable Tray products are formed from the 6063 series alloys which by design are copper free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

Steel

Thomas & Betts steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost.

The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied and the composition of the steel. Thomas & Betts offers finishes and coatings to improve the corrosion resistance of steel. These include pre-galvanized, hot dip galvanized (after fabrication), epoxy and special paints.

Stainless Steel

Stainless steel offers high yield strength and high creep strength, at high ambient temperatures.

Thomas & Betts stainless steel cable tray is roll-formed from AISI Type 316/316L stainless steel.

Stainless steel is resistant to dyestuffs, organic chemicals, and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid. Carbon content is reduced to facilitate welding.

1. Select Material and Finish (cont'd)

Finishes

Electro-Galvanized Coatings

The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals, and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment.

Pre-Galvanized

Pre-galvanized, also known as mill-galvanized or hot dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of .90 ounces of zinc per square foot of steel, or .32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pre-galvanized steel is not generally recommended for outdoor use or in industrial environments.

Hot-Dip Galvanized

After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal.

Hot dip galvanizing after fabrication creates a much thicker coating than the pre-galvanized and electro-galvanized process, a minimum of 3.0 ounces per square foot of steel or 1.50 ounces per square foot on each side of the sheet (according to ASTM A123, grade 65).

The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

Other Coatings

Epoxy and special paint coatings are available on request.

1. Select Material and Finish (cont'd)

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Electrochemical Corrosion

Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalis, and salts contain ions, making water—especially salt water—an excellent electrolyte.

Common Types of Corrosion

Galvanic Corrosion

Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction and the extent of the corrosion depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals.

The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The Galvanic Series Table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), list metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

Galvanic Series Table

Anodic End	
1. Magnesium	25. 50Pb-50Sn solder
2. Magnesium alloys	26. Silver (passive)
3. Zinc	27. Type 304 stainless steel (active)
4. Galvanized steel	28. Type 316 stainless steel (active)
5. Naval brass (C46400)	29. Lead
6. Aluminum 5052H	30. Tin
7. Aluminum 3004	31. Muntz metal (C28000)
8. Aluminum 3003	32. Manganese bronze (C67500)
9. Aluminum 1100	33. Nickel (active)
10. Aluminum 6053	34. Inconel (active)
11. Alclad aluminum alloys	35. Cartridge brass (C26000)
12. Aluminum bronze (C61400)	36. Admiralty metal (C44300)
13. Cadmium	37. Red brass (C23000)
14. Copper (C11000)	38. Silicon bronze (C 65100)
15. Aluminum 2017	39. Copper nickel, 30% (C71500)
16. Aluminum 2024	40. Nickel (passive)
17. Low-carbon steel	41. Inconel (passive)
18. Wrought iron	42. Gold
19. Cast iron	43. Platinum
20. Monel	
21. Ni-resist	
22. Type 304 stainless steel (passive)	
23. Type 410 stainless steel (passive)	
24. Type 316 stainless steel (passive)	Cathodic End

1. Select Material and Finish (cont'd)

Pitting Corrosion

Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate the amount of damage.

Crevice Corrosion

Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

Erosion Corrosion

While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction. The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles. As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.

Intergranular Corrosion

Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly.

Corrosion is significantly affected by trace impurities which, at times, can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

Temperature greatly influences corrosion, sometimes increasing the rate of metal loss, (a rule-of-thumb guide is that a 30°C change in temperature results in a 10X change in corrosion rate). Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out then there can be no corrosion.

Stress-associated corrosion might occur when assemblies are poorly installed and/or fabricated, e.g., on-site welding or mechanical fastening. Premature failure can result from: corrosion fatigue, which can occur in any environment; stress corrosion cracking, which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied, (e.g., from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

Design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes, and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media. Design plays a significant role in exacerbating corrosion. Non-draining locations create liquid traps; local metal-to-metal (or metal-to-non-metal) contact points (e.g., mechanical assemblies (bolts) with washers or spacers), permit crevice corrosion and/or galvanic corrosion to occur. Areas that are poorly maintained, (e.g., surfaces are not regularly (or properly) washed and stubborn deposits remain on the metal surface), are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted there is a restricted supply of oxygen. Thus, metals (e.g., aluminum, stainless steels, zinc) that rely on oxygen to form protective corrosion films (oxides, hydroxides, carbonates, etc.) may be prone to localized pitting and/or crevice corrosion.

A further example of localized corrosion occurs when dissimilar metals contact each other in the presence of a corrodent, i.e., galvanic corrosion. Each metal will corrode but the one that is most active [anode] can be more corroded especially when there is a large surrounding area of the less active [cathodic] metal. It is wise to avoid small anodic areas. Some examples include: steel bolts [small area of anodic metal] in stainless steel plate, [large area of cathodic metal]; steel bolts in copper plate - the steel corrodes). There can be environmental influences, for example a fluid that contains active metallic species, for example copper ion contact with aluminum (copper picked up from aqueous solutions conveyed in copper pipe) - the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum - the aluminum corrodes very rapidly. These are examples of deposit corrosion.

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide (cont'd)

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

Chemical Species	Aluminum	HDG/Steel	316SS
Acetaldehyde	++	+	++
Acetic acid - aerated	(+) ^{TC}	X	(++) ^T
Acetone	++	++	++
Acetylene	++	nd	++
Allyl alcohol	+	nd	++
Aluminum chloride - dry	+	nd	(+) ^{TP}
Aluminum chloride - wet	X	X	(-) ^P
Aluminum sulfate - satd.	X	nd	+
Ammonia - anhydrous	++	++	++
Ammonia - gas	-	+	(+) ^T
Ammonium acetate	+	nd	+
Ammonium bicarbonate	-	nd	(+) ^T
Ammonium carbonate - satd.	+	X	+
Ammonium chloride - 28%	X	X	(+) ^{PS}
Ammonium chloride - 50%	X	X	X
Ammonium hydroxide	+	+	(++) ^C
Ammonium chloride - 28%	X	X	(+) ^{PS}
Ammonium chloride - 50%	X	X	X
Ammonium hydroxide	+	+	(++) ^C
Ammonium nitrate	+	X	(++) ^S
Ammonium phosphate - 40%	X	nd	+
Ammonium sulfate - to 30%	X	-	+
Amyl acetate	++	++	++
Asphalt	++	+	+
Beer	++	X	++
Benzene (benzol)	++	+	(+) ^P
Benzoic acid	+	nd	+
Benzol - see benzene			
Boric acid (boracic acid)	++	nd	(++) ^{TP}
Bromine - wet	X	X	X
Butadiene (butylene)	+	+	+
Butyl alcohol (butanol)	++	++	++
Butyric acid	+	X	+
Cadmium sulfate	+	nd	++
Calcium carbonate	-	nd	+
Calcium chloride - satd.	+	X	(+) ^S
Calcium hydroxide - satd.	X	nd	+

Chemical Species	Aluminum	HDG/Steel	316SS
Calcium hypochlorite - satd.	X	X	(-) ^P
Carbon dioxide - wet	++	+	+
Carbon disulfide (bisulfide)	++	+	++
Carbon tetrachloride	X	+	(++) ^{PS}
Carbolic acid - see phenol			
Carbonic acid - see carbon dioxide			
Caustic potash - see potassium hydroxide			
Caustic soda - see sodium hydroxide			
Chlorine gas - wet	X	++	(-) ^{PS}
Chloroform	(+) ^{dry}	+	(+) ^{TS}
Chromic acid	+	nd	(+) ^P
Citric acid - dilute	(+) ^{TC}	X	(++) ^P
Copper chloride	X	X	(-) ^P
Copper nitrate	X	nd	++
Copper sulfate	X	-	+
Cresol	+	+	+
Crude oil	++	++	++
Diethylamine	+	++	++
Dimethyl ketone - see acetone			
Ethyl acetate	(++) ^{dry}	++	+
Ethyl alcohol (ethanol)	++	++	++
Ethylene dichloride	(-) ^{dry}	++	(+) ^{PS}
Ethylene glycol (glycol)	++	++	++
Ferric chloride	X	X	X
Ferric nitrate - 10%	X	nd	+
Ferrous sulfate	+	nd	(+) ^P
Formaldehyde (methanal)	(+) ^P	++	(++) ^{TC}
Fluorine gas - moist	X	X	X
Formalin - see formaldehyde			
Formic acid (methanoic acid) - 10%	(+) ^T	X	(+) ^{PC}
Furfural (furfuraldehyde)	+	nd	+
Furol - see furfural			
Gelatin	++	+	++
Glycerine (glycerol)	++	++	++
Hexamine - 80%	++	nd	++

SYMBOLS:

- ++** first choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)
- +** good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy
- can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply
- X** not recommended
- (-)** brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]
- nd** no available data

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide (cont'd)

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

Chemical Species	Aluminum	HDG/Steel	316SS
Hydrobromic acid	X	X	X
Hydrochloric acid (muriatic acid)	X	X	X
Hydrocyanic acid - dilute	+	nd	+
Hydrocyanic acid - conc	X	nd	+
Hydrofluoric acid	X	X	X
Hydrogen chloride gas - dry	X	X	(++) ^S
Hydrogen chloride gas - wet	X	X	+
Hydrogen fluoride	(-) ^T	nd	+
Hydrogen peroxide - to 40%	++	nd	+
Hydrogen sulfide - wet	(+) ^P	nd	(+) ^{PS}
Hypo - see sodium thiosulfate			
Hypochlorous acid	X	X	X
Iodine solution - satd.	X	X	X
Lactic acid	(+) ^T	nd	(+) ^{PI}
Latex	++	-	++
Lithium chloride - to 30%	X	nd	++
Linseed oil	+	nd	++
Magnesium chloride - 50%	X	X	(+) ^{PS}
Magnesium hydroxide	+	nd	++
Magnesium sulfate	+	X	+
Maleic acid (maleinic acid) - 20%	+	nd	+
Methyl alcohol (methanol)	++	++	++
Methyl ethyl ketone	+	++	+
Milk	++	X	++
Molasses	+	nd	++
Naptha	+	+	+
Natural fats	++	++	++
Nickel chloride	X	nd	(+) ^{PS}
Nickel sulfate	X	nd	+
Nitric acid	X	X	(++) ^I
Oleic acid	(++) ^T	nd	++
Oxalic acid - dilute	-	nd	+
Oxalic acid - saturated	(+) ^T	X	X
Paraformaldehyde - to 30%	+	nd	++
Perchloroethylene	+	X	(++) ^P
Phenol (carbolic acid)	+	+	++
Phosphoric acid - dilute	X	X	++

Chemical Species	Aluminum	HDG/Steel	316SS
Phosphoric acid - 50%	X	X	(++) ^I
Picric acid	++	nd	+
Potassium bicarbonate - 30%	X	nd	++
Potassium carbonate	X	nd	++
Potassium chloride - to 25%	X	X	(++) ^P
Potassium dichromate - 30%	(++) ^T	X	++
Potassium hydroxide	X	nd	(-) ^S
Potassium nitrate	++	++	+
Potassium sulfate	++	++	++
Propionic acid (propanoic acid)	(+) ^T	X	(+) ^T
Propyl alcohol (propane)	++	++	++
Prussic acid - see hydrocyanic acid			
Pyridine	+	nd	++
Soaps	+	-	+
Sodium bicarbonate - 20%	+	nd	++
Sodium bisulfate	X	X	(+) ^T
Sodium bisulfite	X	X	+
Sodium chloride - to 30%	X	X	(+) ^{PS}
Sodium cyanide	X	nd	(-) ^T
Sodium hydroxide - 10-30%	X	X	(-) ^S
Sodium hydroxide - 50%	X	X	(++) ^S
Sodium hydroxide - conc	X	X	++
Sodium hypochlorite - conc	X	+	(-) ^{PS}

SYMBOLS:

- ++** first choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)
- +** good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy
- can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply
- X** not recommended
- (-)** brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]
- nd** no available data

1. Select Material and Finish (cont'd)

Corrosion Resistance Guide (cont'd)

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

Chemical Species	Aluminum	HDG/Steel	316SS
Sodium nitrate	++	X	++
Sodium peroxide - 10%	+	nd	+
Sodium silicate	++	nd	++
Sodium sulfate	(++) ^{30%}	X	++
Sodium sulfide - to 50%	X	nd	(+) ^T
Sodium thiosulfate	+	nd	+
Steam	(+) ^P	++	++
Stearic acid	+	nd	++
Sorbital (hexahydric alcohol)	++	+	++
Sulfur dioxide - dry	+	+	++
Sulfur dioxide - wet	X	X	(+) ^T
Sulfuric acid - to 80%	X	X	X
Sulfuric acid - 80-90%	X	X	(-) ^I
Sulfuric acid - 98%	X	X	(+) ^I
Tannic acid (tannin)	X	X	+
Tartaric acid - to 50%	(+) ^T	nd	++
Toluene (Toluol; methyl benzene)	++	++	++
Trichloroethylene	(++) ^T	+	(+) ^P
Turpentine	+	++	++
Water - acid, mine	X	-	(++) ^P
Water - potable	+	+	++
Water - sea	+	+	++
Zinc chloride - dilute	++	nd	(++) ^{PS}

SYMBOLS:

- ++** first choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)
- +** good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy
- can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply
- X** not recommended
- (-)** brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]
- nd** no available data

2. Select the Tray Class / Load Capacity (Loading)

Selection Process

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1. Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable. (according to NEMA VE-1 / CSA C22.2 No 126.1-02).

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are less cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the Weight requirements of the cable tray.

Table 1

Span/Load Class Designation —
USA (See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

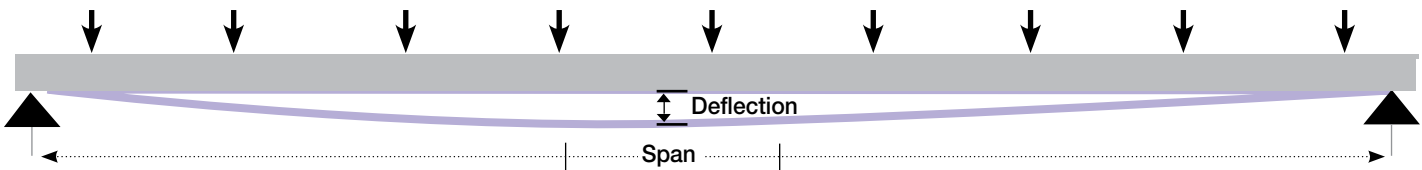
LOAD kg/m (lb./ft.)		SPAN, m (ft.)				
kg/m	(lb./ft.)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)		8B		12B	20B
149	(100)		8C		12C	20C

Note: These ratings are also used in Mexico

Table 2

Span/Load Class Designation —
CANADA (See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

LOAD kg/m (lb./ft.)		SPAN, m (ft.)						
kg/m	(lb./ft.)	1.5 (5)	2.0	2.5	3.0 (10)	4.0	5.0	6.0 (20)
37	(25)				A			
45	(30)			A				
62	(42)		A					
67	(45)							D
82	(55)						D	
97	(65)				C			
99	(67)	A						
112	(75)							E
113	(76)					D		
119	(80)			C				
137	(92)						E	
164	(110)		C					
179	(120)				D			
189	(127)					E		
259	(174)	C						
299	(200)				E			



2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Selection Process

Cable Loads: The cable load is the total Weight, expressed in (kg/m), of all the cables that will be placed in the cable tray.

Snow Loads: The additional design load from snowfall should be determined using the building codes which apply for each installation.

Ice Loads:..... The additional load design due to the ice is determined by the following formula:

$$W_i = W \times T_i \times D_i / 144$$

Where:

W_i = ice load (lb.)/linear foot

W = width of the tray (inches)

T_i = maximum ice thickness (inches).

D_i = 57 lb./ft.³ - ice density

Ice thickness will vary depending on installation location. A value of 1/2 inch can be used as a conservative standard for Canada.

Wind Loads: The additional loading to be considered is the effect of the impact pressure normal to the side rail.

This loading is determined by the following formula:

$$W_p = 0.00256 \times V^2 \times H / 12$$

Where:

W_p = loading due to the wind (lb.)/linear foot

V = wind velocity (mph)

H = Height of the side rail (inches)

It is important to note that cable tray is not designed to support personnel. The user should display appropriate warnings to prevent the use of cable tray as walkways.

Concentrated Loads

A concentrated static load is not included in the Table 1. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static Weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (W_e) in kilograms/metre (pounds/linear foot), using the following formula, and added to the static Weight of cable in the tray:

$$W_e = \frac{2 \times (\text{concentrated static load, kg (lb.)})}{\text{Span length, m (ft.)}}$$

Seismic Loads

It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for selected cable tray, please consult Thomas & Betts to ensure your specifications are met.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Loading for Grades B, C and D

General Loading Requirements and Maps (IEEE: Section 25 Loading for Grades B, C and D)

General

1. It is necessary to assume the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.
2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.
3. It is recognized that loadings actually experienced in certain areas in each of the loading districts may be greater, or in some cases, may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

Combined Ice and Wind Loading

Three general Angles of loading due to weather conditions are recognized and are designated as heavy, medium, and light loading.

Figure 250-1 shows the districts in which these loadings are normally applicable.

Figure 250-1 shows the radial thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weight 57 lb./ft.² (913 kg/m³).

Extreme Wind Loading

If any portion of a structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the applicable horizontal wind speed of **Figure 250-2**, as determined by the linear interpolation, shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported facilities without ice loading.

The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

$$\text{pressure in lb./ft.}^2 = 0.00256 (v \text{ m/h})^2$$

$$\text{pressure in pascals} = 0.613 (v \text{ m/h})^2$$

where m = mètres

s = seconds

Figure 250-2 lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above. If no portion of the structure or its supported facilities exceeds 60 ft. (18m) above ground or water level, the provisions of this rule are not required.

For Canadian customers, please refer to Annex A (page A216) for **Figure 250-1CDN** and **Figure 250-2CDN**.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Structural Design

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

Continuous Beam

Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations. This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam. As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple Beam

A straight section of cable tray supported at both ends but not fastened functions as a simple beam. Under a load, the tray will exhibit deflection. The load carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system. The NEMA/CSA Load Test is a simple beam, uniformly distributed load test, used primarily because it is easy to test and represents the worst case beam condition compared to continuous or fixed configurations. The only criterion for NEMA/CSA acceptance is the ability to support 150% of the rated load.

Fixed Beam

Like the cantilever beam, a fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases load bearing ability.

Cantilever Beam

A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

Design Loadings

Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Structural Design (cont'd)

Splicing

Since the need for a continuous system requires that siderails be spliced, splice plates must be both strong and easy to install. Thomas & Betts Aluminum Snap-In Splice Plate allows hands free installation of hardware for easier assembly. If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Examples of splicing configurations are shown on page A27.

Basic Design Stresses

Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to assure the safety of the structure against failure, their selection is a matter of prime importance. In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are therefore the mechanical properties of the materials and suitable factors of safety. Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design. Values for these properties are readily obtainable. In determining the factor of safety, the designer must usually be guided by current practice—the “standard specifications” adopted by various technical societies and associations—and his or her own judgment and experience.

Factors of safety

Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. In making the determination, consideration of the following factors are highly important:

The accuracy with which the loads to represent service conditions are selected and assumed. If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.

The accuracy with which the stresses in the members of a structure are calculated. Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.

The significance of the structure being designed. The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

The factors of safety used in designing most common types of structures are an outgrowth of the experience gained from many applications and tests—even failures. The trend in recent years has been to reduce the factors of safety in line with improved quality of material and increasing knowledge of stress distribution. Further reductions may be made in the future as greater accuracy in determinations becomes possible and practicable.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Structural Design (cont'd)

Application of design stresses to cable tray systems

A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

An engineer, who is in a position to determine specific stress requirements with a far greater degree of accuracy, may consider that the manufacturer's basic design stresses are too conservative for a particular project. Using individual experience and judgment, he or she would establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.

The factors of safety used in determining maximum allowable stresses are as follows:

• Aluminum Alloys

- a. For tension: the lower of 1/3 the minimum ultimate strength or 1/2 the minimum yield strength in tension.
- b. For compression: the lower of 1/3 the minimum ultimate strength or 2/5 the minimum yield strength in compression.
- c. For shear: the lower of 1/3 the minimum ultimate strength or 1/2 the minimum yield strength in shear.

• For Hot Rolled Steels

- a. For tension: the lower of 1/2 the minimum ultimate strength or the minimum yield point in tension times .61.
- b. For compression: the lower of 1/2 the minimum ultimate strength or the minimum yield point in compression times .61.
- c. For shear: maximum stress not to exceed a value of 2/3 the basic design stress for tension.

Design Efficiency

A tray designed to perform its required function with the minimum Weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of siderails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the siderail and rungs is increased by the proper use of metal in the high strength heat-treated aluminum or continuously rolled cold-worked steel sections.

2. Select the Tray Class / Load Capacity (Loading) (cont'd)

Loading

Load Diagrams for Beams

CANTILEVER BEAMS

Uniform Load

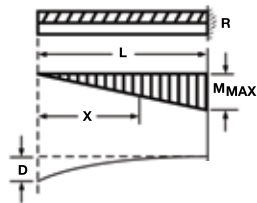
Reaction $R = wL = W$

Moment at any point: $M = \frac{wX^2}{2} = \frac{WX^2}{2L}$

Maximum moment $M_{max} = \frac{wL^2}{2} = \frac{WL}{2}$

Maximum deflection, $D = \frac{wL^4}{8EI} = \frac{WL^3}{8EI}$

Maximum Shear, $V = wL$



Concentrated Load at Free End

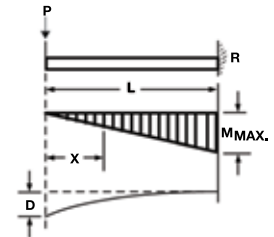
Reaction; $R = P$

Moment at any point: $M = Px$

Maximum moment, $M_{max} = PL$

Maximum deflection, $D = \frac{PL^3}{3EI}$

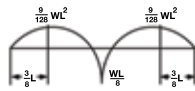
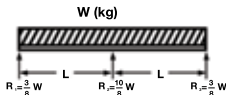
Maximum Shear, $V = P$



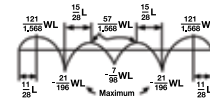
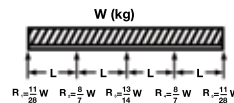
CONTINUOUS BEAMS

Two Span

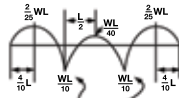
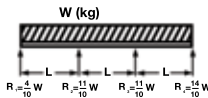
$W = wL$



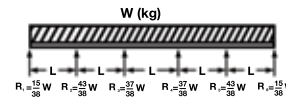
Four Span



Three Span



Five Span



SIMPLE BEAMS

Uniform Load

w per unit of length, total load w

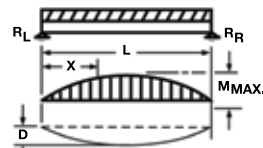
ReactionS: $R_L = R_R = \frac{wL}{2} = \frac{W}{2}$

Moment at any point: $M = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$

Maximum moment, AT CENTER $M_{max} = \frac{wL^2}{8} = \frac{WL}{8}$

Maximum deflection: $D = \frac{5wL^4}{384EI} = \frac{5WL^3}{384EI}$

Maximum Shear: $V = \frac{wL}{2}$



Concentrated Load at any Point

Reaction: $R_L = \frac{Pb}{L}$, $R_R = \frac{Pa}{L}$

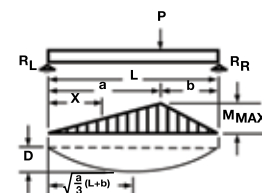
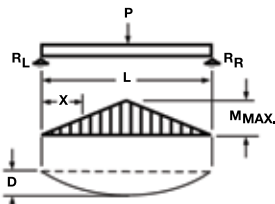
Moment at any point: $X \leq a, M = R_L X = \frac{PbX}{L}$

$X > a, M = R_R (L-X) = \frac{Pa(L-X)}{L}$

Maximum moment, At $X = a$, $M_{max} = \frac{Pab}{L}$

Maximum deflection, $D = \frac{Pab(L+b)3a(L+b)}{27EI}$

Maximum Shear, $V = \frac{Pa}{L}$, WHEN $a > b$



3. Select the Tray Type

Cable tray is available with three styles of bottom:

Ladder Cable Tray is a prefabricated structure consisting of two longitudinal siderails connected by individual transverse members.

Ventilated Cable Tray is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal siderails, with no openings exceeding 4 in. in a longitudinal direction.

Solid Bottom Cable Tray is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12, and 18 inches. The greatest rung spacing compatible with an adequate cable bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer. This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables. Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

4. Select the Tray Size

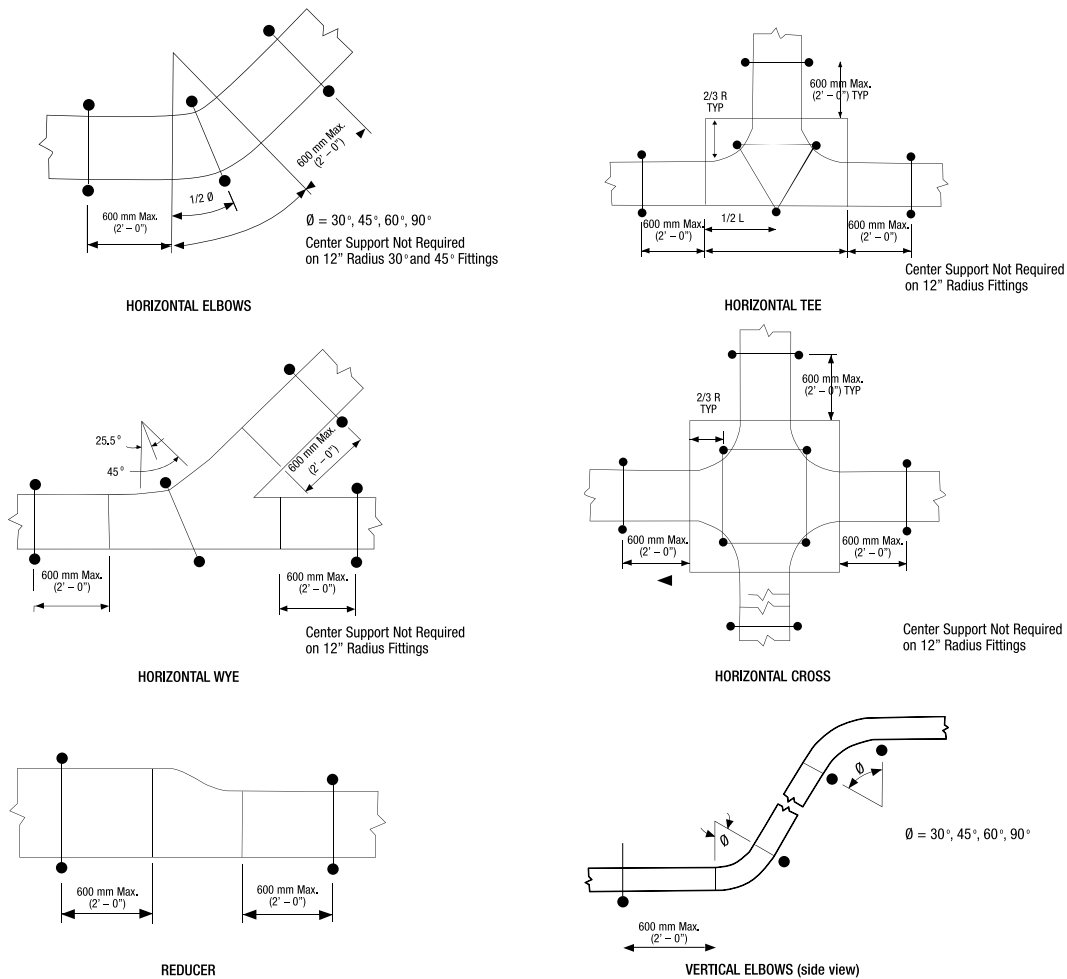
The width or height of a cable tray is a function of the number, size, spacing and Weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30 and 36 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36 in. wide tray cannot hold any more Weight than a 6 in. wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3-5/8, 4, 5, 6 and 7 inches (8 inch height also available as a special - see appendix). Cable ties or other spacing devices may be used to maintain the required air space between cables.

5. Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 in. Fittings are also available for 30°, 45°, 60°, and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations. Note that fittings are not subject to NEMA/CSA load ratings.

Support Locations for Fittings



6. Consider Deflection

.....

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of nonmetallic cable tray, deflection may be affected by elevated temperatures.

The NEMA/CSA load test is a simple beam, uniformly distributed load test (see Figure 1.2). This type of test was initially selected because:

- It was easiest to test.
- It represents the worst case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalogue for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA/CSA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.

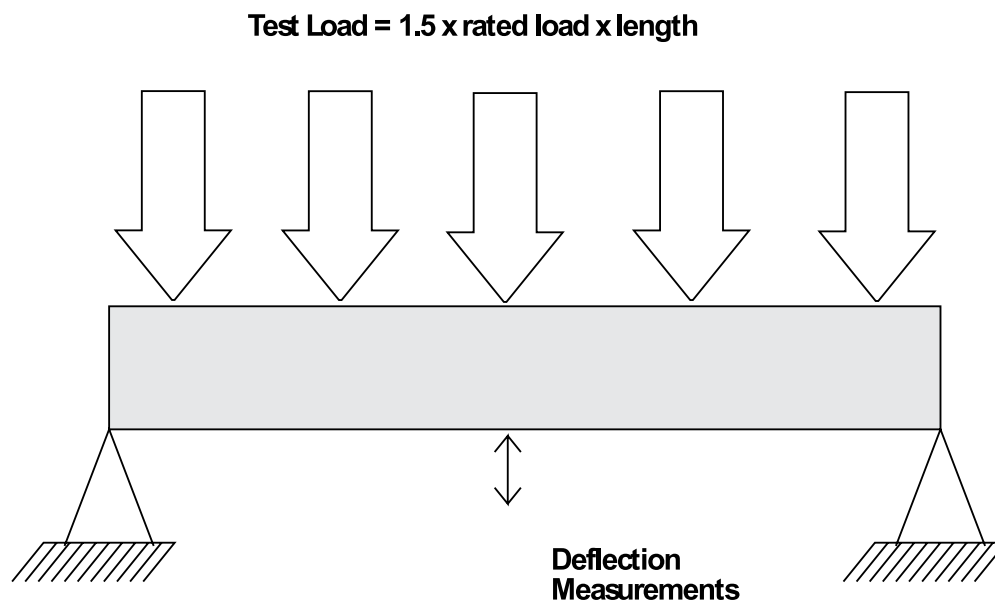


Figure 1.2

6. Consider Deflection (cont'd)

Simple Versus Continuous Beam Deflection

Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

$$.0130 \frac{w L^4}{E I} \times 1728 = 22.5 \frac{w L^4}{E I}$$

Where: w = Load in lb./ft.
 L = Length in ft.
 E = Modulus of Elasticity lbf/in² (psi)
 I = Moment of Inertia in in⁴

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

$$.00541 \frac{w L^4}{E I}$$

A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple vs. Continuous Beam Deflection

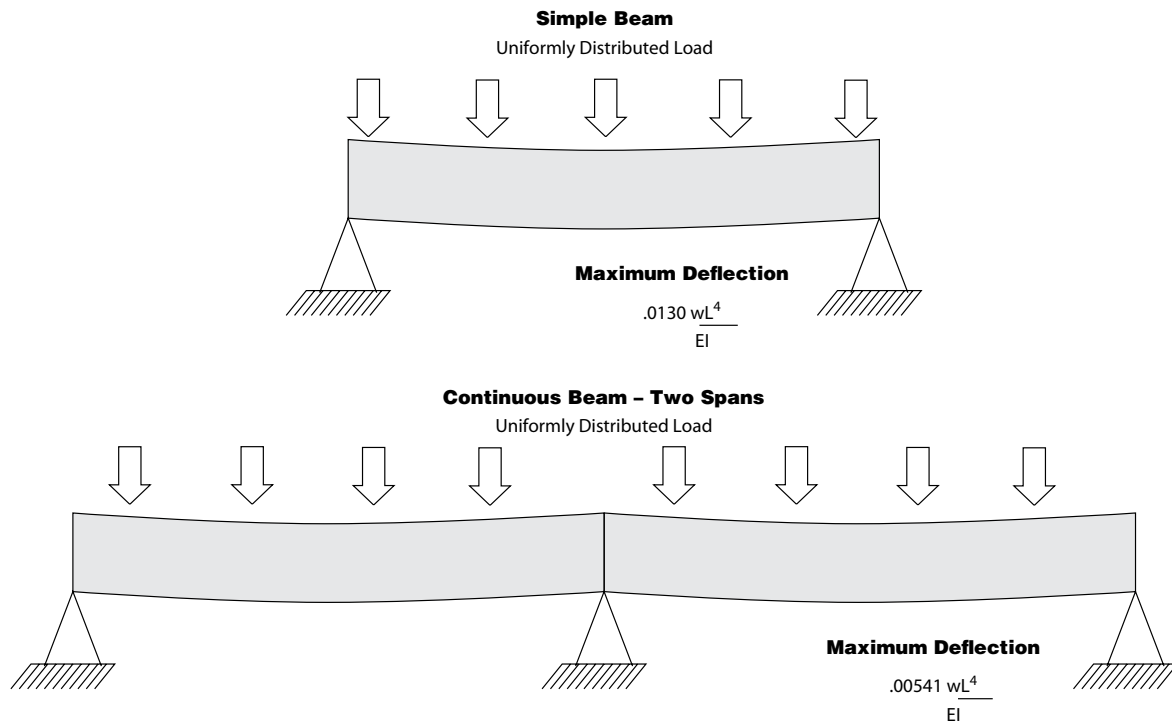


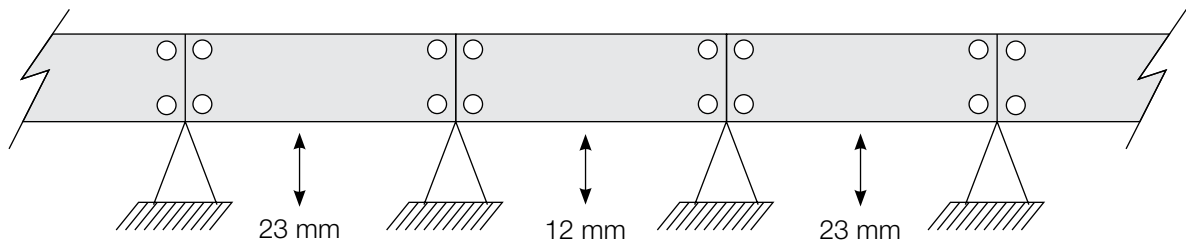
Figure 1.3

6. Consider Deflection (cont'd)

Location of Couplings

Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continuous beam can deflect less than 10 % of its simple beam deflection.

Couplers at Supports - Not Recommended



Couplers at 1/4 Span From Supports - Ideal Layout

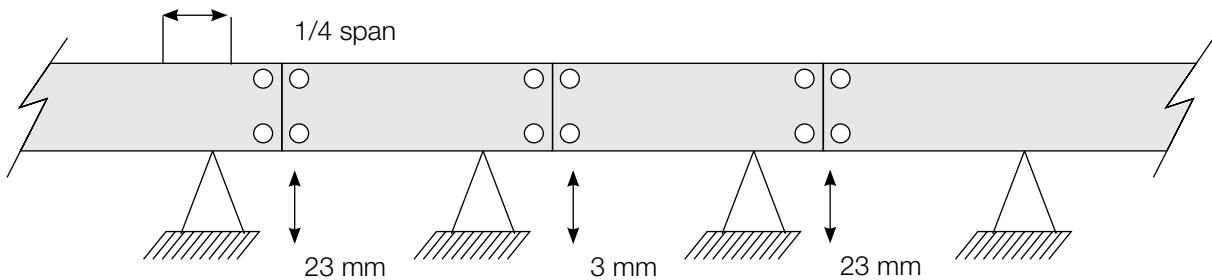


Figure 1.4

The support span should not be greater than the straight section length, to ensure no more than one splice is located between supports.

Location of Couplers

(see Figure 1.4) The location of the coupler dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span tray run can decrease four times if the couplers are moved to the one-quarter point from the above supports.

This can be a major concern for designers considering modular systems for tray and pipe racks.

7. Consider Thermal Expansion & Contraction

A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation. To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures. To function properly, expansion splice plates require accurate gap settings between trays. To find the gap (see Figure 2):

Plot your gap setting

- Locate the lowest metal temperature on low temperature line.
- Locate the highest metal temperature on high temperature line.
- Connect these two points.
- Locate installation temperature and plot to high/low line. Drop plot to gap setting.

Table 1

Maximum distance between expansion joints
(For 1 in. Movement)

Temperature Differential		316 Stainless Steel		Steel		Aluminum	
°C	°F	m	Feet	m	Feet	m	Feet
14	25	115	379	156	512	79	260
28	50	58	189	78	256	40	130
42	75	38	126	52	171	27	87
56	100	29	95	39	128	20	65
70	125	23	76	31	102	16	52
83	150	19	63	26	85	13	43
97	175	16	54	22	73	11	37

Note: Every pair of expansion splice plates requires two bonding jumpers for grounding continuity.

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions. All other support location should be secured by expansion guides. (See Figure 3)

Figure 2

Gap Setting of Expansion Splice Plate

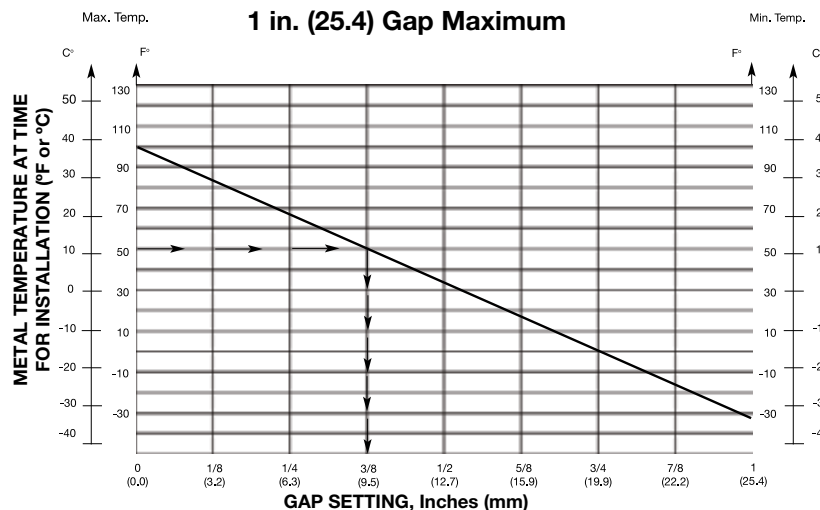
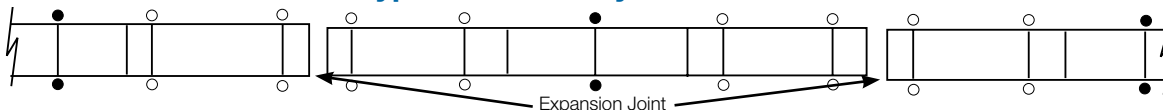


Figure 3

Typical Cable Tray Installation



- = hold down clamp (anchor) at support
- = expansion guide clamp at support

8. Electrical Grounding Capacity

The National Electrical Code, Article 392-7 allows cable tray to be used as an equipment grounding conductor. All Thomas & Betts standard cable trays are classified by Underwriter's Laboratories per US NEC Table 392-7 based on their cross sectional area.

The corresponding cross-sectional area for each siderail design (2-siderails) is listed on the label. This cable tray label is attached to each straight section that is UL classified. Fittings are not subject to CSA or UL.

NEC TABLE 392.7 (A)

Metal Area Requirements for Cable Trays

Used as Equipment Grounding Conductors

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50**	0.40
1000	–	0.60
1200	–	1.00
1600	–	1.50
2000	–	2.00**

For SI units: one square inch = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays; or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.

For larger ampere ratings an additional grounding conductor must be used.

See pages A221 to A223 for grounding and bonding products.

For more information on grounding and bonding cable tray refer to section 4.7 of the NEMA VE 2-2006 Cable Tray installation guidelines.

Engineering Cable Tray Specification

Cable Tray

- Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1-2006/CSA C22.2 No. 126.1-02. Cable Tray must be listed by UL as equipment grounding conductor. There shall be no burrs, projections or sharp edges to damage the cable insulation.

Material

- Aluminum - All siderails, and rungs shall be of extruded aluminum type 6063-T6. Siderails shall be of I-beam construction.
- Pre-Galvanized Steel - All siderails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. Siderail shall be reinforced with flanges turned inward.
- Hot Dip Galvanized Steel - All siderails and rungs shall be made from steel conforming to the requirements of A1008/A1008M-07, SS grade 33, type 2 or A1011/A1011-06b SS, grade 33 and shall be hot dip galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft.²
- Stainless Steel - All cable tray and accessories shall be of type AISI 316 stainless steel.

Tray Types

- Ladder - Ladder tray shall incorporate two siderails connected by lateral rungs. Rungs shall provide minimum 1 in. bearing surface and have slots perpendicular to the centerline of the rung on 1 in. centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed at 6, 9, 12 or 18 in. spacing. The rungs shall not be below the bottom of the siderail.
- Solid Bottom - Solid Bottom tray shall incorporate two siderails connected by rungs on 12 in. centers with a solid sheet applied below the rungs.
- Ventilated Trough - Ventilated trough tray shall incorporate two siderails connected by rungs at 4 in. spacing.

Dimensions

- Siderail Height - Siderails heights shall be 3-5/8, 4, 5, 6 and 7 in. minimum loading depths shall be 2-5/8, 3, 4, 5, and 6 in.
- Length - All cable tray straight sections shall be supplied in 12 ft., 24ft., 3m and 6m lengths.
- Width - Cable tray shall be supplied in 6, 9, 12, 18, 24, 30 and 36 in. widths as required.
- Radiused Fittings - For all fittings requiring a radius that radius shall be 12, 24, 36 and 48 in. and shall be measured to the nearest perpendicular surface.

Accessories

- Covers and Accessories - Covers shall be supplied to protect tray cable where needed. Appropriate holddowns shall be supplied to properly attach the covers to the tray.
- Splice Plates - Aluminum splice plates shall be designed to snap into tray siderail and shall be supplied with four square neck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square neck carriage bolts and hex nuts for attachment.

Loading Capabilities

- Cable tray shall meet specified NEMA/CSA load ratings with safety factor of 1.5. The cable tray should also be able to support a 200 lb. concentrated load at midspan over and above stated cable load.

Design and Manufacture

- Cable tray design shall be that of T&B® Cable Tray Systems as manufactured by Thomas & Betts.

Engineering Cable Tray Specification (cont'd)

Selection of Thomas & Betts Series of Cable Tray

— Please refer to Table 2 for Aluminum and Table 3 for Steel — (page A32)

Table 1a

Span/Load Class Designation — USA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

LOAD kg/m (lb./ft.)		SPAN, m (ft.)				
kg/m	(lb./ft.)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)		8B		12B	20B
149	(100)		8C		12C	20C

Note: These ratings are also used in Mexico.

Table 1b

Span/Load Class Designation — CANADA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

LOAD kg/m (lb./ft.)		SPAN, m (ft.)						
kg/m	(lb./ft.)	1.5 (5)	2.0	2.5	3.0 (10)	4.0	5.0	6.0 (20)
37	(25)				A			
45	(30)			A				
62	(42)		A					
67	(45)							D
82	(55)						D	
97	(65)				C			
99	(67)	A						
112	(75)							E
113	(76)					D		
119	(80)			C				
137	(92)						E	
164	(110)		C					
179	(120)				D			
189	(127)					E		
259	(174)	C						
299	(200)				E			

Note: 8A/B/C, 12A/B/C, 16A/B/C, and 20A/AA/B/C are the USA & Mexico designations.
A, C, D, and E are the canadian designations.

Engineering Cable Tray Specification (cont'd)

Table 2

Aluminum Load / Span Class Designation

Siderail	Series	Load Depth (in.) Nominal	NEMA Class	CSA Class
4	AH04 AH14 AH24 AH34 AH44 AH54	3	8B 12A 12B 12C 20A 20B	- C/3m D/3m D/6m E/3m E/6m
5	AH25 AH35 AH45	4	12C 20A 20B	D/6m E/3m E/6m
6	AH06 AH16 AH26 AH36 AH46 AH56 AH66 AH76	5	12B 12C 20A 20B 20C 20C 20C -	C/3m D/6m E/3m E/6m - - - -
7	AH37 AH47	6	20C 20C	E/6m -
8	AH18	7	-	-

Table 3

Steel Load / Span Class Designation

Siderail	Series	Load Depth (in.) Nominal	NEMA Class	CSA Class
3-5/8	SH13/SP13/SS13	2-5/8	12A	C/3m
4	SH14/SP14/SS14 SH34/SP34/SS34	3	12C 20A	D/3m D/6m
5	SH25/SP25/SS25 SH45/SP45/SS45 SH55/SP55	4	20A 20B 20C	D/6m E/6m
6	SH16/SP16/SS16 SH36/SP36/SS36 SH46/SP46/SS46	5	20A 20B 20C	D/6m E/6m -
7	SH37/SP37/SS37	6	20C	-



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Overview

Features

- Straight Siderail Design: Extruded I-beam
Nominal Height 4 in. to 7 in.
Loading Height 3 in. to 6 in.
- Snap-in splice plate connection
- Reverse position of every other rung for bottom or top mounting of cable ties
- Versatile continuous open slot rungs (strut profile)
- Exclusive Ty-Rap® cable tie slots (5/8 x 5/8) on one inch (1 in.) centers
- Extra wide rung design
- Four bolt connection
- Choice of two styles of fitting (U & H) siderails

Applications

Commercial	Industrial
Schools	Petrochemical Plants
Hospitals	Automotive Plants
Office Buildings	Paper Plants
Airports	Food Processing
Casinos	Power Plants
Stadiums	Refineries
	Manufacturing
	Mining

Accessories

- Each pair of splice plates comes with 3/8 in. mounting hardware
- Complete line of accessories and support systems

Material

- 6063 Aluminum Alloy

Compliance

- CSA, NEMA, NEC, UL

Load Ratings

- 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

Tray Bottom Types Ladder, Ventilated and Solid Trough



Ladder

- Extra wide aluminum rungs are welded to extruded aluminum I-beam siderails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are rounded and smooth to prevent cable damage.

Ventilated

- A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in) in the direction parallel to the tray side rails (rung edge to rung edge).

Note: For load ratings of CSA Class C/NEMA 12C or less, please see alternative ventilated series of cable tray called – One-Piece found on pages A157 to A189 of the catalogue.

Solid Trough

- A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal side rails.

Note : Fast and easy snap-in splice plates are provided with each straight section.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

Number Selection

Straight sections utilize a 7 in. splice plate and the fittings have tangents at the extremities.

How to Create Part Numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page A8 in the technical section.

Methods

1. Select the material best suited to your environment. Refer to technical section page A8.
2. Determine the tray series using the NEMA/CSA Load/Span Designations page A16, and Sizing Cable Tray page A23.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.

Straight Section Number Selection

(AH1-6) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	0 • Series 0 * 1 • Series 1 ** 2 • Series 2 3 • Series 3 4 • Series 4 5 • Series 5	4	06 • (6 in.) *** 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.) 42 • (42 in.)	L06 (6 in. rung spacing) L09 (9 in. rung spacing) L12 (12 in. rung spacing) V (ventilated) ** S (solid trough)	144 (12 ft.) 288 (24 ft.) 3 (3 meters) 6 (6 meters) 360 (30 ft.) †
Prefix		2 • Series 2 3 • Series 3 4 • Series 4	5			
		0 • Series 0 * 1 • Series 1 2 • Series 2 3 • Series 3 4 • Series 4 5 • Series 5 6 • Series 6 7 • Series 7	6			
		2 • Series 2 3 • Series 3 4 • Series 4	7			
		1 • Series 1	8			

* This series is not available in 288 in. or 6 meter lengths.

** Fittings not available for 8 in. siderail Series 1.

*** For load ratings of CSA Class C/NEMA 12C or less,

† For Series 76, 47 and 18 only.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Straight Lengths

4 in. Straight Sections / Series 1-4

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH1-4) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	1 • Series 1 **	4	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 (6 in. rung spacing) L09 (9 in. rung spacing) L12 (12 in. rung spacing) V (ventilated) *** S (solid trough)	144 (12 ft.) 288 (24 ft.) 3 (3 meters) 6 (6 meters)
Prefix						

** Series 1 is not available in 288 in., or 6 meter lengths.

*** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A89.

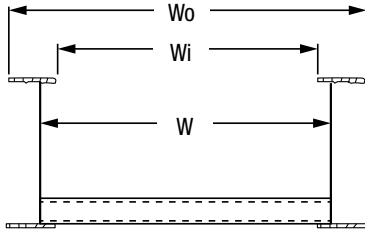
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH1-4	Load (lb./ft.)	239	134	86	60	–	–	–	–
	Deflection (in.)	0.318	0.565	0.884	1.272	–	–	–	–
	Deflection Factor	0.001	0.004	0.010	0.021	–	–	–	–

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Straight Lengths

4 in. Straight Sections / Series 1-4

Ladder, Ventilated and Solid Trough



Dimensions

AH1-4		
W (in.)	W ₀ (in.)	W _i (in.)
6	7.46	4.88
9	10.46	7.88
12	13.46	10.88
18	19.46	16.88
24	25.46	22.88
30	31.46	28.88
36	37.46	34.88

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications		
			NEMA	CSA	UL
AH1-4		$I_x = 2.19 \text{ in.}^4$ $S_x = 1.05 \text{ in.}^3$ Area = 0.906 in.^2	12A, 8C	C/3 m	UL Cross Sectional Area : 0.60 in.^2

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

4 in. Straight Sections / Series 3-4, 5-4

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH5-4) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	3 • Series 3 5 • Series 5	4	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid Trough	144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters)
Prefix						

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A89.

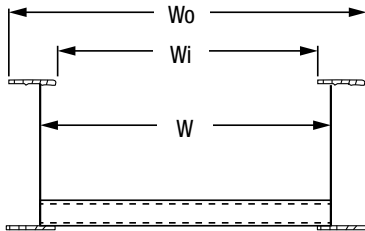
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH3-4	Load (lb./ft.)	522	294	188	131	96	73	58	47
	Deflection (in.)	0.477	0.849	1.326	1.909	2.599	3.395	4.296	5.304
	Deflection Factor	0.001	0.003	0.007	0.015	0.027	0.046	0.074	0.113
AH5-4	Load (lb./ft.)	867	488	312	217	159	122	96	78
	Deflection (in.)	0.505	0.898	1.403	2.021	2.751	3.593	4.547	5.614
	Deflection Factor	0.001	0.002	0.004	0.009	0.017	0.029	0.047	0.072

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Straight Lengths

4 in. Straight Sections / Series 3-4, 5-4

Ladder, Ventilated and Solid Trough



Dimensions

W (in.)	AH3-4		AH5-4	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.38	4.88	8.38	4.88
9	11.38	7.88	11.38	7.88
12	14.38	10.88	14.38	10.88
18	20.38	16.88	20.38	16.88
24	26.38	22.88	26.38	22.88
30	32.38	28.88	32.38	28.88
36	38.38	34.88	38.38	34.88

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications		
			NEMA	CSA	UL
AH3-4		$I_x = 3.34 \text{ in.}^4$ $S_x = 1.50 \text{ in.}^3$ Area = 1.28 in. ²	12C,16B	D/6 m	UL Cross Sectional Area : 1.00 in. ²
AH5-4		$I_x = 5.32 \text{ in.}^4$ $S_x = 2.36 \text{ in.}^3$ Area = 1.93 in. ²	20B,16C	E/6 m	UL Cross Sectional Area : 1.50 in. ²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

5 in. Straight Sections / Series 2-5, 4-5

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH2-5) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	2 • Series 2 4 • Series 4	5	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid Trough	144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters)
Prefix						

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A89.

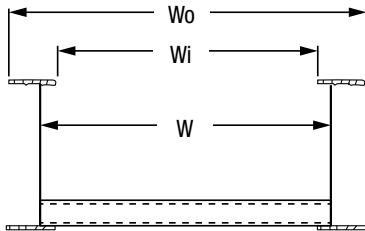
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH2-5	Load (lb./ft.)	511	288	184	128	94	72	57	46
	Deflection (in.)	0.328	0.584	0.912	1.313	1.787	2.334	2.955	3.648
	Deflection Factor	0.001	0.002	0.005	0.010	0.019	0.032	0.052	0.079
AH4-5	Load (lb./ft.)	844	475	304	211	155	119	94	76
	Deflection (in.)	0.337	0.599	0.936	1.348	1.834	2.396	3.033	3.744
	Deflection Factor	0.0004	0.001	0.003	0.006	0.012	0.020	0.032	0.049

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

5 in. Straight Sections / Series 2-5, 4-5

Ladder, Ventilated and Solid Trough



Dimensions

W (in.)	AH2-5		AH4-5	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.39	4.89	8.45	4.95
9	11.39	7.89	11.45	7.95
12	14.39	10.89	14.45	10.95
18	20.39	16.89	20.45	16.95
24	26.39	22.89	26.45	22.95
30	32.39	28.89	32.45	28.95
36	38.39	34.89	38.45	34.95

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications		
			NEMA	CSA	UL
AH2-5		$I_x = 5.236 \text{ in.}^4$ $S_x = 1.90 \text{ in.}^3$ Area = 1.38 in.^2	12C, 16A	D/6 m	UL Cross Sectional Area : 1.00 in.^2
AH4-5		$I_x = 7.654 \text{ in.}^4$ $S_x = 2.78 \text{ in.}^3$ Area = 1.95 in.^2	20B, 16C	E/6 m	UL Cross Sectional Area : 1.50 in.^2

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

6 in. Straight Sections / Series 1-6, 3-6

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH1-6) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	1 • Series 1 3 • Series 3	6	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated ** S • Solid Trough	144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters)
Prefix						

** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A89.

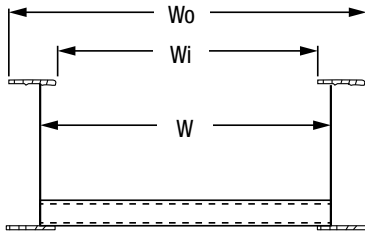
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH1-6	Load (lb./ft.)	511	288	184	128	94	71	56	46
	Deflection (in.)	0.191	0.340	0.531	0.764	1.706	1.251	1.583	2.123
	Deflection Factor	0.0004	0.001	0.003	0.006	0.018	0.018	0.028	0.046
AH3-6	Load (lb./ft.)	889	500	320	222	163	125	99	80
	Deflection (in.)	0.199	0.353	0.552	0.794	1.061	1.386	1.755	2.166
	Deflection Factor	0.0002	0.001	0.002	0.004	0.006	0.011	0.018	0.027

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

6 in. Straight Sections / Series 1-6, 3-6

Ladder, Ventilated and Solid Trough



Dimensions

W (in.)	AH1-6		AH3-6	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.37	4.87	8.89	4.89
9	11.37	7.87	11.89	7.89
12	14.37	10.87	14.89	10.89
18	20.37	16.87	20.89	16.89
24	26.37	22.87	26.89	22.89
30	32.37	28.87	32.89	28.89
36	38.37	34.87	38.89	34.89

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications		
			NEMA	CSA	UL
AH1-6		$I_x = 8.472 \text{ in.}^4$ $S_x = 2.59 \text{ in.}^3$ Area = 1.55 in.^2	12C, 16A	D/6 M	UL Cross Sectional Area : 1.00 in.^2
AH3-6		$I_x = 13.296 \text{ in.}^4$ $S_x = 3.95 \text{ in.}^3$ Area = 2.16 in.^2	20B, 16C	E/6 M	UL Cross Sectional Area : 2.00 in.^2

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

6 in. Straight Sections / Series 4-6, 5-6, 6-6, 7-6
Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH5-6) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	4 • Series 4 5 • Series 5 6 • Series 6 7 • Series 7	6	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid Trough	144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters)
Prefix						

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH4-6	Load (lb./ft.)	1133	638	408	283	208	159	126	102
	Deflection (in.)	0.238	0.424	0.662	0.954	1.298	1.696	2.146	2.649
	Deflection Factor	0.0002	0.001	0.002	0.003	0.006	0.011	0.017	0.026
AH5-6	Load (lb./ft.)	1334	756	484	336	247	189	149	121
	Deflection (in.)	0.249	0.443	0.693	0.997	1.358	1.773	2.244	2.765
	Deflection Factor	0.0002	0.001	0.001	0.003	0.005	0.009	0.015	0.023
AH6-6	Load (lb./ft.)	1889	1063	680	472	347	266	210	170
	Deflection (in.)	0.292	0.520	0.812	1.169	1.592	2.079	2.631	3.249
	Deflection Factor	0.0002	0.0004	0.001	0.002	0.005	0.008	0.012	0.019

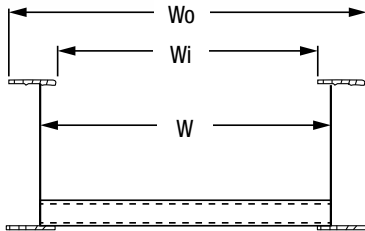
Series		Support Span (Feet)						
		18	20	22	24	26	28	30
AH7-6	Load (lb./ft.)	208	169	140	117	100	86	75
	Deflection (in.)	2.241	2.766	3.347	3.984	4.675	5.422	6.224
	Deflection Factor	0.011	0.016	0.024	0.034	0.047	0.063	0.083

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

6 in. Straight Sections / Series 4-6, 5-6, 6-6, 7-6

Ladder, Ventilated and Solid Trough



Dimensions

	AH4-6		AH5-6		AH6-6		AH7-6	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.90	4.90	8.93	4.93	9.01	5.01	8.92	4.92
9	11.90	7.90	11.93	7.93	12.01	8.01	11.92	7.92
12	14.90	10.90	14.93	10.93	15.01	11.01	14.92	10.92
18	20.90	16.90	20.93	16.93	21.01	17.01	20.92	16.92
24	26.90	22.90	26.93	22.93	27.01	23.01	26.92	22.92
30	32.90	28.90	32.93	28.93	33.01	29.01	32.92	28.92
36	38.90	34.90	38.93	34.93	39.01	35.01	38.92	34.92

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications		
			NEMA	CSA	UL
AH4-6		$I_x = 13.86 \text{ in.}^4$ $S_x = 4.07 \text{ in.}^3$ Area = 2.32 in. ²	20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in. ²
AH5-6		$I_x = 15.72 \text{ in.}^4$ $S_x = 4.66 \text{ in.}^3$ Area = 2.68 in. ²	Exceeds 20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in. ²
AH6-6		$I_x = 18.84 \text{ in.}^4$ $S_x = 5.51 \text{ in.}^3$ Area = 3.25 in. ²	Exceeds 20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in. ²
AH7-6		$I_x = 21.96 \text{ in.}^4$ $S_x = 6.38 \text{ in.}^3$ Area = 3.82 in. ²	Exceeds 20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in. ²

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

7 in. Straight Sections / Series 3-7

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH3-7) 24-L09-144						
Material	Style	Series	Siderail Height (in.)	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	3 • Serie 3	7	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid Trough	144 • (12 ft.) 288 • (24 ft.) 3 • (3 meters) 6 • (6 meters)
Prefix						

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH3-7	Load (lb./ft.)	1456	819	524	364	267	205	162	131
	Deflection (in.)	0.168	0.298	0.466	0.671	0.913	1.192	1.509	1.863
	Deflection Factor	0.0001	0.0004	0.001	0.002	0.003	0.006	0.009	0.014

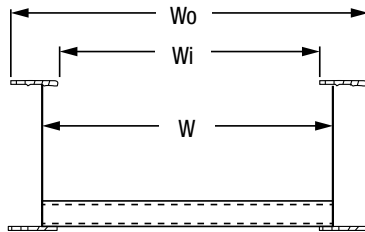
Series		Support Span (Feet)						
		18	20	22	24	26	28	30
AH4-7	Load (lb./ft.)	292	236	195	164	140	121	105
	Deflection (in.)	1.869	2.308	2.793	3.324	3.901	4.524	5.193
	Deflection Factor	0.006	0.010	0.014	0.020	0.028	0.038	0.049
AH1-8	Load (lb./ft.)	522	423	350	294	250	216	188
	Deflection (in.)	2.113	2.609	3.157	3.757	4.409	5.114	5.871
	Deflection Factor	0.004	0.006	0.009	0.013	0.018	0.024	0.031

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Straight Lengths

7 in. Straight Sections / Series 3-7

Ladder, Ventilated and Solid Trough



Dimensions

W (in.)	AH3-7	
	Wo (in.)	Wi (in.)
6	9.00	5.00
9	12.00	8.00
12	15.00	11.00
18	21.00	17.00
24	27.00	23.00
30	33.00	29.00
36	39.00	35.00

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications		
			NEMA	CSA	UL
AH1-8		$I_x = 58.36 \text{ in.}^4$ $S_x = 13.37 \text{ in.}^3$ Area = 5.86 in.^2	Exceeds 20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in.^2
AH3-7		$I_x = 25.32 \text{ in.}^4$ $S_x = 6.35 \text{ in.}^3$ Area = 3.30 in.^2	Exceeds 20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in.^2
AH4-7		$I_x = 36.85 \text{ in.}^4$ $S_x = 9.08 \text{ in.}^3$ Area = 4.65 in.^2	Exceeds 20C	Exceeds E/6M	UL Cross Sectional Area : 2.00 in.^2

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

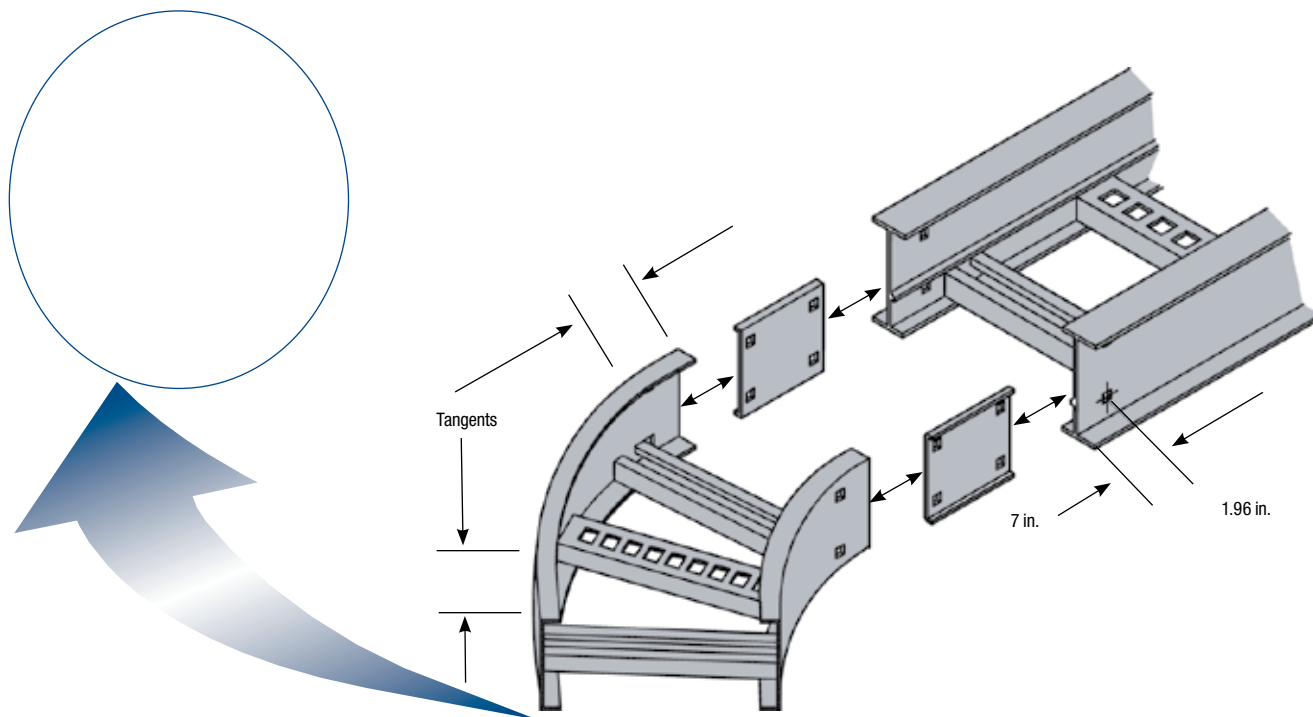
Explaining the Fitting Styles

U-Style

U-Style features fittings constructed with side rail flanges on the inside only (U-Beam)

Features & Benefits

- U-Style and H-Style are interchangeable
- Lowest purchase price
- Easy to install
- Occupies less space in areas where space is restrained
- Easy to align straights
- Easy to align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle
- Functional design
- Tangents on fittings
- 7 in. Snap-in splice plate



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

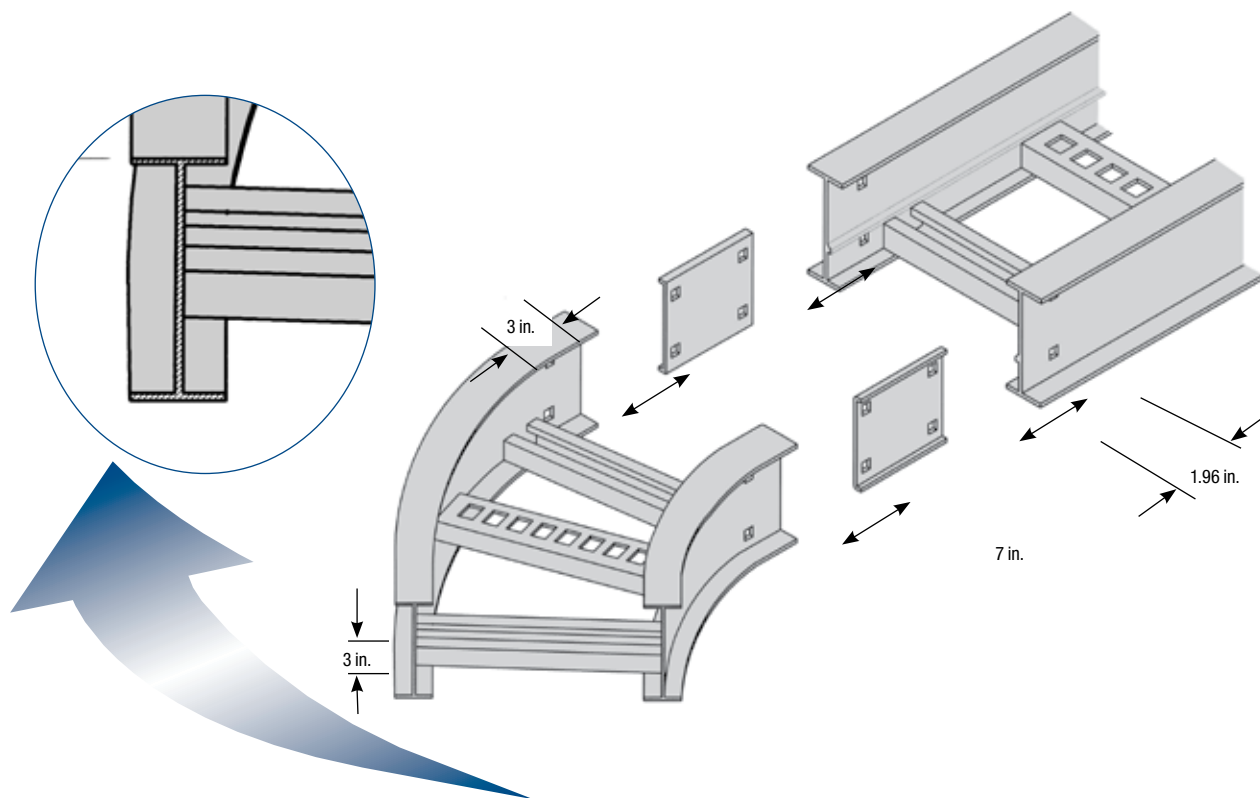
Explaining the Fitting Styles

H-Style

H-Style features fittings constructed with side rail having inner and outer flanges (H-Beam)

Features & Benefits

- Improved system rigidity
- Improved aesthetics and customer appeal
- Easy to install
- Easy to align straights and fittings
- Splice plate holds components together while hardware is inserted
- Premium design
- 3 in. tangents on fittings
- 7 in. Snap-in splice plate



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Horizontal Fittings Selection

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings.

This step of the cable tray selection process requires that the specifier chooses between two distinct styles U and H.

Note: The U-Style and H-Style systems are interchangeable.

U-Style Fitting

A U-shaped extrusion forms the fitting siderail.

U-Style fittings utilize a 7 in. splice plate and the fittings have tangents at the extremities.

This style offers maximum quality versus cost ratios of the installation.

H-Style Fitting

An H-shaped extrusion forms the fitting siderail.

H-Style fittings utilize a 7 in. splice plate and the fittings have 3 in. tangents at the extremities.

This style offers enhanced aesthetics to the end-user and increased system rigidity.

Fitting Number Selection

(AUF-6)-24-L-V060-12

Fitting Material	Fitting Style	Siderail Depth	Width	Bottom Type	Fitting Type	Angle **	Nominal Radius †
A • Aluminum	UF • U-Beam	4 • (4 in.)	06 • (6 in.)	L • Ladder * V • Ventilated *** S • Solid Trough ****	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VO • Vertical Outside Bend VTD • Vertical Tee Down VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left RT • Horizontal Reducing Tee ET • Horizontal Expanding Tee EX • Horiz. Expand Cross HLR • Horizontal Left Reducer HSR • Horizontal Straight Reducer HRR • Horizontal Right Reducer CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
	HF • H-Beam	5 • (5 in.) 6 • (6 in.) 7 • (7 in.)	09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)				
Prefix							

** Angle is required for HB, VI, VO only.

† Radius is not required for the following Fitting Types: HYR, HYL, HLR, HRR, HSR

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

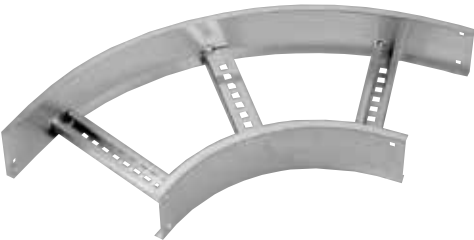


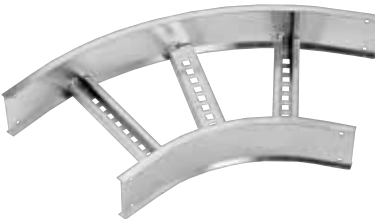




*** Manufactured with 4 in. edge to edge rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Fittings

Horizontal Fittings Selection Guide

Horizontal Bends


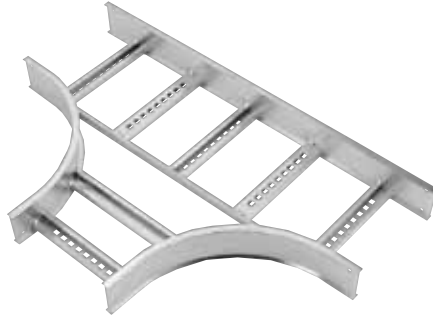
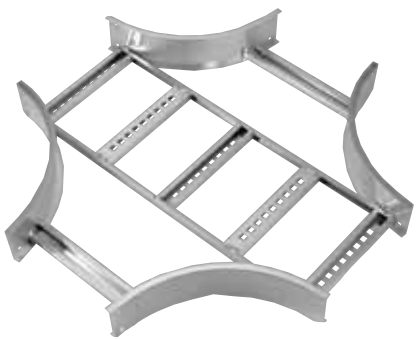
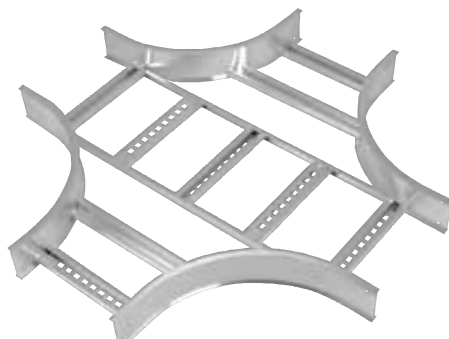
U-Style		H-Style	
	Page A60		Page A61
	90° Horizontal Bend		90° Horizontal Bend
	Page A60		Page A61
	60° Horizontal Bend		60° Horizontal Bend
	Page A62		Page A63
	45° Horizontal Bend		45° Horizontal Bend
	Page A62		Page A63
	30° Horizontal Bend		30° Horizontal Bend

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

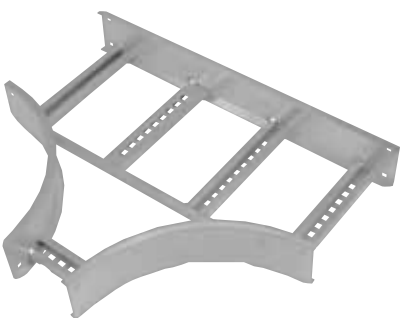
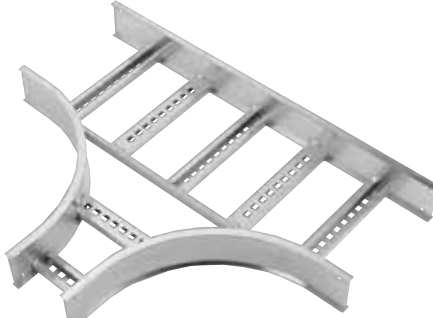
Fittings

Horizontal Fittings Selection Guide

Horizontal Tees, Crosses

U-Style		H-Style	
			
Page A64	Tee	Page A65	Tee
			
Page A64	Cross	Page A65	Cross

Horizontal Reducing Tees

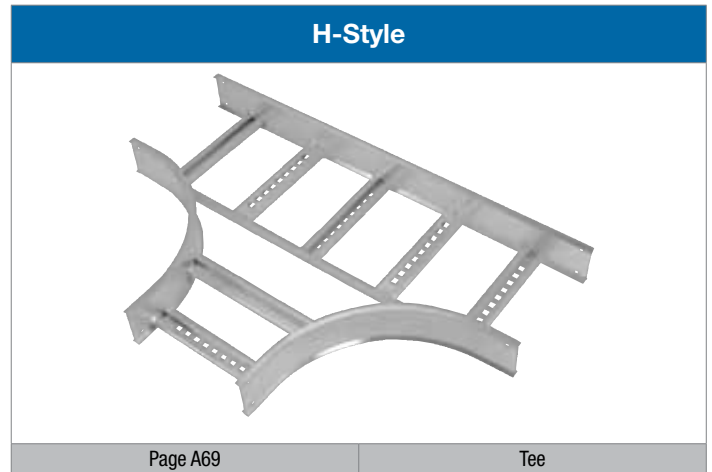
U-Style	H-Style
	
Page A66	Page A67

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

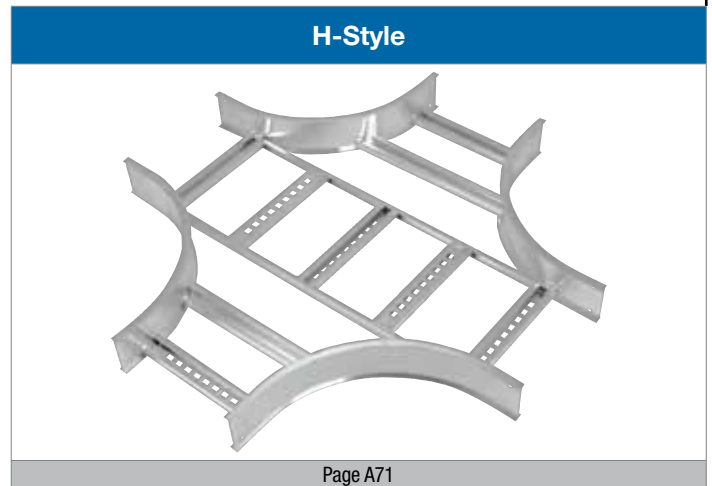
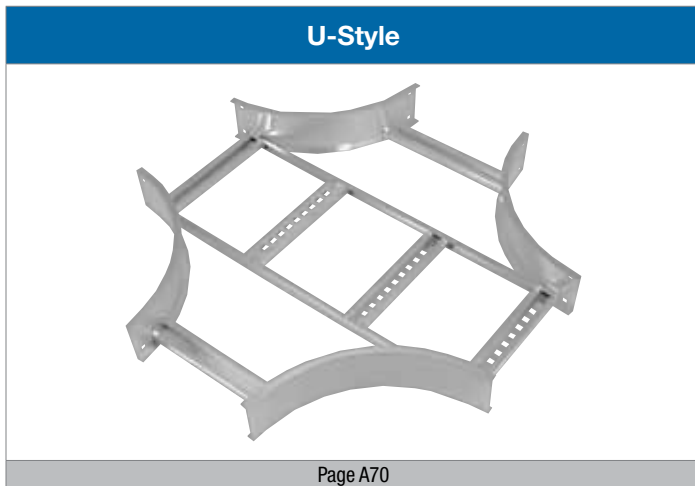
Fittings

Horizontal Fittings Selection Guide

Horizontal Expanding Tees



Horizontal Expanding Crosses



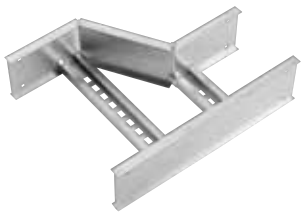
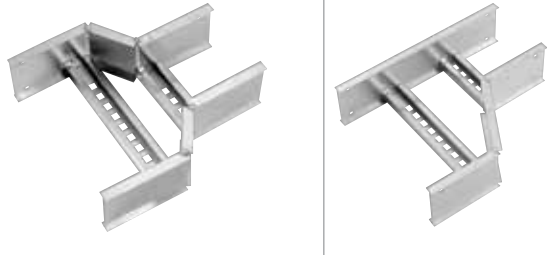
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings



Vertical Fittings Selection Guide

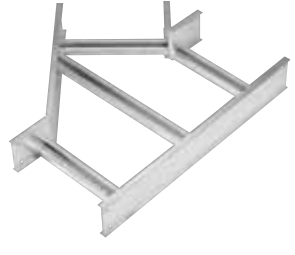

Reducers

U-Style	
	
Page A72	Offset Reducer - Right
	
Page A72	Reducer Straight
Page A72	Offset Reducer Left

H-Style	
	
Page A73	Offset Reducer - Right
	
Page A73	Reducer Straight
Page A73	Offset Reducer Left

Wyes

U-Style	
	
Page A74	Left Hand Wye
	
Page A74	Right Hand Wye



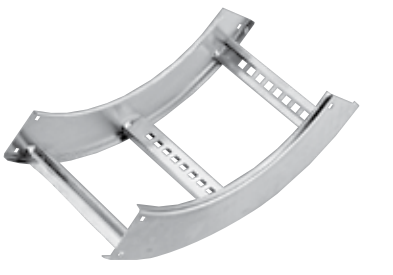





H-Style	
	
Page A75	Left Hand Wye
	
Page A75	Right Hand Wye

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Vertical Fittings Selection Guide

Vertical Bends



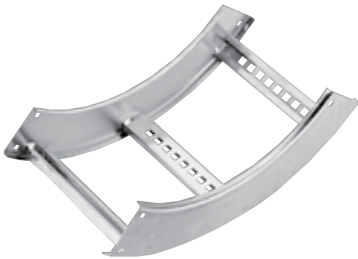

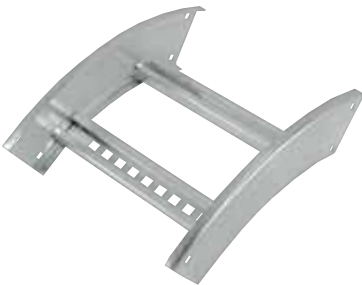



U-Style		H-Style	
	Page A76		Page A77
	90° Outside Bend		90° Outside Bend
	Page A76		Page A77
	90° Inside Bend		90° Inside Bend
	Page A78		Page A79
	60° Outside Bend		60° Outside Bend
	Page A78		Page A79
	60° Inside Bend		60° Inside Bend

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Vertical Fittings Selection Guide

Vertical Bends (Cont'd)

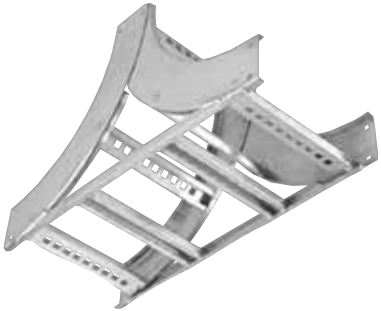



U-Style		H-Style	
	Page A80		Page A81
	45° Outside Bend		90° Outside Bend
	Page A80		Page A81
	45° Inside Bend		90° Inside Bend
	Page A82		Page A83
	30° Outside Bend		60° Outside Bend
	Page A82		Page A83
	30° Inside Bend		60° Inside Bend

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

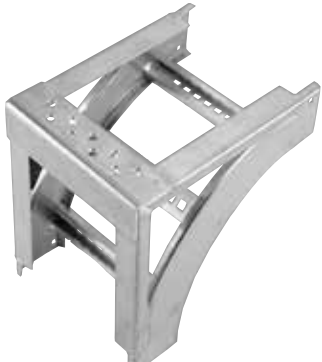

Fittings

Vertical Fittings Selection Guide

Vertical Tees Up / Down

U-Style		H-Style	
			
Page A84	Up	Page A85	Up
			
Page A84	Down	Page A85	Down

Cable Supports

U-Style	H-Style
	
Page A86	Page A87

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Bends 90° / 60°

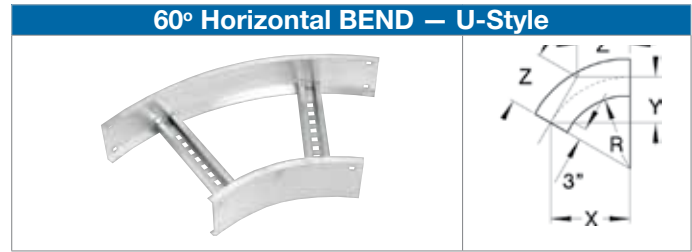
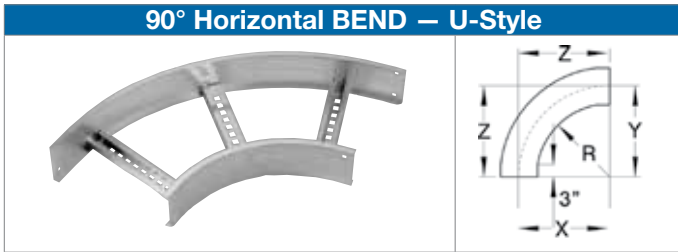
Part Numbering System

AUF-4-24-L-HB60-12

Fitting Material and Siderail | Width | Fitting Type | Nominal Radius
 Siderail Depth | Bottom Style | Angle

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°, 60°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in. – 7 in.



Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AUF(†)-06-(*)-HB90-12	15	15	15
	9	AUF(†)-09-(*)-HB90-12	16-1/2	16-1/2	16-1/2
	12	AUF(†)-12-(*)-HB90-12	18	18	18
	18	AUF(†)-18-(*)-HB90-12	21	21	21
	24	AUF(†)-24-(*)-HB90-12	24	24	24
	30	AUF(†)-30-(*)-HB90-12	27	27	27
24	36	AUF(†)-36-(*)-HB90-12	30	30	30
	6	AUF(†)-06-(*)-HB90-24	27	27	27
	9	AUF(†)-09-(*)-HB90-24	28-1/2	28-1/2	28-1/2
	12	AUF(†)-12-(*)-HB90-24	30	30	30
	18	AUF(†)-18-(*)-HB90-24	33	33	33
	24	AUF(†)-24-(*)-HB90-24	36	36	36
36	30	AUF(†)-30-(*)-HB90-24	39	39	39
	36	AUF(†)-36-(*)-HB90-24	42	42	42
	6	AUF(†)-06-(*)-HB90-36	39	39	39
	9	AUF(†)-09-(*)-HB90-36	40-1/2	40-1/2	40-1/2
	12	AUF(†)-12-(*)-HB90-36	42	42	42
	18	AUF(†)-18-(*)-HB90-36	45	45	45
48	24	AUF(†)-24-(*)-HB90-36	48	48	48
	30	AUF(†)-30-(*)-HB90-36	51	51	51
	36	AUF(†)-36-(*)-HB90-36	54	54	54
	6	AUF(†)-06-(*)-HB90-48	51	51	51
	9	AUF(†)-09-(*)-HB90-48	52-1/2	52-1/2	52-1/2
	12	AUF(†)-12-(*)-HB90-48	54	54	54
48	18	AUF(†)-18-(*)-HB90-48	57	57	57
	24	AUF(†)-24-(*)-HB90-48	60	60	60
	30	AUF(†)-30-(*)-HB90-48	63	63	63
	36	AUF(†)-36-(*)-HB90-48	66	66	66

Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AUF(†)-06-(*)-HB60-12	14-7/8	8-5/8	9-15/16
	9	AUF(†)-09-(*)-HB60-12	16-3/16	9-3/8	10-13/16
	12	AUF(†)-12-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	18	AUF(†)-18-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	24	AUF(†)-24-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	30	AUF(†)-30-(*)-HB60-12	25-5/16	14-5/8	16-7/8
24	36	AUF(†)-36-(*)-HB60-12	27-7/8	16-1/8	18-9/16
	6	AUF(†)-06-(*)-HB60-24	25-5/16	14-5/8	16-7/8
	9	AUF(†)-09-(*)-HB60-24	26-9/16	15-3/8	17-3/4
	12	AUF(†)-12-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	18	AUF(†)-18-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	24	AUF(†)-24-(*)-HB60-24	33-1/16	19-1/8	22-1/16
36	30	AUF(†)-30-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	36	AUF(†)-36-(*)-HB60-24	38-1/4	22-1/8	25-1/2
	6	AUF(†)-06-(*)-HB60-36	35-11/16	20-5/8	23-13/16
	9	AUF(†)-09-(*)-HB60-36	37	21-3/8	24-5/8
	12	AUF(†)-12-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	18	AUF(†)-18-(*)-HB60-36	40-7/8	23-5/8	27-2/8
48	24	AUF(†)-24-(*)-HB60-36	43-1/2	25-1/8	29
	30	AUF(†)-30-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	36	AUF(†)-36-(*)-HB60-36	48-11/16	28-1/8	32-7/16
	6	AUF(†)-06-(*)-HB60-48	46-1/16	26-5/8	30-11/16
	9	AUF(†)-09-(*)-HB60-48	47-3/8	27-3/8	31-9/16
	12	AUF(†)-12-(*)-HB60-48	48-11/16	28-1/8	32-7/16
48	18	AUF(†)-18-(*)-HB60-48	51-4/16	29-5/8	34-3/16
	24	AUF(†)-24-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	30	AUF(†)-30-(*)-HB60-48	56-7/16	32-5/8	37-5/8
	36	AUF(†)-36-(*)-HB60-48	59-1/16	34-1/8	39-3/8

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Bends 90° / 60°

Part Numbering System

AHF-4-24-L-HB60-12

Fitting Material and Siderail | Width | Fitting Type | Nominal Radius
 Siderail Depth | Bottom Style | Angle

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°, 60°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in. – 7 in.

90° Horizontal BEND – H-Style



60° Horizontal BEND – H-Style



Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	AHF(†)-06-(*)-HB90-12	18	18
	9	AHF(†)-09-(*)-HB90-12	19-1/2	19-1/2
	12	AHF(†)-12-(*)-HB90-12	21	21
	18	AHF(†)-18-(*)-HB90-12	24	24
	24	AHF(†)-24-(*)-HB90-12	27	27
	30	AHF(†)-30-(*)-HB90-12	30	30
	36	AHF(†)-36-(*)-HB90-12	33	33
24	6	AHF(†)-06-(*)-HB90-24	30	30
	9	AHF(†)-09-(*)-HB90-24	31-1/2	31-1/2
	12	AHF(†)-12-(*)-HB90-24	33	33
	18	AHF(†)-18-(*)-HB90-24	36	36
	24	AHF(†)-24-(*)-HB90-24	39	39
	30	AHF(†)-30-(*)-HB90-24	42	42
	36	AHF(†)-36-(*)-HB90-24	45	45
36	6	AHF(†)-06-(*)-HB90-36	42	42
	9	AHF(†)-09-(*)-HB90-36	43-1/2	43-1/2
	12	AHF(†)-12-(*)-HB90-36	45	45
	18	AHF(†)-18-(*)-HB90-36	48	48
	24	AHF(†)-24-(*)-HB90-36	51	51
	30	AHF(†)-30-(*)-HB90-36	54	54
	36	AHF(†)-36-(*)-HB90-36	57	57
48	6	AHF(†)-06-(*)-HB90-48	54	54
	9	AHF(†)-09-(*)-HB90-48	55-1/2	55-1/2
	12	AHF(†)-12-(*)-HB90-48	57	57
	18	AHF(†)-18-(*)-HB90-48	60	60
	24	AHF(†)-24-(*)-HB90-48	63	63
	30	AHF(†)-30-(*)-HB90-48	66	66
	36	AHF(†)-36-(*)-HB90-48	69	69

Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AHF(†)-06-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	9	AHF(†)-09-(*)-HB60-12	18-13/16	10-7/8	12-1/2
	12	AHF(†)-12-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	18	AHF(†)-18-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	24	AHF(†)-24-(*)-HB60-12	25-5/16	14-5/8	16-7/8
	30	AHF(†)-30-(*)-HB60-12	27-7/8	16-1/8	18-9/16
	36	AHF(†)-36-(*)-HB60-12	30-1/2	17-5/8	20-5/16
24	6	AHF(†)-06-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	9	AHF(†)-09-(*)-HB60-24	29-3/16	16-7/8	19-7/16
	12	AHF(†)-12-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	18	AHF(†)-18-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	24	AHF(†)-24-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	30	AHF(†)-30-(*)-HB60-24	38-1/4	22-1/8	25-1/2
	36	AHF(†)-36-(*)-HB60-24	40-7/8	23-5/8	27-1/4
36	6	AHF(†)-06-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	9	AHF(†)-09-(*)-HB60-36	39-9/16	22-7/8	26-3/8
	12	AHF(†)-12-(*)-HB60-36	40-7/8	23-5/8	27-1/4
	18	AHF(†)-18-(*)-HB60-36	43-1/2	25-1/8	29
	24	AHF(†)-24-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	30	AHF(†)-30-(*)-HB60-36	48-11/16	28-1/8	32-7/16
	36	AHF(†)-36-(*)-HB60-36	51-1/4	29-5/8	34-3/16
48	6	AHF(†)-06-(*)-HB60-48	48-11/16	28-1/8	32-7/16
	9	AHF(†)-09-(*)-HB60-48	49-15/16	28-7/8	33-5/16
	12	AHF(†)-12-(*)-HB60-48	51-1/4	29-5/8	34-3/16
	18	AHF(†)-18-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	24	AHF(†)-24-(*)-HB60-48	56-7/16	32-5/8	37-5/8
	30	AHF(†)-30-(*)-HB60-48	59-1/16	34-1/8	39-3/8
	36	AHF(†)-36-(*)-HB60-48	61-11/16	35-5/8	41-1/8

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Bends 45° / 30°

Part Numbering System

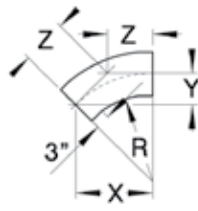
AUF-4-24-L-HB45-12

Fitting Material and Siderail | Siderail Depth | Width | Bottom Style | Fitting Type | Angle | Nominal Radius

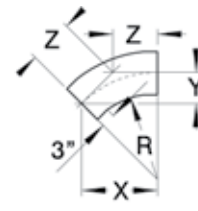
Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 45°, 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in. – 7 in.

45° Horizontal BEND – U-Style



30° Horizontal BEND – U-Style



Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AUF(†)-06-(*)-(+)-HB45-12	13-5/8	5-5/8	8
	9	AUF(†)-09-(*)-(+)-HB45-12	14-11/16	6-1/16	8-9/16
	12	AUF(†)-12-(*)-(+)-HB45-12	15-3/4	6-12	9-3/16
	18	AUF(†)-18-(*)-(+)-HB45-12	17-7/8	7-3/8	10-7/16
	24	AUF(†)-24-(*)-(+)-HB45-12	20	8-1/4	11-11/16
	30	AUF(†)-30-(*)-(+)-HB45-12	22-1/16	9-1/8	12-15/16
24	36	AUF(†)-36-(*)-(+)-HB45-12	24-3/16	10	14-3/16
	6	AUF(†)-06-(*)-(+)-HB45-24	22-1/16	9-1/8	12-15/16
	9	AUF(†)-09-(*)-(+)-HB45-24	23-1/8	9-9/16	13-9/16
	12	AUF(†)-12-(*)-(+)-HB45-24	24-3/16	10	14-3/16
	18	AUF(†)-18-(*)-(+)-HB45-24	26-5/16	10-15/16	15-7/16
	24	AUF(†)-24-(*)-(+)-HB45-24	28-7/16	11-13/16	16-11/16
36	30	AUF(†)-30-(*)-(+)-HB45-24	30-9/16	12-11/16	17-15/16
	36	AUF(†)-36-(*)-(+)-HB45-24	32-11/16	13-9/16	19-1/8
	6	AUF(†)-06-(*)-(+)-HB45-36	30-9/16	12-11/16	17-15/16
	9	AUF(†)-09-(*)-(+)-HB45-36	31-5/8	13-1/8	18-9/16
	12	AUF(†)-12-(*)-(+)-HB45-36	32-11/16	13-9/16	19-1/8
	18	AUF(†)-18-(*)-(+)-HB45-36	34-13/16	14-7/16	20-3/8
48	24	AUF(†)-24-(*)-(+)-HB45-36	36-15/16	15-5/16	21-5/8
	30	AUF(†)-30-(*)-(+)-HB45-36	39-1/16	16-3/16	22-7/8
	36	AUF(†)-36-(*)-(+)-HB45-36	41-3/16	17-1/16	24-1/8
	6	AUF(†)-06-(*)-(+)-HB45-48	39-1/16	16-3/16	22-7/8
	9	AUF(†)-09-(*)-(+)-HB45-48	40-1/8	16-3/8	23-1/2
	12	AUF(†)-12-(*)-(+)-HB45-48	41-3/16	17-1/16	24-1/8
48	18	AUF(†)-18-(*)-(+)-HB45-48	43-5/16	17-15/16	25-3/8
	24	AUF(†)-24-(*)-(+)-HB45-48	45-7/16	18-13/16	26-5/8
	30	AUF(†)-30-(*)-(+)-HB45-48	47-9/16	19-11/16	27-7/8
	36	AUF(†)-36-(*)-(+)-HB45-48	49-11/16	20-9/16	29-1/8

Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AUF(†)-06-(*)-(+)-HB30-12	11-5/8	3-18	6-3/16
	9	AUF(†)-09-(*)-(+)-HB30-12	12-3/8	3-5/16	6-5/8
	12	AUF(†)-12-(*)-(+)-HB30-12	13-1/2	3-1/2	7
	18	AUF(†)-18-(*)-(+)-HB30-12	14-5/8	3-15/16	7-13/16
	24	AUF(†)-24-(*)-(+)-HB30-12	16-1/8	4-5/16	8-5/8
	30	AUF(†)-30-(*)-(+)-HB30-12	17-5/8	4-11/16	9-7/16
24	36	AUF(†)-36-(*)-(+)-HB30-12	19-1/8	5-1/8	10-1/4
	6	AUF(†)-06-(*)-(+)-HB30-24	17-5/8	4-11/16	9-7/16
	9	AUF(†)-09-(*)-(+)-HB30-24	18-3/8	4-15/16	9-13/16
	12	AUF(†)-12-(*)-(+)-HB30-24	19-1/8	5-2/16	10-4/16
	18	AUF(†)-18-(*)-(+)-HB30-24	20-5/8	5-8/16	11-1/16
	24	AUF(†)-24-(*)-(+)-HB30-24	22-1/8	5-15/16	11-13/16
36	30	AUF(†)-30-(*)-(+)-HB30-24	23-5/8	6-5/16	12-10/16
	36	AUF(†)-36-(*)-(+)-HB30-24	25-1/8	6-12/16	13-7/16
	6	AUF(†)-06-(*)-(+)-HB30-36	23-5/8	6-5/16	12-5/8
	9	AUF(†)-09-(*)-(+)-HB30-36	24-3/8	6-1/2	13-1/16
	12	AUF(†)-12-(*)-(+)-HB30-36	25-1/8	6-3/4	13-7/16
	18	AUF(†)-18-(*)-(+)-HB30-36	26-5/8	7-1/4	14-1/4
48	24	AUF(†)-24-(*)-(+)-HB30-36	28-1/8	7-1/2	15-1/16
	30	AUF(†)-30-(*)-(+)-HB30-36	29-5/8	7-15/16	15-7/8
	36	AUF(†)-36-(*)-(+)-HB30-36	31-1/8	8-5/16	16-11/16
	6	AUF(†)-06-(*)-(+)-HB30-48	29-5/8	7-15/16	15-7/8
	9	AUF(†)-09-(*)-(+)-HB30-48	30-3/8	8-1/8	16-1/4
	12	AUF(†)-12-(*)-(+)-HB30-48	31-1/8	8-5/16	16-11/16
48	18	AUF(†)-18-(*)-(+)-HB30-48	32-5/8	8-3/4	17-1/2
	24	AUF(†)-24-(*)-(+)-HB30-48	34-1/8	9-1/8	18-1/4
	30	AUF(†)-30-(*)-(+)-HB30-48	35-5/8	9-9/16	19-1/16
	36	AUF(†)-36-(*)-(+)-HB30-48	37-1/8	9-15/16	19-7/8

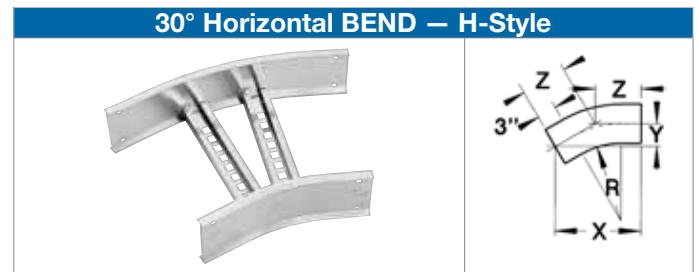
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Bends 45° / 30°

Part Numbering System			
AHF-4-24-L-HB45-12			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Angle	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 45°, 30°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L- Ladder, V- Ventilated, S- Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AHF(†)-06-(*)-HB45-12	15-3/4	6-1/2	9-3/16
	9	AHF(†)-09-(*)-HB45-12	16-13/16	6-15/16	9-13/16
	12	AHF(†)-12-(*)-HB45-12	17-7/8	7-3/8	10-7/16
	18	AHF(†)-18-(*)-HB45-12	20	8-1/4	11-11/16
	24	AHF(†)-24-(*)-HB45-12	22-1/16	9-1/8	12-15/16
	30	AHF(†)-30-(*)-HB45-12	24-3/16	10	14-3/16
	36	AHF(†)-36-(*)-HB45-12	26-5/16	10-15/16	15-7/16
24	6	AHF(†)-06-(*)-HB45-24	24-3/16	10	14-3/16
	9	AHF(†)-09-(*)-HB45-24	25-1/4	10-1/2	14-13/16
	12	AHF(†)-12-(*)-HB45-24	26-5/16	10-15/16	15-7/16
	18	AHF(†)-18-(*)-HB45-24	28-7/16	11-13/16	16-11/16
	24	AHF(†)-24-(*)-HB45-24	30-9/16	12-11/16	17-15/16
	30	AHF(†)-30-(*)-HB45-24	32-11/16	13-9/16	19-1/8
	36	AHF(†)-36-(*)-HB45-24	34-13/16	14-7/8	20-3/8
36	6	AHF(†)-06-(*)-HB45-36	32-11/16	13-9/16	19-1/8
	9	AHF(†)-09-(*)-HB45-36	33-3/4	14	19-3/4
	12	AHF(†)-12-(*)-HB45-36	34-13/16	14-7/16	20-3/8
	18	AHF(†)-18-(*)-HB45-36	36-15/16	15-5/16	21-5/8
	24	AHF(†)-24-(*)-HB45-36	39-1/16	16-3/16	22-7/8
	30	AHF(†)-30-(*)-HB45-36	41-3/16	17-1/16	24-1/8
	36	AHF(†)-36-(*)-HB45-36	43-5/16	17-15/16	25-3/8
48	6	AHF(†)-06-(*)-HB45-48	41-3/16	17-1/16	24-1/8
	9	AHF(†)-09-(*)-HB45-48	42-1/4	17-1/2	24-3/4
	12	AHF(†)-12-(*)-HB45-48	43-5/16	17-15/16	25-3/8
	18	AHF(†)-18-(*)-HB45-48	45-7/16	18-13/16	26-5/8
	24	AHF(†)-24-(*)-HB45-48	47-9/16	19-11/16	27-3/4
	30	AHF(†)-30-(*)-HB45-48	49-11/16	20-9/16	29-1/8
	36	AHF(†)-36-(*)-HB45-48	51-13/16	21-7/16	30-5/16

Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	AHF(†)-06-(*)-HB30-12	13-1/8	3-1/2	7
	9	AHF(†)-09-(*)-HB30-12	13-7/8	3-11/16	7-7/16
	12	AHF(†)-12-(*)-HB30-12	14-5/8	3-15/16	7-13/16
	18	AHF(†)-18-(*)-HB30-12	16-1/8	4-5/16	8-5/8
	24	AHF(†)-24-(*)-HB30-12	17-5/8	4-11/16	9-7/8
	30	AHF(†)-30-(*)-HB30-12	19-1/8	5-1/8	10-1/4
	36	AHF(†)-36-(*)-HB30-12	20-5/8	5-1/2	11-1/16
24	6	AHF(†)-06-(*)-HB30-24	19-1/8	5-1/8	10-1/4
	9	AHF(†)-09-(*)-HB30-24	19-7/8	5-5/16	10-5/8
	12	AHF(†)-12-(*)-HB30-24	20-5/8	5-1/2	11-1/16
	18	AHF(†)-18-(*)-HB30-24	22-1/8	5-5/16	11-13/16
	24	AHF(†)-24-(*)-HB30-24	23-5/8	6-5/16	12-5/8
	30	AHF(†)-30-(*)-HB30-24	25-1/8	6-3/4	13-7/16
	36	AHF(†)-36-(*)-HB30-24	26-5/8	7-1/8	14-1/4
36	6	AHF(†)-06-(*)-HB30-36	25-1/8	6-3/4	13-7/16
	9	AHF(†)-09-(*)-HB30-36	25-7/8	6-15/16	13-7/8
	12	AHF(†)-12-(*)-HB30-36	26-5/8	7-1/8	14-1/4
	18	AHF(†)-18-(*)-HB30-36	28-1/8	7-1/2	15-1/16
	24	AHF(†)-24-(*)-HB30-36	29-5/8	7-15/16	15-7/8
	30	AHF(†)-30-(*)-HB30-36	31-1/8	8-5/16	16-11/16
	36	AHF(†)-36-(*)-HB30-36	32-5/8	8-3/4	17-1/2
48	6	AHF(†)-06-(*)-HB30-48	31-1/8	8-5/16	16-11/16
	9	AHF(†)-09-(*)-HB30-48	31-7/8	8-9/16	17-1/16
	12	AHF(†)-12-(*)-HB30-48	32-5/8	8-3/4	17-1/2
	18	AHF(†)-18-(*)-HB30-48	34-1/8	9-1/8	18-1/4
	24	AHF(†)-24-(*)-HB30-48	35-5/8	9-9/16	19-1/16
	30	AHF(†)-30-(*)-HB30-48	37-1/8	9-15/16	19-7/8
	36	AHF(†)-36-(*)-HB30-48	38-5/8	10-5/16	20-11/16

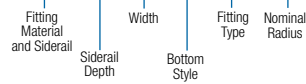
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Tee, Cross

Part Numbering System

AUF-5-06-L-HT-12



Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.

Horizontal TEE – U-Style



Horizontal CROSS – U-Style



Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	AUF(†)-06-(*)-HT12	15	30
	9	AUF(†)-09-(*)-HT12	16-1/2	33
	12	AUF(†)-12-(*)-HT12	18	36
	18	AUF(†)-18-(*)-HT12	21	42
	24	AUF(†)-24-(*)-HT12	24	48
	30	AUF(†)-30-(*)-HT12	27	54
24	6	AUF(†)-06-(*)-HT24	27	54
	9	AUF(†)-09-(*)-HT24	28-1/2	57
	12	AUF(†)-12-(*)-HT24	30	60
	18	AUF(†)-18-(*)-HT24	33	66
	24	AUF(†)-24-(*)-HT24	36	72
	30	AUF(†)-30-(*)-HT24	39	78
36	6	AUF(†)-06-(*)-HT36	39	78
	9	AUF(†)-09-(*)-HT36	40-1/2	81
	12	AUF(†)-12-(*)-HT36	42	84
	18	AUF(†)-18-(*)-HT36	45	90
	24	AUF(†)-24-(*)-HT36	48	96
	30	AUF(†)-30-(*)-HT36	51	102
48	6	AUF(†)-06-(*)-HT48	51	102
	9	AUF(†)-09-(*)-HT48	52-1/2	105
	12	AUF(†)-12-(*)-HT48	54	108
	18	AUF(†)-18-(*)-HT48	57	114
	24	AUF(†)-24-(*)-HT48	60	120
	30	AUF(†)-30-(*)-HT48	63	126
36	AUF(†)-36-(*)-HT48	66	132	

Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	AUF(†)-06-(*)-HX12	15	30
	9	AUF(†)-09-(*)-HX12	16-1/2	33
	12	AUF(†)-12-(*)-HX12	18	36
	18	AUF(†)-18-(*)-HX12	21	42
	24	AUF(†)-24-(*)-HX12	24	48
	30	AUF(†)-30-(*)-HX12	27	54
24	6	AUF(†)-06-(*)-HX24	27	54
	9	AUF(†)-09-(*)-HX24	28-1/2	57
	12	AUF(†)-12-(*)-HX24	30	60
	18	AUF(†)-18-(*)-HX24	33	66
	24	AUF(†)-24-(*)-HX24	36	72
	30	AUF(†)-30-(*)-HX24	39	78
36	6	AUF(†)-06-(*)-HX36	39	78
	9	AUF(†)-09-(*)-HX36	40-1/2	81
	12	AUF(†)-12-(*)-HX36	42	84
	18	AUF(†)-18-(*)-HX36	45	90
	24	AUF(†)-24-(*)-HX36	48	96
	30	AUF(†)-30-(*)-HX36	51	102
48	6	AUF(†)-06-(*)-HX48	51	102
	9	AUF(†)-09-(*)-HX48	52-1/2	105
	12	AUF(†)-12-(*)-HX48	54	108
	18	AUF(†)-18-(*)-HX48	57	114
	24	AUF(†)-24-(*)-HX48	60	120
	30	AUF(†)-30-(*)-HX48	63	126
36	AUF(†)-36-(*)-HX48	66	132	

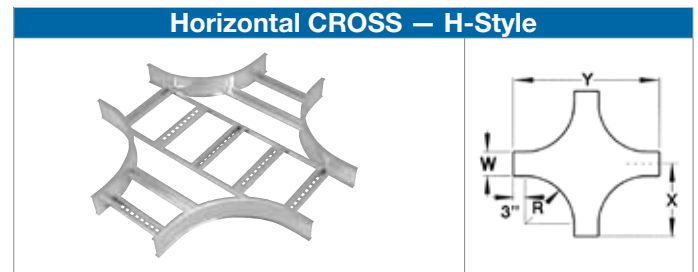
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Tee, Cross

Part Numbering System			
AHF-5-06-L-HT-12			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style		

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius R	Width	Cat. No.	Dimensions	
			X	Y
12	6	AHF(t)-06-(*)-HT12	18	36
	9	AHF(t)-09-(*)-HT12	19-1/2	39
	12	AHF(t)-12-(*)-HT12	21	42
	18	AHF(t)-18-(*)-HT12	24	48
	24	AHF(t)-24-(*)-HT12	27	54
	30	AHF(t)-30-(*)-HT12	30	60
24	36	AHF(t)-36-(*)-HT12	33	66
	6	AHF(t)-06-(*)-HT24	30	60
	9	AHF(t)-09-(*)-HT24	31-1/2	63
	12	AHF(t)-12-(*)-HT24	33	66
	18	AHF(t)-18-(*)-HT24	36	72
	24	AHF(t)-24-(*)-HT24	39	78
36	30	AHF(t)-30-(*)-HT24	42	84
	36	AHF(t)-36-(*)-HT24	45	90
	6	AHF(t)-06-(*)-HT36	42	84
	9	AHF(t)-09-(*)-HT36	43-1/2	87
	12	AHF(t)-12-(*)-HT36	45	90
	18	AHF(t)-18-(*)-HT36	48	96
48	24	AHF(t)-24-(*)-HT36	51	102
	30	AHF(t)-30-(*)-HT36	54	108
	36	AHF(t)-36-(*)-HT36	57	114
	6	AHF(t)-06-(*)-HT48	54	108
	9	AHF(t)-09-(*)-HT48	55-1/2	111
	12	AHF(t)-12-(*)-HT48	57	114
	18	AHF(t)-18-(*)-HT48	60	120
	24	AHF(t)-24-(*)-HT48	63	126
	30	AHF(t)-30-(*)-HT48	66	132
	36	AHF(t)-36-(*)-HT48	69	138

Nominal Radius R	Width	Cat. No.	Dimensions	
			X	Y
12	6	AHF(t)-06-(*)-HX12	18	36
	9	AHF(t)-09-(*)-HX12	19-1/2	39
	12	AHF(t)-12-(*)-HX12	21	42
	18	AHF(t)-18-(*)-HX12	24	48
	24	AHF(t)-24-(*)-HX12	27	54
	30	AHF(t)-30-(*)-HX12	30	60
24	36	AHF(t)-36-(*)-HX12	33	66
	6	AHF(t)-06-(*)-HX24	30	60
	9	AHF(t)-09-(*)-HX24	31-1/2	63
	12	AHF(t)-12-(*)-HX24	33	66
	18	AHF(t)-18-(*)-HX24	36	72
	24	AHF(t)-24-(*)-HX24	39	78
36	30	AHF(t)-30-(*)-HX24	42	84
	36	AHF(t)-36-(*)-HX24	45	90
	6	AHF(t)-06-(*)-HX36	42	84
	9	AHF(t)-09-(*)-HX36	43-1/2	87
	12	AHF(t)-12-(*)-HX36	45	90
	18	AHF(t)-18-(*)-HX36	48	96
48	24	AHF(t)-24-(*)-HX36	51	102
	30	AHF(t)-30-(*)-HX36	54	108
	36	AHF(t)-36-(*)-HX36	57	114
	6	AHF(t)-06-(*)-HX48	54	108
	9	AHF(t)-09-(*)-HX48	55-1/2	111
	12	AHF(t)-12-(*)-HX48	57	114
	18	AHF(t)-18-(*)-HX48	60	120
	24	AHF(t)-24-(*)-HX48	63	126
	30	AHF(t)-30-(*)-HX48	66	132
	36	AHF(t)-36-(*)-HX48	69	138

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Reducing Tee

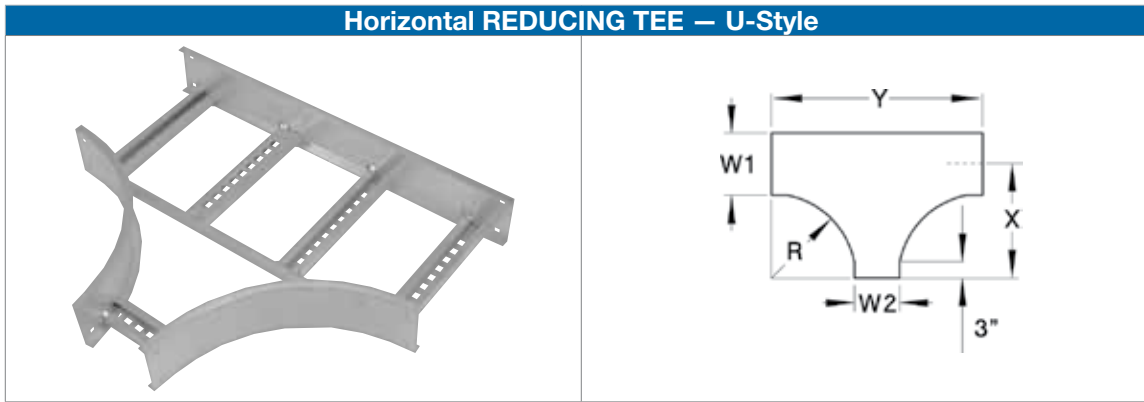
Part Numbering System

AUF-7-36-24-L-RT-12

Fitting Material and Siderail: AUF
 Siderail Depth: 7
 Width 1: 36
 Bottom Style: L
 Width 2: 24
 Fitting Type: RT
 Nominal Radius: 12

Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9
 Tray Widths W2: 30, 24, 18, 12, 9, 6
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.



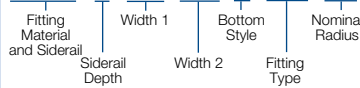
Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)		(+ 48 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	30	AUF(+)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	AUF(+)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
	18	AUF(+)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	AUF(+)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	AUF(+)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	AUF(+)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	AUF(+)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	AUF(+)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
	12	AUF(+)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	AUF(+)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	AUF(+)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	AUF(+)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
	12	AUF(+)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	AUF(+)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	AUF(+)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	AUF(+)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
	9	AUF(+)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	AUF(+)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	AUF(+)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	AUF(+)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	AUF(+)-0906-(*)-RT(+)	16-1/2	30	28-1/2	54	40-1/2	78	52-1/2	102

Fittings

H-Style Fittings Horizontal Reducing Tee

Part Numbering System

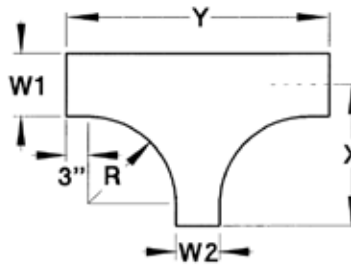
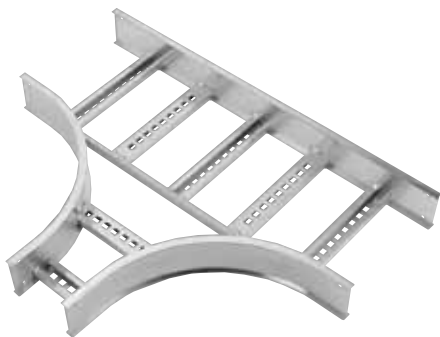
AHF-7-36-24-L-RT-12



Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9
 Tray Widths W2: 30, 24, 18, 12, 9, 6
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.

Horizontal REDUCING TEE – H-Style



Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)		(+ 48 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	30	AHF(+)-3630-(*)-RT(+)	33	60	45	84	57	108	69	132
	24	AHF(+)-3624-(*)-RT(+)	33	54	45	78	57	102	69	126
	18	AHF(+)-3618-(*)-RT(+)	33	48	45	72	57	96	69	120
	12	AHF(+)-3612-(*)-RT(+)	33	42	45	66	57	90	69	114
	9	AHF(+)-3609-(*)-RT(+)	33	39	45	63	57	87	69	111
	6	AHF(+)-3606-(*)-RT(+)	33	36	45	60	57	84	69	108
30	24	AHF(+)-3024-(*)-RT(+)	30	54	42	78	54	102	66	126
	18	AHF(+)-3018-(*)-RT(+)	30	48	42	72	54	96	66	120
	12	AHF(+)-3012-(*)-RT(+)	30	42	42	66	54	90	66	114
	9	AHF(+)-3009-(*)-RT(+)	30	39	42	63	54	87	66	111
	6	AHF(+)-3006-(*)-RT(+)	30	36	42	60	54	84	66	108
24	18	AHF(+)-2418-(*)-RT(+)	27	48	39	72	51	96	63	120
	12	AHF(+)-2412-(*)-RT(+)	27	42	39	66	51	90	63	114
	9	AHF(+)-2409-(*)-RT(+)	27	39	39	63	51	87	63	111
	6	AHF(+)-2406-(*)-RT(+)	27	36	39	60	51	84	63	108
18	12	AHF(+)-1812-(*)-RT(+)	24	42	36	66	48	90	60	114
	9	AHF(+)-1809-(*)-RT(+)	24	39	36	63	48	87	60	111
	6	AHF(+)-1806-(*)-RT(+)	24	36	36	60	48	84	60	108
12	9	AHF(+)-1209-(*)-RT(+)	21	39	33	63	45	87	57	111
	6	AHF(+)-1206-(*)-RT(+)	21	36	33	60	45	84	57	108
9	6	AHF(+)-0906-(*)-RT(+)	19-1/2	36	31-1/2	60	43-1/2	84	55-1/2	108

Fittings

U-Style Fittings Horizontal Expanding Tee

Part Numbering System

AUF-4-06-09-L-ET-24

Fitting Material and Siderail: AUF
Siderail Depth: 4
Width 1: 06
Width 2: 09
Bottom Style: L
Fitting Type: ET
Nominal Radius: 24

Selection Guide

Tray Widths W1: 30, 24, 18, 12, 9, 6
Tray Widths W2: 36, 30, 24, 18, 12, 9
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Siderail Depth: 4 in. – 7 in.



Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)		(+ 48 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	AUF(+)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
	30	AUF(+)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	AUF(+)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
	24	AUF(+)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
	30	AUF(+)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
18	36	AUF(+)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
	18	AUF(+)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	AUF(+)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
12	30	AUF(+)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	AUF(+)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
	12	AUF(+)-0912-(*)-ET(+)	16-1/2	36	28-1/2	60	40-1/2	84	52-1/2	108
	18	AUF(+)-0918-(*)-ET(+)	16-1/2	42	28-1/2	66	40-1/2	90	52-1/2	114
9	24	AUF(+)-0924-(*)-ET(+)	16-1/2	48	28-1/2	72	40-1/2	96	52-1/2	120
	30	AUF(+)-0930-(*)-ET(+)	16-1/2	54	28-1/2	78	40-1/2	102	52-1/2	126
	36	AUF(+)-0936-(*)-ET(+)	16-1/2	60	28-1/2	84	40-1/2	108	52-1/2	132
	9	AUF(+)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
6	12	AUF(+)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	AUF(+)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
	24	AUF(+)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	AUF(+)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	AUF(+)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132

(+) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Expanding Tee

Part Numbering System

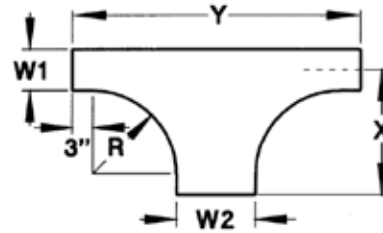
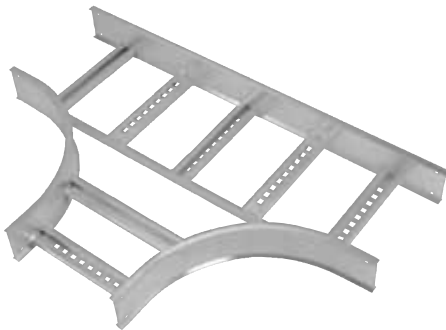
AHF-4-06-09-L-ET-24



Selection Guide

Tray Widths W1: 30, 24, 18, 12, 9, 6
 Tray Widths W2: 36, 30, 24, 18, 12, 9
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.

Horizontal EXPANDING TEE – H-Style



Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)		(+ 48 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	AHF(†)-3036-(*)-ET(+)	30	66	42	90	54	114	66	138
	30	AHF(†)-2430-(*)-ET(+)	27	60	39	84	51	108	63	132
24	36	AHF(†)-2436-(*)-ET(+)	27	66	39	90	51	114	63	138
	24	AHF(†)-1824-(*)-ET(+)	24	54	36	78	48	102	60	126
18	30	AHF(†)-1830-(*)-ET(+)	24	60	36	84	48	108	60	132
	36	AHF(†)-1836-(*)-ET(+)	24	66	36	90	48	114	60	138
12	18	AHF(†)-1218-(*)-ET(+)	21	48	33	72	45	96	57	120
	24	AHF(†)-1224-(*)-ET(+)	21	54	33	78	45	102	57	126
	30	AHF(†)-1230-(*)-ET(+)	21	60	33	84	45	108	57	132
	36	AHF(†)-1236-(*)-ET(+)	21	66	33	90	45	114	57	138
9	12	AHF(†)-0912-(*)-ET(+)	19-1/2	42	31-1/2	66	43-1/2	90	55-1/2	114
	18	AHF(†)-0918-(*)-ET(+)	19-1/2	48	31-1/2	72	43-1/2	96	55-1/2	120
	24	AHF(†)-0924-(*)-ET(+)	19-1/2	54	31-1/2	78	43-1/2	102	55-1/2	126
	30	AHF(†)-0930-(*)-ET(+)	19-1/2	60	31-1/2	84	43-1/2	108	55-1/2	132
	36	AHF(†)-0936-(*)-ET(+)	19-1/2	66	31-1/2	90	43-1/2	114	55-1/2	138
6	9	AHF(†)-0609-(*)-ET(+)	18	39	30	63	42	87	54	111
	12	AHF(†)-0612-(*)-ET(+)	18	42	30	66	42	90	54	114
	18	AHF(†)-0618-(*)-ET(+)	18	48	30	72	42	96	54	120
	24	AHF(†)-0624-(*)-ET(+)	18	54	30	78	42	102	54	126
	30	AHF(†)-0630-(*)-ET(+)	18	60	30	84	42	108	54	132
	36	AHF(†)-0636-(*)-ET(+)	18	66	30	90	42	114	54	138

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Expanding Cross

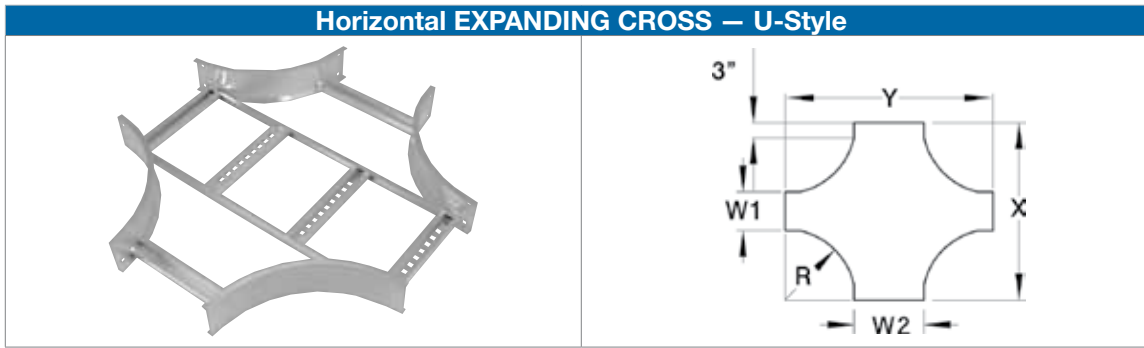
Part Numbering System

AUF-5-18-24-L-EX36

Fitting Material and Siderail | Width 1 | Bottom Style | Nominal Radius
 Siderail Depth | Width 2 | Fitting Type

Selection Guide

Tray Widths W1: 30, 24, 18, 12, 9, 6
 Tray Widths W2: 36, 30, 24, 18, 12, 9
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.



Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)		(+ 48 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	AUF(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
	30	AUF(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
24	36	AUF(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
	24	AUF(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
18	30	AUF(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
	36	AUF(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
12	18	AUF(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
	24	AUF(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
	30	AUF(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
	36	AUF(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
9	12	AUF(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
	18	AUF(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
	24	AUF(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
	30	AUF(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
	36	AUF(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
6	9	AUF(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
	12	AUF(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
	18	AUF(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
	24	AUF(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
	30	AUF(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
	36	AUF(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Expanding Cross

Part Numbering System

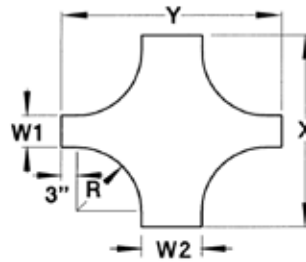
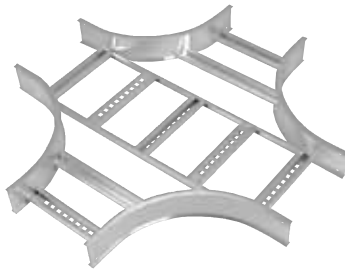
AHF-5-30-36-L-EX-36



Selection Guide

Tray Widths W1: 30, 24, 18, 12, 9, 6
 Tray Widths W2: 36, 30, 24, 18, 12, 9
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.

Horizontal EXPANDING CROSS – H-Style



Widths		Cat. No.	(+) 12 in. Nominal Radius		(+) 24 in. Nominal Radius		(+) 36 in. Nominal Radius		(+) 48 in. Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	AHF(+)-3036-(*)-EX(+)	60	66	84	90	108	114	132	138
	30	AHF(+)-2430-(*)-EX(+)	54	60	78	84	102	108	126	132
24	36	AHF(+)-2436-(*)-EX(+)	54	66	78	90	102	114	126	138
	24	AHF(+)-1824-(*)-EX(+)	48	54	72	78	96	102	120	126
18	30	AHF(+)-1830-(*)-EX(+)	48	60	72	84	96	108	120	132
	36	AHF(+)-1836-(*)-EX(+)	48	66	72	90	96	114	120	138
	18	AHF(+)-1218-(*)-EX(+)	42	48	66	72	90	96	114	120
12	24	AHF(+)-1224-(*)-EX(+)	42	54	66	78	90	102	114	126
	30	AHF(+)-1230-(*)-EX(+)	42	60	66	84	90	108	114	132
	36	AHF(+)-1236-(*)-EX(+)	42	66	66	90	90	114	114	138
	12	AHF(+)-0912-(*)-EX(+)	39	42	63	66	87	90	111	114
9	18	AHF(+)-0918-(*)-EX(+)	39	48	63	72	87	96	111	120
	24	AHF(+)-0924-(*)-EX(+)	39	54	63	78	87	102	111	126
	30	AHF(+)-0930-(*)-EX(+)	39	60	63	84	87	108	111	132
	36	AHF(+)-0936-(*)-EX(+)	39	66	63	90	87	114	111	138
	9	AHF(+)-0609-(*)-EX(+)	36	39	60	63	84	87	108	111
6	12	AHF(+)-0612-(*)-EX(+)	36	42	60	66	84	90	108	114
	18	AHF(+)-0618-(*)-EX(+)	36	48	60	72	84	96	108	120
	24	AHF(+)-0624-(*)-EX(+)	36	54	60	78	84	102	108	126
	30	AHF(+)-0630-(*)-EX(+)	36	60	60	84	84	108	108	132
	36	AHF(+)-0636-(*)-EX(+)	36	66	60	90	84	114	108	138

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. – 48 in.). Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Reducers

Part Numbering System

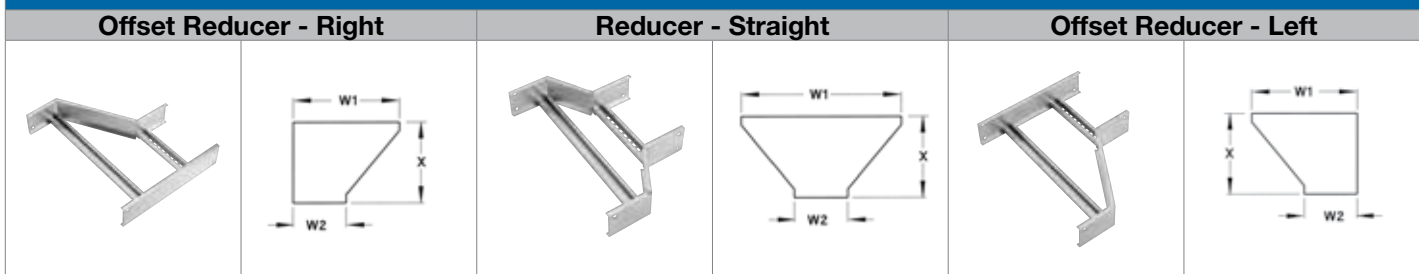
AUF-6-36-18-L-HLR



Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9
 Tray Widths W2: 30, 24, 18, 12, 9, 6
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.

Horizontal REDUCERS – U-Style



Widths		Left Reducer		Straight Reducer (Concentric)		Right Reducer	
W1	W2	Cat. No.	Dim. X	Cat. No.	Dim. X	Cat. No.	Dim. X
36	30	AUF(†)-36-30-(*)-HLR	15-7/16	AUF(†)-36-30-(*)-HSR	13-3/4	AUF(†)-36-30-(*)-HRR	15-7/16
	24	AUF(†)-36-24-(*)-HLR	18-15/16	AUF(†)-36-24-(*)-HSR	15-7/16	AUF(†)-36-24-(*)-HRR	18-15/16
	18	AUF(†)-36-18-(*)-HLR	22-3/8	AUF(†)-36-18-(*)-HSR	17-3/8	AUF(†)-36-18-(*)-HRR	22-3/8
	12	AUF(†)-36-12-(*)-HLR	25-7/8	AUF(†)-36-12-(*)-HSR	18-5/16	AUF(†)-36-12-(*)-HRR	25-7/8
	9	AUF(†)-36-09-(*)-HLR	27-9/16	AUF(†)-36-09-(*)-HSR	19-13/16	AUF(†)-36-09-(*)-HRR	27-9/16
	6	AUF(†)-36-06-(*)-HLR	29-5/16	AUF(†)-36-06-(*)-HSR	20-11/16	AUF(†)-36-06-(*)-HRR	29-5/16
30	24	AUF(†)-30-24-(*)-HLR	15-7/16	AUF(†)-30-24-(*)-HSR	13-3/4	AUF(†)-30-24-(*)-HRR	15-7/16
	18	AUF(†)-30-18-(*)-HLR	18-15/16	AUF(†)-30-18-(*)-HSR	15-7/16	AUF(†)-30-18-(*)-HRR	18-15/16
	12	AUF(†)-30-12-(*)-HLR	22-3/8	AUF(†)-30-12-(*)-HSR	17-3/16	AUF(†)-30-12-(*)-HRR	22-3/8
	9	AUF(†)-30-09-(*)-HLR	24-1/8	AUF(†)-30-09-(*)-HSR	18-1/16	AUF(†)-30-09-(*)-HRR	24-1/8
	6	AUF(†)-30-06-(*)-HLR	25-7/8	AUF(†)-30-06-(*)-HSR	18-15/16	AUF(†)-30-06-(*)-HRR	25-7/8
24	18	AUF(†)-24-18-(*)-HLR	15-7/16	AUF(†)-24-18-(*)-HSR	13-3/4	AUF(†)-24-18-(*)-HRR	15-7/16
	12	AUF(†)-24-12-(*)-HLR	18-15/16	AUF(†)-24-12-(*)-HSR	15-7/16	AUF(†)-24-12-(*)-HRR	18-15/16
	9	AUF(†)-24-09-(*)-HLR	20-11/16	AUF(†)-24-09-(*)-HSR	16-5/16	AUF(†)-24-09-(*)-HRR	20-11/16
	6	AUF(†)-24-06-(*)-HLR	22-3/8	AUF(†)-24-06-(*)-HSR	17-3/16	AUF(†)-24-06-(*)-HRR	22-3/8
18	12	AUF(†)-18-12-(*)-HLR	15-7/16	AUF(†)-18-12-(*)-HSR	13-3/4	AUF(†)-18-12-(*)-HRR	15-7/16
	9	AUF(†)-18-09-(*)-HLR	17-3/16	AUF(†)-18-09-(*)-HSR	14-5/8	AUF(†)-18-09-(*)-HRR	17-3/16
	6	AUF(†)-18-06-(*)-HLR	18-15/16	AUF(†)-18-06-(*)-HSR	15-7/16	AUF(†)-18-06-(*)-HRR	18-15/16
12	9	AUF(†)-12-09-(*)-HLR	13-3/4	AUF(†)-12-09-(*)-HSR	12-7/8	AUF(†)-12-09-(*)-HRR	13-3/4
	6	AUF(†)-12-06-(*)-HLR	15-7/16	AUF(†)-12-06-(*)-HSR	13-3/4	AUF(†)-12-06-(*)-HRR	15-7/16
9	6	AUF(†)-09-06-(*)-HLR	13-3/4	AUF(†)-09-06-(*)-HSR	12-7/8	AUF(†)-09-06-(*)-HRR	13-3/4

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Reducers

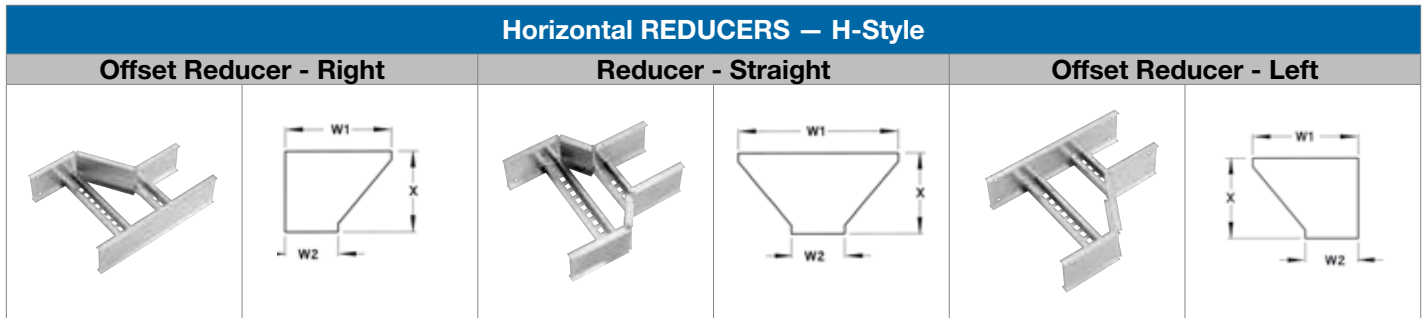
Part Numbering System

AHF-6-36-18-L-HLR

Fitting Material and Siderail | Width 1 | Bottom Style | Fitting Type
 Siderail Depth | Width 2

Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9
 Tray Widths W2: 30, 24, 18, 12, 9, 6
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.



Widths		Left Reducer		Straight Reducer (Concentric)		Right Reducer	
W1	W2	Cat. No.	Dim. X	Cat. No.	Dim. X	Cat. No.	Dim. X
36	30	AHF(†)-36-30-(*)-HLR	15-7/16	AHF(†)-36-30-(*)-HSR	13-3/4	AHF(†)-36-30-(*)-HRR	15-7/16
	24	AHF(†)-36-24-(*)-HLR	18-15/16	AHF(†)-36-24-(*)-HSR	15-7/16	AHF(†)-36-24-(*)-HRR	18-15/16
	18	AHF(†)-36-18-(*)-HLR	22-3/8	AHF(†)-36-18-(*)-HSR	17-3/8	AHF(†)-36-18-(*)-HRR	22-3/8
	12	AHF(†)-36-12-(*)-HLR	25-7/8	AHF(†)-36-12-(*)-HSR	18-5/16	AHF(†)-36-12-(*)-HRR	25-7/8
	9	AHF(†)-36-09-(*)-HLR	27-9/16	AHF(†)-36-09-(*)-HSR	19-13/16	AHF(†)-36-09-(*)-HRR	27-9/16
	6	AHF(†)-36-06-(*)-HLR	29-5/16	AHF(†)-36-06-(*)-HSR	20-11/16	AHF(†)-36-06-(*)-HRR	29-5/16
30	24	AHF(†)-30-24-(*)-HLR	15-7/16	AHF(†)-30-24-(*)-HSR	13-3/4	AHF(†)-30-24-(*)-HRR	15-7/16
	18	AHF(†)-30-18-(*)-HLR	18-15/16	AHF(†)-30-18-(*)-HSR	15-7/16	AHF(†)-30-18-(*)-HRR	18-15/16
	12	AHF(†)-30-12-(*)-HLR	22-3/8	AHF(†)-30-12-(*)-HSR	17-3/16	AHF(†)-30-12-(*)-HRR	22-3/8
	9	AHF(†)-30-09-(*)-HLR	24-1/8	AHF(†)-30-09-(*)-HSR	18-1/16	AHF(†)-30-09-(*)-HRR	24-1/8
	6	AHF(†)-30-06-(*)-HLR	25-7/8	AHF(†)-30-06-(*)-HSR	18-15/16	AHF(†)-30-06-(*)-HRR	25-7/8
24	18	AHF(†)-24-18-(*)-HLR	15-7/16	AHF(†)-24-18-(*)-HSR	13-3/4	AHF(†)-24-18-(*)-HRR	15-7/16
	12	AHF(†)-24-12-(*)-HLR	18-15/16	AHF(†)-24-12-(*)-HSR	15-7/16	AHF(†)-24-12-(*)-HRR	18-15/16
	9	AHF(†)-24-09-(*)-HLR	20-11/16	AHF(†)-24-09-(*)-HSR	16-5/16	AHF(†)-24-09-(*)-HRR	20-11/16
	6	AHF(†)-24-06-(*)-HLR	22-3/8	AHF(†)-24-06-(*)-HSR	17-3/16	AHF(†)-24-06-(*)-HRR	22-3/8
18	12	AHF(†)-18-12-(*)-HLR	15-7/16	AHF(†)-18-12-(*)-HSR	13-3/4	AHF(†)-18-12-(*)-HRR	15-7/16
	9	AHF(†)-18-09-(*)-HLR	17-3/16	AHF(†)-18-09-(*)-HSR	14-5/8	AHF(†)-18-09-(*)-HRR	17-3/16
	6	AHF(†)-18-06-(*)-HLR	18-15/16	AHF(†)-18-06-(*)-HSR	15-7/16	AHF(†)-18-06-(*)-HRR	18-15/16
12	9	AHF(†)-12-09-(*)-HLR	13-3/4	AHF(†)-12-09-(*)-HSR	12-7/8	AHF(†)-12-09-(*)-HRR	13-3/4
	6	AHF(†)-12-06-(*)-HLR	15-7/16	AHF(†)-12-06-(*)-HSR	13-3/4	AHF(†)-12-06-(*)-HRR	15-7/16
9	6	AHF(†)-09-06-(*)-HLR	13-3/4	AHF(†)-09-06-(*)-HSR	12-7/8	AHF(†)-09-06-(*)-HRR	13-3/4

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Horizontal Wye 45°

Part Numbering System

AUF-6-36-L-HYL

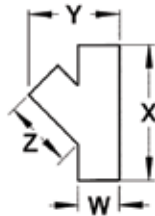
Fitting Material and Siderail | Width | Fitting Type
 Siderail Depth | Bottom Style

Selection Guide

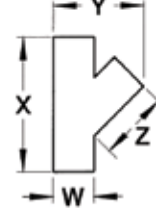
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in.– 7 in.

45° Horizontal WYE – U-Style

Left Hand Wye



Right Hand Wye



Width	Left Hand Wye Cat. No.	Right Hand Wye Cat. No.	Dimensions		
			X	Y	Z
6	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
9	AUF(†)-09-(*)-HYL	AUF(†)-09-(*)-HYR	22-1/2	19-15/16	15-7/16
12	AUF(†)-12-(*)-HYL	AUF(†)-12-(*)-HYR	26-3/4	25	18-7/16
18	AUF(†)-18-(*)-HYL	AUF(†)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	AUF(†)-24-(*)-HYL	AUF(†)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	AUF(†)-30-(*)-HYL	AUF(†)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	AUF(†)-36-(*)-HYL	AUF(†)-36-(*)-HYR	60-11/16	66	42-7/16

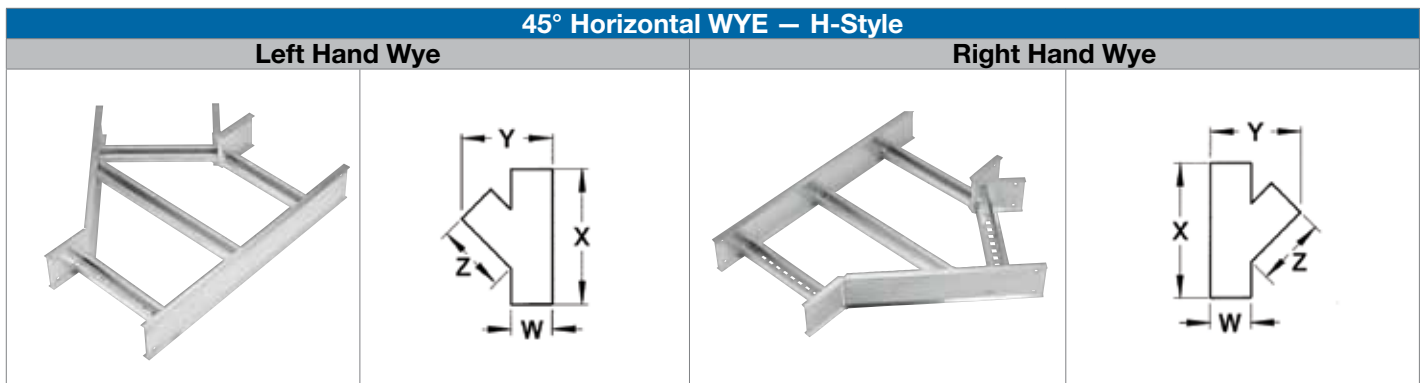
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Horizontal Wye 45°

Part Numbering System		
AHF-6-36-L-HYL		
Fitting Material and Siderail	Width	Fitting Type
Siderail Depth	Bottom Style	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Siderail Depth: 4 in.– 7 in.



Width	Left Hand Wye Cat. No.	Right Hand Wye Cat. No.	Dimensions		
			X	Y	Z
6	AHF(†)-06-(*)-HYL	AHF(†)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
9	AHF(†)-09-(*)-HYL	AHF(†)-09-(*)-HYR	22-1/2	19-15/16	15-7/16
12	AHF(†)-12-(*)-HYL	AHF(†)-12-(*)-HYR	26-3/4	25	18-7/16
18	AHF(†)-18-(*)-HYL	AHF(†)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	AHF(†)-24-(*)-HYL	AHF(†)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	AHF(†)-30-(*)-HYL	AHF(†)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	AHF(†)-36-(*)-HYL	AHF(†)-36-(*)-HYR	60-11/16	66	42-7/16

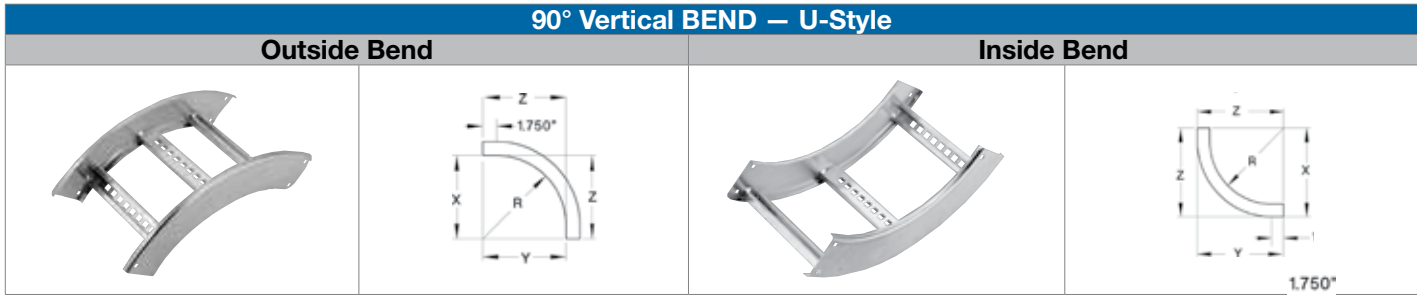
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Vertical Bends 90°

Part Numbering System			
AUF-7-30-L-VI90-36			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Degree	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 90°
Radius: 12, 24, 36, 48
Bottom Styles: L- Ladder, V- Ventilated, S- Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius	R	Width	Cat. No.	(+ V0 Siderail)			(+ VI Siderail Height)												
				Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.			
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6		AUF(+)-06-(*)-(+90-12																
	9		AUF(+)-09-(*)-(+90-12																
	12		AUF(+)-12-(*)-(+90-12																
	18		AUF(+)-18-(*)-(+90-12	12	12	12	17-15/16	17-15/16	17-15/16	18-13/16	18-13/16	18-13/16	20	20	20	21	21	21	
	24		AUF(+)-24-(*)-(+90-12																
	30		AUF(+)-30-(*)-(+90-12																
24	6		AUF(+)-06-(*)-(+90-24																
	9		AUF(+)-09-(*)-(+90-24																
	12		AUF(+)-12-(*)-(+90-24																
	18		AUF(+)-18-(*)-(+90-24	24	24	24	29-15/16	29-15/16	29-15/16	30-13/16	30-13/16	30-13/16	32	32	32	33	33	33	
	24		AUF(+)-24-(*)-(+90-24																
	30		AUF(+)-30-(*)-(+90-24																
36	6		AUF(+)-06-(*)-(+90-36																
	9		AUF(+)-09-(*)-(+90-36																
	12		AUF(+)-12-(*)-(+90-36																
	18		AUF(+)-18-(*)-(+90-36	36	36	36	41-15/16	41-15/16	41-15/16	42-13/16	42-13/16	42-13/16	44	44	44	33	33	33	
	24		AUF(+)-24-(*)-(+90-36																
	30		AUF(+)-30-(*)-(+90-36																
48	6		AUF(+)-06-(*)-(+90-48																
	9		AUF(+)-09-(*)-(+90-48																
	12		AUF(+)-12-(*)-(+90-48																
	18		AUF(+)-18-(*)-(+90-48	48	48	48	53-15/16	53-15/16	53-15/16	54-13/16	54-13/16	54-13/16	56	56	56	57	57	57	
	24		AUF(+)-24-(*)-(+90-48																
	30		AUF(+)-30-(*)-(+90-48																

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Vertical Bends 90°

Part Numbering System

AHF-7-30-L-VI90-36

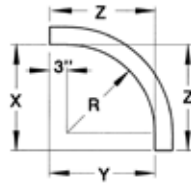


Selection Guide

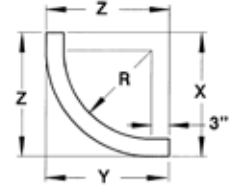
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°
 Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in. – 7 in.

90° Vertical BEND – H-Style

Outside Bend



Inside Bend



Nominal Radius	Width	Cat. No.	(+ VO Siderail			(+ VI Siderail Height													
			Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.				
R			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
12	6	AHF(t)-06-(*)-(+)90-12																	
	9	AHF(t)-09-(*)-(+)90-12																	
	12	AHF(t)-12-(*)-(+)90-12																	
	18	AHF(t)-18-(*)-(+)90-12	15	15	15	19-3/16	19-3/16	19-3/16	20-1/16	20-1/16	20-1/16	21-1/4	21-1/4	21-1/4	22-1/4	22-1/4	22-1/4	22-1/4	
	24	AHF(t)-24-(*)-(+)90-12																	
	36	AHF(t)-36-(*)-(+)90-12																	
24	6	AHF(t)-06-(*)-(+)90-24																	
	9	AHF(t)-09-(*)-(+)90-24																	
	12	AHF(t)-12-(*)-(+)90-24																	
	18	AHF(t)-18-(*)-(+)90-24	27	27	27	31-3/16	31-3/16	31-3/16	32-1/16	32-1/16	32-1/16	33-1/4	33-1/4	33-1/4	34-1/4	34-1/4	34-1/4	34-1/4	
	24	AHF(t)-24-(*)-(+)90-24																	
	36	AHF(t)-36-(*)-(+)90-24																	
36	6	AHF(t)-06-(*)-(+)90-36																	
	9	AHF(t)-09-(*)-(+)90-36																	
	12	AHF(t)-12-(*)-(+)90-36																	
	18	AHF(t)-18-(*)-(+)90-36	39	39	39	43-3/16	43-3/16	43-3/16	44-1/16	44-1/16	44-1/16	45-1/4	45-1/4	45-1/4	46-1/4	46-1/4	46-1/4	46-1/4	
	24	AHF(t)-24-(*)-(+)90-36																	
	36	AHF(t)-36-(*)-(+)90-36																	
48	6	AHF(t)-06-(*)-(+)90-48																	
	9	AHF(t)-09-(*)-(+)90-48																	
	12	AHF(t)-12-(*)-(+)90-48																	
	18	AHF(t)-18-(*)-(+)90-48	51	51	51	55-3/16	55-3/16	55-3/16	56-1/16	56-1/16	56-1/16	57-1/4	57-1/4	57-1/4	58-1/4	58-1/4	58-1/4	58-1/4	
	24	AHF(t)-24-(*)-(+)90-48																	
	36	AHF(t)-36-(*)-(+)90-48																	

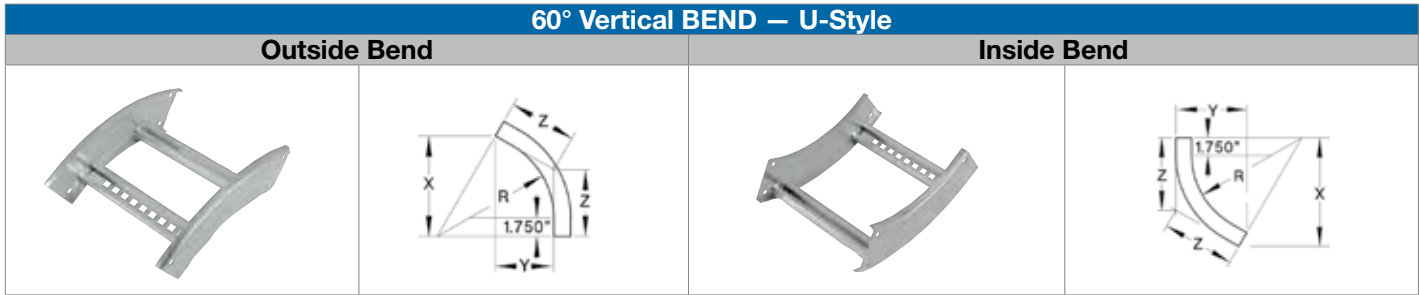
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Vertical Bends 60°

Part Numbering System			
AUF-7-36-V-VO60-24			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Degree	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 60°
Radius: 12, 24, 36, 48
Bottom Styles: L- Ladder, V- Ventilated, S- Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius	R	Width	Cat. No.	(+) VO Siderail			(+) VI Siderail Height													
				Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.				
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
12	6		AUF(+)-06-(*)-(+)60-12																	
	9		AUF(+)-09-(*)-(+)60-12																	
	12		AUF(+)-12-(*)-(+)60-12																	
	18		AUF(+)-18-(*)-(+)60-12	13	7-1/2	8-11/16	16-5/8	11-11/16	11-1/16	17-7/16	12-5/8	11-5/8	18-3/8	13-11/16	12-1/4	19-5/16	14-3/4	12-7/8		
	24		AUF(+)-24-(*)-(+)60-12																	
	36		AUF(+)-36-(*)-(+)60-12																	
24	6		AUF(+)-06-(*)-(+)60-24																	
	9		AUF(+)-09-(*)-(+)60-24																	
	12		AUF(+)-12-(*)-(+)60-24																	
	18		AUF(+)-18-(*)-(+)60-24	23-7/16	13-1/2	15-5/8	27	17-11/16	18	27-13/16	18-5/8	16-9/16	28-3/4	19-11/16	19-3/16	29-11/16	20-3/4	19-13/16		
	24		AUF(+)-24-(*)-(+)60-24																	
	36		AUF(+)-36-(*)-(+)60-24																	
36	6		AUF(+)-06-(*)-(+)60-36																	
	9		AUF(+)-09-(*)-(+)60-36																	
	12		AUF(+)-12-(*)-(+)60-36																	
	18		AUF(+)-18-(*)-(+)60-36	33-13/16	19-1/2	22-9/16	37-7/16	23-11/16	24-15/16	38-3/16	24-5/8	25-7/16	39-3/16	25-11/16	26-1/8	40-1/16	26-3/4	26-11/16		
	24		AUF(+)-24-(*)-(+)60-36																	
	36		AUF(+)-36-(*)-(+)60-36																	
48	6		AUF(+)-06-(*)-(+)60-48																	
	9		AUF(+)-09-(*)-(+)60-48																	
	12		AUF(+)-12-(*)-(+)60-48																	
	18		AUF(+)-18-(*)-(+)60-48	44-3/16	25-1/2	29-7/16	47-13/16	29-11/16	31-7/8	48-9/16	30-5/8	32-3/8	49-9/16	31-11/16	33-1/16	50-7/16	32-3/4	33-5/8		
	24		AUF(+)-24-(*)-(+)60-48																	
	36		AUF(+)-36-(*)-(+)60-48																	

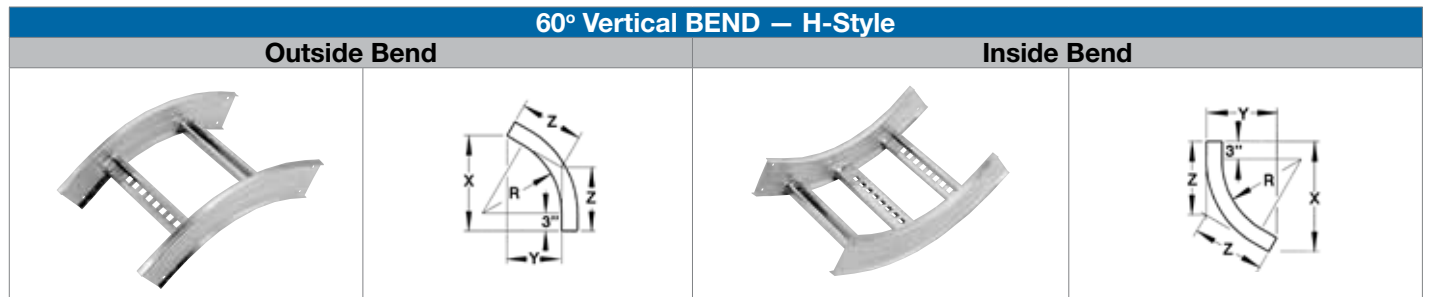
(+) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Vertical Bends 60°

Part Numbering System			
AHF-7-36-V-VO60-24			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Degree	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 60°
Radius: 12, 24, 36, 48
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius	R	Width	Cat. No.	(+ VO Siderail			(+ VI Siderail Height												
				Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.			
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6		AHF(†)-06-(*)-(+)60-12																
	9		AHF(†)-09-(*)-(+)60-12																
	12		AHF(†)-12-(*)-(+)60-12																
	18		AHF(†)-18-(*)-(+)60-12	14-7/8	8-5/8	9-15/16	18-1/2	12-3/4	12-5/16	19-5/16	13-11/16	12-7/8	20-5/16	14-13/16	13-1/2	21-1/8	15-13/16	14-1/8	
	24		AHF(†)-24-(*)-(+)60-12																
	30		AHF(†)-30-(*)-(+)60-12																
24	6		AHF(†)-06-(*)-(+)60-24																
	9		AHF(†)-09-(*)-(+)60-24																
	12		AHF(†)-12-(*)-(+)60-24																
	18		AHF(†)-18-(*)-(+)60-24	25-5/16	14-5/8	16-7/8	28-7/8	18-3/4	19-1/4	29-11/16	19-11/16	19-13/16	30-11/16	20-13/16	20-7/16	31-9/16	21-13/16	21	
	24		AHF(†)-24-(*)-(+)60-24																
	30		AHF(†)-30-(*)-(+)60-24																
36	6		AHF(†)-06-(*)-(+)60-36																
	9		AHF(†)-09-(*)-(+)60-36																
	12		AHF(†)-12-(*)-(+)60-36																
	18		AHF(†)-18-(*)-(+)60-36	35-11/16	20-5/8	23-13/16	39-5/16	24-3/4	26-3/16	40-1/16	25-11/16	26-11/16	41-1/16	26-13/16	27-3/8	41-15/16	27-13/16	27-15/16	
	24		AHF(†)-24-(*)-(+)60-36																
	30		AHF(†)-30-(*)-(+)60-36																
48	6		AHF(†)-06-(*)-(+)60-48																
	9		AHF(†)-09-(*)-(+)60-48																
	12		AHF(†)-12-(*)-(+)60-48																
	18		AHF(†)-18-(*)-(+)60-48	46-1/16	26-5/8	30-11/16	49-11/16	30-3/4	33-1/8	50-7/16	31-11/16	33-5/8	51-1/2	32-13/16	34-5/16	52-5/16	33-13/16	34-7/8	
	24		AHF(†)-24-(*)-(+)60-48																
	30		AHF(†)-30-(*)-(+)60-48																

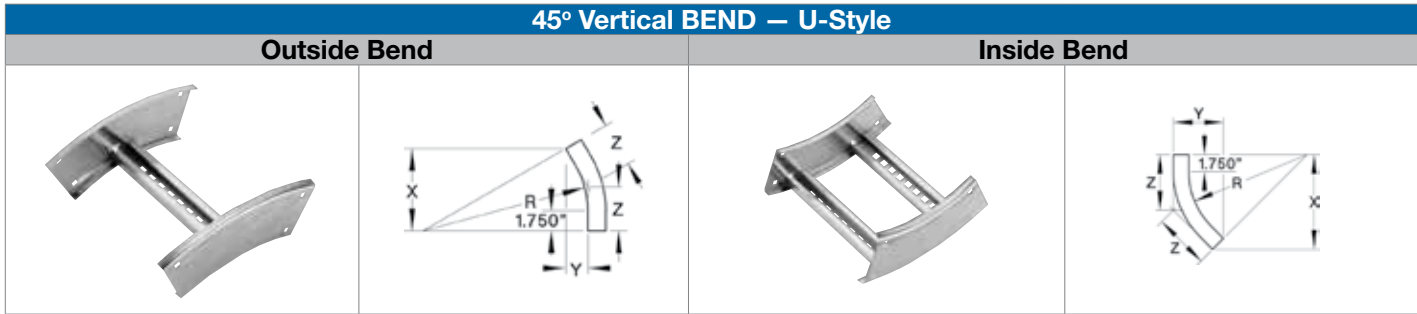
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Vertical Bends 45°

Part Numbering System			
AUF-5-24-S-VI45-48			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Degree	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 45°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L– Ladder, V– Ventilated, S– Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius	Cat. No.	(+ VO Siderail			(+ VI Siderail Height												
		Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.			
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6 AUF(+)-06-(*)-(+)-45-12																
	9 AUF(+)-09-(*)-(+)-45-12																
	12 AUF(+)-12-(*)-(+)-45-12																
	18 AUF(+)-18-(*)-(+)-45-12	11-1/2	4-3/4	6-3/4	14-7/16	8-15/16	8-7/16	15-1/16	9-13/16	8-13/16	15-7/8	10-15/16	9-5/16	16-9/16	12	9-3/4	
	24 AUF(+)-24-(*)-(+)-45-12																
	30 AUF(+)-30-(*)-(+)-45-12																
24	6 AUF(+)-06-(*)-(+)-45-24																
	9 AUF(+)-09-(*)-(+)-45-24																
	12 AUF(+)-12-(*)-(+)-45-24																
	18 AUF(+)-18-(*)-(+)-45-24	19-15/16	8-1/4	11-11/16	22-15/16	12-7/16	13-7/16	23-9/16	13-3/8	13-13/16	24-5/16	14-7/16	14-1/4	25-1/16	15-1/2	14-11/16	
	24 AUF(+)-24-(*)-(+)-45-24																
	30 AUF(+)-30-(*)-(+)-45-24																
36	6 AUF(+)-06-(*)-(+)-45-36																
	9 AUF(+)-09-(*)-(+)-45-36																
	12 AUF(+)-12-(*)-(+)-45-36																
	18 AUF(+)-18-(*)-(+)-45-36	28-7/16	11-13/16	16-11/16	31-3/8	15-15/16	18-3/8	32-1/16	16-7/8	18-3/4	32-13/16	18	19-1/4	33-9/16	19	19-11/16	
	24 AUF(+)-24-(*)-(+)-45-36																
	30 AUF(+)-30-(*)-(+)-45-36																
48	6 AUF(+)-06-(*)-(+)-45-48																
	9 AUF(+)-09-(*)-(+)-45-48																
	12 AUF(+)-12-(*)-(+)-45-48																
	18 AUF(+)-18-(*)-(+)-45-48	36-15/16	15-5/16	21-5/8	39-7/8	19-1/2	23-3/8	40-1/2	20-3/8	23-3/4	41-5/16	21-1/2	24-3/16	42-1/16	22-9/16	24-5/8	
	24 AUF(+)-24-(*)-(+)-45-48																
	30 AUF(+)-30-(*)-(+)-45-48																

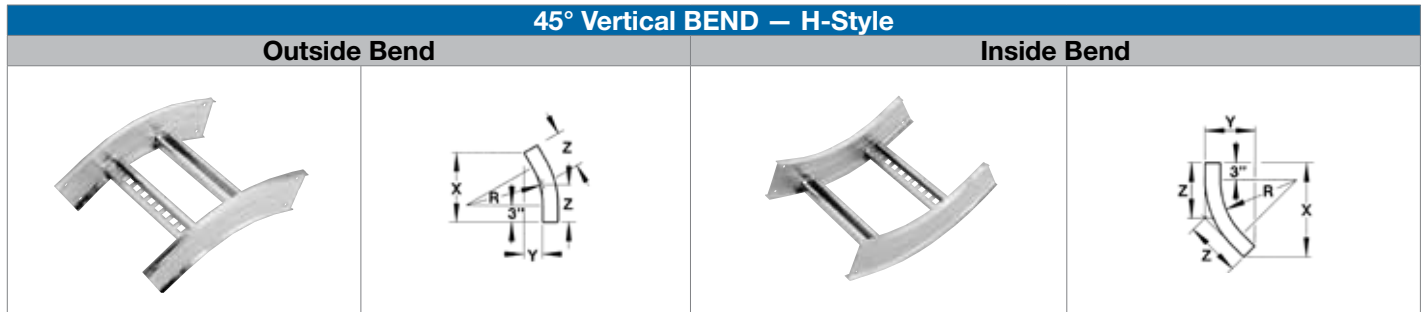
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Vertical Bends 45°

Part Numbering System			
AHF-5-24-S-VI45-48			
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Degree	

Selection Guide
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 45°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L- Ladder, V- Ventilated, S- Solid
Siderail Depth: 4 in. – 7 in.



Nominal Radius	R	Width	Cat. No.	(+ VO Siderail			(+ VI Siderail Height											
				Height 4 in. – 7 in.			4 in.		5 in.		6 in.		7 in.					
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z			
12		6	AHF(t)-06-(*)-(+45-12															
		9	AHF(t)-09-(*)-(+45-12															
		12	AHF(t)-12-(*)-(+45-12															
		18	AHF(t)-18-(*)-(+45-12	13-5/8	5-5/8	8	16-9/16	9-13/16	9-11/16	17-3/16	10-11/16	10-1/16	18	11-7/8	10-9/16	18-11/16	12-7/8	10-15/16
		24	AHF(t)-24-(*)-(+45-12															
		30	AHF(t)-30-(*)-(+45-12															
24		6	AHF(t)-06-(*)-(+45-24															
		9	AHF(t)-09-(*)-(+45-24															
		12	AHF(t)-12-(*)-(+45-24															
		18	AHF(t)-18-(*)-(+45-24	22-1/16	9-1/8	12-15/16	25-1/16	13-5/16	14-11/16	25-11/16	14-1/4	15-1/16	26-1/2	15-3/8	15-1/2	27-3/16	16-3/8	15-15/16
		24	AHF(t)-24-(*)-(+45-24															
		30	AHF(t)-30-(*)-(+45-24															
36		6	AHF(t)-06-(*)-(+45-36															
		9	AHF(t)-09-(*)-(+45-36															
		12	AHF(t)-12-(*)-(+45-36															
		18	AHF(t)-18-(*)-(+45-36	30-9/16	12-11/16	17-15/16	33-1/2	16-13/16	19-5/8	34-3/16	17-3/4	20	35	18-7/8	20-1/2	35-11/16	19-7/8	20-7/8
		24	AHF(t)-24-(*)-(+45-36															
		30	AHF(t)-30-(*)-(+45-36															
48		6	AHF(t)-06-(*)-(+45-48															
		9	AHF(t)-09-(*)-(+45-48															
		12	AHF(t)-12-(*)-(+45-48															
		18	AHF(t)-18-(*)-(+45-48	39-1/16	16-3/16	22-7/8	42	20-3/8	24-5/8	42-5/8	21-1/4	25	43-1/2	22-7/16	25-7/16	44-3/16	23-3/8	25-7/8
		24	AHF(t)-24-(*)-(+45-48															
		30	AHF(t)-30-(*)-(+45-48															

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Vertical Bends 30°

Part Numbering System

AUF-6-12-L-VO30-24

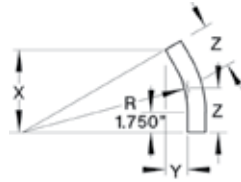
Fitting Material and Siderail	Width	Fitting Type	Nominal Radius
Siderail Depth	Bottom Style	Degree	

Selection Guide

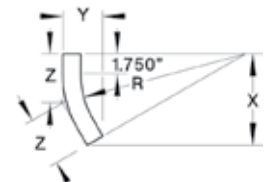
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in.– 7 in.

30° Vertical BEND – U-Style

Outside Bend



Inside Bend



Nominal Radius	R	Width	Cat. No.	(+ VO Siderail			(+ VI Siderail Height												
				Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.			
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6		AUF(+)-06-(*)-(+)30-12																
	9		AUF(+)-09-(*)-(+)30-12																
	12		AUF(+)-12-(*)-(+)30-12																
	18		AUF(+)-18-(*)-(+)30-12	9-1/4	2-1/2	4-15/16	11-3/8	6-11/16	6-1/16	11-13/16	7-9/16	6-5/16	12-3/8	8-11/16	6-5/8	12-7/8	9-3/4	6-7/8	
	24		AUF(+)-24-(*)-(+)30-12																
	36		AUF(+)-36-(*)-(+)30-12																
24	6		AUF(+)-06-(*)-(+)30-24																
	9		AUF(+)-09-(*)-(+)30-24																
	12		AUF(+)-12-(*)-(+)30-24																
	18		AUF(+)-18-(*)-(+)30-24	15-1/4	4-1/16	8-3/16	17-3/8	8-1/4	9-5/16	17-13/16	9-3/16	9-9/16	18-3/8	10-1/4	9-13/16	18-7/8	11-5/16	10-1/8	
	24		AUF(+)-24-(*)-(+)30-24																
	36		AUF(+)-36-(*)-(+)30-24																
36	6		AUF(+)-06-(*)-(+)30-36																
	9		AUF(+)-09-(*)-(+)30-36																
	12		AUF(+)-12-(*)-(+)30-36																
	18		AUF(+)-18-(*)-(+)30-36	21-1/4	5-11/16	11-3/8	23-3/8	9-7/8	12-1/2	23-13/16	10-3/4	12-3/4	24-3/8	11-7/8	13-1/16	24-7/8	12-15/16	13-5/16	
	24		AUF(+)-24-(*)-(+)30-36																
	36		AUF(+)-36-(*)-(+)30-36																
48	6		AUF(+)-06-(*)-(+)30-48																
	9		AUF(+)-09-(*)-(+)30-48																
	12		AUF(+)-12-(*)-(+)30-48																
	18		AUF(+)-18-(*)-(+)30-48	21-1/4	7-5/16	14-5/8	29-3/8	11-1/2	15-3/4	29-13/16	12-3/8	16	30-3/8	13-1/2	16-1/4	30-7/8	14-9/16	16-9/16	
	24		AUF(+)-24-(*)-(+)30-48																
	36		AUF(+)-36-(*)-(+)30-48																

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Vertical Bends 30°

Part Numbering System

AHF-6-12-L-VO30-24

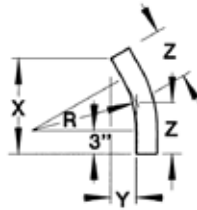


Selection Guide

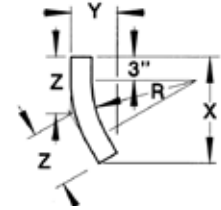
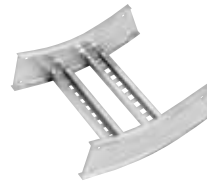
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in. – 7 in.

30° Vertical BEND – H-Style

Outside Bend



Inside Bend



Nominal Radius	R	Width	Cat. No.	(+ VO Siderail			(+ VI Siderail Height												
				Height 4 in. – 7 in.			4 in.			5 in.			6 in.			7 in.			
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6		AHF(+)-06-(*)-(+30-12																
	9		AHF(+)-09-(*)-(+30-12																
	12		AHF(+)-12-(*)-(+30-12																
	18		AHF(+)-18-(*)-(+30-12	11-5/8	3-1/8	6-3/16	13-11/16	7-5/16	7-5/16	14-1/8	8-3/16	7-9/16	14-11/16	9-3/8	7-7/8	13-11/16	10-5/16	8-1/8	
	24		AHF(+)-24-(*)-(+30-12																
	30		AHF(+)-30-(*)-(+30-12																
24	6		AHF(+)-06-(*)-(+30-24																
	9		AHF(+)-09-(*)-(+30-24																
	12		AHF(+)-12-(*)-(+30-24																
	18		AHF(+)-18-(*)-(+30-24	17-5/8	4-11/16	9-7/16	19-11/16	8-7/8	10-9/16	20-1/8	9-13/16	10-13/16	20-11/16	10-15/16	11-1/8	19-11/16	11-15/16	11-3/8	
	24		AHF(+)-24-(*)-(+30-24																
	30		AHF(+)-30-(*)-(+30-24																
36	6		AHF(+)-06-(*)-(+30-36																
	9		AHF(+)-09-(*)-(+30-36																
	12		AHF(+)-12-(*)-(+30-36																
	18		AHF(+)-18-(*)-(+30-36	23-5/8	6-5/16	12-5/8	25-11/16	10-1/2	13-6/8	26-1/8	11-3/8	14	26-11/16	12-9/16	14-5/16	25-11/16	13-9/16	14-9/16	
	24		AHF(+)-24-(*)-(+30-36																
	30		AHF(+)-30-(*)-(+30-36																
48	6		AHF(+)-06-(*)-(+30-48																
	9		AHF(+)-09-(*)-(+30-48																
	12		AHF(+)-12-(*)-(+30-48																
	18		AHF(+)-18-(*)-(+30-48	29-5/8	7-15/16	15-7/8	31-11/16	12-1/8	17	32-1/8	13	17-1/4	32-11/16	14-3/16	17-9/16	31-11/16	15-1/8	17-13/16	
	24		AHF(+)-24-(*)-(+30-48																
	30		AHF(+)-30-(*)-(+30-48																

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Vertical Tee Up/Down

Part Numbering System

AUF-6-24-L-VTD-12

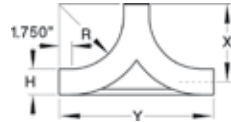


Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in.– 7 in.

Vertical Tee Up/Down – U-Style

Outside Bend



Inside Bend



Nominal Radius	Cat. No.	Cat. No.	Siderail Height "H"								
			4 in.		5 in.		6 in.		7 in.		
R	Width		X	Y	X	Y	X	Y	X	Y	
12	6	AUF(†)-06-(*)-VTU12	AUF(†)-06-(*)-VTD12								
	9	AUF(†)-09-(*)-VTU12	AUF(†)-09-(*)-VTD12								
	12	AUF(†)-12-(*)-VTU12	AUF(†)-12-(*)-VTD12								
	18	AUF(†)-18-(*)-VTU12	AUF(†)-18-(*)-VTD12	15-13/16	31-11/16	16-5/16	32-9/16	16-7/8	33-3/4	17-3/8	34-3/4
	24	AUF(†)-24-(*)-VTU12	AUF(†)-24-(*)-VTD12								
	30	AUF(†)-30-(*)-VTU12	AUF(†)-30-(*)-VTD12								
24	6	AUF(†)-06-(*)-VTU24	AUF(†)-06-(*)-VTD24								
	9	AUF(†)-09-(*)-VTU24	AUF(†)-09-(*)-VTD24								
	12	AUF(†)-12-(*)-VTU24	AUF(†)-12-(*)-VTD24								
	18	AUF(†)-18-(*)-VTU24	AUF(†)-18-(*)-VTD24	27-13/16	55-11/16	28-5/16	56-9/16	28-7/8	57-3/4	29-3/8	58-3/4
	24	AUF(†)-24-(*)-VTU24	AUF(†)-24-(*)-VTD24								
	30	AUF(†)-30-(*)-VTU24	AUF(†)-30-(*)-VTD24								
36	6	AUF(†)-06-(*)-VTU36	AUF(†)-06-(*)-VTD36								
	9	AUF(†)-09-(*)-VTU36	AUF(†)-09-(*)-VTD36								
	12	AUF(†)-12-(*)-VTU36	AUF(†)-12-(*)-VTD36								
	18	AUF(†)-18-(*)-VTU36	AUF(†)-18-(*)-VTD36	39-13/16	79-11/16	40-5/16	80-9/16	40-7/8	81-3/4	41-3/8	82-3/4
	24	AUF(†)-24-(*)-VTU36	AUF(†)-24-(*)-VTD36								
	30	AUF(†)-30-(*)-VTU36	AUF(†)-30-(*)-VTD36								
48	6	AUF(†)-06-(*)-VTU48	AUF(†)-06-(*)-VTD48								
	9	AUF(†)-09-(*)-VTU48	AUF(†)-09-(*)-VTD48								
	12	AUF(†)-12-(*)-VTU48	AUF(†)-12-(*)-VTD48								
	18	AUF(†)-18-(*)-VTU48	AUF(†)-18-(*)-VTD48	51-13/16	103-11/16	52-5/16	104-9/16	52-7/8	105-3/4	53-3/8	106-3/4
	24	AUF(†)-24-(*)-VTU48	AUF(†)-24-(*)-VTD48								
	30	AUF(†)-30-(*)-VTU48	AUF(†)-30-(*)-VTD48								
	36	AUF(†)-36-(*)-VTU48	AUF(†)-36-(*)-VTD48								

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Vertical Tee Up/Down

Part Numbering System

AHF-6-24-L-VTD-12

Fitting Material and Siderail Siderail Depth Width Bottom Style Fitting Type Nominal Radius

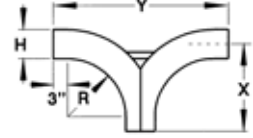
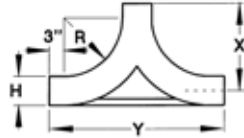
Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 4 in.– 7 in.

Vertical Tee Up/Down – H-Style

Up

Down



Nominal Radius	R	Width	Cat. No.	Cat. No.	Siderail Height "H"							
					4 in.		5 in.		6 in.		7 in.	
					X	Y	X	Y	X	Y	X	Y
12	6		AHF(t)-06-(*)-VTU12	AHF(t)-06-(*)-VTD12	17-1/16	34-3/16	17-9/16	35-1/16	18-1/8	36-1/4	18-5/8	37-1/4
	9		AHF(t)-09-(*)-VTU12	AHF(t)-09-(*)-VTD12								
	12		AHF(t)-12-(*)-VTU12	AHF(t)-12-(*)-VTD12								
	18		AHF(t)-18-(*)-VTU12	AHF(t)-18-(*)-VTD12								
	24		AHF(t)-24-(*)-VTU12	AHF(t)-24-(*)-VTD12								
	30		AHF(t)-30-(*)-VTU12	AHF(t)-30-(*)-VTD12								
24	6		AHF(t)-06-(*)-VTU24	AHF(t)-06-(*)-VTD24	29-1/16	58-3/16	29-9/16	59-1/16	30-1/8	60-1/4	30-5/8	61-1/4
	9		AHF(t)-09-(*)-VTU24	AHF(t)-09-(*)-VTD24								
	12		AHF(t)-12-(*)-VTU24	AHF(t)-12-(*)-VTD24								
	18		AHF(t)-18-(*)-VTU24	AHF(t)-18-(*)-VTD24								
	24		AHF(t)-24-(*)-VTU24	AHF(t)-24-(*)-VTD24								
	30		AHF(t)-30-(*)-VTU24	AHF(t)-30-(*)-VTD24								
36	6		AHF(t)-06-(*)-VTU36	AHF(t)-06-(*)-VTD36	41-1/16	82-3/16	41-9/16	83-1/16	42-1/8	84-1/4	42-5/8	85-1/4
	9		AHF(t)-09-(*)-VTU36	AHF(t)-09-(*)-VTD36								
	12		AHF(t)-12-(*)-VTU36	AHF(t)-12-(*)-VTD36								
	18		AHF(t)-18-(*)-VTU36	AHF(t)-18-(*)-VTD36								
	24		AHF(t)-24-(*)-VTU36	AHF(t)-24-(*)-VTD36								
	30		AHF(t)-30-(*)-VTU36	AHF(t)-30-(*)-VTD36								
48	6		AHF(t)-06-(*)-VTU48	AHF(t)-06-(*)-VTD48	53-1/16	106-3/16	53-9/16	107-1/16	54-1/8	108-1/4	54-5/8	109-1/4
	9		AHF(t)-09-(*)-VTU48	AHF(t)-09-(*)-VTD48								
	12		AHF(t)-12-(*)-VTU48	AHF(t)-12-(*)-VTD48								
	18		AHF(t)-18-(*)-VTU48	AHF(t)-18-(*)-VTD48								
	24		AHF(t)-24-(*)-VTU48	AHF(t)-24-(*)-VTD48								
	30		AHF(t)-30-(*)-VTU48	AHF(t)-30-(*)-VTD48								

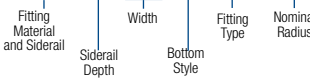
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

U-Style Fittings Cable Support

Part Numbering System

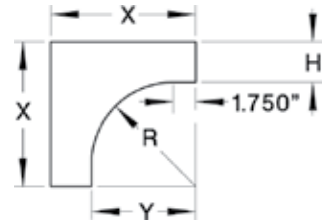
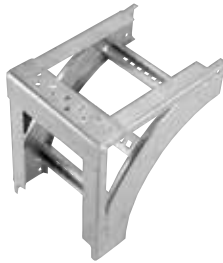
AUF-5-24-V-CS-12



Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in.– 7 in.

Cable Support Fitting - U-Style



Nominal Radius	Cat. No.	Siderail Height "H"							
		4 in.		5 in.		6 in.		7 in.	
R	Width	X	Y	X	Y	X	Y	X	Y
12	6 AUF(†)-06-(*)-CS12								
	9 AUF(†)-09-(*)-CS12								
	12 AUF(†)-12-(*)-CS12								
	18 AUF(†)-18-(*)-CS12	17-15/16	13-3/4	18-13/16	13-3/4	20	13-3/4	21	13-3/4
	24 AUF(†)-24-(*)-CS12								
	30 AUF(†)-30-(*)-CS12								
24	6 AUF(†)-06-(*)-CS24								
	9 AUF(†)-09-(*)-CS24								
	12 AUF(†)-12-(*)-CS24								
	18 AUF(†)-18-(*)-CS24	29-15/16	25-3/4	30-13/16	25-3/4	32	25-3/4	33	25-3/4
	24 AUF(†)-24-(*)-CS24								
	30 AUF(†)-30-(*)-CS24								
36	6 AUF(†)-06-(*)-CS36								
	9 AUF(†)-09-(*)-CS36								
	12 AUF(†)-12-(*)-CS36								
	18 AUF(†)-18-(*)-CS36	41-15/16	37-3/4	42-13/16	37-3/4	44	37-3/4	45	37-3/4
	24 AUF(†)-24-(*)-CS36								
	30 AUF(†)-30-(*)-CS36								
48	6 AUF(†)-06-(*)-CS48								
	9 AUF(†)-09-(*)-CS48								
	12 AUF(†)-12-(*)-CS48								
	18 AUF(†)-18-(*)-CS48	53-15/16	49-3/4	54-13/16	49-3/4	56	49-3/4	57	49-3/4
	24 AUF(†)-24-(*)-CS48								
	30 AUF(†)-30-(*)-CS48								
36 AUF(†)-36-(*)-CS48									

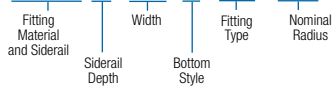
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

H-Style Fittings Cable Support

Part Numbering System

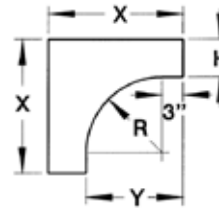
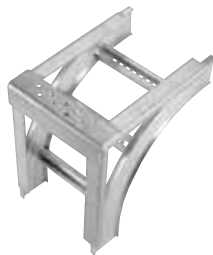
AHF-5-24-V-CS-12



Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 4 in.– 7 in.

Cable Support Fitting - H-Style



Nominal Radius		Cat. No.	Siderail Height "H"							
R	Width		4 in.		5 in.		6 in.		7 in.	
			X	Y	X	Y	X	Y	X	Y
12	6	AHF(†)-06-(*)-CS12	19-3/16	15	20-1/16	15	21-1/4	15	22-1/4	15
	9	AHF(†)-09-(*)-CS12								
	12	AHF(†)-12-(*)-CS12								
	18	AHF(†)-18-(*)-CS12								
	24	AHF(†)-24-(*)-CS12								
	30	AHF(†)-30-(*)-CS12								
24	6	AHF(†)-06-(*)-CS24	31-3/16	27	32-1/16	27	33-1/4	27	34-1/4	27
	9	AHF(†)-09-(*)-CS24								
	12	AHF(†)-12-(*)-CS24								
	18	AHF(†)-18-(*)-CS24								
	24	AHF(†)-24-(*)-CS24								
	30	AHF(†)-30-(*)-CS24								
36	6	AHF(†)-06-(*)-CS36	43-3/16	39	44-1/16	39	45-1/4	39	46-1/4	39
	9	AHF(†)-09-(*)-CS36								
	12	AHF(†)-12-(*)-CS36								
	18	AHF(†)-18-(*)-CS36								
	24	AHF(†)-24-(*)-CS36								
	30	AHF(†)-30-(*)-CS36								
48	6	AHF(†)-06-(*)-CS48	55-3/16	51	56-1/16	51	57-1/4	51	58-1/4	51
	9	AHF(†)-09-(*)-CS48								
	12	AHF(†)-12-(*)-CS48								
	18	AHF(†)-18-(*)-CS48								
	24	AHF(†)-24-(*)-CS48								
	30	AHF(†)-30-(*)-CS48								
	36	AHF(†)-36-(*)-CS48								

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.
 T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Fittings

Helix™ Cable Tray Fitting



The Helix™ cable tray fitting. Efficiency is in its DNA.

Go from horizontal to vertical, maximum cable protection, minimum space.

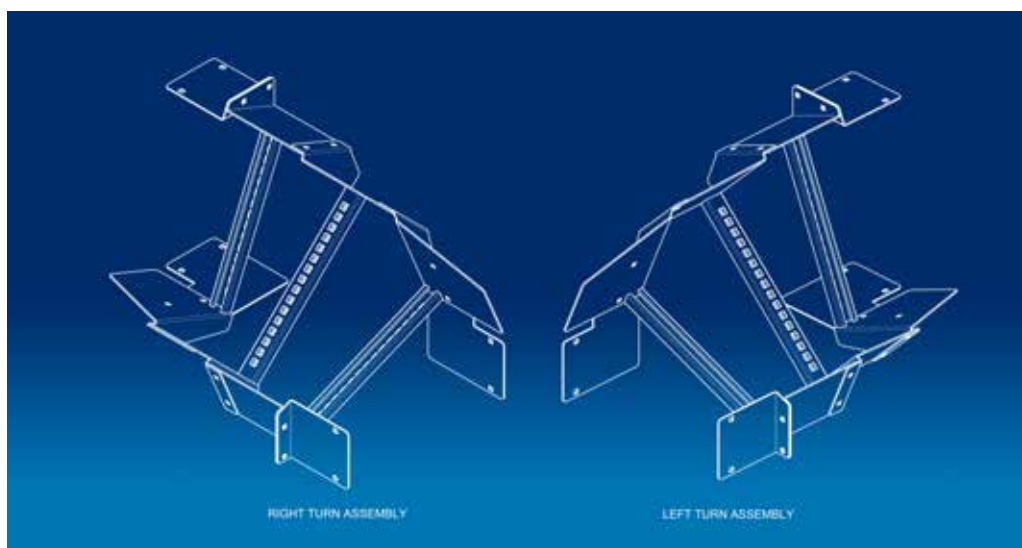
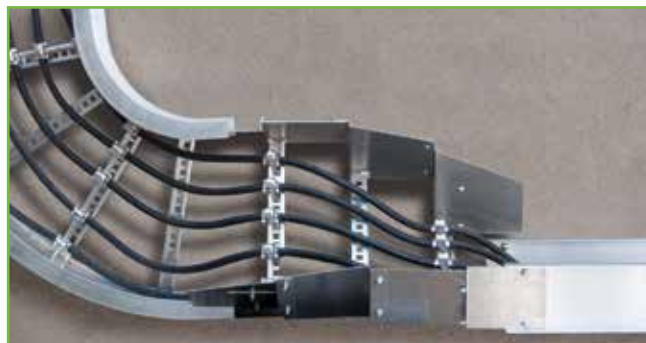
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray Fittings, the Helix™ Fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced Cable protection in confined spaces
- Secures cables within Fitting for clean, organized cable runs



Fittings

Helix™ Cable Tray Fitting



Cat. No.	Material	Siderail (in.)	Width (in.)	Direction
AUF612LHVR	Aluminum	6	12	Right turn
AUF612LHVL				Left turn
AUF624LHVR			24	Right turn
AUF624LHVL				Left turn

Supports should be positioned within 24" (610 mm) of each Helix™ fitting extremity.

Accessories

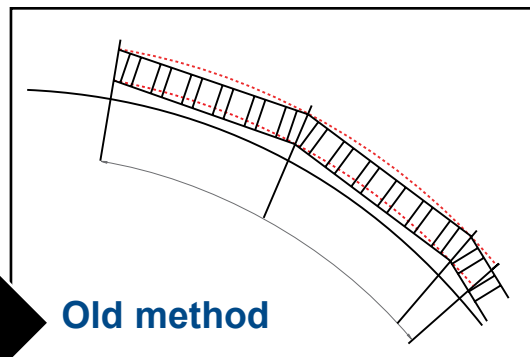
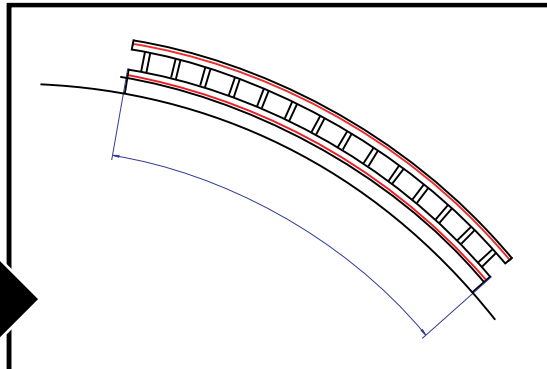
Large Radius Aluminum

This cable tray design offers a custom-built cable support system for each petrochemical project tank or tower. This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Thomas & Betts takes pride in manufacturing a complete system to meet your most rigorous requirements. Our cable support systems reduce the costly and labor-intensive modifications required to assemble straight sections, splice plates and accessories to fit your tank or vessel.

Thomas & Betts Large Radius Aluminum cable tray systems mount flawlessly with no extra cutting, set-up or surplus material. With the option of pre-assembly of this cable tray system prior to erection of the tank or vessel, you can drastically reduce installing time.

Technical Specifications



Accessories

Large Radius Aluminum / Cable Tray

Features and Benefits:

- no mitered joints
- no bent splice plate
- less costly
- easier to install
- faster to install
- fewer skills required to install
- cleaner lines
- improved functionality and aesthetics

Data Required for Quotation	
Height of the cable tray :	In.
Width of the cable tray :	In.
Rung spacing required :	In.
Load rating and support span :	lb./ft. (kg/m)
Radius of tank or vessel :	In.
Clearance distance :	In.
Quantity required : (number of segments) or Total Arc length : (measured on structure)	In.

Covers

Number Selection

Tray Covers

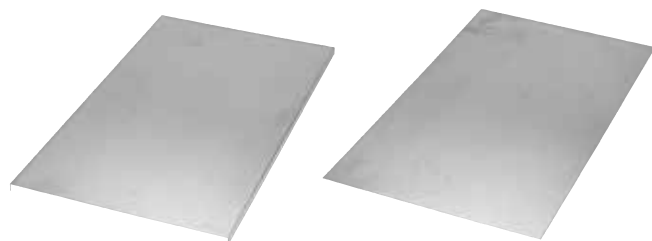
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Cover mounting hardware must be ordered separately.

Solid Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have 1/2 in. flange.

Cover mounting hardware must be ordered separately.



Ventilated Flanged Covers

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.



For extreme applications : Peaked flanged covers, peaked ventilated covers

Peaked covers offer mechanical protection, reduce pooling of liquids on the cover and the accumulation of snow or ice.

Peaked covers have 15° rise.

Cover mounting hardware must be ordered separately.



T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Straight Cover Number Selection

(ABW-1-12)-SNC-72				
Material	Cover Series	Width	Cover Type	Length
ABW • Aluminum	1 • For tray series: AH14 2 • For tray series: AH34, AH54, AH25, AH45, AH16, AH47, AH18 3 • For tray series: AH36, AH46, AH56, AH66, AH76, AH37	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover PFC • Peaked Flanged Cover* PVC • Peaked Ventilated Flanged Cover *	72 • (72 in.) 3 • (3 m)
Prefix				

* Peaked covers greater than 18 in. wide available in 72 in. and 3 m lengths only.

Fittings Cover Number Selection

AUW-12-SNC-HB90-24						
Material	Fitting Style	Width	Cover Type	Fitting Type	Degree	Radius
A • Aluminum	UW • U-Beam HW • H-Beam	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	HB • Horizontal Bend VI • Vertical Inside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Fittings Cover Number Selection

AUW-18-12-SNC-RT-12						
Material	Fitting Style	Width 1	Width 2	Cover Type	Fitting Type	Radius
A • Aluminum	UW • U-Beam HW • H-Beam	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand Cross HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer HT • Horizontal Tee HX • Horizontal Cross VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix						

NOTE: For ET and EX, W2 > W1. For RT, HSR, HLR, HRR, W1 > W2.
* Radius not required for HSR, HLR, HRR, HYR, HYL.

Fittings Cover Number Selection

AUW-4-12-SNC-VO90-24							
Material	Fitting Style	Siderail Height	Width	Cover Type	Fitting Type	Degree	Radius
A • Aluminum	UW • U-Beam HW • H-Beam	4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down CS • Cable Support	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix							

Note: For Peaked fitting covers refer to pages A95 to A97
* Not required for VTD nor for CS

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Covers

Peaked Covers For Extreme Applications

Horizontal Bend / Vertical Inside Bend



Aluminum Number Selection

AUW-12-PFC-HB-90-24

Material	Fitting Style	Width	Cover Type	Fitting Type	Degree	Radius
A • Aluminum	UW • U-Beam HW • H-Beam	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	PFC • Peaked Flanged Cover PVC • Peaked Ventilated Flanged Cover	HB • Horizontal Bend VI • Vertical Inside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix						

Note: Pre-Galvanized not available

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Peaked Covers For Extreme Applications

Vertical Outside Bend



Aluminum Number Selection

AUW-4-12-PFC-VO-90-24

Material	Fitting Style	Siderail Height	Width	Cover Type	Fitting Type	Degree	Radius
A • Aluminum	UW • U-Beam HW • H-Beam	4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	PFC • Peaked Flanged Cover PVC • Peaked Ventilated Flanged Cover	VO • Vertical Outside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix							

Note: Pre-Galvanized not available

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Peaked Covers For Extreme Applications



Aluminum Number Selection

AUW-12-PFC-HT-24					
Material	Fitting Style	Width	Cover Type	Fitting Type	Radius
A • Aluminum	UW • U-Beam HW • H-Beam	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	PFC • Peaked Flanged Cover PVC • Peaked Ventilated Flanged Cover	HT • Horizontal Tee	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix					

Note: Pre-Galvanized not available

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

Quantity of Standard Cover Clamps Required

Quantity of Standard Cover Clamps Required			
Straight section (6 ft.)	4 pcs.	Tees	6 pcs.
Straight section (12 ft./ 3 m)	6 pcs.	Crosses	8 pcs.
Horizontal and Vertical Bends	4 pcs.		

IMPORTANT NOTE: "B" in Cat. No. indicates this accessory can be used for both styles.

Economical Cover Clamp



Cat. No.	Material	Siderail Height
ABW-SCC	Zinc Plated Steel	All Sizes

Cannot be used with U-Style fittings. Can be used with straights and AH fittings only.

Rigid indoor cover clamp for flat and flanged covers.

Universal Fitting Cover Clamp



Cat. No.	Material	Siderail Height
ABW(*)FCC	Zinc Plated Steel	4
		5
		6
		7

(*) Insert siderail height.

Rigid indoor cover clamp for flat and flanged covers.

Heavy-Duty Cover Clamp



Cat. No.	Material	Siderail Height	Width of Tray (in.)
ABW4(*)FCC	Zinc Plated Steel	4	06
ABW5(*)HCC		5	09
ABW6(*)HCC		6	12
ABW7(*)HCC		7	18
			24
			30
			36
			42

(*) Insert width of tray..

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

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

Extreme Heavy-Duty Cover Clamp



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

Cat. No.	Material	Siderail Height	Width of Tray (in.)
ABW4(*)ECC	Aluminum	4	06
ABW5(*)ECC		5	09
ABW6(*)ECC		6	12
ABW7(*)ECC		7	18
(*) Insert width of tray.			24
			30
			36

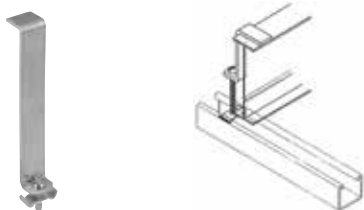
Heavy-Duty Peaked Cover Clamp



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

Cat. No.	Material	Siderail Height	Width of Tray (in.)
ABW4(*)HPC	Aluminum	4	06
ABW5(*)HPC		5	09
ABW6(*)HPC		6	12
ABW7(*)HPC		7	18
(*) Insert width of tray.			24
			30
			36

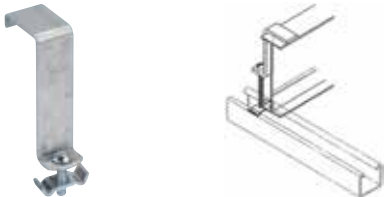
Combination Hold Down Cover Clamp



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

Cat. No.	Material	Siderail Height
ABW-4-CCC	Aluminum	4
ABW-5-CCC		5
ABW-6-CCC		6
ABW-7-CCC		7

Hold Down Clamp



Designed to secure cable tray to support system.

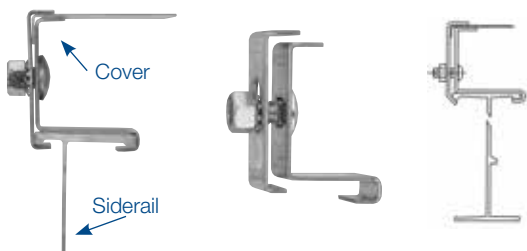
Cat. No.	Material	Siderail Height
ABW(*)HDC	Aluminum	4
Note: Hardware included (*) Insert siderail height.		5
		6
		7

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

Raised Cover Clamp



Cat. No.	Material	*Cover Series	+Cover Offset (in.)
ABW(*) (+) RCC	Zinc Plated Steel	1, 2, 3	1
			2
			3

(*) Cover Series. (+) Cover offset.
Designed to raise cover above tray for added ventilation.

Peaked End Cap



Cat. No.	Material	Siderail Height
ABW(*)PEC	Aluminum	6
		9
		12
		18
		24
		30
		36

(*) Insert width of tray.
Used for transition between peaked covers to straight covers.

Flat Joint Strip



Cat. No.	Material	Siderail Height
ABW(*)SCS	Plastic	6
		9
		12
		18
		24
		30
		36

(*) Insert width of tray.
Strip used for joining covers end to end.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Splice Plates

Snap-In Splice Plate



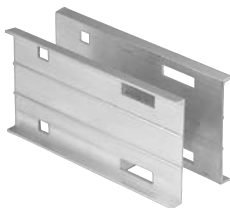
Designed to lock into place for easy alignment and installation.

Packaged in pairs with zinc plated hardware.

Provided as standard with each straight and fitting.

Cat. No.	Material	Siderail Height
ABW-4-SSP	Aluminum	4
ABW-5-SSP		5
ABW-6-SSP		6
ABW-7-SSP		7

Snap-In Expansion Splice Plate

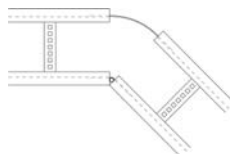
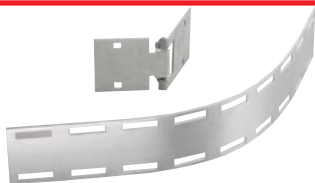


Allows for a 1 in. expansion or contraction of tray system.

Packaged in pairs with zinc plated hardware.

Cat. No.	Material	Siderail Height
ABW-4-ESP	Aluminum	4
ABW-5-ESP		5
ABW-6-ESP		6
ABW-7-ESP		7

Horizontal Adjustable Plate

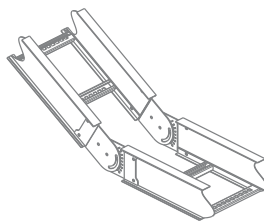
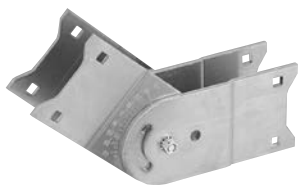


Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished in pairs with hardware..

Cat. No.	Material	Siderail Height (in.)	For Tray Width
ABW(*)24HSP	Aluminum	4	6 in. to 24 in. inclusive
		5	
ABW(*)36HSP		6	30 in. to 36 in. inclusive
		7	

(*) Insert Siderail Height.

Vertical Adjustable Plate



Hinged vertical plates provide maximum flexibility for changes in elevation.

Furnished in pairs with hardware.

Cat. No.	Material	Siderail Height in.
ABW-4-VSP	Aluminum	4
ABW-5-VSP		5
ABW-6-VSP		6
ABW-7-VSP		7

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Splice Plates

Branch Pivot Connectors



Allows cables to run from one tray level to another.



Cat. No.	Material	Siderail Height (in.)
ABW-4-BPC	Aluminum	4
ABW-5-BPC		5
ABW-6-BPC		6
ABW-7-BPC		7

Box to Tray Plates



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

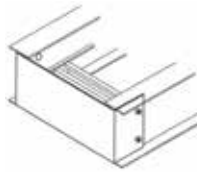


Cat. No.	Material	Siderail Height (in.)
ABW-4-BSP	Aluminum	4
ABW-5-BSP		5
ABW-6-BSP		6
ABW-7-BSP		7

Closure End Plate



Provides closure for any tray end. Packaged with hardware.



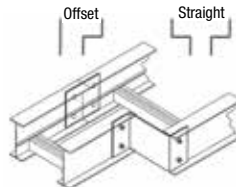
Cat. No.	Material	Siderail Height (in.)	Widths of Tray (in.)
ABW-4-ESP	Aluminum	4	06
			09
ABW-5-ESP		5	12
			18
ABW-6-ESP		6	24
			30
ABW-7-ESP		7	36

(*) Insert width of Tray.

Reducing Splice Plate



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



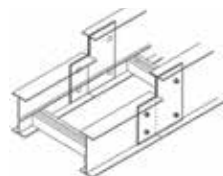
Cat. No.	Material	Siderail Height (in.)
ABW-4(*)-RSP	Aluminum	4
ABW-5(*)-RSP		5
ABW-6(*)-RSP		6
ABW-7(*)-RSP		7

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert 1/2 width to be reduced (2 required). Example: ABW-403-RSP = 3 in. offset reducer.

Step Down Splice Plate



Connects siderails of different heights. Hardware included.



Cat. No.	Material	Siderail Height (in.)
ABW(*)(**)SDS	Aluminum	4
(*) Siderail Height 1. (**) Siderail Height 2. NOTE: Siderail Height 1 is greater than Siderail Height 2.		5
		6
		7

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Splice Plates

Mid-Span Splice Plate

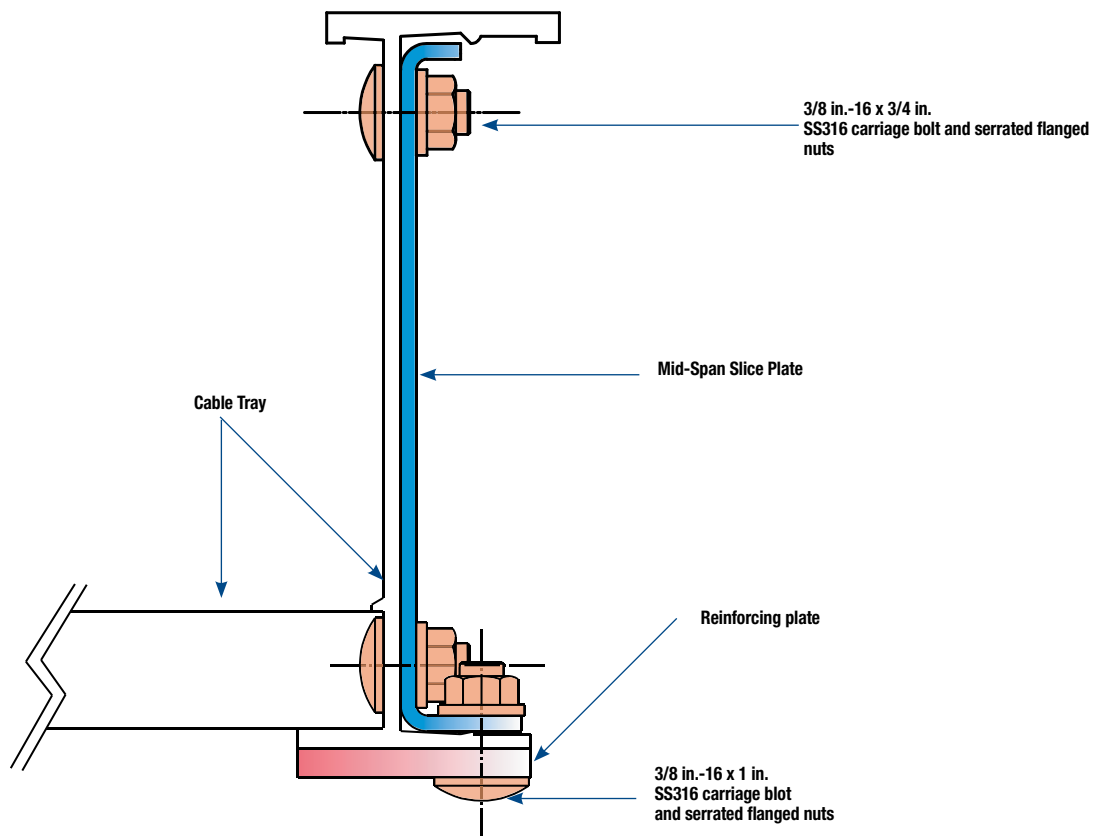
Aluminum Mid-Span Splice Plate



Features

- Factory pre-drilled side rails for above series easy installation.
- Allows random connexion location.
- Tested loading 160 lb./ft., based on a 20 ft.. simple beam test with 1.5 safety factor (tested with AH66 series).
- Supplied with stainless steel type 316 hardware.
- Available on ladder, vented or solid tray style.
- Only available in the following series of aluminum tray: AH46, AH56, AH66 and AH76*.
*(20 ft.. Support Span only).

The Splice Plate



Part #: ABW6SSPMS

Splice Plates

Mid-Span Splice Plate

Typical Installation of Mid-Span Splice Plate



These heavy-duty splice plates are designed to allow random splice location, including the midspan for 20 ft.. support spans. These splices are available for all long-span, ladder, vented or solid tray style.

Straight Section Number Selection

(AMS4-6)-24-L09-6

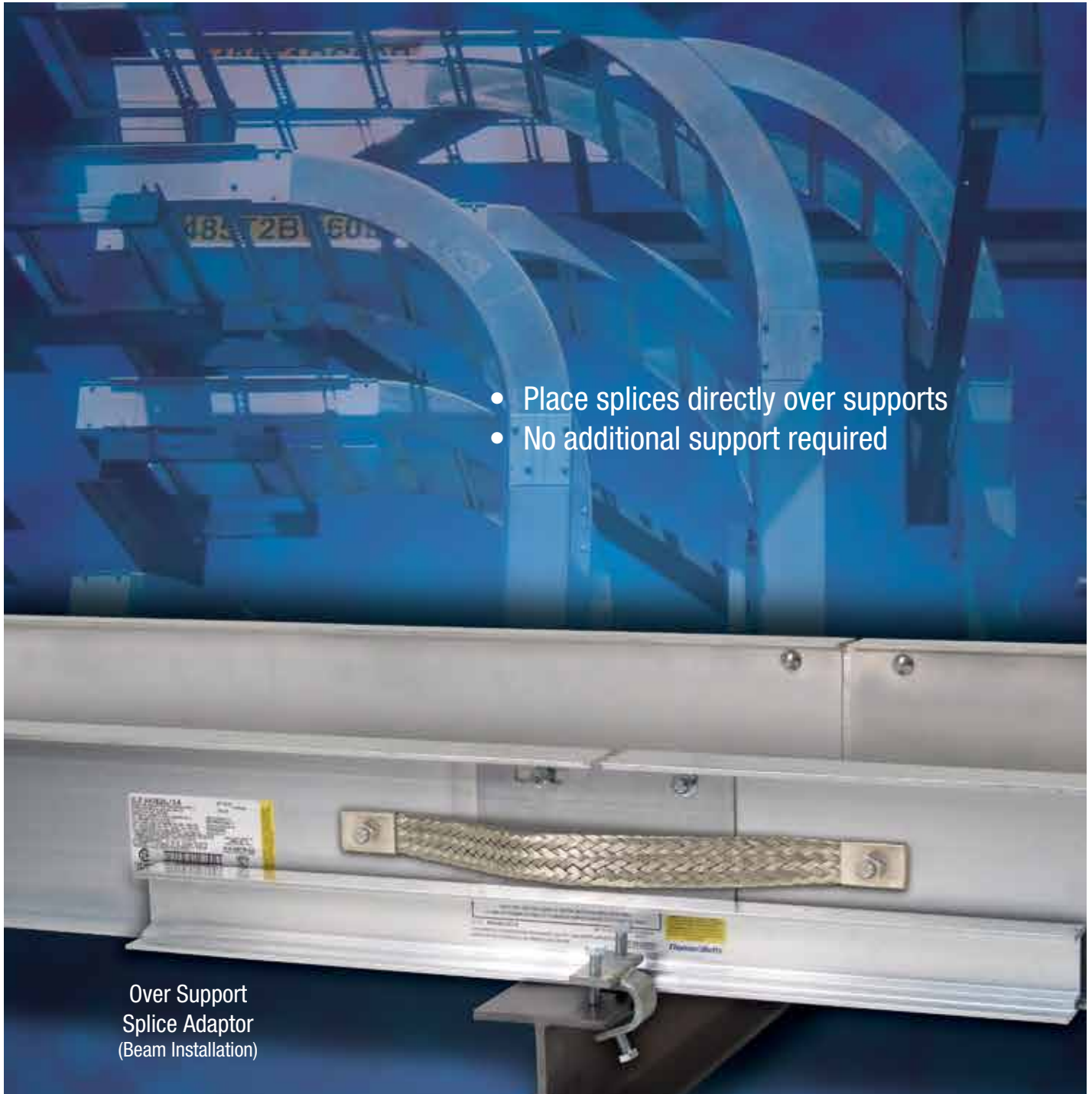
Material	Series	Siderail Depth	Width	Bottom Type	Length
AMS • Mid-Span Splice	4 • Series 4 5 • Series 5 6 • Series 6 7 • Series 7	6 • (6 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid Trough	6 • (6 meters) 288 • (24 ft.)
Prefix					

To order straight sections with Mid-Span Splice Plate, replace "AH" in the standard part number with "AMS".

Example: **AH**6624L12-6
AMS6624L12-6

Splice Plates

Over Support Splice Adaptor



- Place splices directly over supports
- No additional support required

Over Support
Splice Adaptor
(Beam Installation)

Splice Plates

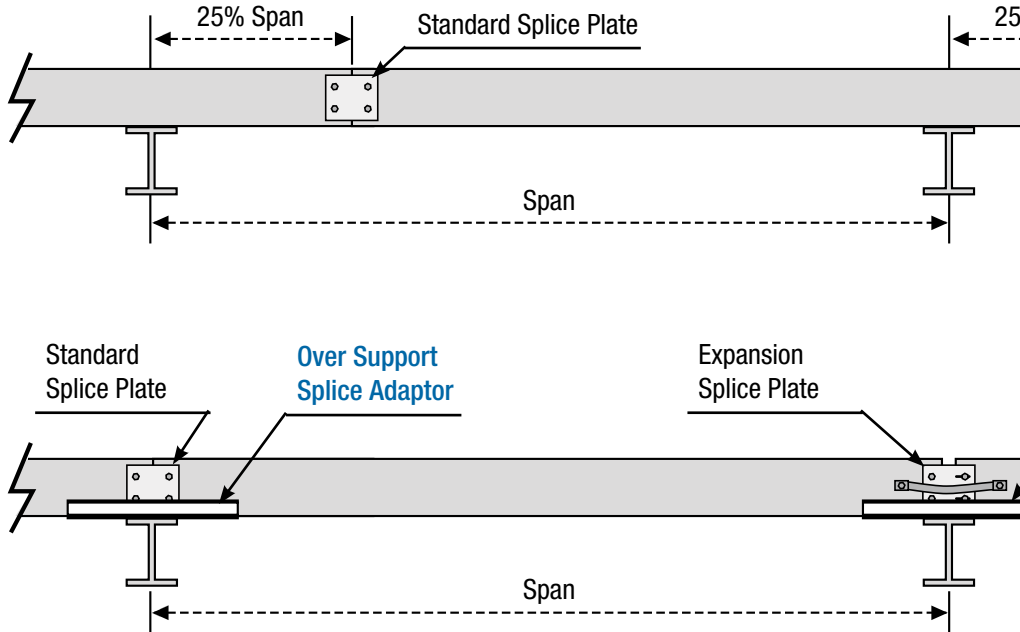
Over Support Splice Adaptor

Standard 1/4 Span Typical Installation

Supports are placed at 1/4 span (25%).
Expansion joints need extra support at 1/2 span to prevent excessive deformation of the tray under heavy loads.

New Over Support Typical Installation

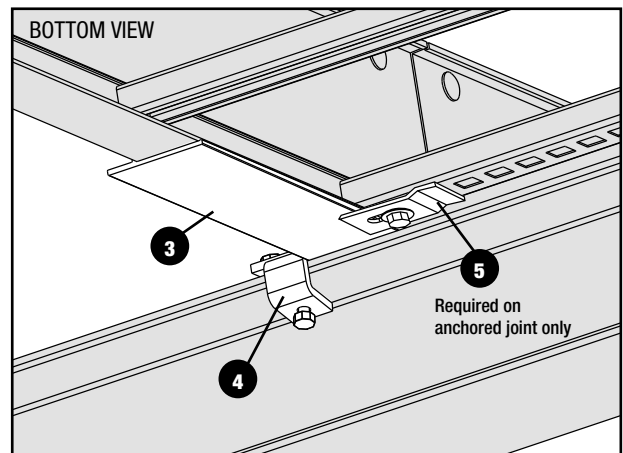
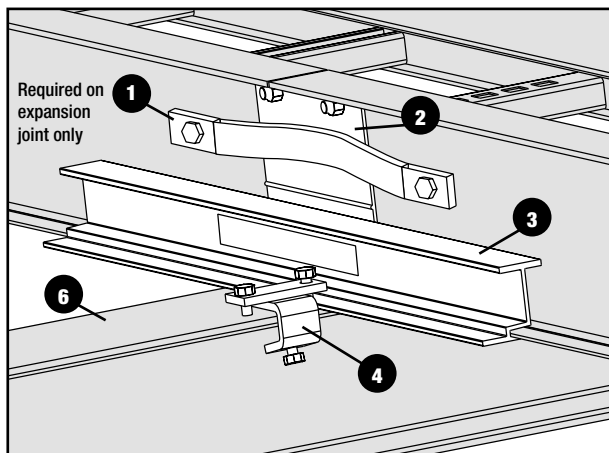
Supports are placed right under the joints of the installation.
The splice adaptor allows a wider distribution of the support, therefore minimizing the stress and deflection of the assembly.



NOTE: Independent of the installation method chosen, AU/AH46 straight sections are CSA approved for Class E loading. (100%)

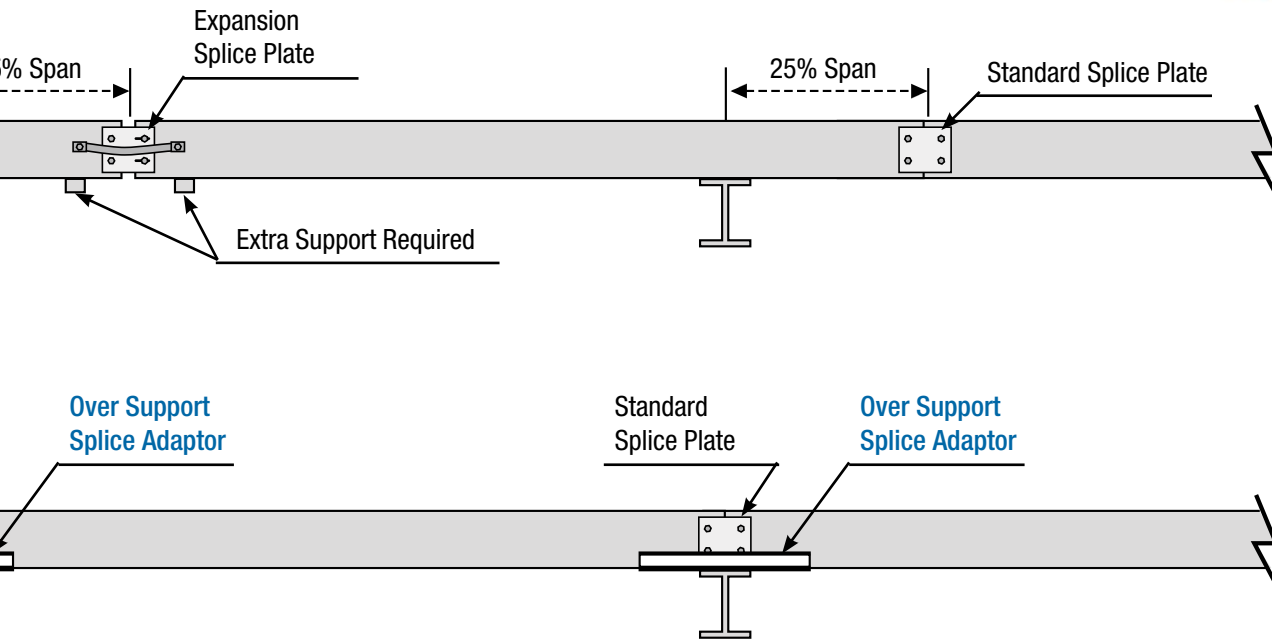
Over Support Splice Adaptor

Beam Installation – ABW46-OSS-B



Installation Components

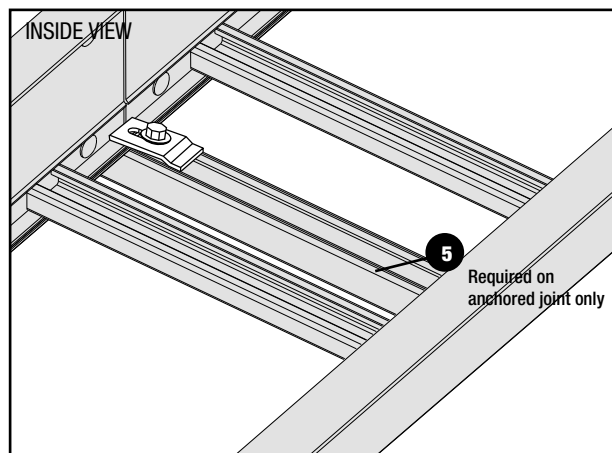
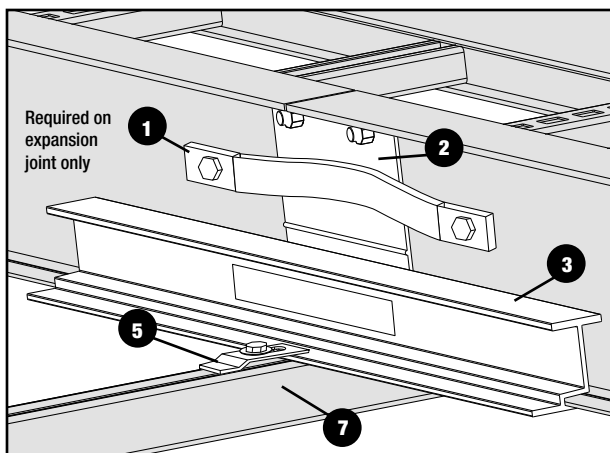
- | | |
|--------------------------------|---------------------------|
| 1. Bonding jumper | 5. Hold down clamp |
| 2. Splice plate | 6. Structural beam |
| 3. Over support splice adaptor | 7. Strut (see right page) |
| 4. Beam clamp | |



NEMA VE2: Splice joints should be designed and placed so as to maximize the rigidity of the cable tray over support. Splice plates and adaptors are part of a system specifically designed for placement directly over supports.

Over Support Splice Adaptor

Strut Installation – ABW46-OSS-S



Cable Tray Installation

- Every second splice must be an expansion joint.
- For gap setting at expansion joint, refer to NEMA chart on next page.
- For use with T&B Cable Tray series AH46.
- Max. load of 80 lb/ft, 20 ft. span.
- Every joint must have a pair of over support splice adaptors (both standard splices and expansion splices)

Splice Plates

Over Support Splice Adaptor

ABW46-OSS-B

Over Support Splice Adaptor –
Beam Installation

Expansion over support beam 29 in.
SHW-CTC, Heavy-Duty hold down clamp (complete with mounting hardware)
SHW-HEC, Standard hold down clamp
E142-3/8x100EG, 3/8 in. - 16 x 1 in. hex cap screws
AC100-3/8EGC, 3/8 in. strut nut

NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16 in., 600 amps)

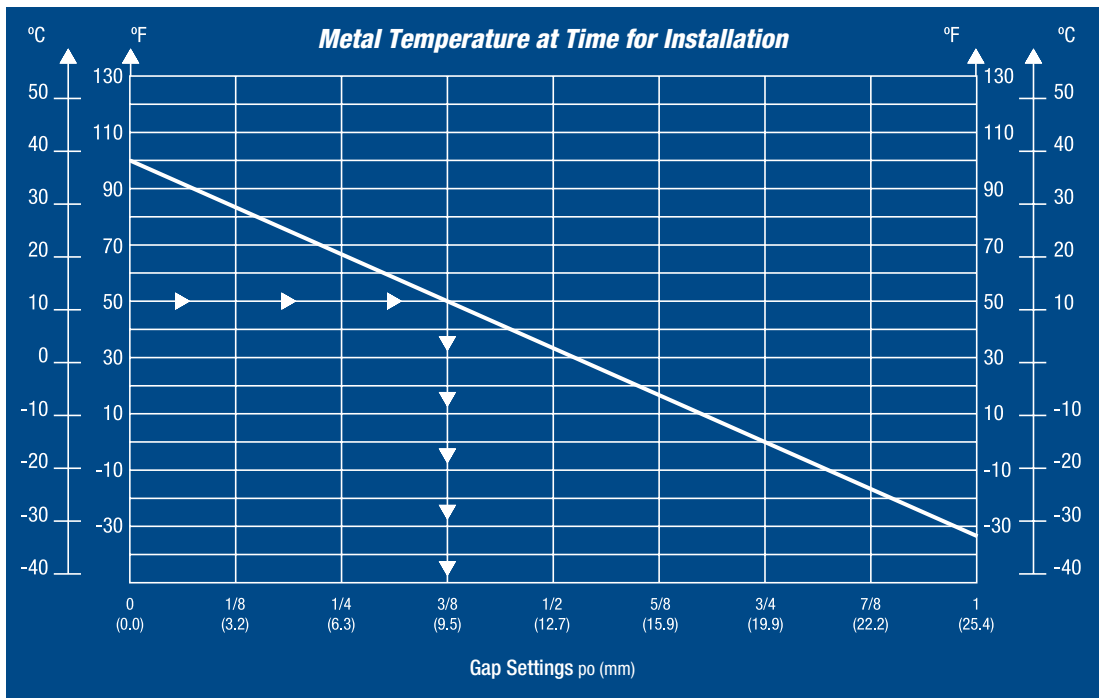
ABW46-OSS-S

Over Support Splice Adaptor –
Strut Installation

Expansion over support beam 29 in.
SHW-HEC, Standard hold down clamp
E142-3/8x100EG, 3/8 in. - 16 x 1 in. hex cap screws
AC100-3/8EGC, 3/8 in. strut nut

NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16 in., 600 amps)

Expansion Plate Gap Chart



Cable Protection

Snap-In Splice Plate



Cat. No.	Material	Widths of Tray (in.)
ABW(*)DO	For ladder and ventilated tray	06
	Aluminum	09
(*) Insert Width of Tray.		12
		18
		24
		30
		36

Wall Penetration Sleeve



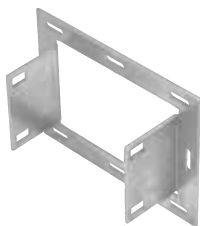
Designed to pass through walls and fire walls. Hardware included. IMPORTANT: Not fire rated. Fire stop not included.

Sold with cover

Cat. No.	Material	Siderail Height	For Tray Width
ABW(*)(**)WPS	Aluminum	4	06
			09
		5	12
			18
		6	24
			30
		7	36

(*) Insert Siderail Height. (**) Insert Width of Tray.

Frame Type Tray to Box Plate



Designed to secure tray to electrical enclosures and panels. Hardware included.

Cat. No.	Material	Siderail Height (in.)	For Tray Width
ABW(*)(**)FBP	Aluminum	4	06
			09
		5	12
			18
		6	24
			30
		7	36

(*) Insert Siderail Height. (**) Insert Width of Tray.

Nylon Expansion Pad



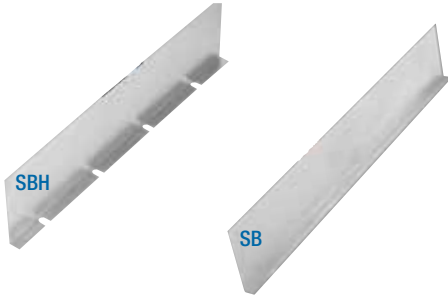
Allows for thermal expansion and contraction of cable trays over supports.

Cat. No.	Material
ABW-NSP	Natural Nylon

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Barrier Strips

Barrier Strips

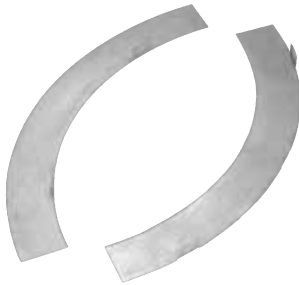


Aluminum barrier strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware. 72 in. barriers are flexible for use with horizontal fittings

Cat. No.	Designed for Siderail Height (in.)	Length)
ABW-4-SBH-72	4	72 in.
ABW-5-SBH-72	5	
ABW-6-SBH-72	6	
ABW-7-SBH-72	7	
ABW-4-SB-*	4	144 in.
ABW-5-SB-*	5	3 m
ABW-6-SB-*	6	
ABW-7-SB-*	7	

NOTE: 2 in. barriers provided with 3 SPW10SCR. 144 in., 3 m barriers provided with 6 SPW10SCR. (*) Insert length.

Inside / Outside Vertical Bend Barriers



Used for transition between peaked covers to straight covers.

Inside Bend Cat. No.	Outside Bend Cat. No.	Designed for Siderail Height (in.)
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	4
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	5
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	6
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	7
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	4
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	5
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	6
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	7

(**) Insert Bend Angle (+) Insert Bend Radius (*) Insert Siderail Height.

Barrier Strip Splice



Alignment splice for joining connecting barrier strips.

Cat. No.	Material
ABW(*)SCS	Plastic

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Clamps and Hardware

Standard Hold Down Clamp



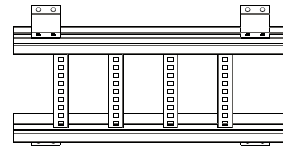
Designed for most indoor installations.

Easy to use and install.

Order 3/8 in. hardware separately.

Cat. No.	Material
SPW-SHC	Zinc Plated Steel
SSW-SHC	316 Stainless

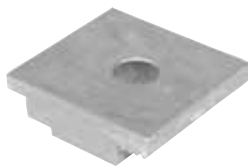
Hold Down Clamp



For vertical applications

Cat. No.	Type	Material	Design Load
ABW-HDCS	Single	Aluminum	600 lb./Pair
ABW-HDCD	Double		1000 lb./Pair

Combination Hold Down / Expansion Guide Clamp



Order 3/8 in. hardware separately.

Cat. No.	Material
ABW-HEC	Aluminum

Aluminum Tray Hardware



Square shoulder self-positioning carriage bolt.

Cat. No.	Material	Description
SPW-1/4-CB	Zinc Plated Steel	1/4 in. Carriage Bolt
SPW-3/8-CB		3/8 in. Carriage Bolt
SPW-1/4-HN		1/4 in. Hex. Nut
SPW-3/8-HN		3/8 in. Hex. Nut
SPW-3/8-HWK*	316 Stainless	Zinc Plated Steel Hardware Kit
SSW-3/8-CB		3/8 in. Carriage Bolt
SSW-3/8-HN		3/8 in. Hex. Nut
SSW-3/8-HWK*		316 Stainless Steel Hardware Kit

*Contains 8 bolts and 8 nuts.

Self-Drilling – Tapping Screw



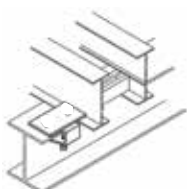
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Cat. No.	Material	Description
SPW-10-SCR	Zinc Plated Steel	Self-Drilling – Tapping Screw
SSW-10-SCR	Stainless Steel	

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Clamps and Hardware

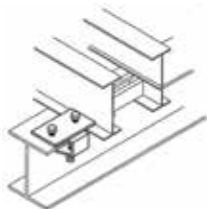
Cable Tray Guide



Cat. No.	Material
SPW-CTG	Zinc Plated Steel
SHW-CTG	Steel Hot Dip

Expansion guide for single or double runs of cable tray. No need to field drill of channel or I-beam.

Cable Tray Clamp



Inside Bend Cat. No.	Material
SPW-CTC	Zinc Plated Steel
SHW-CTC	Steel Hot Dip

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

Vertical Tray Hanger



Cat. No.	Material	Siderail Height (in.)
ABW(*)VTH	Aluminum	4
		5
		6
		7

* Insert siderail height.

Alignment splice for joining connecting barrier strips.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.



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Straight Lengths

Tray Bottom

Ladder, Ventilated and Solid Trough

Ladder

Formed siderails are welded to 1-5/8 in. wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap® cable tie slots on 1 in. centers.

Ventilated

A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables.

The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in.) in the direction parallel to the tray side rails (rung to rung).

Note: For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Solid Trough

Solid sheet welded to steel siderails below rungs. This design offers added cable protection.



Straight Lengths

Number Selection

How to Create Part Numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page A8 in the technical section.

Methods

1. Select the material best suited to your environment. Refer to technical section page A8.
2. Determine the tray series using the NEMA/CSA Load/Span Designations page A16, and Sizing Cable Tray page A23.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.

Straight Section Number Selection

SH3624L09144					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	1 • Series 1	3-5/8	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 (6 in. rung spacing) L09 (9 in. rung spacing) L12 (12 in. rung spacing) **V (ventilated) S (solid trough)	3 (3 meters) 6 (6 meters) 144 (12 ft.) 288 (24 ft.)
Prefix	1 • Series 1 3 • Series 3		4		
	2 • Series 2 4 • Series 4 5 • Series 5	5			
	1 • Series 1 3 • Series 3 4 • Series 4	6			
	3 • Series 3	7			

* Series 1-3 and 1-4 are not available in 6 meter and 288 in. lengths.

** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Straight Lengths

3-5/8 in. Straight Sections Series 1-3

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SH1324L09-3					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	1 • Series 1	3 • (3-5/8 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated * S • Solid Trough	3 • (3 meters) 144 • (12 ft.)
Prefix					

* For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

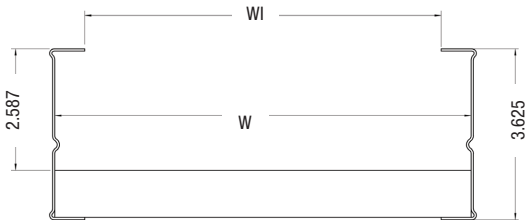
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
SP1-3	Load (lb./ft.)	200	112.5	72	50	-	-	-	-
SH1-3	Deflection (in.)	0.250	0.445	0.695	1.001	-	-	-	-
SS1-3	Deflection Factor	0.0013	0.0040	0.0097	0.0097	-	-	-	-

Straight Lengths

3-5/8 in. Straight Sections Series 1-3

Ladder, Ventilated and Solid Trough



Dimensions

SP1-3, SH1-3, SS1-3	
W (in.)	Wi (in.)
6	4.5
9	7.5
12	10.5
18	16.5
24	22.5
30	28.5
36	34.5

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications			
			NEMA	CSA	UL	ABS
SP1-4 SH1-3 SS1-3		$I_x = 0.804 \text{ in.}^4$ $S_x = 0.444 \text{ in.}^3$ $\text{Area} = 0.488 \text{ in.}^2$	12A	C/3 m	UL Cross Sectional Area : 0.40 in. ²	Stainless Steel only

Straight Lengths

4 in. Straight Sections
Series 1-4, 3-4

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SH3424L09144					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length *
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	1 • Series 1 3 • Series 3	4 • (4 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated ** S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.)
Prefix					

* Series 1-4 not available in 6 meters or 288 in. lengths.

** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

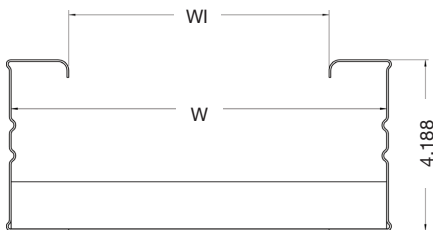
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
SP1-4	Load (lb.)/ft.)	420	236	151	105	–	–	–	–
SH1-4	Deflection (in.)	0.420	0.473	0.756	1.155	–	–	–	–
SS1-4	Deflection Factor	0.001	0.002	0.005	0.011	–	–	–	–
SP3-4	Load (lb.)/ft.)	556	313	200	139	102	78	62	50
SH3-4	Deflection (in.)	0.193	0.344	0.537	0.773	1.052	1.375	1.740	2.148
SS3-4	Deflection Factor	0.0003	0.0011	0.0027	0.0056	0.0103	0.0176	0.0282	0.0430

Straight Lengths

4 in. Straight Sections Series 1-4, 3-4

Ladder, Ventilated and Solid Trough



Dimensions

SP1-4, SH1-4, SS1-4 SP3-4, SH3-4, SS3-4	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications			
			NEMA	CSA	UL	ABS
SP1-4 SH1-4 SS1-4		$I_x = 1.974 \text{ in.}^4$ $S_x = 0.788 \text{ in.}^3$ Area = 0.682 in.^2	12A	D/3M	UL Cross Sectional Area : 0.70 in.^2	Stainless Steel only
SP3-4 SH3-4 SS3-4		$I_x = 2.224 \text{ in.}^4$ $S_x = 1.022 \text{ in.}^3$ Area = 1.080 in.^2	20A	D/6M	UL Cross Sectional Area : 0.70 in.^2	Stainless Steel only

Straight Lengths

5 in. Straight Sections
Series 2-5, 4-5, 5-5

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SH2524L09144

Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	2 • Series 2 4 • Series 4 5 • Series 5	5 • (5 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.)
Prefix					

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

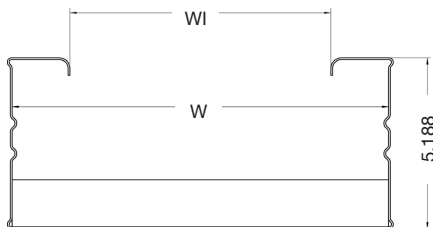
Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
SP2-5	Load (lb./ft.)	556	313	200	139	102	78	62	50
SH2-5	Deflection (in.)	0.193	0.344	0.537	0.773	1.052	1.375	1.740	2.148
SS2-5	Deflection Factor	0.0003	0.0011	0.0027	0.0056	0.0103	0.0176	0.0282	0.0430
SP4-5	Load (lb./ft.)	833	469	298	208	153	117	92	75
SH4-5	Deflection (in.)	0.223	0.397	0.617	0.894	1.217	1.589	1.998	2.483
SS4-5	Deflection Factor	0.003	0.0008	0.0021	0.0043	0.0079	0.0136	0.0217	0.0331
SP5-5	Load (lb./ft.)	111	625	298	278	204	156	92	100
SH5-5	Deflection (in.)	0.241	0.429	0.499	0.964	1.312	1.714	0.617	2.678
SS5-5	Deflection Factor	0.0002	0.0007	0.0017	0.0035	0.0064	0.0110	0.0176	0.0268

Straight Lengths

5 in. Straight Sections Series 2-5, 4-5, 5-5

Ladder, Ventilated and Solid Trough



Dimensions

SP2-5, SH2-5, SS2-5, SP4-5, SH4-5, SS4-5, SP5-5, SH5-5, SS5-5	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications			
			NEMA	CSA	UL	ABS
SP1-4 SH1-4 SS1-4		$I_x = 2.89 \text{ in.}^4$ $S_x = 1.09 \text{ in.}^3$ Area = 0.778 in.^2	20A	D/6M	UL Cross Sectional Area : 0.70 in.^2	Stainless Steel only
SP3-4 SH3-4 SS3-4		$I_x = 3.75 \text{ in.}^4$ $S_x = 1.40 \text{ in.}^3$ Area = 1.018 in.^2	20B	E/6M	UL Cross Sectional Area : 1.00 in.^2	Stainless Steel only
SP5-5 SH5-5 SS5-5		$I_x = 4.635 \text{ in.}^4$ $S_x = 1.732 \text{ in.}^3$ Area = 1.24 in.^2	20C	–	UL Cross Sectional Area : 1.00 in.^2	Stainless Steel only

Straight Lengths

6 in. Straight Sections
Series 1-6, 3-6, 4-6

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SH3624L12-6					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	1 • Series 1 3 • Series 3 4 • Series 4	6 • (6 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated ** S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.)
Prefix					

** For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

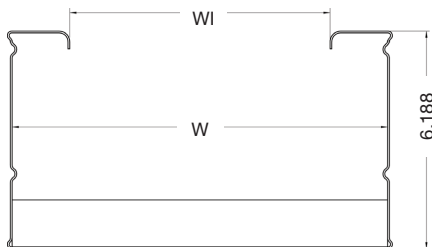
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
SP1-6	Load (lb./ft.)	556	313	200	139	102	78	62	50
SH1-6	Deflection (in.)	0.126	0.224	0.349	0.503	0.685	0.895	1.132	1.398
SS1-6	Deflection Factor	0.0002	0.0007	0.0017	0.0036	0.0067	0.0115	0.0183	0.0280
SP3-6	Load (lb./ft.)	833	469	300	208	153	117	92	75
SH3-6	Deflection (in.)	0.156	0.277	0.433	0.624	0.849	1.109	1.404	1.733
SS3-6	Deflection Factor	0.0002	0.0006	0.0014	0.0030	0.0055	0.0095	0.0152	0.0231
SP4-6	Load (lb./ft.)	1289	725	464	322	237	181	143	116
SH4-6	Deflection (in.)	0.181	0.321	0.502	0.723	0.984	1.285	1.626	2.008
SS4-6	Deflection Factor	0.0001	0.0004	0.0011	0.0022	0.0042	0.0071	0.0114	0.0173

Straight Lengths

6 in. Straight Sections Series 1-6, 3-6, 4-6

Ladder, Ventilated and Solid Trough



Dimensions

SP1-6, SH1-6, SS1-6, SP3-6, SH3-6, SS3-6, SP4-6, SH4-6, SS4-6	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications			
			NEMA	CSA	UL	ABS
SP1-6 SH1-6 SS1-6		$I_x = 4.44 \text{ in.}^4$ $S_x = 1.39 \text{ in.}^3$ Area = 0.874 in.^2	20A	D/6M	UL Cross Sectional Area : 0.70 in.^2	Stainless Steel only
SP3-6 SH3-6 SS3-6		$I_x = 5.373 \text{ in.}^4$ $S_x = 1.70 \text{ in.}^3$ Area = 1.40 in.^2	20B	E/6M	UL Cross Sectional Area : 1.00 in.^2	Stainless Steel only
SP4-6 SH4-6 SS4-6		$I_x = 7.173 \text{ in.}^4$ $S_x = 2.250 \text{ in.}^3$ Area = 1.40 in.^2	Exceeds 20C	–	UL Cross Sectional Area : 1.00 in.^2	Stainless Steel only

Straight Lengths

7 in. Straight Sections Series 3-7

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SH3724L09288					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	3 • Series 3	7 • (7 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L06 • 6 in. rung spacing L09 • 9 in. rung spacing L12 • 12 in. rung spacing V • Ventilated * S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft.) 288 • (24 ft.)
Prefix					

* For load ratings of CSA Class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A157 to A189 of this catalogue.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

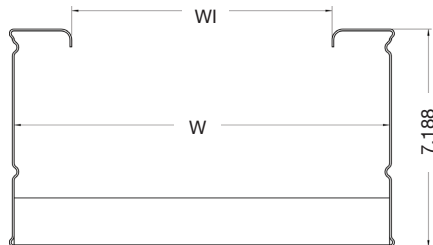
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
SP3-7	Load (lb./ft.)	1333	750	480	333	245	188	148	120
SH3-7	Deflection (in.)	0.133	0.225	0.480	0.667	0.735	1.125	1.333	1.680
SS3-7	Deflection Factor	0.0001	0.0003	0.001	0.002	0.003	0.006	0.009	0.014

Straight Lengths

7 in. Straight Sections Series 3-7

Ladder, Ventilated and Solid Trough



Dimensions

SP3-7, SH3-7, SS3-7	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Series	Dimensions	Siderail Design Factors • 1 Pair	Classifications			
			NEMA	CSA	UL	ABS
SP3-7 SH3-7 SS3-7		$I_x = 10.411 \text{ in.}^4$ $S_x = 2.820 \text{ in.}^3$ $\text{Area} = 1.54 \text{ in.}^2$	Exceeds 20C	—	UL Cross Sectional Area : 1.50 in. ²	Stainless Steel only

Fittings

Fittings Number Selection

Fitting Number Selection

SHF624LVO9024

Fitting Material	Siderail Depth	Width	Bottom Type	Fitting Type	Angle**	Nominal Radius †
SPF • Pre-Galvanized Fittings SHF • Hot Dip Galvanized Fittings SSF • Stainless Steel 316	3 • (3-5/8 in.) 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	L • Ladder * V • Ventilated *** S • Solid Trough ****	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VO • Vertical Outside Bend VTD • Vertical Tee Down VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left RT • Horizontal Reducing Tee ET • Horizontal Expanding Tee EX • Horiz. Expand Cross HLR • Horizontal Left Reducer HSR • Horizontal Straight Reducer HRR • Horizontal Right Reducer CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix						

† Radius is not required for the following Fitting Types: HYR, HYL, HLR, HRR, HSR.

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

** Angle is required for HB, VI, VO only.

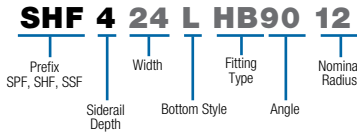
*** Manufactured with 4 in. edge to edge rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Fittings

Horizontal Bends 90° / 60°

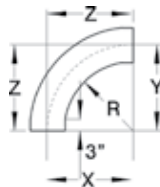
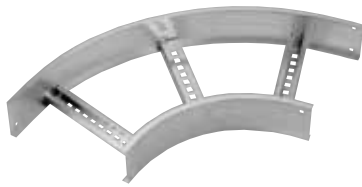
Part Numbering System



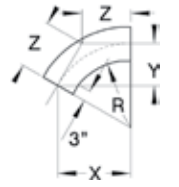
Selection Guide

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°, 60°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

90° Horizontal BEND



60° Horizontal BEND



Nominal Radius R	Width	Cat. No.	Dimensions	
			X	Y
12	6	Prefix(t)-06-(*)-HB90-12	15	15
	9	Prefix(t)-09-(*)-HB90-12	16-1/2	16-1/2
	12	Prefix(t)-12-(*)-HB90-12	18	18
	18	Prefix(t)-18-(*)-HB90-12	21	21
	24	Prefix(t)-24-(*)-HB90-12	24	24
	30	Prefix(t)-30-(*)-HB90-12	27	27
24	6	Prefix(t)-06-(*)-HB90-24	27	27
	9	Prefix(t)-09-(*)-HB90-24	28-1/2	28-1/2
	12	Prefix(t)-12-(*)-HB90-24	30	30
	18	Prefix(t)-18-(*)-HB90-24	33	33
	24	Prefix(t)-24-(*)-HB90-24	36	36
	30	Prefix(t)-30-(*)-HB90-24	39	39
36	6	Prefix(t)-06-(*)-HB90-36	39	39
	9	Prefix(t)-09-(*)-HB90-36	40-1/2	40-1/2
	12	Prefix(t)-12-(*)-HB90-36	42	42
	18	Prefix(t)-18-(*)-HB90-36	45	45
	24	Prefix(t)-24-(*)-HB90-36	48	48
	30	Prefix(t)-30-(*)-HB90-36	51	51
48	6	Prefix(t)-06-(*)-HB90-48	51	51
	9	Prefix(t)-09-(*)-HB90-48	52-1/2	52-1/2
	12	Prefix(t)-12-(*)-HB90-48	54	54
	18	Prefix(t)-18-(*)-HB90-48	57	57
	24	Prefix(t)-24-(*)-HB90-48	60	60
	30	Prefix(t)-30-(*)-HB90-48	63	63
	36	Prefix(t)-36-(*)-HB90-48	66	66

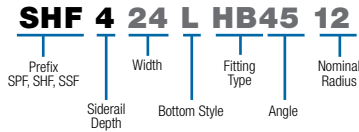
Nominal Radius R	Width	Cat. No.	Dimensions		
			X	Y	Z
12	6	Prefix(t)-06-(*)-HB60-12	14-7/8	8-5/8	9-15/16
	9	Prefix(t)-09-(*)-HB60-12	16-3/16	9-3/8	10-13/16
	12	Prefix(t)-12-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	18	Prefix(t)-18-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	24	Prefix(t)-24-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	30	Prefix(t)-30-(*)-HB60-12	25-5/16	14-5/8	16-7/8
24	6	Prefix(t)-06-(*)-HB60-24	25-5/16	14-5/8	16-7/8
	9	Prefix(t)-09-(*)-HB60-24	26-9/16	15-3/8	17-3/4
	12	Prefix(t)-12-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	18	Prefix(t)-18-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	24	Prefix(t)-24-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	30	Prefix(t)-30-(*)-HB60-24	35-11/16	20-5/8	23-13/16
36	6	Prefix(t)-06-(*)-HB60-36	35-11/16	20-5/8	23-13/16
	9	Prefix(t)-09-(*)-HB60-36	37	21-3/8	24-5/8
	12	Prefix(t)-12-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	18	Prefix(t)-18-(*)-HB60-36	40-7/8	23-5/8	27-2/8
	24	Prefix(t)-24-(*)-HB60-36	43-1/2	25-1/8	29
	30	Prefix(t)-30-(*)-HB60-36	46-1/16	26-5/8	30-11/16
48	6	Prefix(t)-06-(*)-HB60-48	46-1/16	26-5/8	30-11/16
	9	Prefix(t)-09-(*)-HB60-48	47-3/8	27-3/8	31-9/16
	12	Prefix(t)-12-(*)-HB60-48	48-11/16	28-1/8	32-7/16
	18	Prefix(t)-18-(*)-HB60-48	51-4/16	29-5/8	34-3/16
	24	Prefix(t)-24-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	30	Prefix(t)-30-(*)-HB60-48	56-7/16	32-5/8	37-5/8
	36	Prefix(t)-36-(*)-HB60-48	59-1/16	34-1/8	39-3/8

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Bends 45° / 30°

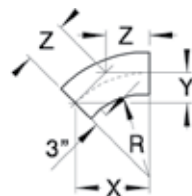
Part Numbering System



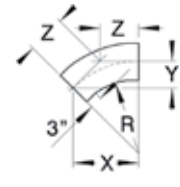
Selection Guide

Prefix: SPF (Pre-Galv.) ,SHF (Hot Dip) ,SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 45°, 30°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

45° Horizontal BEND



30° Horizontal BEND



Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	Prefix(†)-06-(*)-(+)HB45-12	13-5/8	5-5/8	8
	9	Prefix(†)-09-(*)-(+)HB45-12	14-11/16	6-1/16	8-9/16
	12	Prefix(†)-12-(*)-(+)HB45-12	15-3/4	6-12	9-3/16
	18	Prefix(†)-18-(*)-(+)HB45-12	17-7/8	7-3/8	10-7/16
	24	Prefix(†)-24-(*)-(+)HB45-12	20	8-1/4	11-11/16
	30	Prefix(†)-30-(*)-(+)HB45-12	22-1/16	9-1/8	12-15/16
24	36	Prefix(†)-36-(*)-(+)HB45-12	24-3/16	10	14-3/16
	6	Prefix(†)-06-(*)-(+)HB45-24	22-1/16	9-1/8	12-15/16
	9	Prefix(†)-09-(*)-(+)HB45-24	23-1/8	9-9/16	13-9/16
	12	Prefix(†)-12-(*)-(+)HB45-24	24-3/16	10	14-3/16
	18	Prefix(†)-18-(*)-(+)HB45-24	26-5/16	10-15/16	15-7/16
	24	Prefix(†)-24-(*)-(+)HB45-24	28-7/16	11-13/16	16-11/16
36	30	Prefix(†)-30-(*)-(+)HB45-24	30-9/16	12-11/16	17-15/16
	36	Prefix(†)-36-(*)-(+)HB45-24	32-11/16	13-9/16	19-1/8
	6	Prefix(†)-06-(*)-(+)HB45-36	30-9/16	12-11/16	17-15/16
	9	Prefix(†)-09-(*)-(+)HB45-36	31-5/8	13-1/8	18-9/16
	12	Prefix(†)-12-(*)-(+)HB45-36	32-11/16	13-9/16	19-1/8
	18	Prefix(†)-18-(*)-(+)HB45-36	34-13/16	14-7/16	20-3/8
48	24	Prefix(†)-24-(*)-(+)HB45-36	36-15/16	15-5/16	21-5/8
	30	Prefix(†)-30-(*)-(+)HB45-36	39-1/16	16-3/16	22-7/8
	36	Prefix(†)-36-(*)-(+)HB45-36	41-3/16	17-1/16	24-1/8
	6	Prefix(†)-06-(*)-(+)HB45-48	39-1/16	16-3/16	22-7/8
	9	Prefix(†)-09-(*)-(+)HB45-48	40-1/8	16-3/8	23-1/2
	12	Prefix(†)-12-(*)-(+)HB45-48	41-3/16	17-1/16	24-1/8
48	18	Prefix(†)-18-(*)-(+)HB45-48	43-5/16	17-15/16	25-3/8
	24	Prefix(†)-24-(*)-(+)HB45-48	45-7/16	18-13/16	26-5/8
	30	Prefix(†)-30-(*)-(+)HB45-48	47-9/16	19-11/16	27-7/8
	36	Prefix(†)-36-(*)-(+)HB45-48	49-11/16	20-9/16	29-1/8

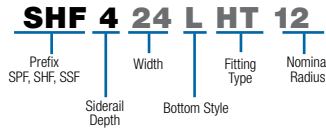
Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	Prefix(†)-06-(*)-(+)HB30-12	11-5/8	3-18	6-3/16
	9	Prefix(†)-09-(*)-(+)HB30-12	12-3/8	3-5/16	6-5/8
	12	Prefix(†)-12-(*)-(+)HB30-12	13-1/2	3-1/2	7
	18	Prefix(†)-18-(*)-(+)HB30-12	14-5/8	3-15/16	7-13/16
	24	Prefix(†)-24-(*)-(+)HB30-12	16-1/8	4-5/16	8-5/8
	30	Prefix(†)-30-(*)-(+)HB30-12	17-5/8	4-11/16	9-7/16
24	36	Prefix(†)-36-(*)-(+)HB30-12	19-1/8	5-1/8	10-1/4
	6	Prefix(†)-06-(*)-(+)HB30-24	17-5/8	4-11/16	9-7/16
	9	Prefix(†)-09-(*)-(+)HB30-24	18-3/8	4-15/16	9-13/16
	12	Prefix(†)-12-(*)-(+)HB30-24	19-1/8	5-2/16	10-4/16
	18	Prefix(†)-18-(*)-(+)HB30-24	20-5/8	5-8/16	11-1/16
	24	Prefix(†)-24-(*)-(+)HB30-24	22-1/8	5-15/16	11-13/16
36	30	Prefix(†)-30-(*)-(+)HB30-24	23-5/8	6-5/16	12-10/16
	36	Prefix(†)-36-(*)-(+)HB30-24	25-1/8	6-12/16	13-7/16
	6	Prefix(†)-06-(*)-(+)HB30-36	23-5/8	6-5/16	12-5/8
	9	Prefix(†)-09-(*)-(+)HB30-36	24-3/8	6-1/2	13-1/16
	12	Prefix(†)-12-(*)-(+)HB30-36	25-1/8	6-3/4	13-7/16
	18	Prefix(†)-18-(*)-(+)HB30-36	26-5/8	7-1/4	14-1/4
48	24	Prefix(†)-24-(*)-(+)HB30-36	28-1/8	7-1/2	15-1/16
	30	Prefix(†)-30-(*)-(+)HB30-36	29-5/8	7-15/16	15-7/8
	36	Prefix(†)-36-(*)-(+)HB30-36	31-1/8	8-5/16	16-11/16
	6	Prefix(†)-06-(*)-(+)HB30-48	29-5/8	7-15/16	15-7/8
	9	Prefix(†)-09-(*)-(+)HB30-48	30-3/8	8-1/8	16-1/4
	12	Prefix(†)-12-(*)-(+)HB30-48	31-1/8	8-5/16	16-11/16
48	18	Prefix(†)-18-(*)-(+)HB30-48	32-5/8	8-3/4	17-1/2
	24	Prefix(†)-24-(*)-(+)HB30-48	34-1/8	9-1/8	18-1/4
	30	Prefix(†)-30-(*)-(+)HB30-48	35-5/8	9-9/16	19-1/16
	36	Prefix(†)-36-(*)-(+)HB30-48	37-1/8	9-15/16	19-7/8

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Tee, Cross

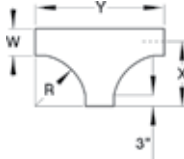
Part Numbering System



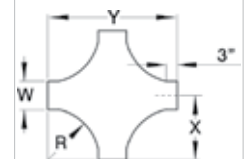
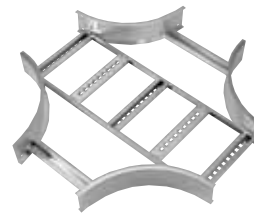
Selection Guide

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal TEE



Horizontal CROSS



Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	Prefix(t)-06-(*)-HT12	15	30
	9	Prefix(t)-09-(*)-HT12	16-1/2	33
	12	Prefix(t)-12-(*)-HT12	18	36
	18	Prefix(t)-18-(*)-HT12	21	42
	24	Prefix(t)-24-(*)-HT12	24	48
	30	Prefix(t)-30-(*)-HT12	27	54
24	6	Prefix(t)-06-(*)-HT24	27	54
	9	Prefix(t)-09-(*)-HT24	28-1/2	57
	12	Prefix(t)-12-(*)-HT24	30	60
	18	Prefix(t)-18-(*)-HT24	33	66
	24	Prefix(t)-24-(*)-HT24	36	72
	30	Prefix(t)-30-(*)-HT24	39	78
36	6	Prefix(t)-06-(*)-HT36	39	78
	9	Prefix(t)-09-(*)-HT36	40-1/2	81
	12	Prefix(t)-12-(*)-HT36	42	84
	18	Prefix(t)-18-(*)-HT36	45	90
	24	Prefix(t)-24-(*)-HT36	48	96
	30	Prefix(t)-30-(*)-HT36	51	102
48	6	Prefix(t)-06-(*)-HT48	51	102
	9	Prefix(t)-09-(*)-HT48	52-1/2	105
	12	Prefix(t)-12-(*)-HT48	54	108
	18	Prefix(t)-18-(*)-HT48	57	114
	24	Prefix(t)-24-(*)-HT48	60	120
	30	Prefix(t)-30-(*)-HT48	63	126
	36	Prefix(t)-36-(*)-HT48	66	132

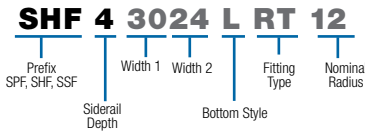
Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	Prefix(t)-06-(*)-HX12	15	30
	9	Prefix(t)-09-(*)-HX12	16-1/2	33
	12	Prefix(t)-12-(*)-HX12	18	36
	18	Prefix(t)-18-(*)-HX12	21	42
	24	Prefix(t)-24-(*)-HX12	24	48
	30	Prefix(t)-30-(*)-HX12	27	54
24	6	Prefix(t)-06-(*)-HX24	27	54
	9	Prefix(t)-09-(*)-HX24	28-1/2	57
	12	Prefix(t)-12-(*)-HX24	30	60
	18	Prefix(t)-18-(*)-HX24	33	66
	24	Prefix(t)-24-(*)-HX24	36	72
	30	Prefix(t)-30-(*)-HX24	39	78
36	6	Prefix(t)-06-(*)-HX36	39	78
	9	Prefix(t)-09-(*)-HX36	40-1/2	81
	12	Prefix(t)-12-(*)-HX36	42	84
	18	Prefix(t)-18-(*)-HX36	45	90
	24	Prefix(t)-24-(*)-HX36	48	96
	30	Prefix(t)-30-(*)-HX36	51	102
48	6	Prefix(t)-06-(*)-HX48	51	102
	9	Prefix(t)-09-(*)-HX48	52-1/2	105
	12	Prefix(t)-12-(*)-HX48	54	108
	18	Prefix(t)-18-(*)-HX48	57	114
	24	Prefix(t)-24-(*)-HX48	60	120
	30	Prefix(t)-30-(*)-HX48	63	126
	36	Prefix(t)-36-(*)-HX48	66	132

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Fittings

Horizontal Reducing Tee

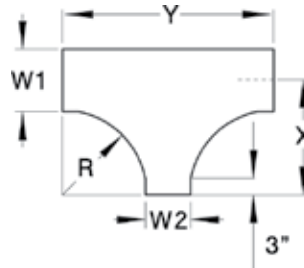
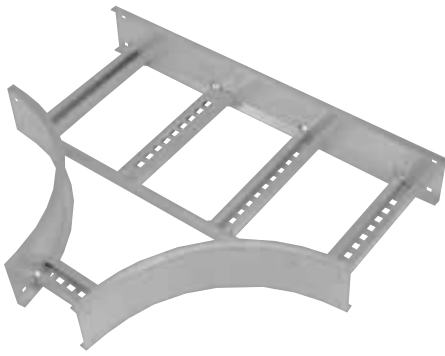
Part Numbering System



Selection Guide

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Tray Widths W1: 36, 30, 24, 18, 12, 9
 Tray Widths W2: 30, 24, 18, 12, 9, 6
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal REDUCING TEE – U-Style



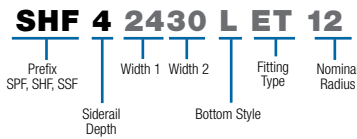
Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)		(+ 48 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	30	Prefix(†)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	Prefix(†)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
	18	Prefix(†)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	Prefix(†)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	Prefix(†)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	Prefix(†)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	Prefix(†)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	Prefix(†)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
	12	Prefix(†)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	Prefix(†)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	Prefix(†)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	Prefix(†)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
	12	Prefix(†)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	Prefix(†)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	Prefix(†)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	Prefix(†)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
	9	Prefix(†)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	Prefix(†)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	Prefix(†)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	Prefix(†)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	Prefix(†)-0906-(*)-RT(+)	16-1/2	30	28-1/2	54	40-1/2	78	52-1/2	102

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Tee

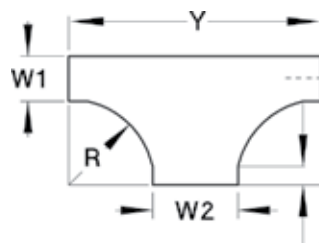
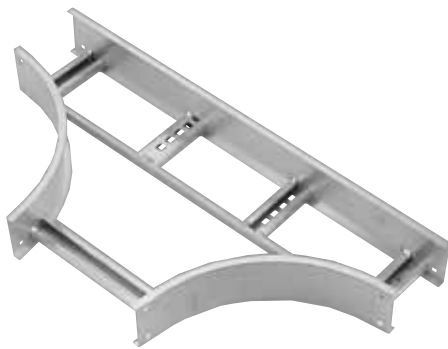
Part Numbering System



Selection Guide

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Tray Widths W1: 30, 24, 18, 12, 9, 6
 Tray Widths W2: 36, 30, 24, 18, 12, 9
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal EXPANDING TEE – U-Style

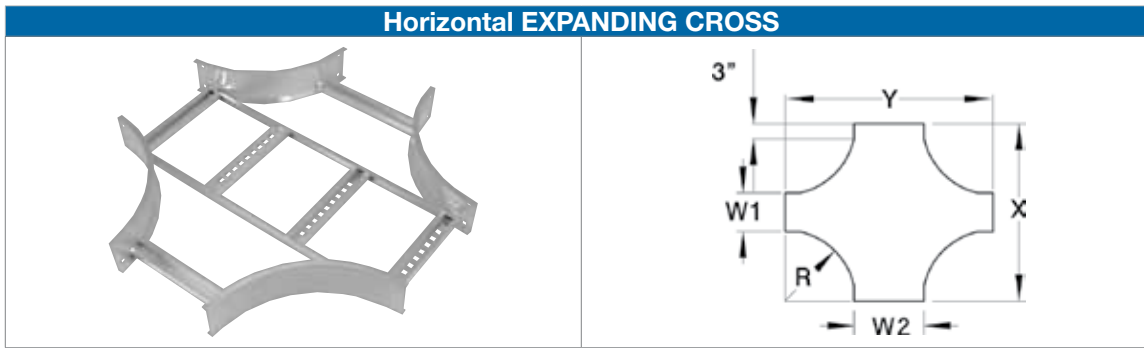
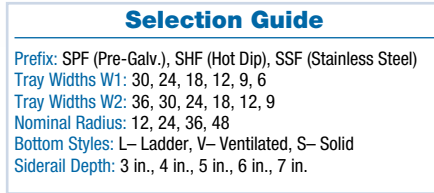
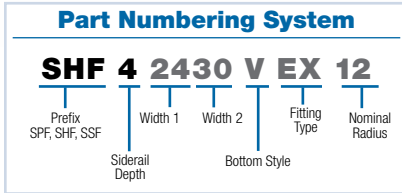


Widths		Cat. No.	(+) 12 in. Nominal Radius		(+) 24 in. Nominal Radius		(+) 36 in. Nominal Radius		(+) 48 in. Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	Prefix(+)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
	30	Prefix(+)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	Prefix(+)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
	24	Prefix(+)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
18	30	Prefix(+)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	Prefix(+)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
12	18	Prefix(+)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	Prefix(+)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
	30	Prefix(+)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	Prefix(+)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
9	12	Prefix(+)-0912-(*)-ET(+)	16-1/2	36	28-1/2	60	40-1/2	84	52-1/2	108
	18	Prefix(+)-0918-(*)-ET(+)	16-1/2	42	28-1/2	66	40-1/2	90	52-1/2	114
	24	Prefix(+)-0924-(*)-ET(+)	16-1/2	48	28-1/2	72	40-1/2	96	52-1/2	120
	30	Prefix(+)-0930-(*)-ET(+)	16-1/2	54	28-1/2	78	40-1/2	102	52-1/2	126
	36	Prefix(+)-0936-(*)-ET(+)	16-1/2	60	28-1/2	84	40-1/2	108	52-1/2	132
6	9	Prefix(+)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
	12	Prefix(+)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	Prefix(+)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
	24	Prefix(+)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	Prefix(+)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	Prefix(+)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Cross



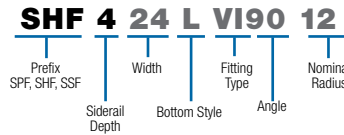
Widths		Cat. No.	(+) 12 in. Nominal Radius		(+) 24 in. Nominal Radius		(+) 36 in. Nominal Radius		(+) 48 in. Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	Prefix(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
	30	Prefix(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
24	36	Prefix(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
	24	Prefix(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
18	30	Prefix(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
	36	Prefix(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
12	18	Prefix(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
	24	Prefix(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
	30	Prefix(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
	36	Prefix(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
9	12	Prefix(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
	18	Prefix(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
	24	Prefix(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
	30	Prefix(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
	36	Prefix(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
6	9	Prefix(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
	12	Prefix(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
	18	Prefix(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
	24	Prefix(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
	30	Prefix(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
	36	Prefix(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 3 pairs of splice plates with hardware.

Fittings

Vertical Bends 90°

Part Numbering System

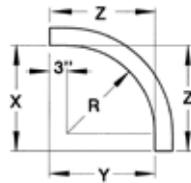


Selection Guide

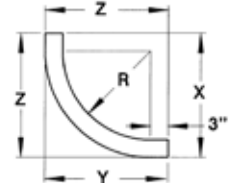
Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

90° Vertical BEND

Outside Bend



Inside Bend



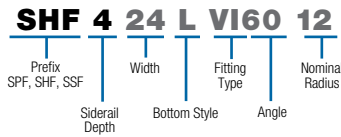
Nominal Radius	R	Width	Cat. No.	(+ V0 Siderail Height 3-1/2 in. – 7 in.)			(+ VI Siderail Height)															
				X	Y	Z	3-1/2 in.			4 in.			5 in.			6 in.			7 in.			
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6		Prefix(t)-06-(*)-(+90-12																			
	9		Prefix(t)-09-(*)-(+90-12																			
	12		Prefix(t)-12-(*)-(+90-12																			
	18		Prefix(t)-18-(*)-(+90-12	12	12	12	15-5/8	15-5/8	15-5/8	16-3/6	16-3/6	16-3/6	17-3/16	17-3/16	17-3/16	18-3/16	18-3/16	18-3/16	19-3/16	19-3/16	19-3/16	19-3/16
	24		Prefix(t)-24-(*)-(+90-12																			
	36		Prefix(t)-36-(*)-(+90-12																			
24	6		Prefix(t)-06-(*)-(+90-24																			
	9		Prefix(t)-09-(*)-(+90-24																			
	12		Prefix(t)-12-(*)-(+90-24																			
	18		Prefix(t)-18-(*)-(+90-24	24	24	24	27-5/8	27-5/8	27-5/8	28-3/16	28-3/16	28-3/16	29-3/16	29-3/16	29-3/16	30-3/16	30-3/16	30-3/16	31-3/16	31-3/16	31-3/16	31-3/16
	24		Prefix(t)-24-(*)-(+90-24																			
	36		Prefix(t)-36-(*)-(+90-24																			
36	6		Prefix(t)-06-(*)-(+90-36																			
	9		Prefix(t)-09-(*)-(+90-36																			
	12		Prefix(t)-12-(*)-(+90-36																			
	18		Prefix(t)-18-(*)-(+90-36	36	36	36	39-5/8	39-5/8	39-5/8	40-3/16	40-3/16	40-3/16	41-3/16	41-3/16	41-3/16	42-3/16	42-3/16	42-3/16	43-3/16	43-3/16	43-3/16	43-3/16
	24		Prefix(t)-24-(*)-(+90-36																			
	36		Prefix(t)-36-(*)-(+90-36																			
48	6		Prefix(t)-06-(*)-(+90-48																			
	9		Prefix(t)-09-(*)-(+90-48																			
	12		Prefix(t)-12-(*)-(+90-48																			
	18		Prefix(t)-18-(*)-(+90-48	48	48	48	51-5/8	51-5/8	51-5/8	52-3/16	52-3/16	52-3/16	53-3/16	53-3/16	53-3/16	54-3/16	54-3/16	54-3/16	55-3/16	55-3/16	55-3/16	55-3/16
	24		Prefix(t)-24-(*)-(+90-48																			
	36		Prefix(t)-36-(*)-(+90-48																			

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Fittings

Vertical Bends 60°

Part Numbering System

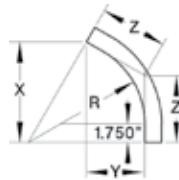
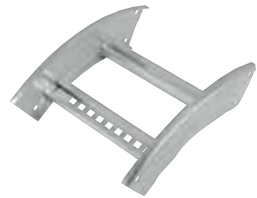


Selection Guide

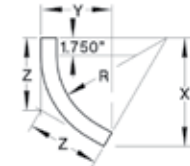
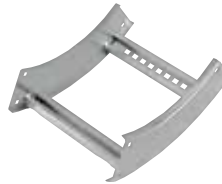
Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 60°
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

60° Vertical BEND

Outside Bend



Inside Bend



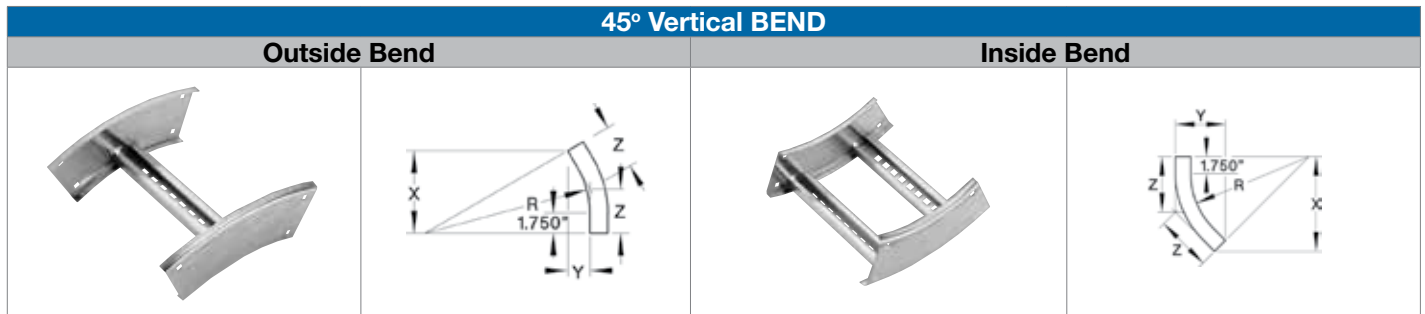
Nominal Radius	Width	Cat. No.	(+ VO Siderail Height 3-1/2 in. – 7 in.)			(+ VI Siderail Height)															
			X	Y	Z	3-1/2 in.			4 in.			5 in.			6 in.			7 in.			
R			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	
12	6	Prefix(+)-06-(*)-(+)60-12																			
	9	Prefix(+)-09-(*)-(+)60-12																			
	12	Prefix(+)-12-(*)-(+)60-12																			
	18	Prefix(+)-18-(*)-(+)60-12	10-3/8	6	6-15/16	13-1/2	9-5/8	9	14	10-3/16	9-3/8	14-7/8	11-3/16	9-15/16	15-3/4	12-3/16	10-1/2	16-5/8	13-3/16	11-1/16	
	24	Prefix(+)-24-(*)-(+)60-12																			
	36	Prefix(+)-36-(*)-(+)60-12																			
24	6	Prefix(+)-06-(*)-(+)60-24																			
	9	Prefix(+)-09-(*)-(+)60-24																			
	12	Prefix(+)-12-(*)-(+)60-24																			
	18	Prefix(+)-18-(*)-(+)60-24	20-13/16	12	13-7/8	23-15/16	15-5/8	15-15/16	24-7/16	16-3/16	16-1/4	25-1/4	17-3/16	16-7/8	26-1/8	18-3/16	17-7/16	27	19-3/16	18	
	24	Prefix(+)-24-(*)-(+)60-24																			
	36	Prefix(+)-36-(*)-(+)60-24																			
36	6	Prefix(+)-06-(*)-(+)60-36																			
	9	Prefix(+)-09-(*)-(+)60-36																			
	12	Prefix(+)-12-(*)-(+)60-36																			
	18	Prefix(+)-18-(*)-(+)60-36	31-3/16	18	20-13/16	34-5/16	21-5/8	22-7/8	34-13/16	22-3/4	23-3/16	35-11/16	23-3/16	23-3/4	36-1/2	24-3/16	24-3/8	37-7/16	25-3/16	24-15/16	
	24	Prefix(+)-24-(*)-(+)60-36																			
	36	Prefix(+)-36-(*)-(+)60-36																			
48	6	Prefix(+)-06-(*)-(+)60-48																			
	9	Prefix(+)-09-(*)-(+)60-48																			
	12	Prefix(+)-12-(*)-(+)60-48																			
	18	Prefix(+)-18-(*)-(+)60-48	41-9/16	24	27-11/16	44-11/16	27-5/8	29-13/16	45-3/16	28-3/16	30-1/8	46-1/16	29-3/16	30-11/16	46-15/16	30-3/16	31-1/8	47-13/16	31-3/16	31-7/8	
	24	Prefix(+)-24-(*)-(+)60-48																			
	36	Prefix(+)-36-(*)-(+)60-48																			

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Fittings

Vertical Bends 45°

Part Numbering System				Selection Guide		
SHF	4	24	L	VI	45	Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel) Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36 Angle: 45° Nominal Radius: 12, 24, 36, 48 Bottom Styles: L- Ladder, V- Ventilated, S- Solid Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.
Prefix SPF, SHF, SSF	Width	Siderail Depth	Bottom Style	Fitting Type	Angle	
Nominal Radius						



Nominal Radius	R	Width	Cat. No.	(+ V0 Siderail Height 3-1/2 in. – 7 in.)			(+ VI Siderail Height)																
				X	Y	Z	3-1/2 in.			4 in.			5 in.			6 in.			7 in.				
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
12	6		Prefix(t)-06-(*)-(+)45-12																				
	9		Prefix(t)-09-(*)-(+)45-12																				
	12		Prefix(t)-12-(*)-(+)45-12																				
	18		Prefix(t)-18-(*)-(+)45-12	8-1/2	3-1/2	5	11-1/16	7-1/8	6-1/2	11-7/16	7-11/16	6-11/16	12-1/8	8-11/16	7-1/8	12-7/8	9-11/16	7-1/2	13-9/16	10-11/16	7-15/16		
	24		Prefix(t)-24-(*)-(+)45-12																				
	30		Prefix(t)-30-(*)-(+)45-12																				
24	6		Prefix(t)-06-(*)-(+)45-24																				
	9		Prefix(t)-09-(*)-(+)45-24																				
	12		Prefix(t)-12-(*)-(+)45-24																				
	18		Prefix(t)-18-(*)-(+)45-24	17	7	9-15/16	19-1/2	10-5/8	11-7/16	19-15/16	11-3/16	11-11/16	20-5/8	12-3/16	12-1/16	21-3/8	13-3/16	12-1/2	22-1/16	14-3/16	12-15/16		
	24		Prefix(t)-24-(*)-(+)45-24																				
	30		Prefix(t)-30-(*)-(+)45-24																				
36	6		Prefix(t)-06-(*)-(+)45-36																				
	9		Prefix(t)-09-(*)-(+)45-36																				
	12		Prefix(t)-12-(*)-(+)45-36																				
	18		Prefix(t)-18-(*)-(+)45-36	25-7/16	10-9/16	14-15/16	28	14-3/16	16-7/16	28-7/16	14-3/4	16-5/8	29-1/8	15-3/4	17-1/16	29-13/16	16-3/4	17-1/2	30-1/2	17-3/4	17-7/8		
	24		Prefix(t)-24-(*)-(+)45-36																				
	30		Prefix(t)-30-(*)-(+)45-36																				
48	6		Prefix(t)-06-(*)-(+)45-48																				
	9		Prefix(t)-09-(*)-(+)45-48																				
	12		Prefix(t)-12-(*)-(+)45-48																				
	18		Prefix(t)-18-(*)-(+)45-48	33-15/16	14-1/16	19-7/8	36-1/2	17-11/16	21-3/8	36-7/8	18-1/4	21-5/8	37-5/8	19-1/4	22	39-5/16	20-1/4	22-7/16	39	21-1/4	22-7/8		
	24		Prefix(t)-24-(*)-(+)45-48																				
	30		Prefix(t)-30-(*)-(+)45-48																				

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

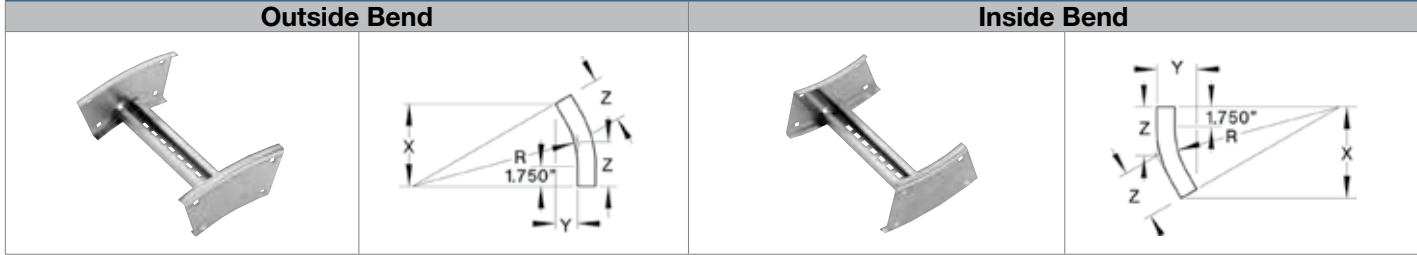
Fittings

Vertical Bends 30°

Part Numbering System				
SHF	4	24	L	VI30
Prefix SPF, SHF, SSF	Siderail Depth	Width	Bottom Style Fitting Type	Angle Nominal Radius

Selection Guide
Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
Angle: 30°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L- Ladder, V- Ventilated, S- Solid
Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

30° Vertical BEND



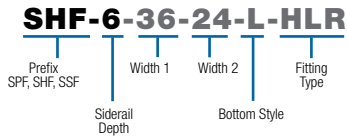
Nominal Radius	R	Width	Cat. No.	(+ V0 Siderail)			(+ VI Siderail Height)																
				Height 3-1/2 – 7 in.			3-1/2 in.			4 in.			5 in.			6 in.			7 in.				
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z		
12	6		Prefix(†)-06-(*)-(+30-12																				
	9		Prefix(†)-09-(*)-(+30-12																				
	12		Prefix(†)-12-(*)-(+30-12																				
	18		Prefix(†)-18-(*)-(+30-12	6	1-5/8	3-3/16	7-13/16	5-1/4	4-3/16	8-1/16	15-13/16	4-5/16	8-9/16	6-13/16	4-5/8	9-1/16	7-13/16	4-7/8	9-9/16	8-13/16	5-1/8		
	24		Prefix(†)-24-(*)-(+30-12																				
	30		Prefix(†)-30-(*)-(+30-12																				
24	6		Prefix(†)-06-(*)-(+30-24																				
	9		Prefix(†)-09-(*)-(+30-24																				
	12		Prefix(†)-12-(*)-(+30-24																				
	18		Prefix(†)-18-(*)-(+30-24	12	3-3/16	6-7/16	13-13/16	6-13/16	7-3/8	14-1/16	7-3/8	7-9/16	14-9/16	8-3/8	7-13/16	15-1/16	9-3/8	8-1/16	15-9/16	10-3/8	8-3/8		
	24		Prefix(†)-24-(*)-(+30-24																				
	30		Prefix(†)-30-(*)-(+30-24																				
36	6		Prefix(†)-06-(*)-(+30-36																				
	9		Prefix(†)-09-(*)-(+30-36																				
	12		Prefix(†)-12-(*)-(+30-36																				
	18		Prefix(†)-18-(*)-(+30-36	18	4-13/16	9-5/8	19-13/16	8-7/16	10-5/8	20-1/16	9	10-3/4	20-1/16	10	11-1/16	21-1/16	11	11-5/16	21-9/16	12	11-9/16		
	24		Prefix(†)-24-(*)-(+30-36																				
	30		Prefix(†)-30-(*)-(+30-36																				
48	6		Prefix(†)-06-(*)-(+30-48																				
	9		Prefix(†)-09-(*)-(+30-48																				
	12		Prefix(†)-12-(*)-(+30-48																				
	18		Prefix(†)-18-(*)-(+30-48	24	6-7/16	12-7/8	25-13/16	10-1/16	13-13/16	26-1/16	10-5/8	14	26-9/16	11-5/8	14-1/4	27-1/16	12-5/8	14-1/2	27-9/16	13-5/8	14-13/16		
	24		Prefix(†)-24-(*)-(+30-48																				
	30		Prefix(†)-30-(*)-(+30-48																				

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Fittings

Reducers

Part Numbering System



Selection Guide

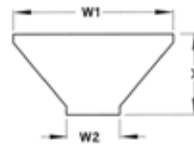
Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Tray Widths W1: 36, 30, 24, 18, 12, 9
 Tray Widths W2: 30, 24, 18, 12, 9, 6
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal REDUCERS

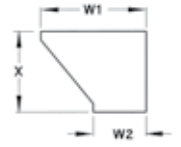
Offset Reducer - Right



Reducer - Straight



Offset Reducer - Left



Widths		Left Reducer		Straight Reducer (Concentric)		Right Reducer	
W1	W2	Cat. No.	Dim. X	Cat. No.	Dim. X	Cat. No.	Dim. X
36	30	Prefix(t)-36-30-(*)-HLR	15-7/16	Prefix(t)-36-30-(*)-HSR	13-3/4	Prefix(t)-36-30-(*)-HRR	15-7/16
	24	Prefix(t)-36-24-(*)-HLR	18-15/16	Prefix(t)-36-24-(*)-HSR	15-7/16	Prefix(t)-36-24-(*)-HRR	18-15/16
	18	Prefix(t)-36-18-(*)-HLR	22-3/8	Prefix(t)-36-18-(*)-HSR	17-3/8	Prefix(t)-36-18-(*)-HRR	22-3/8
	12	Prefix(t)-36-12-(*)-HLR	25-7/8	Prefix(t)-36-12-(*)-HSR	18-5/16	Prefix(t)-36-12-(*)-HRR	25-7/8
	9	Prefix(t)-36-09-(*)-HLR	27-9/16	Prefix(t)-36-09-(*)-HSR	19-13/16	Prefix(t)-36-09-(*)-HRR	27-9/16
	6	Prefix(t)-36-06-(*)-HLR	29-5/16	Prefix(t)-36-06-(*)-HSR	20-11/16	Prefix(t)-36-06-(*)-HRR	29-5/16
30	24	Prefix(t)-30-24-(*)-HLR	15-7/16	Prefix(t)-30-24-(*)-HSR	13-3/4	Prefix(t)-30-24-(*)-HRR	15-7/16
	18	Prefix(t)-30-18-(*)-HLR	18-15/16	Prefix(t)-30-18-(*)-HSR	15-7/16	Prefix(t)-30-18-(*)-HRR	18-15/16
	12	Prefix(t)-30-12-(*)-HLR	22-3/8	Prefix(t)-30-12-(*)-HSR	17-3/16	Prefix(t)-30-12-(*)-HRR	22-3/8
	9	Prefix(t)-30-09-(*)-HLR	24-1/8	Prefix(t)-30-09-(*)-HSR	18-1/16	Prefix(t)-30-09-(*)-HRR	24-1/8
	6	Prefix(t)-30-06-(*)-HLR	25-7/8	Prefix(t)-30-06-(*)-HSR	18-15/16	Prefix(t)-30-06-(*)-HRR	25-7/8
24	18	Prefix(t)-24-18-(*)-HLR	15-7/16	Prefix(t)-24-18-(*)-HSR	13-3/4	Prefix(t)-24-18-(*)-HRR	15-7/16
	12	Prefix(t)-24-12-(*)-HLR	18-15/16	Prefix(t)-24-12-(*)-HSR	15-7/16	Prefix(t)-24-12-(*)-HRR	18-15/16
	9	Prefix(t)-24-09-(*)-HLR	20-11/16	Prefix(t)-24-09-(*)-HSR	16-5/16	Prefix(t)-24-09-(*)-HRR	20-11/16
	6	Prefix(t)-24-06-(*)-HLR	22-3/8	Prefix(t)-24-06-(*)-HSR	17-3/16	Prefix(t)-24-06-(*)-HRR	22-3/8
18	12	Prefix(t)-18-12-(*)-HLR	15-7/16	Prefix(t)-18-12-(*)-HSR	13-3/4	Prefix(t)-18-12-(*)-HRR	15-7/16
	9	Prefix(t)-18-09-(*)-HLR	17-3/16	Prefix(t)-18-09-(*)-HSR	14-5/8	Prefix(t)-18-09-(*)-HRR	17-3/16
	6	Prefix(t)-18-06-(*)-HLR	18-15/16	Prefix(t)-18-06-(*)-HSR	15-7/16	Prefix(t)-18-06-(*)-HRR	18-15/16
12	9	Prefix(t)-12-39-(*)-HLR	13-3/4	Prefix(t)-12-09-(*)-HSR	12-7/8	Prefix(t)-12-09-(*)-HRR	13-3/4
	6	Prefix(t)-12-06-(*)-HLR	15-7/16	Prefix(t)-12-06-(*)-HSR	13-3/4	Prefix(t)-12-06-(*)-HRR	15-7/16
9	6	Prefix(t)-09-06-(*)-HLR	13-3/4	Prefix(t)-09-06-(*)-HSR	12-7/8	Prefix(t)-09-06-(*)-HRR	13-3/4

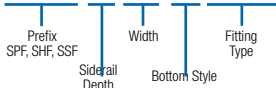
(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Wye 45°

Part Numbering System

SHF-6-36-L-HYL

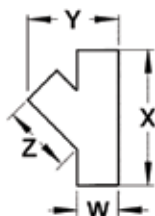
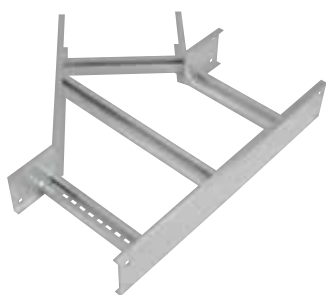


Selection Guide

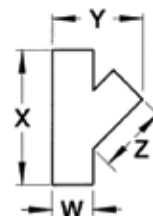
Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Bottom Styles: L- Ladder, V- Ventilated, S- Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

45° Horizontal WYE – U-Style

Left Hand Wye



Right Hand Wye



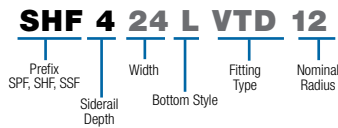
Width	Left Hand Wye Cat. No.	Right Hand Wye Cat. No.	Dimensions		
			X	Y	Z
6	Prefix(t)-06-(*)-HYL	Prefix(t)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
9	Prefix(t)-09-(*)-HYL	Prefix(t)-09-(*)-HYR	22-1/2	19-15/16	15-7/16
12	Prefix(t)-12-(*)-HYL	Prefix(t)-12-(*)-HYR	26-3/4	25	18-7/16
18	Prefix(t)-18-(*)-HYL	Prefix(t)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	Prefix(t)-24-(*)-HYL	Prefix(t)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	Prefix(t)-30-(*)-HYL	Prefix(t)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	Prefix(t)-36-(*)-HYL	Prefix(t)-36-(*)-HYR	60-11/16	66	42-7/16

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.

Fittings

Vertical Tee Up / Down

Part Numbering System

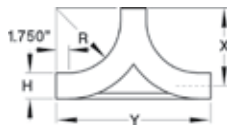


Selection Guide

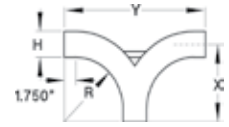
Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

Vertical Tee Up/Down

Outside Bend



Inside Bend



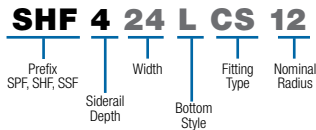
Nominal Radius	Vertical Tee Up	Vertical Tee Down	Siderail Height "H"										
			3-1/2 in.		4 in.		5 in.		6 in.		7 in.		
R	Width	Cat. No.	Cat. No.	X	Y	X	Y	X	Y	X	Y	X	Y
12	6	Prefix(t)-06-(*)-VTU12	Prefix(t)-06-(*)-VTD12	13-13/16	27-5/8	14-1/8	28-3/16	14-5/8	29-3/16	15-1/8	30-3/16	15-5/8	31-3/16
	9	Prefix(t)-09-(*)-VTU12	Prefix(t)-09-(*)-VTD12										
	12	Prefix(t)-12-(*)-VTU12	Prefix(t)-12-(*)-VTD12										
	18	Prefix(t)-18-(*)-VTU12	Prefix(t)-18-(*)-VTD12										
	24	Prefix(t)-24-(*)-VTU12	Prefix(t)-24-(*)-VTD12										
	30	Prefix(t)-30-(*)-VTU12	Prefix(t)-30-(*)-VTD12										
24	6	Prefix(t)-06-(*)-VTU24	Prefix(t)-06-(*)-VTD24	25-13/16	51-5/8	26-1/8	52-3/16	26-5/8	53-3/16	27-1/8	54-3/16	27-5/8	55-3/16
	9	Prefix(t)-09-(*)-VTU24	Prefix(t)-09-(*)-VTD24										
	12	Prefix(t)-12-(*)-VTU24	Prefix(t)-12-(*)-VTD24										
	18	Prefix(t)-18-(*)-VTU24	Prefix(t)-18-(*)-VTD24										
	24	Prefix(t)-24-(*)-VTU24	Prefix(t)-24-(*)-VTD24										
	30	Prefix(t)-30-(*)-VTU24	Prefix(t)-30-(*)-VTD24										
36	6	Prefix(t)-06-(*)-VTU36	Prefix(t)-06-(*)-VTD36	37-13/16	75-5/8	38-1/8	76-3/16	38-5/8	77-3/16	39-1/8	78-3/16	39-5/8	79-3/16
	9	Prefix(t)-09-(*)-VTU36	Prefix(t)-09-(*)-VTD36										
	12	Prefix(t)-12-(*)-VTU36	Prefix(t)-12-(*)-VTD36										
	18	Prefix(t)-18-(*)-VTU36	Prefix(t)-18-(*)-VTD36										
	24	Prefix(t)-24-(*)-VTU36	Prefix(t)-24-(*)-VTD36										
	30	Prefix(t)-30-(*)-VTU36	Prefix(t)-30-(*)-VTD36										
48	6	Prefix(t)-06-(*)-VTU48	Prefix(t)-06-(*)-VTD48	49-13/16	99-5/8	50-1/8	100-3/16	50-5/8	101-3/16	51-1/8	102-3/16	51-5/8	103-3/16
	9	Prefix(t)-09-(*)-VTU48	Prefix(t)-09-(*)-VTD48										
	12	Prefix(t)-12-(*)-VTU48	Prefix(t)-12-(*)-VTD48										
	18	Prefix(t)-18-(*)-VTU48	Prefix(t)-18-(*)-VTD48										
	24	Prefix(t)-24-(*)-VTU48	Prefix(t)-24-(*)-VTD48										
	30	Prefix(t)-30-(*)-VTU48	Prefix(t)-30-(*)-VTD48										
36	Prefix(t)-36-(*)-VTU48	Prefix(t)-36-(*)-VTD48											

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.

Fittings

Cable Support

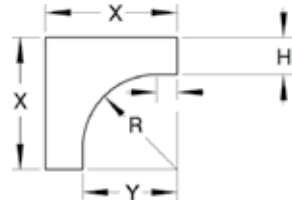
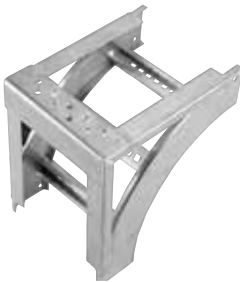
Part Numbering System



Selection Guide

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36, 48
 Bottom Styles: L– Ladder, V– Ventilated, S– Solid
 Siderail Depth: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal EXPANDING CROSS



Nominal Radius	Siderail Height "H"					
	3-7/8 in.	4 in.	5 in.	6 in.	7 in.	
R	X					
Width	X					
Cat. No.	X					
12	15-5/8	16-3/16	17-3/16	18-3/16	19-3/16	
6						Prefix(†)-06-(-)-CS12
9						Prefix(†)-09-(-)-CS12
12						Prefix(†)-12-(-)-CS12
18						Prefix(†)-18-(-)-CS12
24						Prefix(†)-24-(-)-CS12
30						Prefix(†)-30-(-)-CS12
36	Prefix(†)-36-(-)-CS12					
24	27-5/8	28-3/16	29-3/16	30-3/16	31-3/16	
6						Prefix(†)-06-(-)-CS24
9						Prefix(†)-09-(-)-CS24
12						Prefix(†)-12-(-)-CS24
18						Prefix(†)-18-(-)-CS24
24						Prefix(†)-24-(-)-CS24
30						Prefix(†)-30-(-)-CS24
36	Prefix(†)-36-(-)-CS24					
36	39-5/8	40-3/16	41-3/16	42-3/16	43-3/16	
6						Prefix(†)-06-(-)-CS36
9						Prefix(†)-09-(-)-CS36
12						Prefix(†)-12-(-)-CS36
18						Prefix(†)-18-(-)-CS36
24						Prefix(†)-24-(-)-CS36
30						Prefix(†)-30-(-)-CS36
36	Prefix(†)-36-(-)-CS36					
48	51-5/8	52-3/16	53-3/16	54-3/16	55-3/16	
6						Prefix(†)-06-(-)-CS48
9						Prefix(†)-09-(-)-CS48
12						Prefix(†)-12-(-)-CS48
18						Prefix(†)-18-(-)-CS48
24						Prefix(†)-24-(-)-CS48
30						Prefix(†)-30-(-)-CS48
36	Prefix(†)-36-(-)-CS48					

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Helix™ Cable Tray Fitting

The Helix™ cable tray fitting. Efficiency is in its DNA.

Go from horizontal to vertical, maximum cable protection, minimum space.

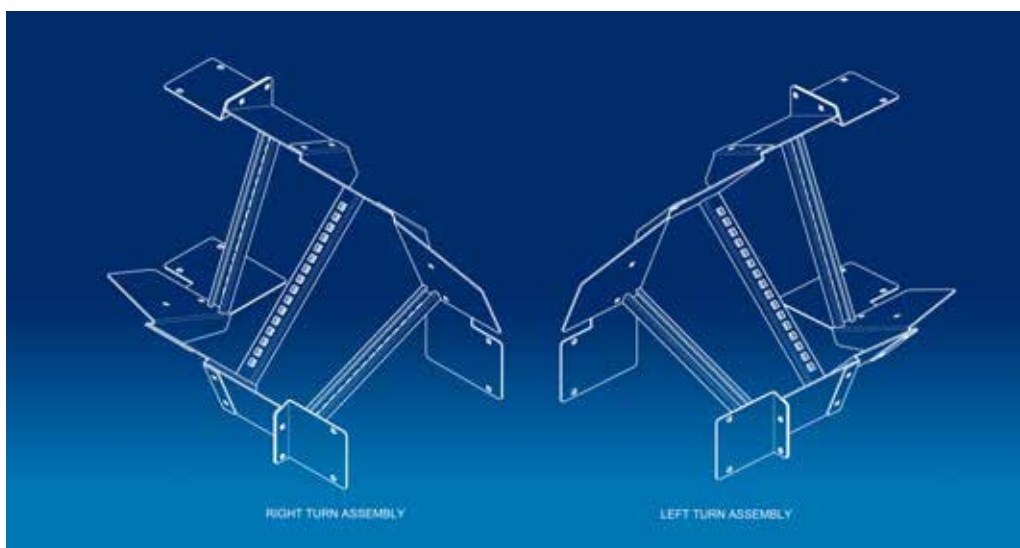
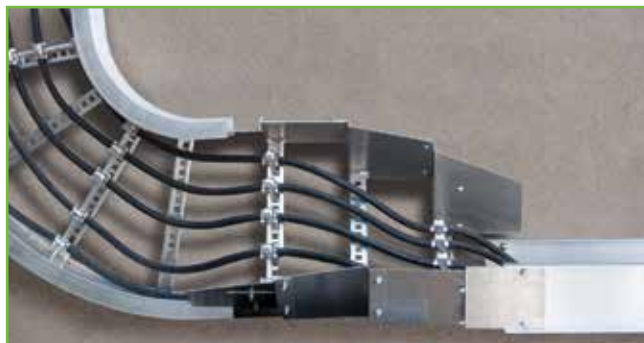
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray Fittings, the Helix™ Fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced Cable protection in confined spaces
- Secures cables within Fitting for clean, organized cable runs



Fittings

Helix™ Cable Tray Fitting



Cat. No.	Material	Siderail (in.)	Width (in.)	Direction
SPF612LHVR	Pregalvanized Steel	6	12	Right turn
SPF612LHVL			12	Left turn
SPF624LHVR			24	Right turn
SPF624LHVL			24	Left turn
SSF612LHVR	Stainless Steel		12	Right turn
SSF612LHVL			12	Left turn
SSF624LHVR			24	Right turn
SSF624LHVL			24	Left turn

Supports should be positioned within 24" (610 mm) of each Helix™ fitting extremity.

Covers

Peaked Covers

Steel Number Selection

SHW-24-PFC-HB-90-24					
Material	Width	Cover Type	Fitting Type	Degree	Nominal Radius
SHW • Hot Dip Galvanized SSW • Stainless Steel 316	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	PFC • Peaked Flanged Cover PVC • Peaked Vented Flanged Cover	HB • Horizontal Bend VI • Vertical Inside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix					

Note: Pre-Galvanized not available.

Steel Number Selection

SSW-6-24-PFC-VO-90-24						
Material	Siderail Height	Width	Cover Type	Fitting Type	Degree	Nominal Radius
SHW • Hot Dip Galvanized SSW • Stainless Steel 316	4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	PFC • Peaked Flanged Cover PVC • Peaked Vented Flanged Cover	VO • Vertical Outside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix						

Note: Pre-Galvanized not available.

Steel Number Selection

SHW-24-PFC-HT-24				
Material	Width	Cover Type	Fitting Type	Nominal Radius
SHW • Hot Dip Galvanized SSW • Stainless Steel 316	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	PFC • Peaked Flanged Cover PVC • Peaked Vented Flanged Cover	HT • Horizontal Tee	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix				

Note: Pre-Galvanized not available.

Covers

Tray Covers

Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where a vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a peaked flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have 1/2 in. flange.

Cover mounting hardware must be ordered separately.



Solid Flanged

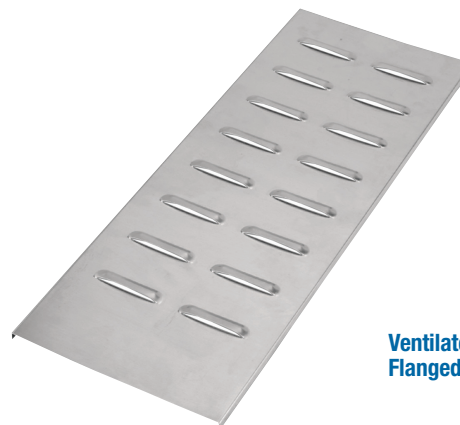


Solid Non-Flanged

Ventilated Flanged Covers

This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.



Ventilated Flanged

Peaked Flanged Covers

Peaked covers offer mechanical protection plus prevent accumulation of liquid on the cover. Peaked covers have 15° rise at the peak.

Cover mounting hardware must be ordered separately.



Peaked Flanged

Covers

Straight Cover Number Selection

(SPW 12)SNC-3			
Material Prefix	Width	Type	Length
SPW • Pre-Galvanized SHW • Hot Dip Galvanized* SSW • Stainless Steel 316	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover PFC • Peaked Flanged Cover **	72 • (72 in.) 3 • (3 m)
Prefix			

* Hot Dipped Covers only available in 72 in. and 1500 mm lengths.

** Peaked covers greater than 24 in. wide available in 72 in. and 3 m lengths only.

Fitting Cover Number Selection

(SPW 12)SNCHB9024					
Material Prefix	Width	Cover Type	Fitting Type	Degree*	Nominal Radius
SPW • Pre-Galvanized SHW • Hot Dip Galvanized SSW • Stainless Steel 316	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	HB • Horizontal Bend VI • Vertical Inside Bend HT • Horizontal Tee HX • Horizontal Cross VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix					

* Required for HB & VI only.

Covers

Fitting Cover Number Selection (cont'd)

(SPW 18 1 2)SNCRT 1 2					
Material	Width 1	Width 2	Cover Type	Fitting Type	Radius*
SPW • Pre-Galvanized SHW • Hot Dip Galvanized SSW • Stainless Steel 316	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand Tee & Reduce Cross HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix					

* Radius not required for HSR, HLR, HRR.

Fitting Cover Number Selection

(SPW 4 1 2)SNCVO 9 0 2 4						
Material	Siderail Height	Width	Cover Type	Fitting Type	Degree*	Nominal Radius
SPW • Pre-Galvanized SHW • Hot Dip Galvanized SSW • Stainless Steel 316	3 • (3-5/8 in.) 4 • (4 in.) 5 • (5 in.) 6 • (6 in.) 7 • (7 in.)	06 • (6 in.) 09 • (9 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.) 48 • (48 in.)
Prefix						

* Required for VO only.

Covers

Accessories For Covers

Quantity of Standard Cover Clamps Required	
Straight section (6 ft.)	4 pcs.
Straight section (12 ft./ 3 m)	6 pcs.
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

Note: When using the Heavy-Duty Cover Clamp, only half the quantity of pieces are required.

Raised Cover Clamp



Designed to raise cover above tray for added ventilation.

Cat. No.	Material	Material Prefix
SPW(+) RCC	1	SPW
	2	SSW

(*) Insert Cover Offset.

Peaked End Cap



Used for transition between peaked covers to straight covers.

Cat. No.	Width (in.)	Material Prefix
SPW(*) PEC SHW(*) PEC SSW(*) PEC	6	SPW SHW SSW
	9	
	12	
	18	
	24	
	30	
	36	

(*) Insert siderail height.

Combination Hold Down Cover Clamp



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

Cat. No.	Siderail Height	Material Prefix
SPW-3- CCC SPW-4- CCC SPW-5- CCC SPW-6- CCC SPW-7- CCC	3	SPW SSW
	4	
	5	
	6	
	7	

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Covers

Accessories For Covers

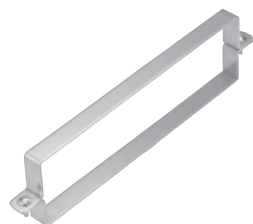
Cover Clamp



Rigid indoor cover clamp for flat and flanged covers.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-SCC (Prefix)-4-SCC (Prefix)-5-SCC (Prefix)-6-SCC (Prefix)-7-SCC	SPW SSW	3
		4
		5
		6
		7

Heavy-Duty Cover Clamp



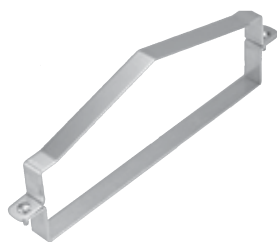
Wrap around design offers added protection for rugged applications and outdoor conditions.

Hardware included.

Cat. No.	Material Prefix	Width of Tray (in.)	Siderail Height (in.)
(Prefix)-3-(*)-HCC (Prefix)-4-(*)-HCC (Prefix)-5-(*)-HCC (Prefix)-6-(*)-HCC (Prefix)-7-(*)-HCC	SPW SHW SSW	06	3
		09	4
		12	5
		18	6
		24	7
		30	
		36	

(*) Insert Width of Tray.

Heavy-Duty Peaked Cover Clamp



Wrap around design formed to fit peaked cover for outdoor applications.

Hardware included.

Cat. No.	Material Prefix	Width of Tray (in.)	Siderail Height (in.)
(Prefix)-3-(*)-HPC (Prefix)-4-(*)-HPC (Prefix)-5-(*)-HPC (Prefix)-6-(*)-HPC (Prefix)-7-(*)-HPC	SPW SHW SSW	06	3
		09	4
		12	5
		18	6
		24	7
		30	
		36	

(*) Insert width of tray.

Cover Joint Strip



Strip used for joining covers end to end.

Cat. No.	Material Prefix	Width of Tray (in.)
SPW-(*)-SCS	SPW	06
		09
		12
		18
		24
		30
		36

(*) Insert width of tray.
Note: material is plastic.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Splice Plates

Splice Plate



Packaged in pairs with zinc plated hardware. Provided as standard with each straight and/or fitting.

Cat. No.	Material Prefix	Siderail Height
(Prefix)-3-SSP	SPW SHW SSW	4
(Prefix)-4-SSP		5
(Prefix)-5-SSP		6
(Prefix)-6-SSP		6
(Prefix)-7-SSP		7

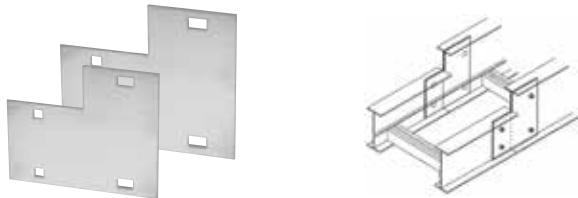
Expansion Splice Plate



Allows for a 1 in. expansion or contraction of tray system. Packaged in pairs with hardware.

Cat. No.	Material Prefix	Siderail Height
(Prefix)-3-ESP	SPW SHW SSW	3
(Prefix)-4-ESP		4
(Prefix)-5-ESP		5
(Prefix)-6-ESP		6
(Prefix)-7-ESP		7

Step Down Splice Plate



Connects siderails of different heights. Hardware included.

Cat. No.	Material Prefix
(Prefix)-(*)-(**)-SDS	SPW SHW SSW

(*) Insert siderail height 1. (**) Insert siderail height 2.
Note: Siderail height 1 is greater than siderail height 2.

Horizontal Adjustable Plate



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

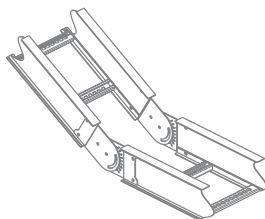
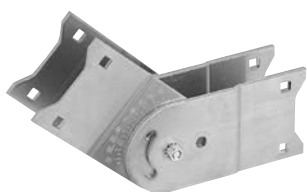
Cat. No.	Material Prefix	Siderail Height in.
(Prefix)-(*)06HAP	SPW SHW	6
(Prefix)-(*)09HAP		9
(Prefix)-(*)12HAP		12
(Prefix)-(*)18HAP		18
(Prefix)-(*)24HAP		24
(Prefix)-(*)30HAP		30
(Prefix)-(*)36HAP		36

(*) Insert Siderail Height.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Splice Plates

Vertical Adjustable Plate



Hinged vertical plates provide maximum flexibility for changes in elevation.

Packaged in pairs with hardware.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-VSP	SPW SHW SSW	3
(Prefix)-4-VSP		4
(Prefix)-5-VSP		5
(Prefix)-6-VSP		6
(Prefix)-7-VSP		7

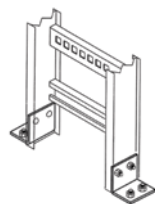
Branch Pivot Connectors



Allows cables to run from one tray level to another.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-BPC	SPW SHW SSW	3
(Prefix)-4-BPC		4
(Prefix)-5-BPC		5
(Prefix)-6-BPC		6
(Prefix)-7-BPC		7

Heavy-Duty Cover Clamp

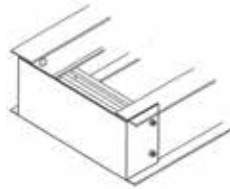


Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-BSP	SPW SHW SSW	3
(Prefix)-4-BSP		4
(Prefix)-5-BSP		5
(Prefix)-6-BSP		6
(Prefix)-7-BSP		7

Splice Plates

Closure End Plate

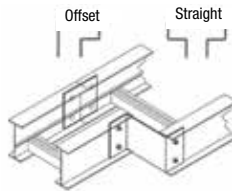


Provides closure for any tray end. Hardware included.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-(*)-CEP (Prefix)-4-(*)-CEP (Prefix)-5-(*)-CEP (Prefix)-6-(*)-CEP (Prefix)-7-(*)-CEP	SPW SHW SSW	3
		4
		5
		6
		7

* Tray Width.

Reducing Splice Plate



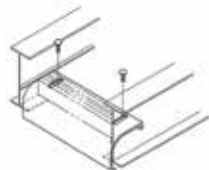
Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction. One per package with hardware.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-RSP (Prefix)-4-RSP (Prefix)-5-RSP (Prefix)-6-RSP (Prefix)-7-RSP	SPW SHW SSW	3
		4
		5
		6
		7

*Note: For Offset Reduction: Insert width to be reduced.
 For Straight Reduction: Insert 1/2 width to be reduced (2 required).
 Example: SPW-503-RSP = 3 in. offset reducer

Cable Protection

Drop-Out



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

Cat. No.	Material Prefix	Tray Width (in.)
(Prefix)-(*)-DO (Prefix)-(*)-DOS +	SPW SHW SSW	06
		09
		12
		18
		24
		30
		36

(*) Insert Width of Tray.
+ DOS = is for solid Tray.

Wall Penetration Sleeve



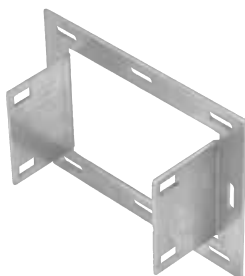
Sold with cover

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

Cat. No.	Material Prefix	Tray Width (in.)	Siderail Height (in.)
(Prefix)-(*)-(**)-WPS	SPW SHW SSW	06	3
		09	4
		12	5
		18	6
		24	7
		30	
		36	

(*) Insert Siderail Height.
(**) Insert Width of Tray.

Frame Type Tray to Box Plate



Designed to secure tray to electrical enclosures and panels.

Hardware included.

Cat. No.	Material Prefix	Tray Width (in.)	Siderail Height (in.)
(Prefix)-(*)-(**)-FBP	SPW SHW SSW	06	3
		09	4
		12	5
		18	6
		24	7
		30	
		36	

(*) Insert Siderail Height.
(**) Insert Width of Tray.

Nylon Expansion Pad

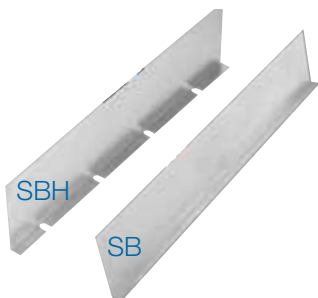


Allows for thermal expansion and contraction of cable trays over supports.

Cat. No.	Material
ABW-NSP	Natural Nylon

Barrier Strips

Barrier Strips



Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or Barrier Strip Clamps (sold separately).

72 in. Barriers are flexible for use with horizontal fittings.

NOTE: Barriers provided with self drilling-tapping screw
 cat. no. SPW10SCR
 72 in. length: 3 screw
 3 m length: 5 screw
 144 in. length: 6 screw

Cat. No.	Material Prefix	Designed for Siderail Height (in.)	Length
(Prefix)-3-SBH-72 (Prefix)-4-SBH-72 (Prefix)-5-SBH-72 (Prefix)-6-SBH-72 (Prefix)-7-SBH-72	SPW SHW SSW	3 4 5 6 7	72 in.
(Prefix)-3-SB-(* (Prefix)-4-SB-(* (Prefix)-5-SB-(* (Prefix)-6-SB-(* (Prefix)-7-SB-(*	SPW SHW SSW	3 4 5 6 7	144 in. 3 m

Note: SHW barriers are only available in 72 in. or 1500 mm. (*) Insert Length.

Inside/Outside Vertical Bend Barriers



Preformed to fit all standard steel vertical bends.

Provided with hardware.

Inside Bend Cat. No.	Outside Bend Cat. No.	Material Prefix	Designed for Siderail Height (in.)
(Prefix)-3-VIB-(*)-(+) (Prefix)-4-VIB-(*)-(+) (Prefix)-5-VIB-(*)-(+) (Prefix)-6-VIB-(*)-(+) (Prefix)-7-VIB-(*)-(+)	(Prefix)-3-VOB-(*)-(+) (Prefix)-4-VOB-(*)-(+) (Prefix)-5-VOB-(*)-(+) (Prefix)-6-VOB-(*)-(+) (Prefix)-7-VOB-(*)-(+)	SPW SHW SSW	3 4 5 6 7

(*) Insert Bend Degree (+) Insert Bend Radius.

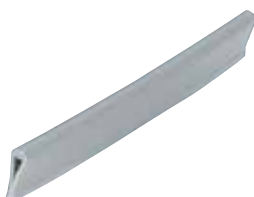
Barrier Strip Clamp



Barrier Strip Clamps mount Barrier Strips to Ladder rungs and Ventilated Trough bottoms. Complete mounting hardware supplied.

Cat. No.	Material Prefix
(Prefix)-BSC	SPW SPW

Barrier Strip Splice

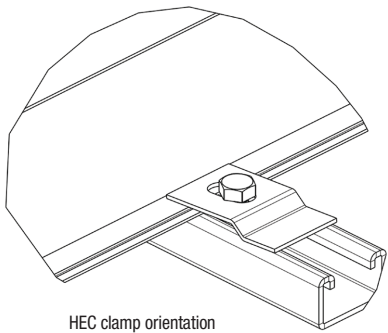


Cat. No.	Material Prefix
ABW-BSS	SPW SPW

Alignment splice for joining connecting Barrier Strips.

Clamps and Hardware

Combination Hold Down / Expansion Clamp



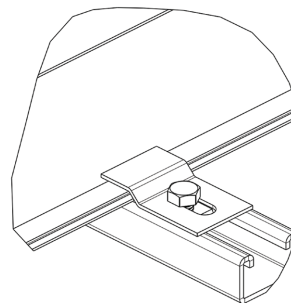
HEC clamp orientation

Cat. No.	Material Prefix
(Prefix)-HEC	SPW SHW SSW

Order 3/8 in. hardware separately.

Cat. No.	Material Prefix
(Prefix)-HEC-HDW	SPW SHW SSW

Note: HDW is supplied with 1/4 in. hardware



HEC guide orientation

Clamps and Hardware

Steel Tray Hardware



Square shoulder self-positioning carriage bolt.

Cat. No.	Material	Description
SPW-1/4-CB	Zinc Plated Steel	1/4 in. Carriage Bolt
SPW-3/8-CB		3/8 in. Carriage Bolt
SPW-1/4-HN		1/4 in. Hex. Nut
SPW-3/8-HN		3/8 in. Hex. Nut
SPW-3/8-HWK*		Hardware Kit
SSW-3/8-CB	316 Stainless	3/8 in. Carriage Bolt
SSW-3/8-HN		3/8 in. Hex. Nut
SSW-3/8-HWK*		316 Stainless Steel Hardware Kit

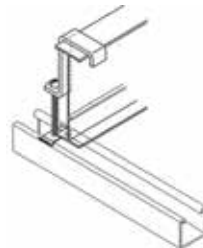
* Contains 8 nuts and 8 bolts.

Self-Drilling – Tapping Screw



Cat. No.	Material	Description
SPW-10-SCR	Zinc Plated Steel	Self-Drilling – Tapping Screw
SW-10-SCR	Stainless Steel	Self-Drilling – Tapping Screw

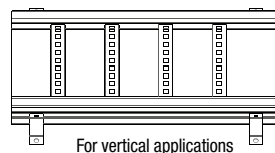
Hold Down Clamp



Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-3-HDC	SPW SSW	3
(Prefix)-4-HDC		4
(Prefix)-5-HDC		5
(Prefix)-6-HDC		6
(Prefix)-7-HDC		7

Note: Hardware included.

Hold Down Clamp



Cat. No.	Type	Material	Design Load
SPWHDCS	Single	Pre-Galvanized	800 lb./pair
SHWHDCS	Single	Hot Dip Galvanized	
SSWHDCS	Single	Stainless Steel 316	
SPWHDCD	Double	Pre-Galvanized	1500 lb./pair
SHWHDCD	Double	Hot Dip Galvanized	
SSWHDCD	Double	Stainless Steel 316	

Clamps and Hardware

Cable Tray Guide



Expansion guide for single or double runs of cable tray. No need to field drill channel or I-beam.

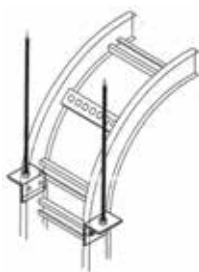
Cat. No.	Material
SPW-CTG	Zinc Plated Steel
SHW-CTG	Steel Hot Dip galvanized
SSW-CTG	Stainless Steel

Cable Tray Clamp



Cat. No.	Material
SPW-CTC	Zinc Plated Steel
SHW-CTC	Steel Hot Dip galvanized
SSW-CTC	Stainless Steel

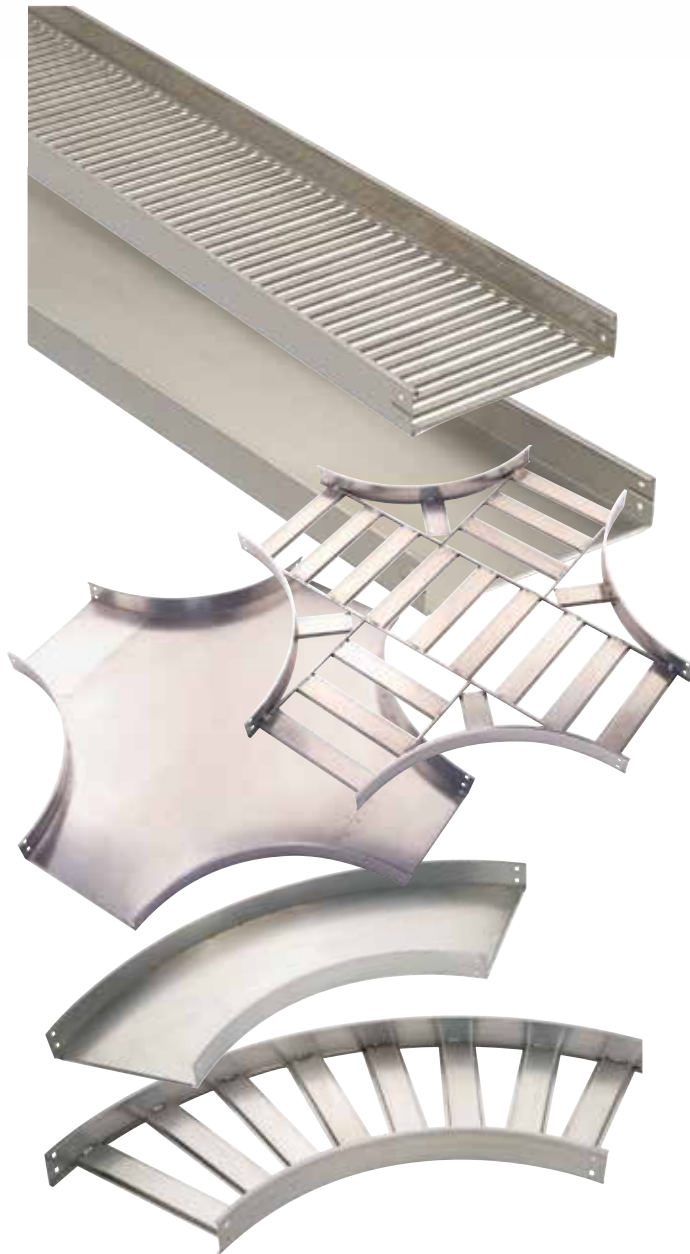
Vertical Tray Hanger



Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-(*)-VTH	SPW SHW SSW	3
		4
		5
		6
		7

(*) Insert Siderail Height

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Selection Guide

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Ventilated Trough

- Formed from a pre-punched sheet to produce a One-Piece Ventilated Trough.
- Available in Aluminum, Pre-Galvanized Steel, Hot Dip Galvanized Steel and Stainless Steel 316.
- Fittings are also available to complete this cable tray system.



Solid Trough

- Fabricated from one sheet to form a continuous One-Piece tray design.
- Available in Aluminum, Pre-Galvanized Steel, Hot Dip Galvanized Steel and Stainless Steel 316.
- Fittings are also available to complete this cable tray system.



Note: 1 pair of splice plates complete with hardware supplied with each straight length.

Selection Guide

How to Create Part Numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page A8.

Methods

1. Select the material best suited to your environment. Refer to technical section page A8.
2. Determine the tray series using the NEMA Load/Span Designations page A16, and Sizing Cable Tray page A23.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray.

Straight Section Number Selection

(ALU 13) 12V-3					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
AL • Aluminum SP • Pre-Galvanized SH • Hot Dip Galvanized SS • Stainless Steel 316	U1 • Unit or One-Piece Tray	2 • (2 in.) 3 • (3-5/8 in.) 6 • (6 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) Welded Flat Rung 30 • (30 in.) 36 • (36 in.)	V • Ventilated Trough S • Solid Trough	3 • (3 meters) *

*3m = 9.842 ft.

Straight Lengths

2 in. Straight Sections / AL, SP, SH, SS
Solid and Vented

Straight Section Number Selection

(ALU12) 12V-3					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
AL • Aluminum SP • Pre-Galvanized SH • Hot Dip Galvanized SS • Stainless Steel 316	U1 • Unit or One-Piece Tray	2 • (2 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) Welded Flat Rung 30 • (30 in.) 36 • (36 in.)	V • Ventilated Trough S • Solid Trough	3 • (3 meters) *
Prefix					

* Standard straight length is 10 feet nominal = actually 3 m.
1 m = 3.2808 ft. 3 m = 9.842 ft.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

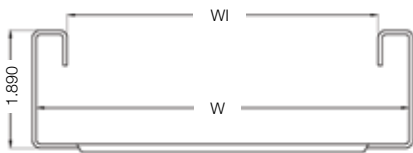
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
ALU12	Load (lb.)/ft.)	69	39	25	–	–	–	–	–
	Deflection (in.)	0.382	0.730	1.000	–	–	–	–	–
	Deflection Factor	0.006	0.019	0.040	–	–	–	–	–
SPU12 SHU12	Load (lb.)/ft.)	69	39	25	–	–	–	–	–
	Deflection (in.)	0.382	0.730	1.000	–	–	–	–	–
	Deflection Factor	0.006	0.019	0.040	–	–	–	–	–
SSU12	Load (lb.)/ft.)	69	39	25	–	–	–	–	–
	Deflection (in.)	0.382	0.730	1.000	–	–	–	–	–
	Deflection Factor	0.006	0.019	0.040	–	–	–	–	–

Straight Lengths

2 in. Straight Sections / AL, SP, SH, SS

Solid and Vented



Dimensions

All U12 Series (Dimensions)	
W (in.)	W1 (in.)
6	5.0
9	8.0
12	11.0
18	17.0
24	23.0
30	29.0
36	35.0

Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray above and beyond published load class.

Series	Dimensions	Classifications	
		NEMA	CSA
ALU12	See Above	-	A
SPU12 SHU12	See Above	-	A
SSU12	See Above	-	A

Straight Lengths

3-5/8 in. Straight Sections / AL, SP, SH, SS
Solid and Vented

Straight Section Number Selection

(ALU13) 12V-3					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
AL • Aluminum SP • Pre-Galvanized SH • Hot Dip Galvanized SS • Stainless Steel 316	U1 • Unit or One-Piece Tray	2 • (2 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	V • Ventilated Trough S • Solid Trough	3 • (3 meters) *
Prefix					

* Standard straight length is 10 feet nominal = actually 3 m.
1 m = 3.2808 ft. 3 m = 9.842 ft.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

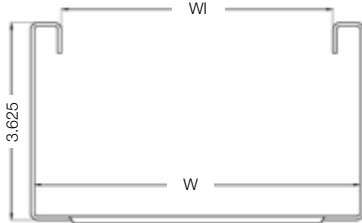
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
ALU13	Load (lb./ft.)	180	101	65	–	–	–	–	–
	Deflection (in.)	0.382	0.430	0.540	–	–	–	–	–
	Deflection Factor	0.002	0.004	0.008	–	–	–	–	–
SPU13 SHU13	Load (lb./ft.)	180	101	65	–	–	–	–	–
	Deflection (in.)	0.125	0.250	0.320	–	–	–	–	–
	Deflection Factor	0.001	0.002	0.005	–	–	–	–	–
SSU13	Load (lb./ft.)	180	101	65	–	–	–	–	–
	Deflection (in.)	0.125	0.250	0.320	–	–	–	–	–
	Deflection Factor	0.001	0.002	0.005	–	–	–	–	–

Straight Lengths

3-5/8 in. Straight Sections / AL, SP, SH, SS

Solid and Vented



Dimensions

All U13 Series (Dimensions)	
W (in.)	W1 (in.)
6	5.0
9	8.0
12	11.0
18	17.0
24	23.0
30	29.0
36	35.0



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray above and beyond published load class.

Series	Dimensions	Classifications	
		NEMA	CSA
ALU13	See Above	8C	C
SPU13 SHU13	See Above	8C	C
SSU13	See Above	8C	C

Straight Lengths

6 in. Straight Sections / AL, SP, SH, SS
Solid and Vented

Straight Section Number Selection

(ALU16) 12V-3					
Material	Series	Siderail Height (in.)	Width	Bottom Type	Length
AL • Aluminum SP • Pre-Galvanized SH • Hot Dip Galvanized SS • Stainless Steel 316	U1 • Unit or One-Piece Tray	6 • (6 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	V • Ventilated Trough S • Solid Trough	3 • (3 meters) *
Prefix					

* Standard straight length is 10 feet nominal = actually 3 m.
1 m = 3.2808 ft. 3 m = 9.842 ft.

Technical Specifications

All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

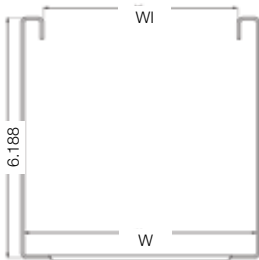
For Fittings consult pages A50 to A89.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
ALU16	Load (lb./ft.)	180	101	65	–	–	–	–	–
	Deflection (in.)	0.082	0.128	0.160	–	–	–	–	–
	Deflection Factor	0.000	0.001	0.008	–	–	–	–	–
SPU16 SHU16	Load (lb./ft.)	180	101	65	–	–	–	–	–
	Deflection (in.)	0.125	0.250	0.320	–	–	–	–	–
	Deflection Factor	0.001	0.002	0.005	–	–	–	–	–
SSU16	Load (lb./ft.)	180	101	65	–	–	–	–	–
	Deflection (in.)	0.125	0.250	0.320	–	–	–	–	–
	Deflection Factor	0.001	0.002	0.005	–	–	–	–	–

Straight Lengths

6 in. Straight Sections / AL, SP, SH, SS

Solid and Vented



Dimensions

All U16 Series (Dimensions)	
W (in.)	Wi (in.)
6	5.0
9	8.0
12	11.0
18	17.0
24	23.0
30	29.0
36	35.0



Technical Specifications

LOAD RATINGS: 1.5 Safety factor. All tray sections will support an additional 200 lb. concentrated load on any portion of tray above and beyond published load class.

Series	Dimensions	Classifications	
		NEMA	CSA
ALU16	See Above	8C	C
SPU16 SHU16	See Above	8C	C
SSU16	See Above	8C	C

Fittings

Fittings Number Selection

Fitting Number Selection

SHUF306VHB9012

Fitting Material	Siderail Depth	Width	Bottom Type	Fitting Type	Angle**	Nominal Radius †
ALUF • Aluminum SPUF • Pre-Galvanized Fittings SHUF • Hot Dip Galvanized Fittings SSUF • Stainless Steel 316	2 • (2 in.) 3 • (3-5/8 in.) 6 • (6 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	V • Ventilated S • Solid Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VO • Vertical Outside Bend HYR • Horizontal Wye Right HYL • Horizontal Wye Left RT • Horizontal Reducing Tee ET • Horizontal Expanding Tee EX • Horizontal Expand Cross HLR • Horizontal Left Reducer HSR • Horizontal Straight Reducer HRR • Horizontal Right Reducer	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.)
Prefix						

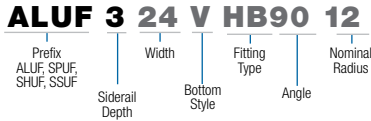
* Angle is required for HB, VI, VO only.

† Radius is not required for the following Fitting Types: HYR, HYL, HLR, HRR, HSR

Fittings

Horizontal Bends 90° / 60°

Part Numbering System



Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36
 Angle: 90°, 60°
 Nominal Radius: 12, 24, 36
 Bottom Styles: V- Ventilated, S- Solid
 Siderail Depth: 2 in., 3 in., 6 in

90° Horizontal BEND



60° Horizontal BEND



Nominal Radius R	Width	Cat. No.	Dimensions		
			X	Y	Z
12	6	Prefix(t)-06-(*)-HB90-12	15	15	15
	12	Prefix(t)-12-(*)-HB90-12	18	18	18
	18	Prefix(t)-18-(*)-HB90-12	21	21	21
	24	Prefix(t)-24-(*)-HB90-12	24	24	24
	30	Prefix(t)-30-(*)-HB90-12	27	27	27
	36	Prefix(t)-36-(*)-HB90-12	30	30	30
24	6	Prefix(t)-06-(*)-HB90-24	27	27	17
	12	Prefix(t)-12-(*)-HB90-24	30	30	30
	18	Prefix(t)-18-(*)-HB90-24	33	33	33
	24	Prefix(t)-24-(*)-HB90-24	36	36	36
	30	Prefix(t)-30-(*)-HB90-24	39	39	39
	36	Prefix(t)-36-(*)-HB90-24	42	42	42
36	6	Prefix(t)-06-(*)-HB90-36	39	39	39
	12	Prefix(t)-12-(*)-HB90-36	42	42	42
	18	Prefix(t)-18-(*)-HB90-36	45	45	45
	24	Prefix(t)-24-(*)-HB90-36	48	48	48
	30	Prefix(t)-30-(*)-HB90-36	51	51	51
	36	Prefix(t)-36-(*)-HB90-36	54	54	54

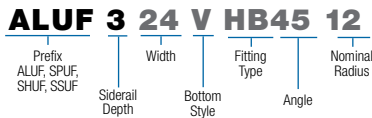
Nominal Radius R	Width	Cat. No.	Dimensions		
			X	Y	Z
12	6	Prefix(t)-06-(*)-HB60-12	14-7/8	8-5/8	9-15/16
	12	Prefix(t)-12-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	18	Prefix(t)-18-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	24	Prefix(t)-24-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	30	Prefix(t)-30-(*)-HB60-12	25-5/16	14-5/8	16-7/8
	36	Prefix(t)-36-(*)-HB60-12	27-7/8	16-1/8	18-9/16
24	6	Prefix(t)-06-(*)-HB60-24	25-5/16	14-5/8	16-7/8
	12	Prefix(t)-12-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	18	Prefix(t)-18-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	24	Prefix(t)-24-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	30	Prefix(t)-30-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	36	Prefix(t)-36-(*)-HB60-24	38-1/4	22-1/8	25-1/2
36	6	Prefix(t)-06-(*)-HB60-36	35-11/16	20-5/8	23-13/16
	12	Prefix(t)-12-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	18	Prefix(t)-18-(*)-HB60-36	40-7/8	23-5/8	27-2/8
	24	Prefix(t)-24-(*)-HB60-36	43-1/2	25-1/8	29
	30	Prefix(t)-30-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	36	Prefix(t)-36-(*)-HB60-36	48-11/16	28-1/8	32-7/16

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Bends 45° / 30°

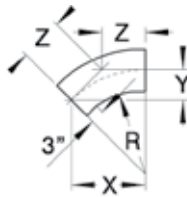
Part Numbering System



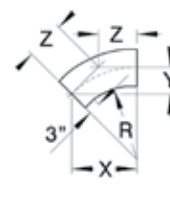
Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Angle: 45°, 30°
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Siderail Depth: 2 in., 3 in., 6 in.

45° Horizontal BEND



30° Horizontal BEND



Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	Prefix(†)-06-(*)-(+)HB45-12	13-5/8	5-5/8	8
	12	Prefix(†)-12-(*)-(+)HB45-12	15-3/4	6-1/2	9-3/16
	18	Prefix(†)-18-(*)-(+)HB45-12	17-7/8	7-3/8	10-7/16
	24	Prefix(†)-24-(*)-(+)HB45-12	20	8-1/4	11-11/16
	30	Prefix(†)-30-(*)-(+)HB45-12	22-1/16	9-1/8	12-15/16
	36	Prefix(†)-36-(*)-(+)HB45-12	24-3/16	10	14-3/16
24	6	Prefix(†)-06-(*)-(+)HB45-24	22-1/16	9-1/8	12-15/16
	12	Prefix(†)-12-(*)-(+)HB45-24	24-3/16	10	14-3/16
	18	Prefix(†)-18-(*)-(+)HB45-24	26-5/16	10-15/16	15-7/16
	24	Prefix(†)-24-(*)-(+)HB45-24	28-7/16	11-13/16	16-11/16
	30	Prefix(†)-30-(*)-(+)HB45-24	30-9/16	12-11/16	17-15/16
	36	Prefix(†)-36-(*)-(+)HB45-24	32-11/16	13-9/16	19-1/8
36	6	Prefix(†)-06-(*)-(+)HB45-36	30-9/16	12-11/16	17-15/16
	12	Prefix(†)-12-(*)-(+)HB45-36	32-11/16	13-9/16	19-1/8
	18	Prefix(†)-18-(*)-(+)HB45-36	34-13/16	14-7/16	20-3/8
	24	Prefix(†)-24-(*)-(+)HB45-36	36-15/16	15-5/16	21-5/8
	30	Prefix(†)-30-(*)-(+)HB45-36	39-1/16	16-3/16	22-7/8
	36	Prefix(†)-36-(*)-(+)HB45-36	41-3/16	17-1/16	24-1/8

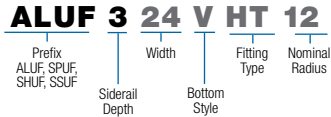
Nominal Radius		Cat. No.	Dimensions		
R	Width		X	Y	Z
12	6	Prefix(†)-06-(*)-(+)HB30-12	11-5/8	3-18	6-3/16
	12	Prefix(†)-12-(*)-(+)HB30-12	13-1/2	3-1/2	7
	18	Prefix(†)-18-(*)-(+)HB30-12	14-5/8	3-15/16	7-13/16
	24	Prefix(†)-24-(*)-(+)HB30-12	16-1/8	4-5/16	8-5/8
	30	Prefix(†)-30-(*)-(+)HB30-12	17-5/8	4-11/16	9-7/16
	36	Prefix(†)-36-(*)-(+)HB30-12	19-1/8	5-1/8	10-1/4
24	6	Prefix(†)-06-(*)-(+)HB30-24	17-5/8	4-11/16	9-7/16
	12	Prefix(†)-12-(*)-(+)HB30-24	19-1/8	5-2/16	10-4/16
	18	Prefix(†)-18-(*)-(+)HB30-24	20-5/8	5-8/16	11-1/16
	24	Prefix(†)-24-(*)-(+)HB30-24	22-1/8	5-15/16	11-13/16
	30	Prefix(†)-30-(*)-(+)HB30-24	23-5/8	6-5/16	12-10/16
	36	Prefix(†)-36-(*)-(+)HB30-24	25-1/8	6-12/16	13-7/16
36	6	Prefix(†)-06-(*)-(+)HB30-36	23-5/8	6-5/16	12-5/8
	12	Prefix(†)-12-(*)-(+)HB30-36	25-1/8	6-3/4	13-7/16
	18	Prefix(†)-18-(*)-(+)HB30-36	26-5/8	7-1/4	14-1/4
	24	Prefix(†)-24-(*)-(+)HB30-36	28-1/8	7-1/2	15-1/16
	30	Prefix(†)-30-(*)-(+)HB30-36	29-5/8	7-15/16	15-7/8
	36	Prefix(†)-36-(*)-(+)HB30-36	31-1/8	8-5/16	16-11/16

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Tees

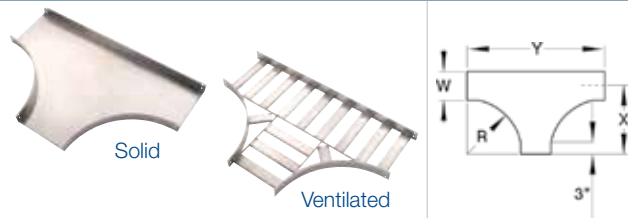
Part Numbering System



Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Siderail Depth: 2 in., 3 in., 6 in.

Horizontal TEE



Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	Prefix(t)-06-(*)-HT12	15	30
	12	Prefix(t)-12-(*)-HT12	18	36
	18	Prefix(t)-18-(*)-HT12	21	42
	24	Prefix(t)-24-(*)-HT12	24	48
	30	Prefix(t)-30-(*)-HT12	27	54
	36	Prefix(t)-36-(*)-HT12	30	60
24	6	Prefix(t)-06-(*)-HT24	27	54
	12	Prefix(t)-12-(*)-HT24	30	60
	18	Prefix(t)-18-(*)-HT24	33	66
	24	Prefix(t)-24-(*)-HT24	36	72
	30	Prefix(t)-30-(*)-HT24	39	78
	36	Prefix(t)-36-(*)-HT24	42	84
36	6	Prefix(t)-06-(*)-HT36	39	78
	12	Prefix(t)-12-(*)-HT36	42	84
	18	Prefix(t)-18-(*)-HT36	45	90
	24	Prefix(t)-24-(*)-HT36	48	96
	30	Prefix(t)-30-(*)-HT36	51	102
	36	Prefix(t)-36-(*)-HT36	54	108

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Fittings

Horizontal Crosses

Part Numbering System

ALUF 3 24 V HX 12

Prefix
ALUF, SPUF,
SHUF, SSUF

Siderail
Depth

Width

Bottom
Style

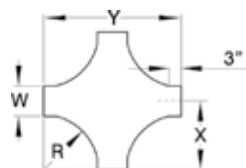
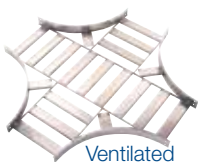
Fitting
Type

Nominal
Radius

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 38
 Bottom Styles: V- Ventilated, S- Solid
 Siderail Depth: 2 in., 3 in., 6 in.

Horizontal CROSS



Nominal Radius		Cat. No.	Dimensions	
R	Width		X	Y
12	6	Prefix(†)-06-(*)-HX12	15	30
	12	Prefix(†)-12-(*)-HX12	18	36
	18	Prefix(†)-18-(*)-HX12	21	42
	24	Prefix(†)-24-(*)-HX12	24	48
	30	Prefix(†)-30-(*)-HX12	27	54
	36	Prefix(†)-36-(*)-HX12	30	60
24	6	Prefix(†)-06-(*)-HX24	27	54
	12	Prefix(†)-12-(*)-HX24	30	60
	18	Prefix(†)-18-(*)-HX24	33	66
	24	Prefix(†)-24-(*)-HX24	36	72
	30	Prefix(†)-30-(*)-HX24	39	78
	36	Prefix(†)-36-(*)-HX24	42	84
36	6	Prefix(†)-06-(*)-HX36	39	78
	12	Prefix(†)-12-(*)-HX36	42	84
	18	Prefix(†)-18-(*)-HX36	45	90
	24	Prefix(†)-24-(*)-HX36	48	96
	30	Prefix(†)-30-(*)-HX36	51	102
	36	Prefix(†)-36-(*)-HX36	54	108

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Fittings

Horizontal Reducing Tee

Part Numbering System

ALUF 3 24 12 V RT 12

Prefix
ALUF, SPUF,
SHUF, SSUF

Width 1

Width 2

Fitting
Type

Nominal
Radius

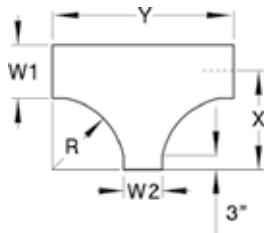
Siderail
Depth

Bottom
Style

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Tray Widths W1: 36, 30, 24, 18, 12
 Tray Widths W2: 30, 24, 18, 12, 6
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Siderail Depth: 2 in., 3 in., 6 in.

Horizontal REDUCING TEE



Widths		Cat. No.	(+) 12 in. Nominal Radius		(+) 24 in. Nominal Radius		(+) 36 in. Nominal Radius	
W1	W2		X	Y	X	Y	X	Y
36	30	Prefix(t)-3630-(*)-RT(+)	30	54	42	78	54	102
	24	Prefix(t)-3624-(*)-RT(+)	30	48	42	72	54	96
	18	Prefix(t)-3618-(*)-RT(+)	30	42	42	66	54	90
	12	Prefix(t)-3612-(*)-RT(+)	30	36	42	60	54	84
	6	Prefix(t)-3606-(*)-RT(+)	30	30	42	54	54	78
30	24	Prefix(t)-3024-(*)-RT(+)	27	48	39	72	51	96
	18	Prefix(t)-3018-(*)-RT(+)	27	42	39	66	51	90
	12	Prefix(t)-3012-(*)-RT(+)	27	36	39	60	51	84
	6	Prefix(t)-3006-(*)-RT(+)	27	30	39	54	51	78
24	18	Prefix(t)-2418-(*)-RT(+)	24	42	36	66	48	90
	12	Prefix(t)-2412-(*)-RT(+)	24	36	36	60	48	84
	6	Prefix(t)-2406-(*)-RT(+)	24	30	36	54	48	78
18	12	Prefix(t)-1812-(*)-RT(+)	21	36	33	60	45	84
	6	Prefix(t)-1806-(*)-RT(+)	21	30	33	54	45	78
12	6	Prefix(t)-1206-(*)-RT(+)	18	30	30	54	42	78

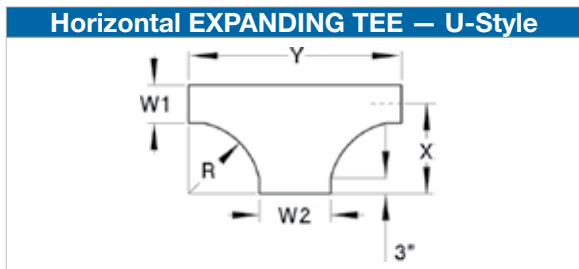
(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Tee

Part Numbering System				Selection Guide	
ALUF 3 2430 V ET 12					
Prefix ALUF, SPUF, SHUF, SSUF	Width 1	Width 2	Fitting Type	Nominal Radius	
	Siderail Depth	Bottom Style			

Prefix: SALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Tray Widths W1: 30, 24, 18, 12, 6
 Tray Widths W2: 36, 30, 24, 18, 12
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Siderail Depth: 2 in., 3 in., 6 in.



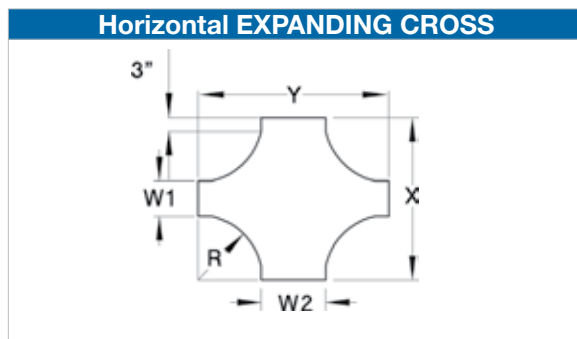
Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y
30	36	Prefix(†)-3036-(*)-ET(+)	27	60	39	84	51	108
	24	Prefix(†)-2430-(*)-ET(+)	24	54	36	78	48	102
24	36	Prefix(†)-2436-(*)-ET(+)	24	60	36	84	48	108
	18	Prefix(†)-1824-(*)-ET(+)	21	48	33	72	45	96
18	30	Prefix(†)-1830-(*)-ET(+)	21	54	33	78	45	102
	36	Prefix(†)-1836-(*)-ET(+)	21	60	33	84	45	108
12	18	Prefix(†)-1218-(*)-ET(+)	18	42	30	66	42	90
	24	Prefix(†)-1224-(*)-ET(+)	18	48	30	72	42	96
	30	Prefix(†)-1230-(*)-ET(+)	18	54	30	78	42	102
	36	Prefix(†)-1236-(*)-ET(+)	18	60	30	84	42	108
06	12	Prefix(†)-0612-(*)-ET(+)	15	36	27	60	39	84
	18	Prefix(†)-0618-(*)-ET(+)	15	42	27	66	39	90
	24	Prefix(†)-0624-(*)-ET(+)	15	48	27	72	39	96
	30	Prefix(†)-0630-(*)-ET(+)	15	54	27	78	39	102
	36	Prefix(†)-0636-(*)-ET(+)	15	60	27	84	39	108

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Expanding Cross

Part Numbering System					Selection Guide	
ALUF 6 2430 V EX 12						
Prefix ALUF, SPUF, SHUF, SSUF	Width 1	Width 2	Fitting Type	Nominal Radius	Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)	
	Siderail Depth	Bottom Style			Tray Widths W1: 30, 24, 18, 12, 6	
					Tray Widths W2: 36, 30, 24, 18, 12	
					Nominal Radius: 12, 24, 36	
					Bottom Styles: V– Ventilated, S– Solid	
					Siderail Depth: 2 in., 3 in., 6 in.	



Widths		Cat. No.	(+ 12 in. Nominal Radius)		(+ 24 in. Nominal Radius)		(+ 36 in. Nominal Radius)	
W1	W2		X	Y	X	Y	X	Y
30	36	Prefix(+)-3036-(*)-EX(+)	54	60	78	84	102	108
	30	Prefix(+)-2430-(*)-EX(+)	48	54	72	78	96	102
24	36	Prefix(+)-2436-(*)-EX(+)	48	60	72	84	96	108
	24	Prefix(+)-1824-(*)-EX(+)	42	48	66	72	90	96
18	30	Prefix(+)-1830-(*)-EX(+)	42	54	66	78	90	102
	36	Prefix(+)-1836-(*)-EX(+)	42	60	66	84	90	108
	18	Prefix(+)-1218-(*)-EX(+)	36	42	60	66	84	90
12	24	Prefix(+)-1224-(*)-EX(+)	36	48	60	72	84	96
	30	Prefix(+)-1230-(*)-EX(+)	36	54	60	78	84	102
	36	Prefix(+)-1236-(*)-EX(+)	36	60	60	84	84	108
	12	Prefix(+)-0612-(*)-EX(+)	30	36	54	60	78	84
06	18	Prefix(+)-0618-(*)-EX(+)	30	42	54	66	78	90
	24	Prefix(+)-0624-(*)-EX(+)	30	48	54	72	78	96
	30	Prefix(+)-0630-(*)-EX(+)	30	54	54	78	78	102
	36	Prefix(+)-0636-(*)-EX(+)	30	60	54	84	78	108
	06	Prefix(+)-0606-(*)-EX(+)	30	30	30	30	30	30

(+) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 3 pairs of splice plates with hardware.

Fittings

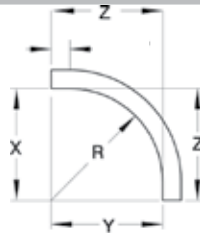
Vertical Bends 90°

Part Numbering System			
ALUF	3	24	V
Prefix ALUF, SPUF, SHUF, SSUF	Siderail Depth	Width	Bottom Style
			VI90
			Angle
			12
			Nominal Radius

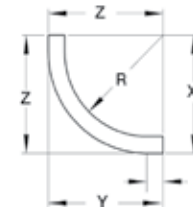
Selection Guide
Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
Inside Tray Widths: 6, 12, 18, 24, 30, 36
Angle: 90°
Nominal Radius: 12, 24, 36
Bottom Styles: V- Ventilated, S- Solid
Siderail Depth: 2 in., 3 in., 6 in.

90° Vertical BEND

Outside Bend Ventilated



Inside Bend Ventilated



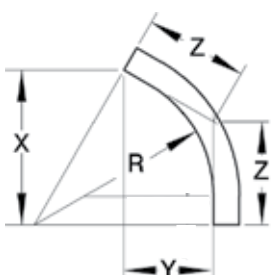
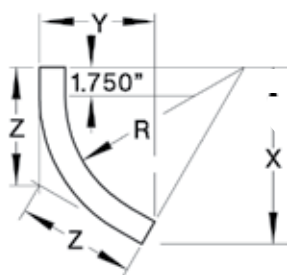
Nominal Radius	Width	Cat. No.	(+ VO Siderail)			(+ VI Siderail Height)								
			Height 2 in., 3 in., 6 in.			2 in.			3 in.			6 in.		
R			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(†)-06-(*)-(+)90-12												
	12	Prefix(†)-12-(*)-(+)90-12												
	18	Prefix(†)-18-(*)-(+)90-12	12	12	12	13-7/8	13-7/8	13-7/8	15-5/8	15-5/8	15-5/8	18-3/16	18-3/16	18-3/16
	24	Prefix(†)-24-(*)-(+)90-12												
	36	Prefix(†)-36-(*)-(+)90-12												
24	6	Prefix(†)-06-(*)-(+)90-24												
	12	Prefix(†)-12-(*)-(+)90-24												
	18	Prefix(†)-18-(*)-(+)90-24	24	24	24	25-7/8	25-7/8	25-7/8	27-5/8	27-5/8	27-5/8	30-3/16	30-3/16	30-3/16
	24	Prefix(†)-24-(*)-(+)90-24												
	36	Prefix(†)-36-(*)-(+)90-24												
36	6	Prefix(†)-06-(*)-(+)90-36												
	12	Prefix(†)-12-(*)-(+)90-36												
	18	Prefix(†)-18-(*)-(+)90-36	36	36	36	37-7/8	37-7/8	37-7/8	39-5/8	39-5/8	39-5/8	42-3/16	42-3/16	42-3/16
	24	Prefix(†)-24-(*)-(+)90-36												
	36	Prefix(†)-36-(*)-(+)90-36												

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Fittings

Vertical Bends 60°

Part Numbering System				Selection Guide			
ALUF	3	12	V	VI	60	12	
Prefix ALUF, SPUF, SHUF, SSUF	Siderail Depth	Width	Fitting Type	Bottom Style	Angle	Nominal Radius	Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel) Inside Tray Widths: 6, 12, 18, 24, 30, 36 Angle: 60° Nominal Radius: 12, 24, 36 Bottom Styles: V- Ventilated, S- Solid Siderail Depth: 2 in., 3 in., 6 in.

60° Vertical BEND														
Outside Bend							Inside Bend							
														
R	Width	Cat. No.	(+ V0 Siderail)			(+ VI Siderail Height)								
			Height 2 in., 3 in., 6 in.			2 in.			3 in.			6 in.		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(t)-06-(*)-(+)60-12												
	12	Prefix(t)-12-(*)-(+)60-12												
	18	Prefix(t)-18-(*)-(+)60-12												
	24	Prefix(t)-24-(*)-(+)60-12	10-3/8	6	6-15/16	12	7-7/8	8	13-1/2	9-5/8	9	15-3/4	12-3/16	10-1/2
	30	Prefix(t)-30-(*)-(+)60-12												
	36	Prefix(t)-36-(*)-(+)60-12												
24	6	Prefix(t)-06-(*)-(+)60-24												
	12	Prefix(t)-12-(*)-(+)60-24												
	18	Prefix(t)-18-(*)-(+)60-24												
	24	Prefix(t)-24-(*)-(+)60-24	20-13/16	12	13-7/8	22-7/16	13-7/8	14-15/16	23-15/16	15-5/8	15-15/16	26-1/8	18-3/16	17-7/16
	30	Prefix(t)-30-(*)-(+)60-24												
	36	Prefix(t)-36-(*)-(+)60-24												
36	6	Prefix(t)-06-(*)-(+)60-36												
	12	Prefix(t)-12-(*)-(+)60-36												
	18	Prefix(t)-18-(*)-(+)60-36												
	24	Prefix(t)-24-(*)-(+)60-36	31-3/16	18	20-13/16	32-13/16	19-7/8	21-7/8	34-5/16	21-5/8	22-7/8	36-1/2	24-3/16	24-3/8
	30	Prefix(t)-30-(*)-(+)60-36												
	36	Prefix(t)-36-(*)-(+)60-36												

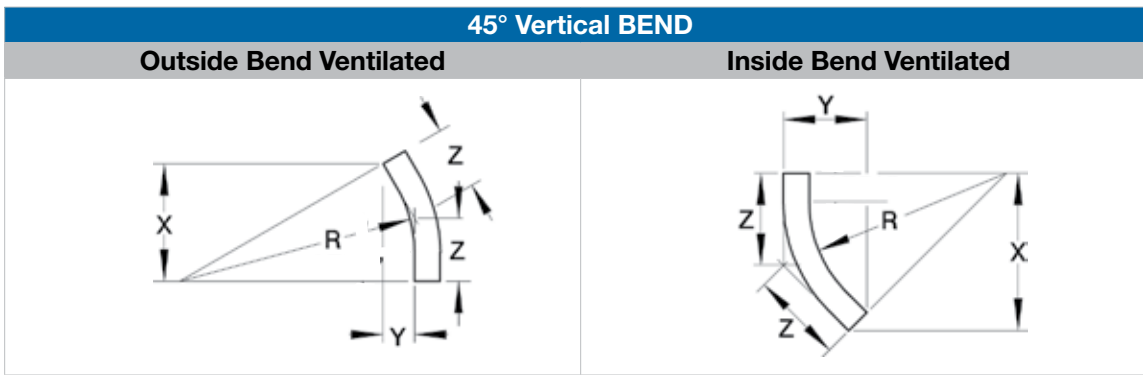
(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

Fittings

Vertical Bends 45°

Part Numbering System				
ALUF	3	12	V	VI45 12
Prefix ALUF, SPUF, SHUF, SSUF	Width	Siderail Depth	Bottom Style	Nominal Radius
			Angle	

Selection Guide
Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
Inside Tray Widths: 6, 12, 18, 24, 30, 36
Angle: 45°
Nominal Radius: 12, 24, 36
Bottom Styles: V- Ventilated, S- Solid
Siderail Depth: 2 in., 3 in., 6 in.



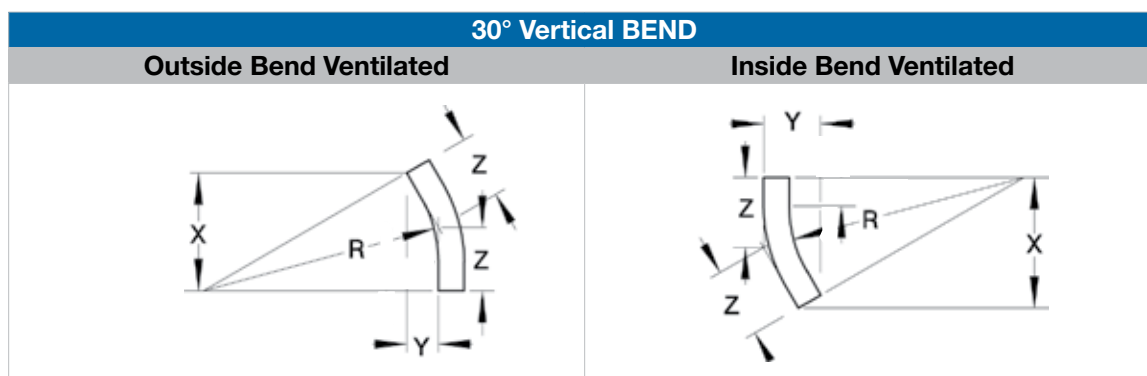
Nominal Radius	Width	Cat. No.	(+ V0 Siderail)			(+ VI Siderail Height)								
			Height 2 in., 3 in., 6 in.			2 in.			3 in.			6 in.		
R			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(t)-06-(*)-(+)45-12	8-1/2	3-1/2	5	9-13/16	5-3/8	5-3/4	11-1/16	7-1/8	6-11/16	12-7/8	9-11/16	7-9/16
	12	Prefix(t)-12-(*)-(+)45-12												
	18	Prefix(t)-18-(*)-(+)45-12												
	24	Prefix(t)-24-(*)-(+)45-12												
	30	Prefix(t)-30-(*)-(+)45-12												
	36	Prefix(t)-36-(*)-(+)45-12												
24	6	Prefix(t)-06-(*)-(+)45-24	17	7	9-15/16	18-5/16	8-7/8	10-11/16	19-1/2	10-5/8	11-7/16	21-3/8	13-3/16	12-1/2
	12	Prefix(t)-12-(*)-(+)45-24												
	18	Prefix(t)-18-(*)-(+)45-24												
	24	Prefix(t)-24-(*)-(+)45-24												
	30	Prefix(t)-30-(*)-(+)45-24												
	36	Prefix(t)-36-(*)-(+)45-24												
36	6	Prefix(t)-06-(*)-(+)45-36	25-7/16	10-9/16	14-15/16	26-13/16	12-7/16	15-11/16	28	14-3/16	16-7/16	29-13/16	16-3/4	17-1/2
	12	Prefix(t)-12-(*)-(+)45-36												
	18	Prefix(t)-18-(*)-(+)45-36												
	24	Prefix(t)-24-(*)-(+)45-36												
	30	Prefix(t)-30-(*)-(+)45-36												
	36	Prefix(t)-36-(*)-(+)45-36												

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Fittings

Vertical Bends 30°

Part Numbering System				Selection Guide	
ALUF 3 06 V VI30 12					
Prefix ALUF, SPUF, SHUF, SSUF	Width Siderail Depth	Fitting Type Bottom Style	Angle	Nominal Radius	
<p>Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel) Inside Tray Widths: 6, 12, 18, 24, 30, 36 Angle: 30° Nominal Radius: 12, 24, 36 Bottom Styles: V- Ventilated, S- Solid Siderail Depth: 2 in., 3 in., 6 in.</p>					



Nominal Radius	Width	Cat. No.	(+ V0 Siderail			(+ VI Siderail Height								
			Height 2 in., 3 in., 6 in.			2 in.			3 in.			6 in.		
R			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(t)-06-(*)-(+)30-12	6	1-5/8	3-3/16	6-15/16	3-1/2	3-11/16	7-13/16	5-1/4	4-3/16	9-1/8	7-13/16	4-7/8
	12	Prefix(t)-12-(*)-(+)30-12												
	18	Prefix(t)-18-(*)-(+)30-12												
	24	Prefix(t)-24-(*)-(+)30-12												
	30	Prefix(t)-30-(*)-(+)30-12												
	36	Prefix(t)-36-(*)-(+)30-12												
24	6	Prefix(t)-06-(*)-(+)30-24	12	3-3/16	6-7/16	12-15/16	5-1/16	6-15/16	13-13/16	6-13/16	7-3/8	15-1/8	9-3/8	8-1/16
	12	Prefix(t)-12-(*)-(+)30-24												
	18	Prefix(t)-18-(*)-(+)30-24												
	24	Prefix(t)-24-(*)-(+)30-24												
	30	Prefix(t)-30-(*)-(+)30-24												
	36	Prefix(t)-36-(*)-(+)30-24												
36	6	Prefix(t)-06-(*)-(+)30-36	18	4-13/16	9-5/8	18-15/16	6-11/16	10-1/8	19-13/16	8-7/16	10-5/8	21-1/8	11	11-5/16
	12	Prefix(t)-12-(*)-(+)30-36												
	18	Prefix(t)-18-(*)-(+)30-36												
	24	Prefix(t)-24-(*)-(+)30-36												
	30	Prefix(t)-30-(*)-(+)30-36												
	36	Prefix(t)-36-(*)-(+)30-36												

(t) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert "V0" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Reducers

Part Numbering System

ALUF 3 3624 V HLR

Prefix: ALUF, SPUF, SHUF, SSUF
 Width 1: 36, 30, 24, 18, 12
 Width 2: 30, 24, 18, 12, 6
 Bottom Style: V – Ventilated, S – Solid
 Siderail Depth: 2 in., 3 in., 6 in.

Selection Guide

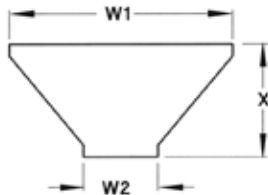
Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Tray Widths W1: 36, 30, 24, 18, 12
 Tray Widths W2: 30, 24, 18, 12, 6
 Bottom Styles: V – Ventilated, S – Solid
 Siderail Depth: 2 in., 3 in., 6 in.

Horizontal Reducers

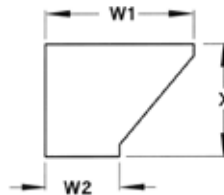
Straight Reducer



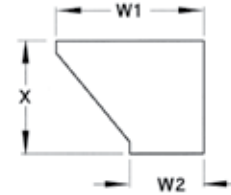
Straight Reducer



Offset Reducer - Right



Offset Reducer - Left



Widths		LH Reducer		Straight Reducer (Concentric)		RH Reducer	
W1	W2	Cat. No.	Dim. X	Cat. No.	Dim. X	Cat. No.	Dim. X
36	30	Prefix(†)-36-30-(*)-HLR	15-7/16	Prefix(†)-36-30-(*)-HSR	13-3/4	Prefix(†)-36-30-(*)-HRR	15-7/16
	24	Prefix(†)-36-24-(*)-HLR	18-15/16	Prefix(†)-36-24-(*)-HSR	15-7/16	Prefix(†)-36-24-(*)-HRR	18-15/16
	18	Prefix(†)-36-18-(*)-HLR	22-3/8	Prefix(†)-36-18-(*)-HSR	17-3/8	Prefix(†)-36-18-(*)-HRR	22-3/8
	12	Prefix(†)-36-12-(*)-HLR	25-7/8	Prefix(†)-36-12-(*)-HSR	18-5/16	Prefix(†)-36-12-(*)-HRR	25-7/8
	06	Prefix(†)-36-06-(*)-HLR	29-5/16	Prefix(†)-36-06-(*)-HSR	20-11/16	Prefix(†)-36-06-(*)-HRR	29-5/16
30	24	Prefix(†)-30-24-(*)-HLR	15-7/16	Prefix(†)-30-24-(*)-HSR	13-3/4	Prefix(†)-30-24-(*)-HRR	15-7/16
	18	Prefix(†)-30-18-(*)-HLR	18-15/16	Prefix(†)-30-18-(*)-HSR	15-7/16	Prefix(†)-30-18-(*)-HRR	18-15/16
	12	Prefix(†)-30-12-(*)-HLR	22-3/8	Prefix(†)-30-12-(*)-HSR	17-3/16	Prefix(†)-30-12-(*)-HRR	22-3/8
	06	Prefix(†)-30-06-(*)-HLR	25-7/8	Prefix(†)-30-06-(*)-HSR	18-15/16	Prefix(†)-30-06-(*)-HRR	25-7/8
24	18	Prefix(†)-24-18-(*)-HLR	15-7/16	Prefix(†)-24-18-(*)-HSR	13-3/4	Prefix(†)-24-18-(*)-HRR	15-7/16
	12	Prefix(†)-24-12-(*)-HLR	18-15/16	Prefix(†)-24-12-(*)-HSR	15-7/16	Prefix(†)-24-12-(*)-HRR	18-15/16
	06	Prefix(†)-24-06-(*)-HLR	22-3/8	Prefix(†)-24-06-(*)-HSR	17-3/16	Prefix(†)-24-06-(*)-HRR	22-3/8
18	12	Prefix(†)-18-12-(*)-HLR	15-7/16	Prefix(†)-18-12-(*)-HSR	13-3/4	Prefix(†)-18-12-(*)-HRR	15-7/16
	06	Prefix(†)-18-06-(*)-HLR	18-15/16	Prefix(†)-18-06-(*)-HSR	15-7/16	Prefix(†)-18-06-(*)-HRR	18-15/16
24	06	Prefix(†)-12-06-(*)-HLR	15-7/16	Prefix(†)-12-06-(*)-HSR	13-3/4	Prefix(†)-12-06-(*)-HRR	15-7/16

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Fittings

Horizontal Wye 45°

Part Numbering System

ALUF-6-24-V-HYL

Prefix
ALUF, SPUF,
SHUF, SSUF

Siderail
Depth

Width

Bottom
Style

Fitting
Type

Selection Guide

Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)

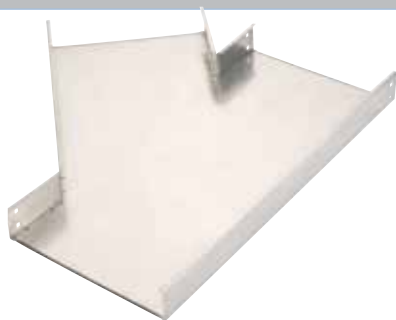
Inside Tray Widths: 6, 12, 18, 24, 30, 36

Bottom Styles: V- Ventilated, S- Solid

Siderail Depth: 2 in., 3 in., 6 in.

45° Horizontal Wye

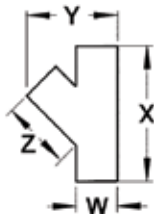
Solid - Left



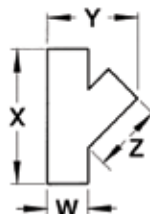
Ventilated - Left



Left Hand Wye



Right Hand Wye



Width	Left Hand Wye Cat. No.	Right Hand Wye Cat. No.	Dimensions		
			X	Y	Z
06	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
12	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26-3/4	25	18-7/16
18	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60-11/16	66	42-7/16

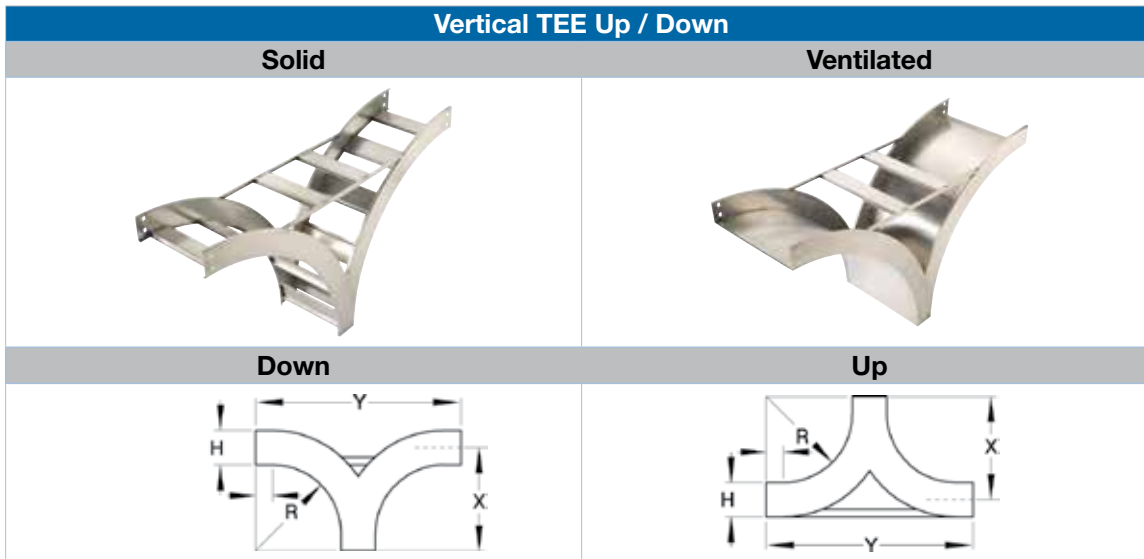
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.

Fittings

Vertical Tee Up / Down

Part Numbering System				
ALUF 6 24 V VTD 12				
Prefix ALUF, SPUF, SHUF, SSUF	Width	Fitting Type	Nominal Radius	
Siderail Depth	Bottom Style			

Selection Guide
Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
Inside Tray Widths: 6, 12, 18, 24, 30, 36
Nominal Radius: 12, 24, 36
Bottom Styles: V- Ventilated, S- Solid
Siderail Depth: 2 in., 3 in., 6 in.



Nominal Radius	Vertical Tee Up	Vertical Tee Down	Siderail Height "H"						
			2 in.		3 in.		6 in.		
R	Width	Cat. No.	Cat. No.	X	Y	X	Y	X	Y
12	6	Prefix(†)-06-(*)-VTU12	Prefix-06-(*)-VTD12	12-15/16	25-7/8	13-13/16	27-5/8	15-1/8	30-3/16
	12	Prefix(†)-12-(*)-VTU12	Prefix-12-(*)-VTD12						
	18	Prefix(†)-18-(*)-VTU12	Prefix-18-(*)-VTD12						
	24	Prefix(†)-24-(*)-VTU12	Prefix-24-(*)-VTD12						
	30	Prefix(†)-30-(*)-VTU12	Prefix-30-(*)-VTD12						
	36	Prefix(†)-36-(*)-VTU12	Prefix-36-(*)-VTD12						
24	6	Prefix(†)-06-(*)-VTU24	Prefix-06-(*)-VTD24	24-15/16	49-7/8	25-13/16	51-5/8	27-1/8	54-3/16
	12	Prefix(†)-12-(*)-VTU24	Prefix-12-(*)-VTD24						
	18	Prefix(†)-18-(*)-VTU24	Prefix-18-(*)-VTD24						
	24	Prefix(†)-24-(*)-VTU24	Prefix-24-(*)-VTD24						
	30	Prefix(†)-30-(*)-VTU24	Prefix-30-(*)-VTD24						
	36	Prefix(†)-36-(*)-VTU24	Prefix-36-(*)-VTD24						
36	6	Prefix(†)-06-(*)-VTU36	Prefix-06-(*)-VTD36	36-15/16	73-7/8	37-13/16	75-5/8	39-1/8	78-3/16
	12	Prefix(†)-12-(*)-VTU36	Prefix-12-(*)-VTD36						
	18	Prefix(†)-18-(*)-VTU36	Prefix-18-(*)-VTD36						
	24	Prefix(†)-24-(*)-VTU36	Prefix-24-(*)-VTD36						
	30	Prefix(†)-30-(*)-VTU36	Prefix-30-(*)-VTD36						
	36	Prefix(†)-36-(*)-VTU36	Prefix-36-(*)-VTD36						

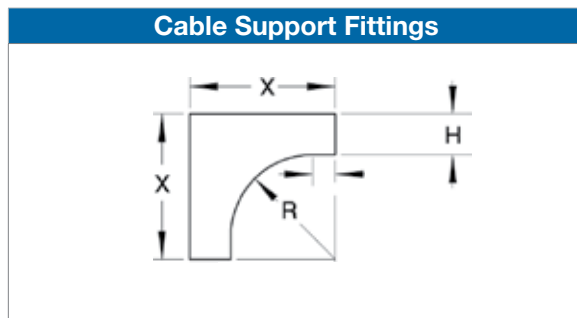
(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 2 pairs of splice plates with hardware.

Fittings

Cable Support Fittings

Part Numbering System				Selection Guide	
SPUF	3	24	V	CS	12
Prefix ALUF, SPUF, SHUF, SSUF	Siderail Depth	Width	Fitting Type	Bottom Style	Nominal Radius

Selection Guide
 Prefix: ALUF (Aluminum), SPUF (Pre-Galv.), SHUF (Hot Dip Galv.), SSUF (Stainless Steel)
 Inside Tray Widths: 6, 12, 18, 24, 30, 36
 Nominal Radius: 12, 24, 36
 Bottom Styles: V– Ventilated, S– Solid
 Siderail Depth: 2 in., 3 in., 6 in.



Nominal Radius			Siderail Height "H"		
			2 in.	3 in.	6 in.
R	Width	Cat. No.	X		
12	6	Prefix(†)-06-(*)-CS12	13-7/8	15-5/8	18-3/16
	12	Prefix(†)-12-(*)-CS12			
	18	Prefix(†)-18-(*)-CS12			
	24	Prefix(†)-24-(*)-CS12			
	30	Prefix(†)-30-(*)-CS12			
	36	Prefix(†)-36-(*)-CS12			
24	6	Prefix(†)-06-(*)-CS24	25-7/8	27-5/8	30-3/16
	12	Prefix(†)-12-(*)-CS24			
	18	Prefix(†)-18-(*)-CS24			
	24	Prefix(†)-24-(*)-CS24			
	30	Prefix(†)-30-(*)-CS24			
	36	Prefix(†)-36-(*)-CS24			
36	6	Prefix(†)-06-(*)-CS36	37-7/8	39-5/8	42-3/16
	12	Prefix(†)-12-(*)-CS36			
	18	Prefix(†)-18-(*)-CS36			
	24	Prefix(†)-24-(*)-CS36			
	30	Prefix(†)-30-(*)-CS36			
	36	Prefix(†)-36-(*)-CS36			

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. Includes 1 pair of splice plates with hardware.

Covers

Straight Cover Number Selection

(ALUW 12)SNC-3

Material	Width	Bottom Type	Length
ALUW • Aluminum SPW • Pre-Galvanized SHW • Hot Dip Galvanized after fabrication SSW • Stainless Steel 316	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover PFC • Peaked Flanged Cover PVC • Peaked Ventilated Cover	3 • (3 meters)
Prefix			

* For SHW covers, maximum lengths are 72 in. and 1500 mm.

Fitting Cover Number Selection

(ALUW 12)SNCHB9024

Material	Width	Cover Type	Fitting Type	Degree*	Radius
ALUW • Aluminum SPW • Pre-Galvanized SHW • Hot Dip Galvanized after fabrication SSW • Stainless Steel 316	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VTU • Vertical Tee Down HYR • Horizontal Wye Right HYL • Horizontal Wye Left	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.)
Prefix					

Note: Cover mounting hardware sold separately.

* Required for HB & VI only

Covers

Fitting Cover Number Selection (cont'd)

(ALUW1812)SNCRT12					
Material	Width 1	Width 2	Cover Type	Fitting Type	Radius*
ALUW • Aluminum SPW • Pre-Galvanized SHW • Hot Dip Galvanized after fabrication SSW • Stainless Steel 316	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand EX • Tee & Reduce Cross HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer	12 • (12 in.) 24 • (24 in.) 36 • (36 in.)
Prefix					

* Radius not required for HSR, HLR, HRR

Fitting Cover Number Selection

(ALUW312)SNCVO9024						
Material	Siderail Height	Width	Cover Type	Fitting Type	Degree*	Radius
ALUW • Aluminum SPW • Pre-Galvanized SHW • Hot Dip Galvanized after fabrication SSW • Stainless Steel 316	2 • (2 in.) 3 • (3-5/8 in.) 6 • (6 in.)	06 • (6 in.) 12 • (12 in.) 18 • (18 in.) 24 • (24 in.) 30 • (30 in.) 36 • (36 in.)	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down CS • Cable Support	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12 in.) 24 • (24 in.) 36 • (36 in.)
Prefix						

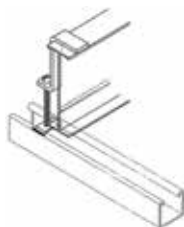
Note: Cover mounting hardware sold separately.

* Required for VO only

Covers

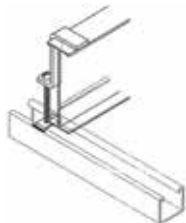
Accessories for Covers

Combination Hold Down Cover Clamp



Cat. No.	Material Prefix	Siderail Height
(Prefix)-2-CCC	SPUW SSUW SHUW	2
(Prefix)-3-CCC		3
(Prefix)-6-CCC		6

Hold Down Clamp



Cat. No.	Material Prefix	Siderail Height
(Prefix)-2-HDC	SPUW SSUW SHUW	2
(Prefix)-3-HDC		3
(Prefix)-6-HDC		6

Designed to secure cable tray to support system.

Covers

Accessories for Covers

Cover Clamp



Rigid indoor cover clamp for flat and flanged covers.

Cat. No.	Material Prefix	Siderail Height
(Prefix)-2-SCC	SPUW SSUW	2
(Prefix)-3-SCC	SPW SSW	3
(Prefix)-6-SCC		6

Heavy-Duty Cover Clamp



Cat. No.	Material Prefix	Siderail Height	Width of Tray (in.)
(Prefix)-2-**-HCC	ALUW SHUW SPUW SSUW	2	6 12 18
(Prefix)-3-**-HCC	ALUW SHW SPW SSW	3	24 30 36
(Prefix)-6-**-HCC		6	

** Insert Width of Tray

Splice Plates

Snap-In Splice Plate



Packaged in pairs with zinc plated hardware.

Provided as standard with each straight and/or fitting.

Cat. No.	Material Prefix	Siderail Height
(Prefix)-2-SSP	ALUW	2
(Prefix)-3-SSP	SHUW SPUW	3
(Prefix)-6-SSP	SSUW	6

Snap-In Expansion Splice Plate

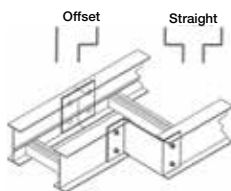


Allows for a 1 in. expansion or contraction of tray system.

Packaged in pairs with hardware.

Cat. No.	Material Prefix	Siderail Height
(Prefix)-2-ESP	ALUW SHUW SPUW SSUW	2
(Prefix)-3-ESP	ALUW SHW	3
(Prefix)-6-ESP	SPW SSW	6

Horizontal Adjustable Plate



Cat. No.	Material Prefix	Siderail Height
(Prefix)-2-RSP	ALUW SHUW SPUW SSUW	2
(Prefix)-3-RSP	ALUW SHW	3
(Prefix)-6-RSP	SPW SSW	6

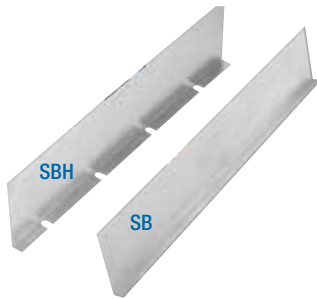
Note: For Offset Reduction: Insert width to be reduced.
For Straight Reduction: Insert 1/2 width to be reduced (2 required)

Example: ALUW-603-RSP = 3 in. offset reducer

Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction. One per package with hardware.

Barrier Strips

Horizontal Barrier Strips



Cat. No.	Material Prefix	Height (in.)	Length (in.)
(Prefix)-2-SB-3	ALUW SPUW SHUW* SSUW	2	3 m
(Prefix)-3-SB-3		3	
(Prefix)-6-SB-3		6	
(Prefix)-2-SBH-72		2	72 in.
(Prefix)-3-SBH-72		3	
(Prefix)-6-SBH-72		6	

NOTE: 72 in. barriers provided with 3 SPW10SCR, 3 m barriers provided with 6 SPW10SCR
*Available in 1500 mm only.

Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or Barrier Strip Clamps (sold separately).

72 in. barriers are flexible for use with horizontal fittings.

Vertical Barrier Strips



Inside Bend Cat. No.	Outside Bend Cat. No.	Material Prefix	Height (in.)	Angle	Radius
(Prefix)-2-VIB-(*)-(**)	Prefix-2-VOB-(*)-(**)	ALUW SPUW SHUW SSUW	2	90	12
(Prefix)-3-VIB-(*)-(**)	Prefix-3-VOB-(*)-(**)		3	60	24
(Prefix)-6-VIB-(*)-(**)	Prefix-6-VOB-(*)-(**)		6	30	36

(*) Insert Angle (**) Insert Radius. *Available in 1500 mm only.

Preformed to fit all standard steel vertical bends.
Provided with hardware

Barrier Strip Splice



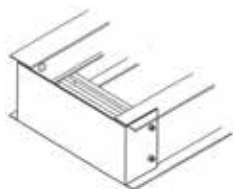
Cat. No.	Material
SPW-BSC	Zinc Plated Steel
SSW-BSC	Stainless Steel 316

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

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Accessories

Closure End Plate



Cat. No.	Material Prefix	Siderail Height (in.)	Width of Tray (in.)
(Prefix)-2-**-CEP	ALUW SPUW SHUW SSUW	2	6 12 18
(Prefix)-3-**-CEP	ALUW SPW SHW SSW	3	24 30 36
(Prefix)-6-**-CEP		6	

** Insert Width of Tray

Provides closure for any tray end. Hardware included.

Drop-Out



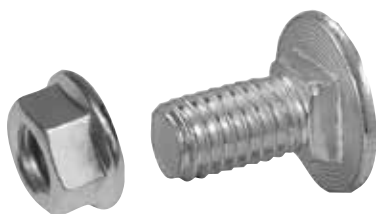
Designed to provide a smooth radiused surface at any position on the tray or trough bottom.

Drop-Outs are easily attached using hardware provided. Standard Radius = 4 in.

Cat. No.	Material Prefix	Width (in.)
(Prefix)-**-DOS	ALUW SPW SSW SHW	6 12 18 24 30 36

** Insert Width of Tray

Steel Tray Hardware



Square shoulder self-positioning carriage bolt.

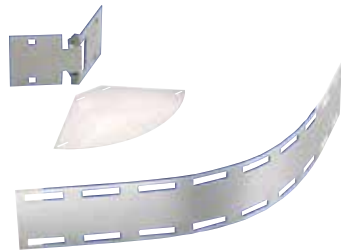
Cat. No.	Material	Description
SPW-1/4-CB	Zinc Plated Steel	1/4 in. Carriage Bolt
SPW-3/8-CB		SPW3/8 in. Carriage Bolt
SPW-1/4-HN		SSW1/4 in. Hex. Nut
SPW-3/8-HN		3/8 in. Hex. Nut
SSW-3/8-CB	316 Stainless	3/8 in. Carriage Bolt
SSW-3/8-HN		3/8 in. Hex. Nut
SSW-3/8-HWK*		316 Stainless Steel

Hardware Kit

* Contains 8 nuts, 8 bolts, 8 lock washers.

Accessories

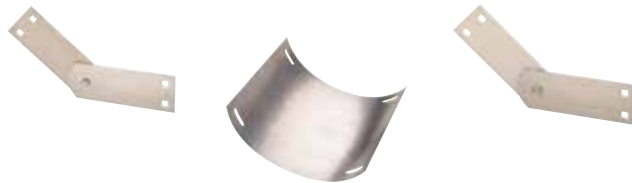
Horizontal Adjustable Plate



Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished as a kit with hardware.

Cat. No.	Material Prefix	Siderail Height (in.)
(Prefix)-(*)06-HAP	ALUW SPUW SSUW SHUW	6
(Prefix)-(*)09-HAP		8
(Prefix)-(*)12-HAP		12
(Prefix)-(*)18-HAP		18
(Prefix)-(*)24-HAP		24
(Prefix)-(*)30-HAP		30
(Prefix)-(*)36-HAP		36

Vertical Adjustable Plate



Cat. No.	Material Prefix	Siderail Height (in.)	Width of Tray (in.)
(Prefix)-2-**-VSP	ALUW SPUW SHUW SSUW	2	6 12
(Prefix)-3-**-VSP		3	18 24 30
(Prefix)-6-**-VSP		6	36

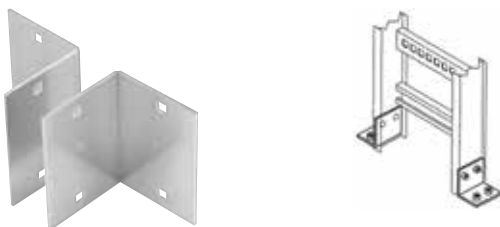
Horizontal Tee Branch



Cat. No.	Material Prefix	Siderail Height (in.)	Width of Tray (in.)
(Prefix)-2-(**)-HTB	ALUW SPUW SHUW SSUW	2	6 12
(Prefix)-3-(**)-HTB		3	18 24 30
(Prefix)-6-(**)-HTB		6	36

(**) Insert width

Box to Tray Plates



Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware.

Cat. No.	Material Prefix	Siderail Height (in.)	Width of Tray (in.)
(Prefix)-2-BSP	ALUW SPUW SHUW SSUW	2	6 12 18
(Prefix)-3-BSP	ALUW SPUW SHUW SSUW	3	24 30 36
(Prefix)-3-BSP		6	

(**) Insert width



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Selection Guide

In order to ensure that your Channel Tray installation will meet your present and future needs, a sequence of decisions must be made. These decisions are relatively simple and can be condensed down to 4 steps.

1. Material Choice

- Aluminum
- Pre-Galvanized
- Hot Dipped
- Stainless Steel
- Coatings
- Other

2. Type of Tray Bottom

- Ventilated
- Solid

3. T&B Channel Tray Width

- 1.5 in.
- 3 in.
- 4 in.
- 6 in.

4. Fittings Selection

- Horizontal bends (90°, 60°, 45° and 30°)
- Horizontal Tees and Crosses
- Vertical bends (90°, 60°, 45° and 30°)

Each step is explained in detail on the following pages.

Selection Guide

.....

1. Material Choice

T&B Channel Tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to the technical section (pages A5 to A32) for further explanation.

2. Type of Channel Tray Bottom

Cable Channel

Thomas & Betts offers cable channel in solid or ventilated straight sections.

Ventilated channel has burr free oblong punched holes for easy access.

Ty-Rap® slots are provided between each opening for securing of cable.

Thomas & Betts channel tray meets NEMA VE-1 / CSA C22.22.



3. Select Channel Tray Width

The width of a channel tray is a function of the number, size, spacing and Available nominal widths are 1.5, 3, 4 and 6 inches.

When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

4. Select the Fittings

Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12 in., 24 in. or greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 inches.

Fittings are also available for 30°, 45°, 60° and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points.

Refer to CSA/NEMA VE2 Installation Guidelines for suggested support locations.

Straight Lengths

How to create Straight Section part numbers

1. Select the material
2. Select nominal width of tray
3. Select the bottom type
4. The last number is the length of the channel tray

Example:

ALTC04V-3

- Aluminum
- 4 in. wide
- Ventilated bottom
- 10 ft.. length



Ventilated Channel



Solid Channel

Straight Cover Number Selection

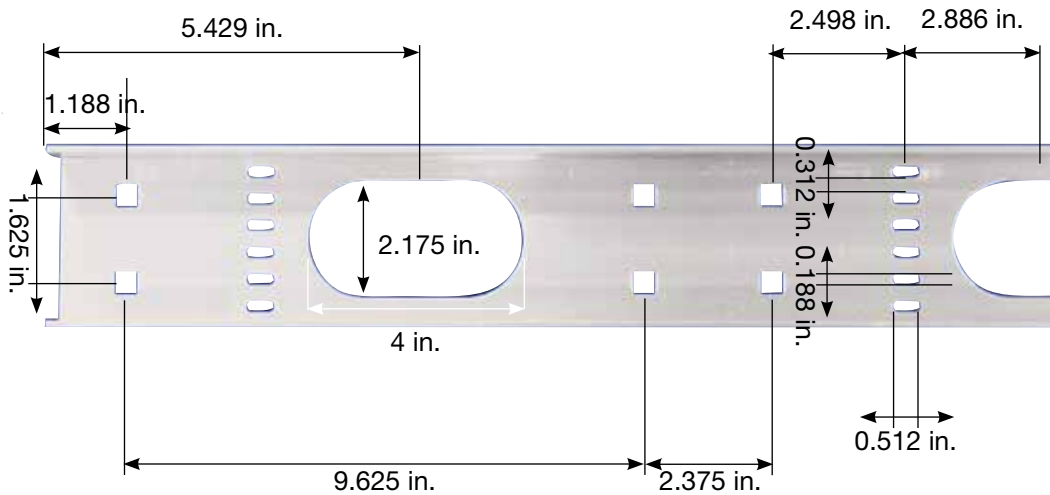


(ALT) C 04 V-3

Material	Series	Type	Width	Bottom Style	Length
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	C • Straight Section	01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.)	S • Solid Trough V • Ventilated Trough	3 • (10 ft..)
Prefix					

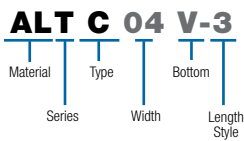
Straight Lengths

Solid and Ventilated



Bottom view of ventilated Channel Tray larger than 1.5 in. wide

Part Numbering System



Selection Guide

Prefix: **ALUF** (Aluminum), **SPUF** (Pre-Galv.), **SHUF** (Hot Dip Galv.), **SSUF** (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: **V**- Ventilated, **S**- Solid



Straight Lengths

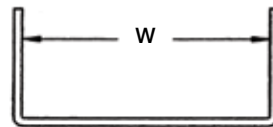
Solid and Ventilated Bottom

Solid: Steel - Roll Formed Steel. Aluminum - Extruded material.

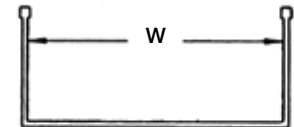
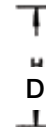
Ventilated: Pre-punched burr free oblong holes with Ty-Rap® slots between each opening.

Accessories: One connector complete with hardware supplied with each length.

Material: Aluminum-6063-T6
Pre-galvanized
Hot Dip Galvanized
316 Stainless Steel



Steel



Aluminum



Aluminum Solid	Channel Width (W)	Depth (D)	Support Span (Feet)					
				2	4	6	8	10
ALTC	1.5 in.	3/4 in.	Load (lb./ft.)	47.5	11.9	5.4	3.0	1.9
			Deflection (in.)	0.170	0.680	0.745	1.325	2.070
	3 in.	1-3/8 in.	Load (lb./ft.)	362.5	90.6	40.3	22.7	17.0
			Deflection (in.)	0.083	0.330	0.743	1.322	2.065
	4 in.	1-5/8 in.	Load (lb./ft.)	580.0	145.0	64.4	36.3	24.0
			Deflection (in.)	0.065	0.260	0.585	1.041	1.626
	6 in.	1-3/4 in.	Load (lb./ft.)	607.5	151.9	67.5	38.0	25.0
			Deflection (in.)	0.061	0.244	0.550	0.977	1.527

Aluminum Ventilated	Channel Width (W)	Depth (D)	Support Span (Feet)					
				2	4	6	8	10
ALTC	1.5 in.	3/4 in.	Load (lb./ft.)	47.5	11.9	5.4	3.0	1.9
			Deflection (in.)	0.170	0.680	0.745	1.325	2.070
	3 in.	1-3/8 in.	Load (lb./ft.)	300.0	75.0	33.3	18.8	14.0
			Deflection (in.)	0.100	0.400	0.900	1.600	2.500
	4 in.	1-5/8 in.	Load (lb./ft.)	525.0	131.3	58.3	32.8	19.0
			Deflection (in.)	0.074	0.295	0.664	1.181	1.846
	6 in.	1-3/4 in.	Load (lb./ft.)	580.0	145.0	64.4	36.3	21.0
			Deflection (in.)	0.065	0.261	0.587	1.044	1.631

Steel Solid	Channel Width (W)	Depth (D)	Support Span (Feet)					
				2	4	6	8	10
SPTC SHTC SSTC	1.5 in.	3/4 in.	Load (lb./ft.)	97.5	24.4	10.8	6.1	3.9
			Deflection (in.)	0.045	0.181	0.408	0.725	1.133
	3 in.	1-3/8 in.	Load (lb./ft.)	252.0	63.0	28.0	15.8	17.0
			Deflection (in.)	0.034	0.134	0.302	0.538	0.840
	4 in.	1-5/8 in.	Load (lb./ft.)	408.0	102.0	45.3	25.5	24.0
			Deflection (in.)	0.026	0.105	0.237	0.421	0.658
	6 in.	1-3/4 in.	Load (lb./ft.)	432.0	108.0	48.0	27.0	25.0
			Deflection (in.)	0.024	0.096	0.217	0.386	0.603

Steel Ventilated	Channel Width (W)	Depth (D)	Support Span (Feet)					
				2	4	6	8	10
SPTC SHTC SSTC	1.5 in.	3/4 in.	Load (lb./ft.)	97.5	24.4	10.8	6.1	3.9
			Deflection (in.)	0.045	0.181	0.408	0.725	1.133
	3 in.	1-3/8 in.	Load (lb./ft.)	207.0	51.8	23.0	12.9	14.0
			Deflection (in.)	0.041	0.163	0.366	0.652	1.018
	4 in.	1-5/8 in.	Load (lb./ft.)	363.0	90.8	40.3	22.7	19.0
			Deflection (in.)	0.030	0.119	0.269	0.477	0.746
	6 in.	1-3/4 in.	Load (lb./ft.)	405.0	101.3	45.0	25.3	21.0
			Deflection (in.)	0.027	0.106	0.239	0.425	0.664

Fittings

How to create Fitting part numbers

1. Select fitting material
2. Select nominal width of fitting
3. Select type of fitting
4. Select degree of angle if required
5. Select radius

Example:

ALTF04SHB4512

- Aluminum
- 4 in. wide
- Horizontal bend
- 45° degree
- 12 in. radius



Horizontal Cross



90° Horizontal Bend

Fittings Number Selection



(ALT) F 04 S HB 45 12							
Material	Series	Type	Width	Bottom Style	Fitting Type	Degree	Radius
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	F • Fitting	01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.)	S • Solid Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VO • Vertical Outside Bend VI • Vertical Inside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • 12 in. 24 • 24 in. 0 • Zero ¹ radius
Prefix							

¹Contact your Regional Sales Office for availability
^{*}Required for HB, VI & VO only.

Fittings

Horizontal Bends – 90°

Part Numbering System

ALT F 06 S HB 90 24

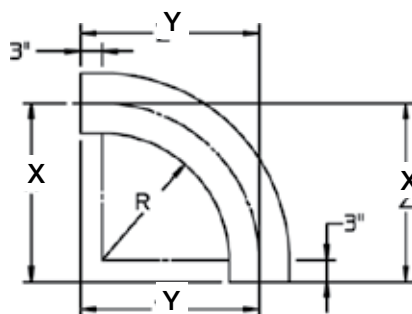
Material Fitting Width Bottom Style Fitting Type Angle Radius

Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



90° Horizontal Bend



Radius (in.)	Width (in.)	Cat. No.	Dimensions (in.)	
			X	Y
12	1.5	(Prefix)-F 01-S-HB90-12	15-3/4	15-3/4
	3	(Prefix)-F 03-S-HB90-12	16-1/2	16-1/2
	4	(Prefix)-F 04-S-HB90-12	17	17
	6	(Prefix)-F 06-S-HB90-12	18	18
24	1.5	(Prefix)-F 01-S-HB90-24	27-3/4	27-3/4
	3	(Prefix)-F 03-S-HB90-24	28-1/2	28-1/2
	4	(Prefix)-F 04-S-HB90-24	29	29
	6	(Prefix)-F 06-S-HB90-24	30	30

(†) Insert siderail depth. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12 in. - 48 in.). Includes 2 pairs of splice plates with hardware.

Fittings

Horizontal Bends – 60°

Part Numbering System

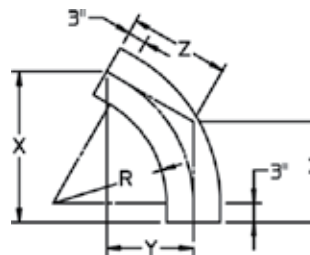
SPT	F	03	S	HB	60	24
Material	Fitting	Width	Bottom Style	Fitting Type	Angle	Radius

Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



60° Horizontal Bend



Radius (in.)	Width (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-HB60-12	15-1/2	9	10-1/4
	3	(Prefix)-F 03-S-HB60-12	16-3/16	9-3/8	10-13/16
	4	(Prefix)-F 04-S-HB60-12	16-5/8	9-5/8	11-1/16
	6	(Prefix)-F 06-S-HB60-12	17-1/2	10-1/8	11-11/16
24	1.5	(Prefix)-F 01-S-HB60-24	26	15	17-1/4
	3	(Prefix)-F 03-S-HB60-24	26-9/16	15-3/8	17-3/4
	4	(Prefix)-F 04-S-HB60-24	27	15-5/8	18
	6	(Prefix)-F 06-S-HB60-24	27-7/8	16-1/8	18-9/16

Fittings

Horizontal Bends – 45°

Part Numbering System

SPT F 03 S HB 45 24

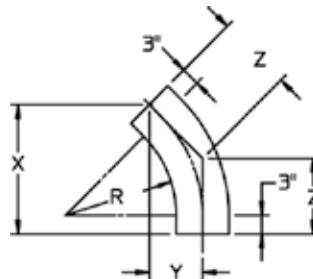
Material | Fitting | Width | Bottom Style | Fitting Type | Angle | Radius

Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



45° Horizontal Bend

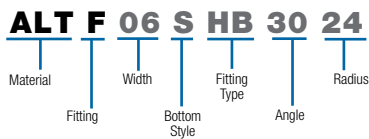


Radius (in.) R	Width (in.) W	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-HB45-12	14-1/8	5-7/8	8-1/4
	3	(Prefix)-F 03-S-HB45-12	14-11/16	6-1/16	8-9/16
	4	(Prefix)-F 04-S-HB45-12	15	6-1/4	8-13/16
	6	(Prefix)-F 06-S-HB45-12	15-3/4	6-1/2	9-3/16
24	1.5	(Prefix)-F 01-S-HB45-24	22-5/8	9-3/8	13-1/4
	3	(Prefix)-F 03-S-HB45-24	23-1/8	9-9/16	13-9/16
	4	(Prefix)-F 04-S-HB45-24	23-1/2	9-3/4	13-3/4
	6	(Prefix)-F 06-S-HB45-24	24-3/16	10	14-3/16

Fittings

Horizontal Bends – 30°

Part Numbering System

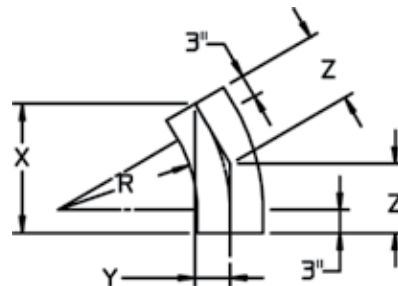


Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



30° Horizontal Bend

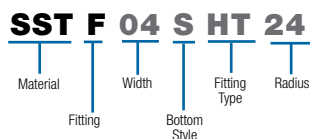


Radius (in.)	Width (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-HB30-12	12	3-1/4	6-1/2
	3	(Prefix)-F 03-S-HB30-12	12-3/8	3-5/16	6-5/8
	4	(Prefix)-F 04-S-HB30-12	12-5/8	3-3/8	6-3/4
	6	(Prefix)-F 06-S-HB30-12	13-1/8	3-1/2	7
24	1.5	(Prefix)-F 01-S-HB30-24	18	4-3/4	9-5/8
	3	(Prefix)-F 03-S-HB30-24	18-3/8	4-15/16	9-13/16
	4	(Prefix)-F 04-S-HB30-24	18-5/8	5	9-15/16
	6	(Prefix)-F 06-S-HB30-24	19-1/8	5-1/8	10-1/4

Fittings

Horizontal Tee

Part Numbering System

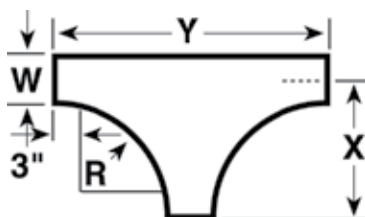


Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



Horizontal Tee

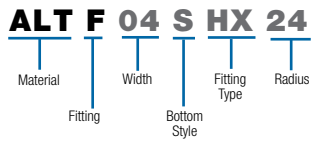


Radius (in.) R	Width (in.) W	Cat. No.	Dimensions (in.)	
			X	Y
12	1.5	(Prefix)-F 01-S-HT-12	15-3/4	31-1/2
	3	(Prefix)-F 03-S-HT-12	16-1/2	33
	4	(Prefix)-F 04-S-HT-12	17	34
	6	(Prefix)-F 06-S-HT-12	18	36
24	1.5	(Prefix)-F 01-S-HT-24	27-3/4	55-1/2
	3	(Prefix)-F 03-S-HT-24	28-1/2	57
	4	(Prefix)-F 04-S-HT-24	29	58
	6	(Prefix)-F 06-S-HT-24	30	60

Fittings

Horizontal Cross

Part Numbering System

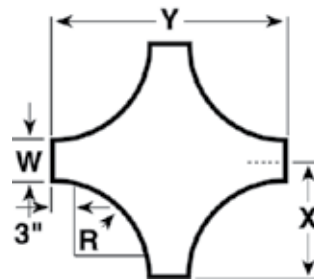


Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



Horizontal Cross

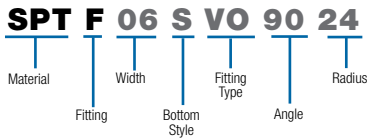


Radius (in.) R	Width (in.) W	Cat. No.	Dimensions (in.)	
			X	Y
12	1.5	(Prefix)-F 01-S-HX-12	15-3/4	31-1/2
	3	(Prefix)-F 03-S-HX-12	16-1/2	33
	4	(Prefix)-F 04-S-HX-12	17	34
	6	(Prefix)-F 06-S-HX-12	18	36
24	1.5	(Prefix)-F 01-S-HX-24	27-3/4	55-1/2
	3	(Prefix)-F 03-S-HX-24	28-1/2	57
	4	(Prefix)-F 04-S-HX-24	29	58
	6	(Prefix)-F 06-S-HX-24	30	60

Fittings

Vertical Bends – 90° Outside and Inside

Part Numbering System

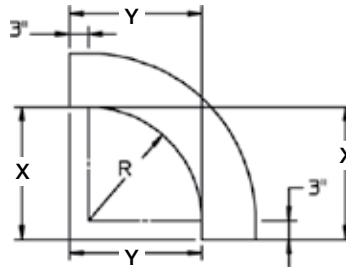


Selection Guide

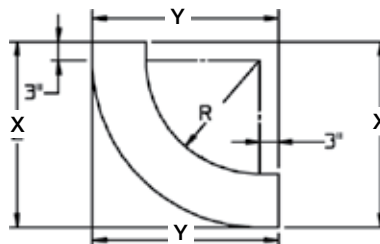
Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



Vertical Outside



Vertical Inside



90° Vertical Outside BEND

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)	
			X	Y
12	1.5	(Prefix)-F 01-S-V090-12	15	15
	3	(Prefix)-F 03-S-V090-12	15	15
	4	(Prefix)-F 04-S-V090-12	15	15
	6	(Prefix)-F 06-S-V090-12	15	15
24	1.5	(Prefix)-F 01-S-V090-24	15	15
	3	(Prefix)-F 03-S-V090-24	27	27
	4	(Prefix)-F 04-S-V090-24	27	27
	6	(Prefix)-F 06-S-V090-24	27	27

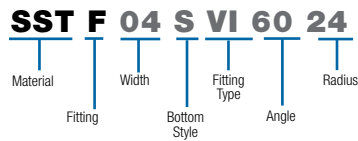
90° Vertical Inside BEND

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)	
			X	Y
12	1.5	(Prefix)-F 01-S-VI90-12	15-3/4	15-3/4
	3	(Prefix)-F 03-S-VI90-12	16-1/2	16-1/2
	4	(Prefix)-F 04-S-VI90-12	16-7/8	16-7/8
	6	(Prefix)-F 06-S-VI90-12	16-7/8	16-7/8
24	1.5	(Prefix)-F 01-S-VI90-24	27-3/4	27-3/4
	3	(Prefix)-F 03-S-VI90-24	28-1/2	28-1/2
	4	(Prefix)-F 04-S-VI90-24	28-7/8	28-7/8
	6	(Prefix)-F 06-S-VI90-24	28-7/8	28-7/8

Fittings

Vertical Bends – 60° Outside and Inside

Part Numbering System

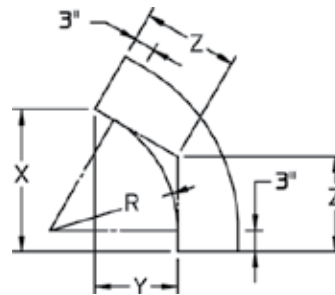


Selection Guide

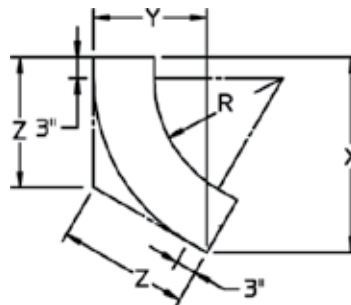
Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



Vertical Outside



Vertical Inside



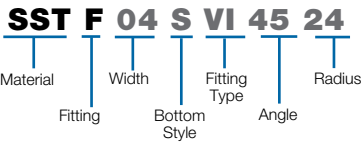
Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-V060-12	14-7/8	8-5/8	9-7/8
	3	(Prefix)-F 03-S-V060-12	14-7/8	8-5/8	9-7/8
	4	(Prefix)-F 04-S-V060-12	14-7/8	8-5/8	9-7/8
	6	(Prefix)-F 06-S-V060-12	14-7/8	8-5/8	9-7/8
24	1.5	(Prefix)-F 01-S-V060-24	25-1/4	14-5/8	16-7/8
	3	(Prefix)-F 03-S-V060-24	25-1/4	14-5/8	16-7/8
	4	(Prefix)-F 04-S-V060-24	25-1/4	14-5/8	16-7/8
	6	(Prefix)-F 06-S-V060-24	25-1/4	14-5/8	16-7/8

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-VI60-12	15-1/2	9	10-1/4
	3	(Prefix)-F 03-S-VI60-12	16-1/8	9-1/4	10-3/4
	4	(Prefix)-F 04-S-VI60-12	16-1/4	9-3/8	10-7/8
	6	(Prefix)-F 06-S-VI60-12	16-3/8	9-1/2	11
24	1.5	(Prefix)-F 01-S-VI60-24	26	15	17-1/4
	3	(Prefix)-F 03-S-VI60-24	26-1/2	15-1/4	17-5/8
	4	(Prefix)-F 04-S-VI60-24	26-3/4	15-3/8	17-3/4
	6	(Prefix)-F 06-S-VI60-24	26-3/4	15-1/2	17-7/8

Fittings

Vertical Bends – 45° Outside and Inside

Part Numbering System

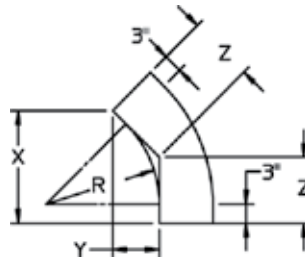


Selection Guide

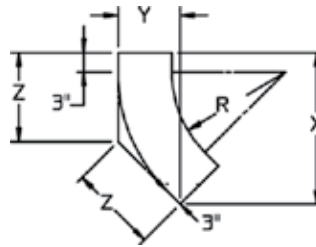
Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



Vertical Outside



Vertical Inside



45° Vertical Outside BEND

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-V045-12	13-5/8	5-5/8	8
	3	(Prefix)-F 03-S-V045-12	13-5/8	5-5/8	8
	4	(Prefix)-F 04-S-V045-12	13-5/8	5-5/8	8
	6	(Prefix)-F 06-S-V045-12	13-5/8	5-5/8	8
24	1.5	(Prefix)-F 01-S-V045-24	22-1/8	9-1/8	12-7/8
	3	(Prefix)-F 03-S-V045-24	22-1/8	9-1/8	13
	4	(Prefix)-F 04-S-V045-24	11	11	13
	6	(Prefix)-F 06-S-V045-24	11	11	13

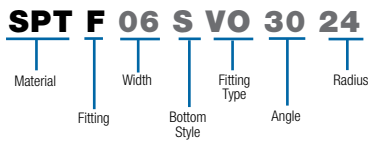
45° Vertical Inside BEND

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-V045-12	13-5/8	5-5/8	8
	3	(Prefix)-F 03-S-V045-12	13-5/8	5-5/8	8
	4	(Prefix)-F 04-S-V045-12	13-5/8	5-5/8	8
	6	(Prefix)-F 06-S-V045-12	13-5/8	5-5/8	8
24	1.5	(Prefix)-F 01-S-V045-24	22-1/8	9-1/8	12-7/8
	3	(Prefix)-F 03-S-V045-24	22-1/8	9-1/8	13
	4	(Prefix)-F 04-S-V045-24	11	11	13
	6	(Prefix)-F 06-S-V045-24	11	11	13

Fittings

Vertical Bends – 30° Outside and Inside

Part Numbering System

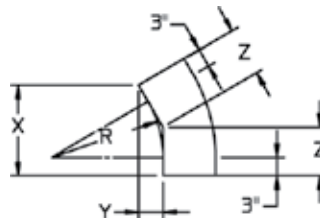


Selection Guide

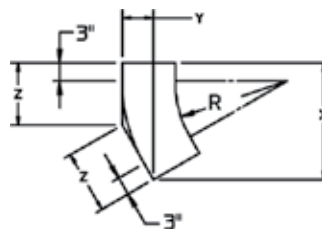
Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.
 Bottom Styles: S– Solid



Vertical Outside



Vertical Inside



30° Vertical Outside BEND

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-V030-12	10-1/8	1-7/8	5-1/4
	3	(Prefix)-F 03-S-V030-12	11-5/8	3-1/8	6-1/8
	4	(Prefix)-F 04-S-V030-12	11-5/8	3-1/8	6-1/8
	6	(Prefix)-F 06-S-V030-12	11-5/8	3-1/8	6-1/8
24	1.5	(Prefix)-F 01-S-V030-24	17-5/8	4-3/4	9-1/2
	3	(Prefix)-F 03-S-V030-24	17-5/8	4-3/4	9-1/4
	4	(Prefix)-F 04-S-V030-24	17-5/8	4-3/4	9-1/4
	6	(Prefix)-F 06-S-V030-24	17-5/8	4-3/4	9-1/4

30° Vertical Inside BEND

Radius R (in.)	Width W (in.)	Cat. No.	Dimensions (in.)		
			X	Y	Z
12	1.5	(Prefix)-F 01-S-V130-12	10-3/8	1-7/8	5-3/8
	3	(Prefix)-F 03-S-V130-12	12-1/4	3-1/2	6-3/8
	4	(Prefix)-F 04-S-V130-12	12-3/8	3-3/8	5-5/8
	6	(Prefix)-F 06-S-V130-12	12-1/2	3-3/8	5-5/8
24	1.5	(Prefix)-F 01-S-V130-24	18	4-3/4	9-5/8
	3	(Prefix)-F 03-S-V130-24	18-1/4	4-7/8	9-3/4
	4	(Prefix)-F 04-S-V130-24	18-3/8	4-7/8	9-7/8
	6	(Prefix)-F 06-S-V130-24	18-1/2	5	9-7/8

Covers

Cover Selection Guide

Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Straight Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Flanged covers have 1/2 in. flange.



Note: Cover mounting hardware must be ordered separately.

Straight Cover Number Selection



(ALT) F 03 SFC 3

Material	Series	Type	Width	Bottom Style	Length
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	Accessory i.e.: Straight cover	01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.)	SFC • Solid Flanged Covers	3 • (10 ft.)
Prefix					

*Hot Dip Galvanized Covers only available in 1500 mm lengths

Quantity of Standard Cover Clamps Required

Straight section (10 ft.)	6 pcs.
Note: When using the Heavy-Duty Cover Clamps, only half the quantity of pieces are required.	

Covers

Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Fitting Covers

Fitting covers are available to complete your cable channel layout. All fitting covers are flanged.



Note: Cover mounting hardware must be ordered separately.

Fittings Number Selection



(ALT) F 06 HBC 45 12

Material	Series	Type	Width	Type Cover	Degree	Radius
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	F • Fitting Cover	01 • (1.5 in.) 03 • (3 in.) 04 • (4 in.) 06 • (6 in.)	HBC • Horizontal Bend HTC • Horizontal Tee HXC • Horizontal Cross VOC • Vertical Outside Bend VIC • Vertical Inside Bend	30 • 30° 45 • 45° 60 • 60° 90 • 90°	12 • 12 in. 24 • 24 in. 0 • Zero† radius †Contact your Regional Sales Office for availability
Prefix						

*Required for HB, VI & VO only.

Quantity of Standard Cover Clamps Required

Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.
Note: When using the Heavy-Duty Cover Clamps, only half the quantity of pieces are required.	

Accessories

Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.



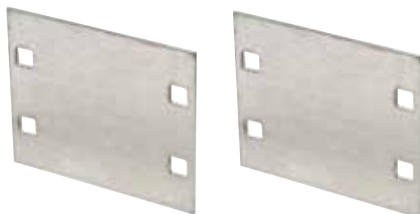
Standard 1.5 in. Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-01-CCS	1.5

Supplied standard with each length.

Standard Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-03-CCS	3
(Prefix)-W-04-CCS	4
(Prefix)-W-06-CCS	6

Supplied standard with each length.

Expansion Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-03-ESP	3
(Prefix)-W-04-ESP	4
(Prefix)-W-06-ESP	6

Supplied standard with each length.

Wrap Around Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-01-ACS	1.5
(Prefix)-W-03-ACS	3
(Prefix)-W-04-ACS	4
(Prefix)-W-06-ACS	6

Accessories

Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.



Adjustable Horizontal Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-01-CHA	1.5
(Prefix)-W-03-CHA	3
(Prefix)-W-04-CHA	4
(Prefix)-W-06-CHA	6

Standard Vertical Adjustable Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-01-CCV	1.3
(Prefix)-W-03-CCV	3
(Prefix)-W-04-CCV	4
(Prefix)-W-06-CCV	6

Supplied standard with each length.

Wrap Around Vertical Adjustable Splice Plate



Cat. No.	Width (in.)
(Prefix)-W-01-WAV	1.5
(Prefix)-W-03-WAV	3
(Prefix)-W-04-WAV	4
(Prefix)-W-06-WAV	6

Supplied standard with each length.

Standard Hold Down Clamp



Cat. No.	Width (in.)
(Prefix)-W-01-SHC	1.5
(Prefix)-W-03-SHC	3
(Prefix)-W-04-SHC	4
(Prefix)-W-06-SHC	6

Accessories

Selection Guide

Prefix: **ALT** (Alum.), **SPT** (Pre-Galv.), **SHT** (Hot Dip Galv.), **SST** (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.



Channel Expansion Guide Clamp



Cat. No.	Width (in.)
(Prefix)-W-01-CEG	1.5
(Prefix)-W-03-CEG	3
(Prefix)-W-04-CEG	4
(Prefix)-W-06-CEG	6

Combination Hold Down / Cover Clamp



Cat. No.	Width (in.)
(Prefix)-W-01-CCC	1.3
(Prefix)-W-03-CCC	3
(Prefix)-W-04-CCC	4
(Prefix)-W-06-CCC	6

Heavy-Duty Cover Clamp



Cat. No.	Width (in.)
(Prefix)-W-01-HCC	1.5
(Prefix)-W-03-HCC	3
(Prefix)-W-04-HCC	4
(Prefix)-W-06-HCC	6

Closed End Plate



Cat. No.	Width (in.)
(Prefix)-W-01-CEP	1.5
(Prefix)-W-03-CEP	3
(Prefix)-W-04-CEP	4
(Prefix)-W-06-CEP	6

Accessories

Selection Guide

Prefix: **ALT** (Alum.), **SPT** (Pre-Galv.), **SHT** (Hot Dip Galv.), **SST** (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.

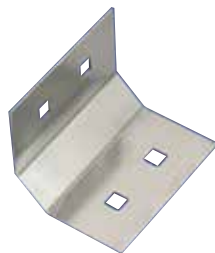


Channel Mounting Bracket



Cat. No.	Width (in.)
(Prefix)-W-01-CCB	1.5
(Prefix)-W-03-CCB	3
(Prefix)-W-04-CCB	4
(Prefix)-W-06-CCB	6

Channel to Cable Tray Plate



Cat. No.	Width (in.)
(Prefix)-W-01-CCT	1.3
(Prefix)-W-03-CCT	3
(Prefix)-W-04-CCT	4
(Prefix)-W-06-CCT	6

Channel Straight Reducer Plate



Cat. No.	Width (in.)
(*)-W-03-01-RSP	3 to 1
(*)-W-04-01-RSP	4 to 1
(*)-W-06-01-RSP	6 to 1
(*)-W-04-03-RSP	4 to 3
(*)-W-06-03-RSP	6 to 3
(*)-W-06-04-RSP	6 to 4

Channel to Floor Base Plate



Cat. No.	Width (in.)
(Prefix)-W-01-CBP	1.5
(Prefix)-W-03-CBP	3
(Prefix)-W-04-CBP	4
(Prefix)-W-06-CBP	6

Accessories

Selection Guide

Prefix: ALT (Alum.), SPT (Pre-Galv.), SHT (Hot Dip Galv.), SST (Stainless Steel)
 Inside Channel Widths: 01=1.5 in., 03=3 in., 04=4 in., 06=6 in.



Channel to Tray Mounting Bracket



Cat. No.	Width (in.)
(Prefix)-W-01-TCB	1.5
(Prefix)-W-03-TCB	3
(Prefix)-W-04-TCB	4
(Prefix)-W-06-TCB	6

Single Channel Hanger



Cat. No.	Width (in.)
SPT-W-06-CCH	For use with all widths
SHT-W-06-CCH	

Note: Designed for use with 1/2 in. threaded rod

Double Channel Hanger

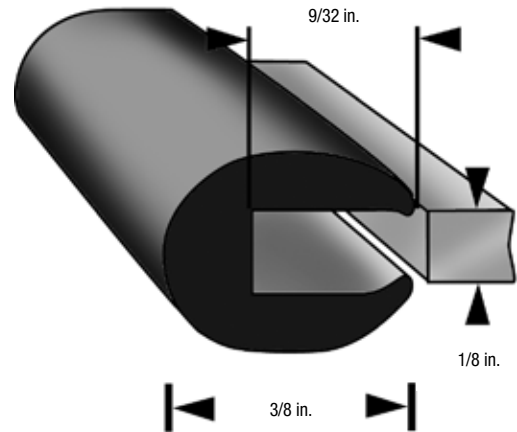
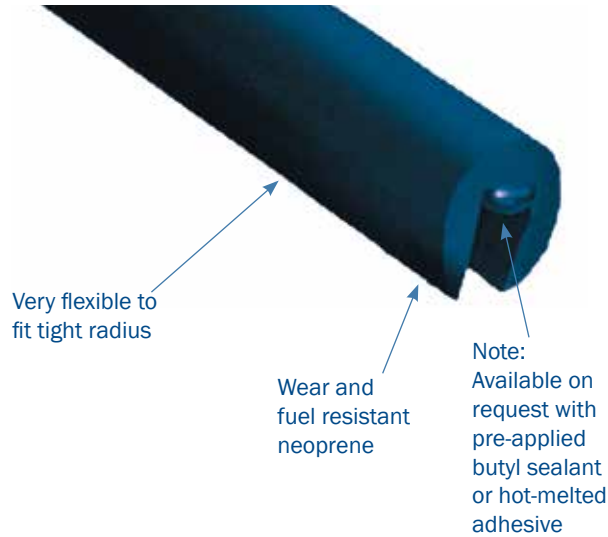


Cat. No.	Width (in.)
SPT-W-06-DCH	For use with all widths
SHT-W-06-DCH	

Note: Designed for use with 1/2 in. threaded rod

Accessories

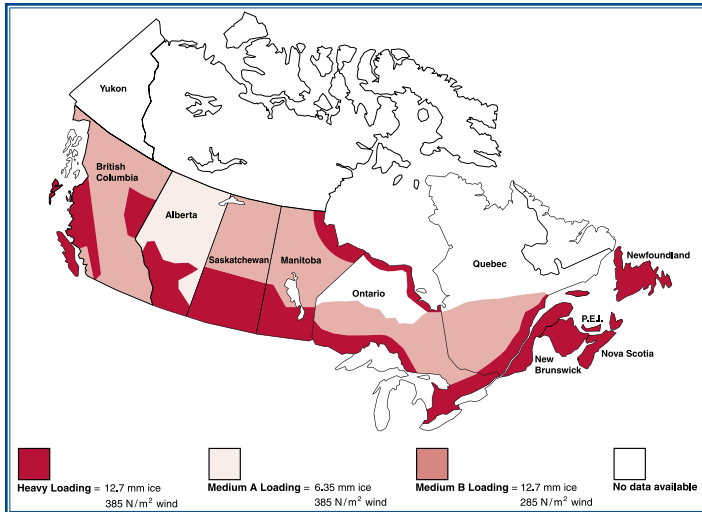
Channel Rubber Edge Trim



Cat. No.	Width	Description
RET-BUSH	For use with 3 in., 4 in. and 6 in.	Rubber edge trim - 10-3/4 in. Bushing - Standard pack of 10
RET-50	For use with all widths	Rubber edge trim - 50 foot roll
RET-500	For use with all widths	Rubber edge trim - 500 foot roll

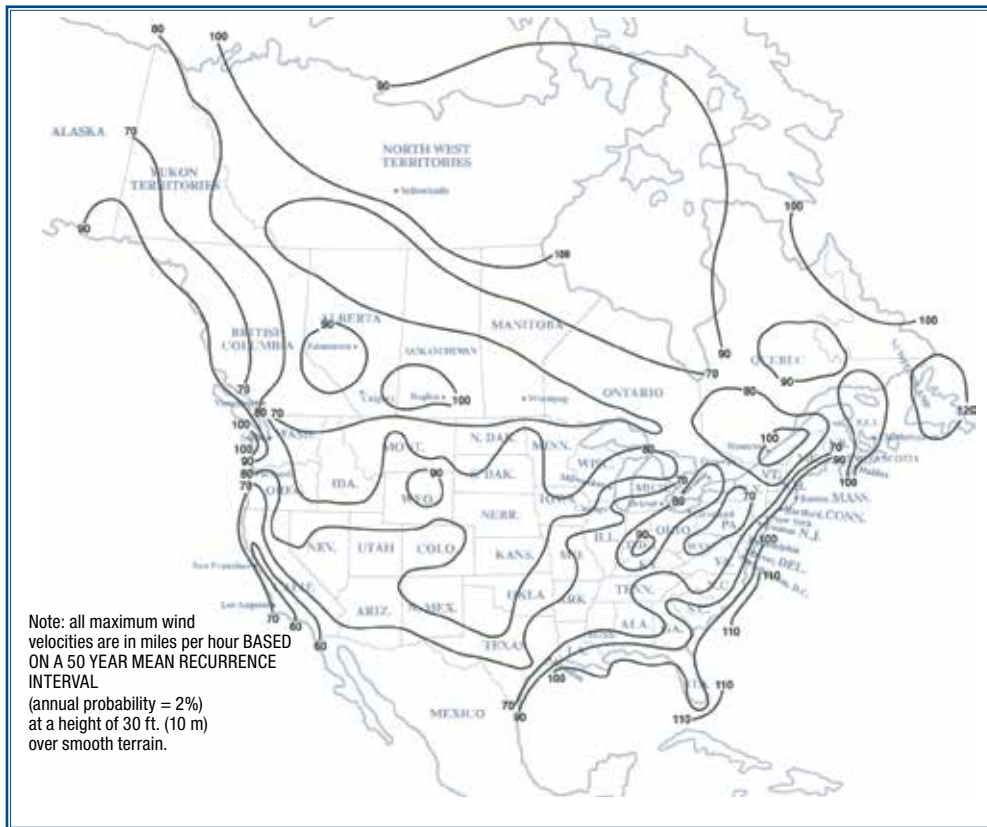
Product Specifications: Recommended temperature range: -40°C through -106°C.
Base Material: Dense Neoprene Rubber.

Figure 250-1CDN and 250-2CDN Loading for Grades B, C and D



General Loading Map of Canada with respect to loading of overhead lines.

Fig. 250-1CDN



Basic Wind Speed (miles per hour).

Fig. 250-2CDN

Figure 250-2CDN is a wind map of North America reproduced from ASCE 7-88 [52]. For Hawaii and Puerto Rico, the basic wind speeds are 80mi/h and 95 mi/h, respectively.

Note: Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.

Cable Rollers

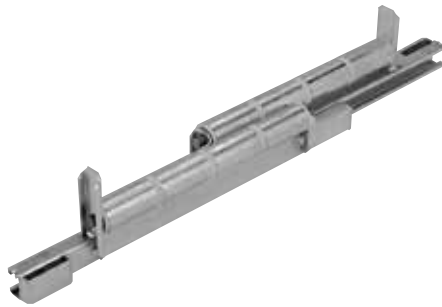
Why should rollers be used?

1. To reduce pulling stress on cables, avoiding undue fatigue or abrasions.
2. Minimizes harmful “shear” load being placed on cable trays.
3. To reduce installation time.

Why purchase the T&B Cable Roller System?

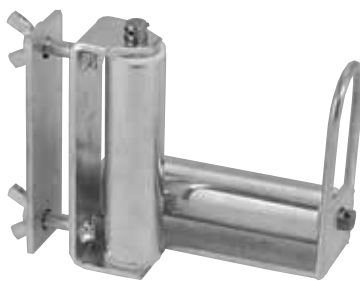
- Universal — fits virtually all tray systems.
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage.
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths.
- Nylon bearings require no lubrication.
- Independent rollers limit cable abrasion.

Straight Roller



Cat. No.	Description	Fits
HAR 1224	Straight	all profiles 12 in. to 24 in. (30 cm to 60 cm)
HAR 1836	Straight	all profiles 18 in. to 36 in. (45 cm to 90 cm)

Corner Roller

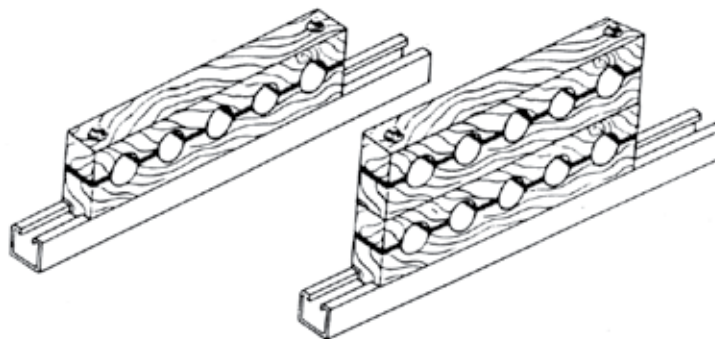
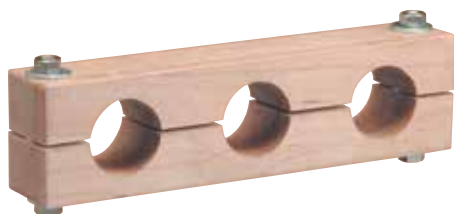


Cat. No.	Description	Fits
VHR04	Corner	all profiles

Custom Maple

Hardwood Block

Custom Maple Hardwood Block



Maple hardwood, paraffin wax impregnated, multiple cable blocks can be made to your specific requirements.

Cable blocks are to ensure proper separation of single conductor cables, which prevents any interference due to magnetic fields. The maple hardwood blocks are paraffin wax impregnated to prevent moisture from penetrating and causing rotting and splitting.

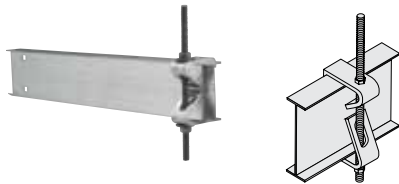
Cable blocks are also available in nylon and high density polyethylene.

Price and delivery upon request.

Electrogalvanized hardware included, however stainless steel hardware is also available upon request.

Cable Tray Support Systems

Hanger Rod Clamp



These clamps are designed for ladder and ventilated cable tray. They provide a fast and economical solution for a suspended cable tray installation. One kit is needed per each threaded rod location.

Kit consists of:
- one bottom clamp
- one top clamp

Uses 1/2 in. threaded rod (order separately) / 250 lb. capacity per kit.

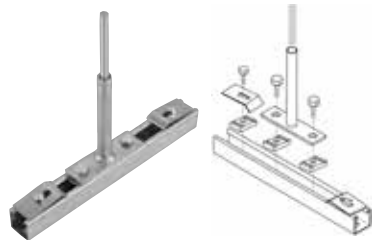
For Steel Cable Tray

Cat. No.	Material Prefix	Height (in.)
(Prefix)-3-HRC	SPW SHW SSW	3
(Prefix)-4-HRC		4
(Prefix)-5-HRC		5
(Prefix)-6-HRC		6
(Prefix)-7-HRC		7

For Aluminum Cable Tray

Cat. No	Tray Series	Cat. No	Tray Series	Cat. No	Tray Series
ABW04-HRC	AH04	ABW25-HRC	AH25	ABW46-HRC	AH46
ABW14-HRC	AH14	ABW35-HRC	AH35	ABW56-HRC	AH56
ABW24-HRC	AH24	ABW45-HRC	AH45	ABW66-HRC	AH66
ABW34-HRC	AH34	ABW16-HRC	AH16	ABW27-HRC	AH27
ABW44-HRC	AH44	ABW26-HRC	AH26	ABW37-HRC	AH37
ABW54-HRC	AH54	ABW36-HRC	AH36		

Center Support Bracket



This system is designed to reduce cable pulling by allowing access from both sides of cable tray. Installation cost and time are reduced significantly by single point suspension.

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

Cat. No.	Material	Channel Width (in.)	Tray Width (in.)
SHW18CSB	SHW	18	6 9
SHW30CSB	Hot-Dip Galvanized	30	12 18 24

Trapeze Kit



This system is designed to support various cable tray widths in a suspending installation.

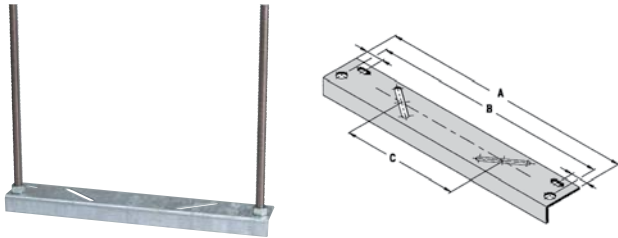
Kit consists of:
1 pc of strut cut to length
4 3/8 in. strut nuts
2 hold down clips
4 1/2 in. hex nuts
2 3/8 in. x 7/8 in. hex head cap screws
4 1/2 in. square washers
Uses 1/2 in. threaded rod (order separately)

Cat. No.	Channel Width (in.)	Tray Width (in.)
(*)-06-TPK	16-7/8	6
(*)-09-TPK	18-3/4	9
(*)-12-TPK	22-1/2	12
(*)-18-TPK	28-1/8	18
(*)-24-TPK	35-5/8	24
(*)-30-TPK	41-1/4	30
(*)-36-TPK	46-7/8	36
(*)-42-TPK	52-1/2	42

(*) Insert: HW for hot dip galvanized.
SSW for stainless steel 316.
SPW for pre-galvanized.

Cable Tray Support Systems

Cross Member



Cat. No.	A	B	C
S202-6HDG	6	5	–
S202-9HDG	9	8	2
S202-15HDG	5	14	8
S202-21HDG	21	20	14
S202-27HDG	27	26	20
S202-33HDG	33	32	26

* Order hold down clips separately. Cat # SSW-HEC.
Hanging rods not included.
Standard finish: hot dipped galvanized.

Cantilever Support



Cat. No.	A	B	Design Load/Lb.
S203-8HDG	8-1/2	4-1/16	1200
S203-14HDG	14-1/2	5-3/8	1200
S203-20HDG	20-1/2	6-11/16	1200
S203-26HDG	26-1/2	8	1200
S203-32HDG	32-1/2	8	1200
S203-38HDG	38-1/2	8	1200

* Order hold down clips separately. Cat # SSW-HEC.
Standard finish: hot dipped galvanized.

Conduit to Cable Tray Clamp



Cat. No.	Conduit Size (in.)
6210	1/2 – 3/4
6212	1 – 1-1/4

Material: steel
Standard finish: electro-galvanized.

Conduit to Cable Tray - Swivel Clamp



Cat. No.	Conduit Size (in.)
6209	1/2 – 3/4
6211	1 – 1-1/4
6214	1-1/2 – 2
6216	2-1/2 – 3
6218	3-1/2 – 4

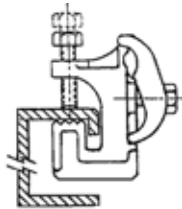
Swivel Tray Clamp for aluminum and steel trays with regular or reinforced flanges.
- Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp.
- 1/2 to 4 inch can be clamped to any position in a 90 degree arc.
Material: malleable iron hub and steel U-bolt.
Standard finish: zinc plated.

Grounding and Bonding Products

Cable Tray Ground Clamp



Showing Cat. No. 10109



Cat. No.	Cable	Description
10105	Copper or aluminum	Cable for single conductors #4 solid to 2/0 str.
10109		Cable for single conductors 2/0 solid to 4/0 str.

Material: malleable iron.
Standard finish: zinc plated.

Blackburn® Ground Clamp



Castings are of high strength, corrosion-resistant copper alloy.



Figure 1



Figure 2

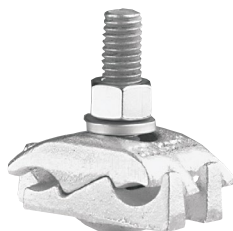
Cat. No.	Conductor Range		
	Min.	Max.	Figure
GTC13P	#4 sol.	2/0 str.	1
GTC14P	2/0 str.	250 Kcmil	1
GTC23P	#4 sol.	2/0 str.	2
GTC24P	2/0 str.	250 Kcmil	2

Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench.
Material: copper alloy.
Standard finish: tin plated for aluminum cable tray.

For our complete offering of Grounding & Bonding products, consult our Connectivity and Grounding Catalogue.

Grounding and Bonding Products

Blackburn® Cable Tray Ground Clamp



Cat. No.	Cable	Description
CTG250	Al or Cu	For parallel or tapping applications #2 solid to 250 Kcmil.

Material: copper alloy.
Standard finish: tin plated.

Blackburn® Lay-in Lug



Cat. No.	Conductor Range		Stud Size	
	Min.	Max.	(in.)	(mm ²)
LL306	#6 solid	3/0 str.	0.33	8.38
LL2506	#6 str.	250 Kcmil	0.33	8.38

Material: Tin Plated high strength 6061-T6 aluminum alloy.
These grounding connectors are dual rated for aluminum and copper conductors.
The opened face design allows the installer to quickly lay-in the grounding conductor as a jumper.

Bonding Jumpers



Cat. No.	Bonding Amp. Capacity	Single Bolt Hole	Description
FBD12-1*	600 A	7/16	12 in. flat flexible braid
FBD16-1*	600 A	7/16	16 in. flat flexible braid
FBD18-1*	600 A	7/16	18 in. flat flexible braid
FBD24-1*	600 A	7/16	24 in. flat flexible braid
FBD30-1*	600 A	7/16	30 in. flat flexible braid
FBD36-1*	600 A	7/16	36 in. flat flexible braid
FBE12-1*	1200 A	9/16	12 in. flat flexible braid
FBE16-1*	1200 A	9/16	16 in. flat flexible braid
FBE18-1*	1200 A	9/16	18 in. flat flexible braid
FBE24-1*	1200 A	9/16	24 in. flat flexible braid
FBE30-1*	1200 A	9/16	30 in. flat flexible braid
FBE36-1*	1200 A	9/16	36 in. flat flexible braid
FBG12-1*	2000 A	9/16	12 in. flat flexible braid
FBG16-1*	2000 A	9/16	16 in. flat flexible braid
FBG18-1*	2000 A	9/16	18 in. flat flexible braid
FBG24-1*	2000 A	9/16	24 in. flat flexible braid
FBG30-1*	2000 A	9/16	30 in. flat flexible braid
FBG36-1*	2000 A	9/16	36 in. flat flexible braid

* CSA Certified and UL Listed for grounding & bonding equipment.
Custom braids are available.
Material: copper. Standard finish: tin plated.

For our complete offering of Grounding & Bonding products, consult our Connectivity and Grounding Catalogue.

Grounding and Bonding Products

Grounding & Bonding

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50**	0.40
1000	–	0.60
1200	–	1.00
1600	–	1.50
2000	–	2.00**

For SI units: one square inch = 645 square millimeters.

* Total cross-sectional area of both siderails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 A. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 A.

For larger ampere ratings an additional grounding conductor must be used.

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc. Not exceeding (Amperes)	Size	
	Copper Wire No.	Aluminum or Copper-Clad Aluminum Wire No.*
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250 kcmil
1600	4/0	350 kcmil
2000	250 kcmil	400 kcmil
2500	350 kcmil	600 kcmil
3000	400 kcmil	600 kcmil
4000	500 kcmil	800 kcmil
5000	700 kcmil	1200 kcmil

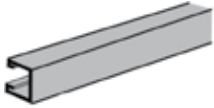
* See installation restrictions in NEC Section 250-92(a).

For more information on grounding and bonding cable tray, refer to Section 4.7 of the new NEMA VE 2-2006 Cable Tray Installation Guidelines.

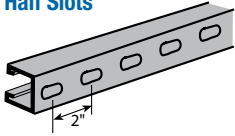
1-5/8 in. x 1-5/8 in. Channel

Superstrut® 1-5/8 in. x 1-5/8 in. - 12 Gauge Channel Type A

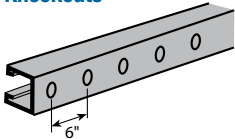
Solid Base



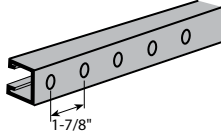
Half Slots



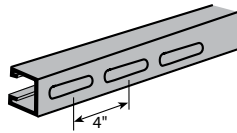
Knockouts



Punched



Long Slots



Back to Back



Cat. No.	Description
A1200	Solid base
A1200-P	Punched
A1200-HS	Half slots
A1200-S	Long slots
A1200-KO	Knockouts
A1202	Back to back

Example: A1200HS10ALC, A120020HDGC

Finishes & Materials

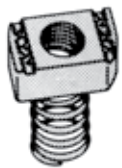
No Suffix	Gold galvanized dichromate finish
ALC	Aluminum
EG	Electrogalvanized
HDGC	Hot dipped galvanized
PGC	Pregalvanized
T316L	Stainless steel Type 316

- Offered in 10 or 20 ft. lengths.

- Aluminum, hot dipped galvanized or stainless steel channels are recommended to support aluminum steel or stainless steel cable tray.

Channel Nuts

A100 Regular Spring Nut



AC100 Springless Nut



UC100 Universal Nylon Cone Nut



For all 1-5/8 in. and 1-1/2 in. channels
May be used with ALL Strut Depths.

Cat. No.	Size	
A100-1/4EGC	1/4	Standard Finish: Electrogalvanized Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C).
A100-5/16EGC	5/16	
A100-3/8EGC	3/8	
A100-1/2EGC	1/2	
A100-5/8EGC	5/8	
A100-3/4	3/4	
A100-7/8EGC	7/8	

Nut is square over 1/2 in. size.

Cat. No.	Size	
AC100-1/4EGC	1/4	Standard Finish: Electrogalvanized Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C).
AC100-3/8EGC	3/8	
AC100-1/2EGC	1/2	
AC100-5/8	5/8	
AC100-3/4	3/4	

Nut is square over 1/2 in. size.

Cat. No.	Size	
UC100-1/4	1/4	Not available in stainless steel.
UC100-3/8	3/8	
UC100-1/2	1/2	

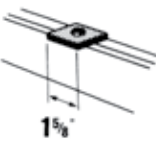
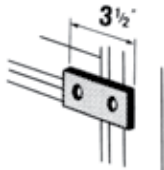
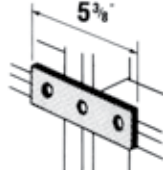
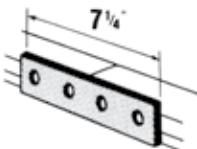
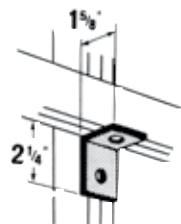
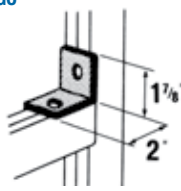
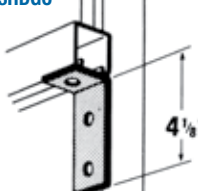
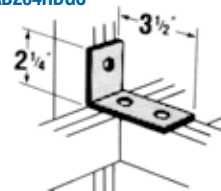
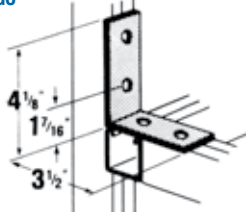
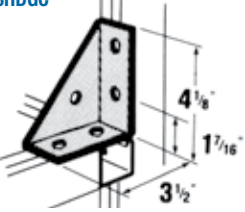
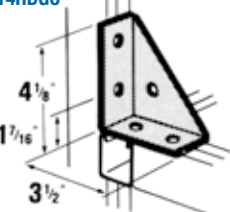
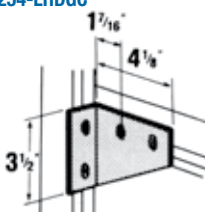
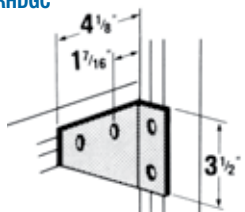
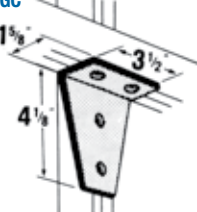
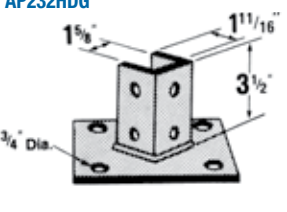
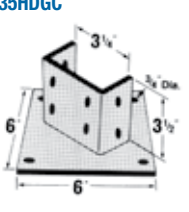

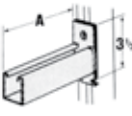
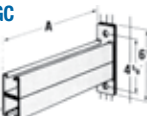
Hex. Head Cap Screw



Cat. No.	Size	
E142-1/4x100EG	1/4 x 1	Standard finish Electrogalvanized Available in stainless steel. Change suffix to SS6(C).
E142-1/4x150EG	1/4 x 1-1/2	
E142-3/8x100EG	3/8 x 1	
E142-3/8x150EG	3/8 x 1-1/2	
E142-1/2x100EG	1/2 x 1	
E142-1/2x150EG	1/2 x 1-1/2	

1-5/8 in. x 1-5/8 in. Channel

Superstrut® Fittings and Brackets

<p>AB241HDGC</p>  <table border="1"> <thead> <tr> <th>Cat. No.</th> <th>Hole Size</th> </tr> </thead> <tbody> <tr> <td>AB241-1/4HDGC</td> <td>1/4</td> </tr> <tr> <td>AB241-3/8HDGC</td> <td>3/8</td> </tr> <tr> <td>AB241-1/2HDGC</td> <td>1/2</td> </tr> <tr> <td>AB241-3/4HDGC</td> <td>3/4</td> </tr> </tbody> </table>	Cat. No.	Hole Size	AB241-1/4HDGC	1/4	AB241-3/8HDGC	3/8	AB241-1/2HDGC	1/2	AB241-3/4HDGC	3/4	<p>AB206HDGC</p> 	<p>AB207HDGC</p> 	<p>X207HDGC</p> 
Cat. No.	Hole Size												
AB241-1/4HDGC	1/4												
AB241-3/8HDGC	3/8												
AB241-1/2HDGC	1/2												
AB241-3/4HDGC	3/4												
<p>AB201HDGC</p> 	<p>AB202HDGC</p> 	<p>AB203HDGC</p> 	<p>AB204HDGC</p> 										
<p>AB205HDGC</p> 	<p>AB213HDGC</p> 	<p>AB214HDGC</p> 	<p>AB254-LHDGC</p> 										
<p>AB254-RHDGC</p> 	<p>X289HDGC</p> 	<p>AP232HDG</p> 	<p>AP235HDGC</p> 										
<p>S249HDG</p> 	<p>S256HDGC</p> 	<p>S251HDGC</p> 											

Cat. No.	A	B	Design Load (lb.)
S249-8HDG	8-1/2	8	1500
S249-14HDG	14-1/2	9	1500
S249-20HDG	20-1/2	9	1500
S249-26HDG	26-1/2	11-1/2	1500
S249-32HDG	32-1/2	11-1/2	1500
S249-38HDG	38-1/2	11-1/2	1500

Cat. No.	A	Design Load (lb.)
S249-8HDG	8-1/2	1000
S249-14HDG	14-1/2	500
S249-20HDG	20-1/2	300
S249-26HDG	26-1/2	250

When installed in inverted position reduce load rating 40%. Strut section made from half slot channel.

Cat. No.	A	Design Load (lb.)
S251-14HDGC	14-1/2	1650
S251-20HDGC	20-1/2	800
S251-26HDGC	26-1/2	650
S251-32HDGC	32-1/2	500
S251-38HDGC	38-1/2	500

Std Dimensions: Hole Spacing 13/16 in. from end
Hole Spacing 1-7/8 in. centers
Hole Size 9/16 in. dia.
Fitting width 1-5/8 in.

Hot dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel. Also available in ElectroGalvanized (EG) and Gold galvanized dichromate (no suffix).

Quick Clamp II (TBQC)



True one-piece construction — arrives ready to install.

NO breaking apart — half the installation time of break apart clamps.

Integral bolt and captive nut — no separate pieces to lose.

One size fits EMT and rigid conduit — takes the guesswork out of clamp selection. Pipe size and catalogue number stamped right on clamp.

Attaches a complete range of EMT and rigid conduit (1/2 in. to 4 in.) — to strut channels.

Multi-driver combo bolt head — accepts a wrench, most screwdrivers or 1/2 in. nut driver.

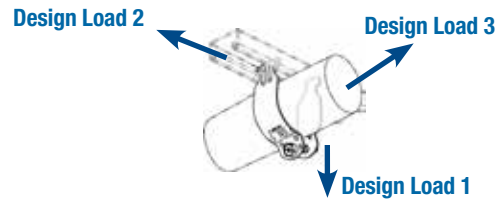
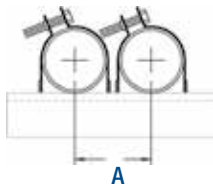
Field-adjustable angle ($\pm 4^\circ$) — easy installation even when strut is not square.

Embossed J-hooks increase loading capabilities.

T&B flex window provides wrapping action around pipes.

Easy reconfiguration without complete disassembly — easily accessible angled bolt allows for field adjustments and closer conduit spacing.

Electrogalvanized finish — additional corrosion resistance.



Ordering Information

Cat. No.	Design Load 1 Static Load Limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
TBQC050	1-5/16 (33.5)	1-1/4 (31.5)	100
TBQC075	1-3/4 (44.5)	1-11/16 (43)	100
TBQC100	1-13/16 (46)	1-3/4 (44.5)	100
TBQC125	2-1/8 (54)	2 (51)	50
TBQC150	2-3/8 (60.5)	2-3/16 (55.5)	50
TBQC200	2-5/8 (66.5)	2-1/2 (63.5)	50
TBQC250	3-1/16 (78)	3-1/16 (78)	25
TBQC300	3-11/16 (93.5)	3-11/16 (93.5)	25
TBQC350	4-3/16 (106.5)	4-3/16 (106.5)	25
TBQC400	4-11/16 (119)	4-11/16 (119)	25

Loading Data

Cat. No.	Design Load 1 Static Load Limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
TBQC050	200 (90)	50 (23)	50 (23)
TBQC075	200 (90)	50 (23)	50 (23)
TBQC100	200 (90)	50 (23)	50 (23)
TBQC125	200 (90)	50 (23)	50 (23)
TBQC150	200 (90)	50 (23)	50 (23)
TBQC200	200 (90)	50 (23)	50 (23)
TBQC250	350 (158)	50 (23)	50 (23)
TBQC300	350 (158)	50 (23)	50 (23)
TBQC350	350 (158)	50 (23)	50 (23)
TBQC400	350 (158)	50 (23)	50 (23)

Design Load 1 has a safety factor of 4. Design Loads 2 and 3 have a safety factor of 1.

Cobra® Cable and Pipe Clamp (CPC)

Clear markings on each clamp — identify the catalogue number, min./max. outer cable diameters, EMT/Rigid trade sizes, CSA and UL stamps.

One size clamp works on **equal trade sizes for both EMT and rigid conduit.**

Works with **all depths of strut - 13/16 in. to 3-1/4 in.**

Two hooks on the same side — make the clamp easy to install and keep conduits and cable square with strut.

Rugged stirrup and wide saddle design — holds securely with no damage to conduit or cable.

Suggested design load — is 200 lb. (1/2 in. to 2 in.); 350 lb. (2-1/2 in. to 4 in.). Safety factor 4:1 (safety factor = ratio of ultimate load to the design load).

Heavy-duty 5/16 in. hex bolt — with multi-driver head (Robertson square, Phillips cross-recess and slot) provides full range of installation options. Virtually any tool will work!

Bright zinc finish clamps are electrogalvanized after fabrication for additional durability.



Ordering Information

Cat. No.	For EMT Trade Size	For EMT Conduit Trade Size	Cable O.D. Range (in.)	Static Load Limit (lb.) Safety Factor = 4	Quantity per Box
CPC050	1/2	1/2	0.650 – 0.890	200	100
CPC075	3/4	3/4	0.860 – 1.110	200	100
CPC100	1	1	1.100 – 1.400	200	100
CPC125	1 1/4	1 1/4	1.400 – 1.725	200	100
CPC150	1 1/2	1 1/2	1.690 – 1.980	200	50
CPC200	2	2	1.980 – 2.576	200	50
CPC250	2 1/2	2 1/2	2.576 – 3.060	350	25
CPC300	3	3	3.060 – 3.626	350	25
CPC350	3 1/2	3 1/2	3.626 – 4.126	350	25
CPC400	4	4	4.126 – 4.626	350	25

Standard material is commercial-grade, bright electrogalvanized steel. Stainless steel 316L is also available; add the suffix "SS6" to catalogue no. (i.e.: CPC050SS6).
Stainless steel bolt head is hexagonal and slotted only.
Now available in aluminum. Add suffix AL to catalogue number.

King Cobra® Cable and Pipe Clamp (LKCPC)



Superior design load capabilities for industrial applications:

350 lb. for 1/2 in. to 2 in. trade sizes; 450 lb. for 2-1/2 in. to 4 in. trade sizes.

- Durable one-piece, heavy-duty steel construction – designed specifically for use in industrial applications.
- Embosses on shoulder and hooks increase loading capability and durability, preventing deformation of clamps.
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection.
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage.
- Increased corrosion protection - GoldGalv® (yellow zinc dichromate) finish stands up to harsh industrial applications. Compared to conventional electrogalvanization.
- Parallel hook design keeps conduit and cable square with strut.
- Heavy-duty 5/16 in. hex bolt.
- One size clamp works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification.



Ordering Information

Cat. No.	For EMT Trade Size inches (mm)	For Rigid Conduit Trade Size Inches (mm)	Cable Range (in.)	Quantity per Box
LKCPC050	1/2	1/2	0.650-0.890	100
LKCPC075	3/4	3/4	0.860-1.110	100
LKCPC100	1	1	1.100-1.400	100
LKCPC125	1-1/4	1-1/4	1.400-1.725	50
LKCPC150	1-1/2	1-1/2	1.690-1.980	50
LKCPC200	2	2	1.980-2.576	50
LKCPC250	2-1/2	2-1/2	2.576-3.060	25
LKCPC300	3	3	3.060-3.626	25
LKCPC350	3-1/2	3-1/2	3.626-4.126	25
LKCPC400	4	4	4.126-4.626	25

Loading Data

Cat. No.	Design Load 1 Static Load Limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
Safety Factor = 4			
LKCPC050	200 (90)	50 (23)	50 (23)
LKCPC075	200 (90)	50 (23)	50 (23)
LKCPC100	200 (90)	50 (23)	50 (23)
LKCPC125	200 (90)	50 (23)	50 (23)
LKCPC150	200 (90)	50 (23)	50 (23)
LKCPC200	200 (90)	50 (23)	50 (23)
LKCPC250	350 (158)	50 (23)	50 (23)
LKCPC300	350 (158)	50 (23)	50 (23)
LKCPC350	350 (158)	50 (23)	50 (23)
LKCPC400	350 (158)	50 (23)	50 (23)

