



Maximize Returns

with Innovative System Solutions

Oil & Gas Industry

The oil and gas industry demands performance from components used in electrical infrastructure. Thomas & Betts manufactures quality products that reliably connect and protect electrical wiring systems around the world used for upstream, midstream and down-stream processes. Our innovative components and systems are designed for safety in classified hazardous locations to save you valuable installation time and stand up to the harshest, most corrosive environments.

T&B® Engineered Solutions

Innovative Solutions for the Oil & Gas Industry

Cable Tray

Industry Standard T&B High-Strength Aluminum Tray

- Ladder, ventilated or solid tray in copper-free aluminum
- Large-radius aluminum tray offers custom support for tanks and towers
- Extra-long span 30' (9.14 meters) ladder tray

H-Beam Siderail Profile

- Unique flange-out design for easy cable access
- Factory-punched square holes and carriage bolt combination allow for easy, one-tool installation

Special Rung Design

- Extra-wide rung maximizes load-bearing surface, minimizing deflection
- Continuous strut profile rung accepts standard strut accessories
- Alternating rungs facilitate installation of accessories from top or bottom

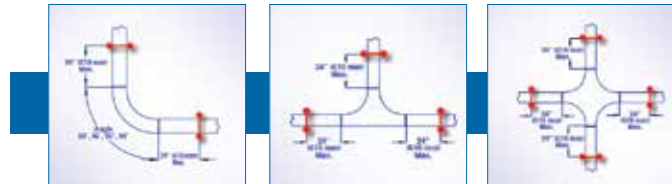


Support Savings

Extensive testing of all T&B® Cable Tray fittings demonstrated that, in addition to NEMA-VE2 recommendations, all fittings can be safely installed using either of these installation alternatives for support locations:

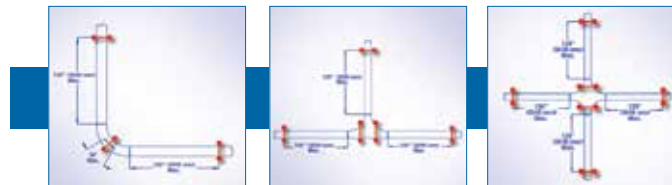
Eliminating Fitting Support

Helps maintain support at a maximum distance of 24" (610 mm) from the splice.



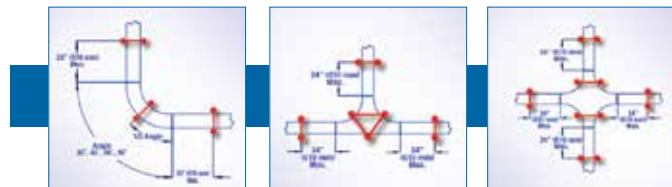
Extending Support Distance

Extends to a maximum distance of 120" (3,048 mm) from the splice.



NEMA-VE2

Dedicated fitting support, supports at a maximum distance of 24" (610 mm) from the splice.



Tested and approved for 6" siderail: Aluminum AH fittings for use with straight section series up to 56; aluminum AU fittings for use with straight section series up to 36; steel fittings for use with straight section series up to 46. A complete test report is available from your Thomas & Betts sales representative.

Splices

Over-Support Splice Adaptor

- Originally designed for modular aluminum system assemblies
- Supports are placed right under the joints on beams and struts
- Allows wider distribution of support, minimizing stress and deflection of the system
- No additional supports required



Snap-In Splice Plate™

- Snaps into place for easy alignment and quick, hands-free installation
- 7" (177.8 mm) wide or 9" (228.6 mm) expansion splice
- Supplied standard with each straight length



Super-Duty Splice Plate™

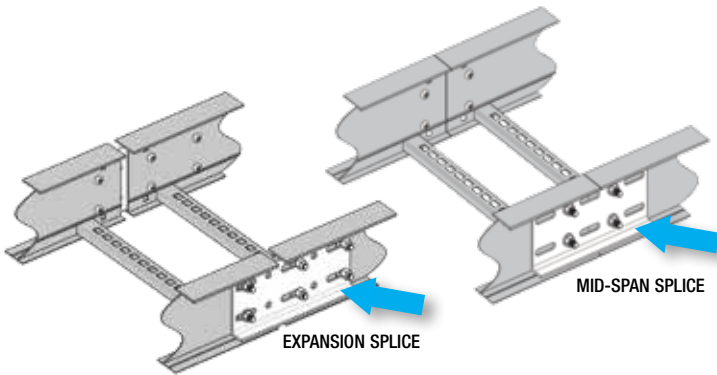
One splice place, two solutions

The new ultra-robust Super-Duty Splice Plate™ allows cost-efficient expansion by reducing the need for structural supports. It can also be used for sturdy mid-span splicing. Engineers, end users and contractors benefit from significant cost reductions without sacrificing quality or structural integrity.



- Enables use of fewer NEMA-recommended structural supports at the expansion joint, significantly reducing project material and labor costs
- Unique, reinforced design eliminates the need to drill and install additional hardware on the flange, saving time during installation
- Nylon washers make movement easier and reduce friction. No lubrication of the side rail required during installation or maintenance

Dual purpose for expansion or mid-span splicing of aluminum trays

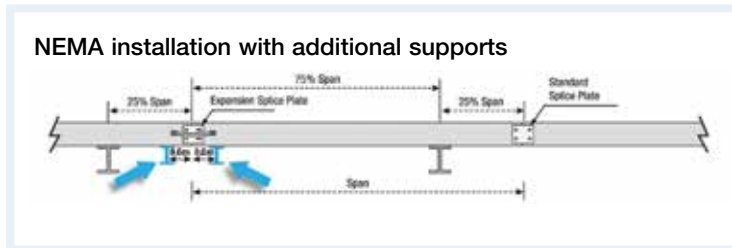


N.B.: For purposes of illustration, bonding jumper not shown but is required at expansion joints.

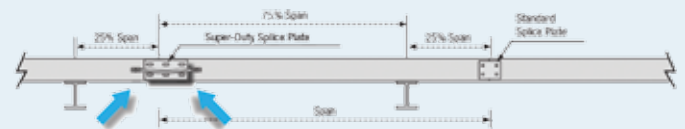
- Extra-wide (13"/330mm) high-strength, heat-treated aluminum
- Unique design maximizes rigidity, resistance and overall strength
- Tested and rated for 6" (152.4mm) aluminum side rails Series AH36-AH66
- Nylon washers make movement easier and reduce friction
- No hardware required for installation on flange
- Allows for true contraction/expansion under full loads
- No lubrication of the side rail required during installation or maintenance
- Plate is pre-drilled for both expansion and mid-span applications
- Supplied with all hardware required for both types of installation

Reduce Structural Supports And Save

Expansion Splicing With The Super-Duty Splice Plate™ eliminates the need for additional NEMA-recommended supports



No additional supports needed *with* super-duty splice plate™



Cat Number: ABW6SDP

The Super-Duty Splice Plate™ comes complete with all hardware required, for either expansion or mid-span splicing. Kit includes:

- 2 Super-Duty Splice Plates™
- 8 serrated flanged locknuts
- 12 ribbed-neck carriage bolts
- 12 nylon washers (spacers)
- 8 nylon insert locknuts



Helix™ Cable Tray Fitting

Go from horizontal to vertical

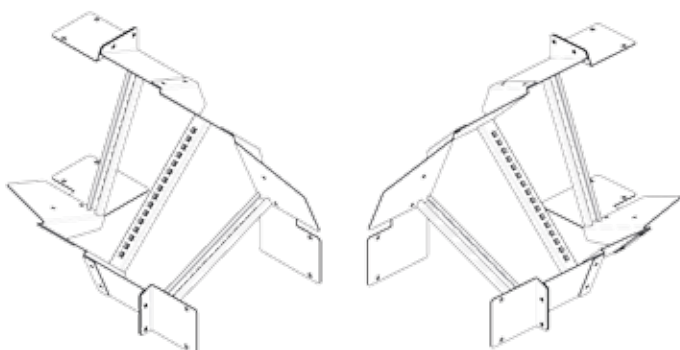
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient.

The latest evolution in cable tray fittings, the Helix™ fitting assembly was developed specifically for use in confined areas and 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



Helix™ Fitting Assembly — Right or left configurations



RIGHT TURN ASSEMBLY

LEFT TURN ASSEMBLY

- Ideally suited for confined spaces - no need to distance cable runs from wall to make transition
- Efficient cable protection in areas where conventional fittings will not fit
- Convenient right or left turn configurations
- Available in aluminum, pregalvanized steel and stainless steel; 12-inch and 24-inch widths, 6-inch siderails
- Delivered pre-assembled and ready to install; drastically reduces time spent configuring fittings on site
- BIM models available upon request

Helix™ Cable Tray Fitting — Delivered ready to install

CATALOG NUMBER	DESCRIPTION	DIRECTION
Aluminum		
AUF612LHVR	6-inch siderail, 12-inches wide	right turn
AUF612LHVL	6-inch siderail, 12-inches wide	left turn
AUF624LHVR	6-inch siderail, 24-inches wide	right turn
AUF624LHVL	6-inch siderail, 24-inches wide	left turn
Pregalvanized Steel		
SPF612LHVR	6-inch siderail, 12-inches wide	right turn
SPF612LHVL	6-inch siderail, 12-inches wide	left turn
SPF624LHVR	6-inch siderail, 24-inches wide	right turn
SPF624LHVL	6-inch siderail, 24-inches wide	left turn
Stainless Steel		
SSF612LHVR	6-inch siderail, 12-inches wide	right turn
SSF612LHVL	6-inch siderail, 12-inches wide	left turn
SSF624LHVR	6-inch siderail, 24-inches wide	right turn
SSF624LHVL	6-inch siderail, 24-inches wide	left turn



Supports should be positioned within 24 inches (600 mm) of each Helix™ fitting extremity.

T&B® Cable Tray Systems

Design Tools

It's now easier than ever to integrate T&B® Cable Tray product content into your designs. Access a range of file formats and content for specific software solutions using this link: <http://www.tnb.ca/en/cable-tray-design-tools/>



AUTODESK
REVIT

Autodesk® Revit® MEP – BIM Files

T&B® Cable Tray product content is now available for use in Building Information Modeling. BIM content, featured in Autodesk® Seek®, integrates seamlessly into projects using Autodesk® Revit®.

SmartPlant® 3D



SmartPlant® 3D by Intergraph

Intergraph's SmartPlant® 3D software is a comprehensive 3D modeling and visualization solution for project design.



Bentley®
Sustaining Infrastructure

Bentley® Raceway and Cable Management

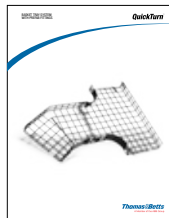
T&B® Cable Tray product content has been integrated into the latest version of Bentley® Raceway and Cable Management.



T&B® Cable Tray
CAD Library

T&B® Cable Tray CAD Library

Download 3D drawings for the complete range of T&B® aluminum ladder tray. 27,700 catalog numbers are available for download in .dwg and .step formats.



Other T&B® Cable Tray Solutions

Explore other available solutions, such as Light Duty Cable Tray and Non-Metallic Cable Tray, on our website at <http://www-public.tnb.com/pub/en/node/685>. For Quick Turn solutions, and additional resources.

Please ask your Thomas & Betts sales representative for a complete catalog of quality Thomas & Betts electrical products or visit us at www.tnb.com. For customer service, call 1-800-816-7809. For technical questions, call 1-888-862-3289.

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Thomas & Betts

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