

BROCHURE

# T&B<sup>®</sup> Cable Tray solutions

## Oil and gas industry



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# Maximize returns with innovative system solutions

The oil and gas industry demands performance from components used in electrical infrastructure. ABB Installation Products 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.



# Innovative and engineered solutions

## For the oil and gas industry

- 01 Ladder tray
- 02 Over-support splice adaptor
- 03 Snap-in splice plate™

### T&B® Cable Tray

Industry standard high-strength aluminum tray

- Ladder, ventilated or solid tray in copper-free aluminum
- Large-radius aluminum tray offers custom support for tanks and towers
- 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

### Strut rung design

- Extra-wide rung maximizes load-bearing surface, minimizing deflection
- Continuous strut profile rung accepts standard strut accessories

### Splices

Over-support splice adaptor

- Originally designed for modular aluminum system assemblies
- Supports are placed right under the joints on beams and strut
- 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



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01



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02



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03

# T&B® Cable Tray

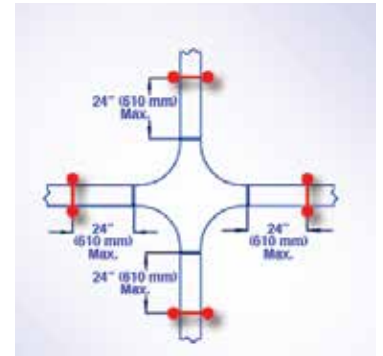
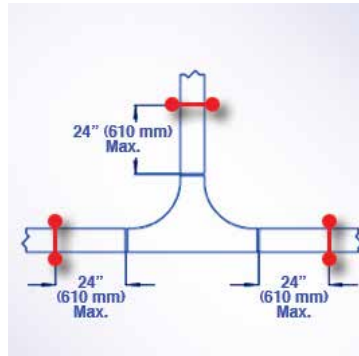
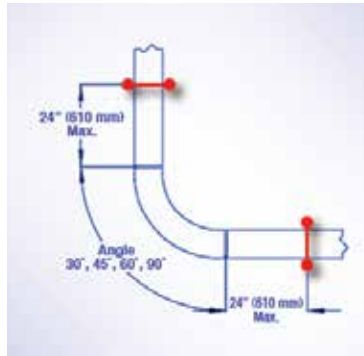
## Support savings

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 alternative for support locations.

Note: 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 ABB sales representative.

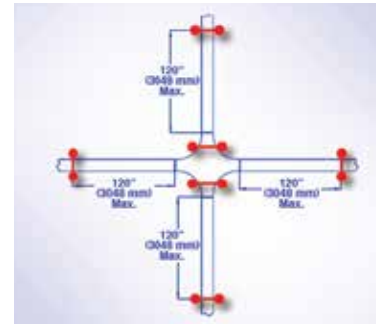
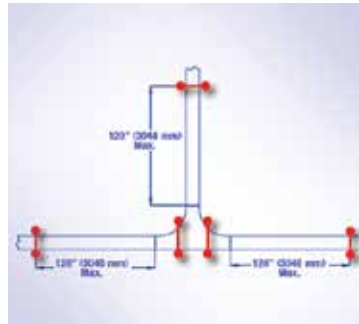
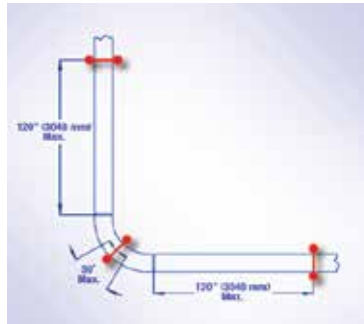
### Eliminating fitting support

- Helps maintain support at a maximum distance of 24"/610 mm from the splice



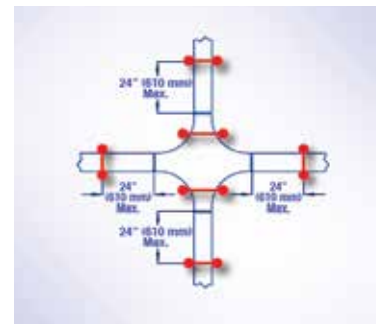
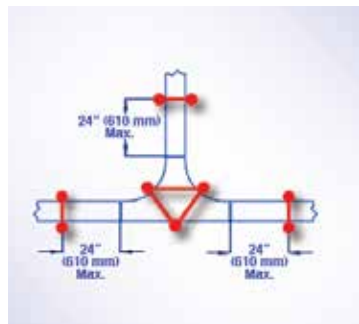
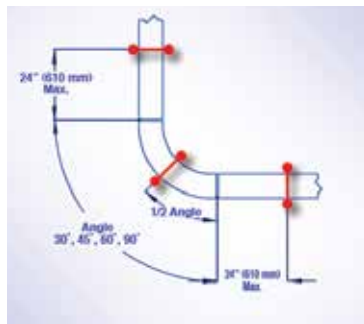
### Extending support distance

- 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



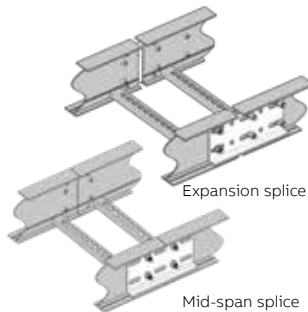
# Super-Duty Splice Plate™

## One splice plate, two solutions

The robust Super-Duty Splice Plate gives the installer a dual and cost-efficient solution. This splice plate can be used in thermal expansion and contraction applications without the NEMA required supports. It can also be used in mid-span applications giving designers and installers maximum flexibility on any project.



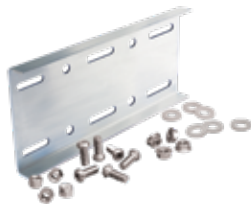
- Enables use of fewer NEMA-recommended structural supports at the expansion joint, significantly reducing project material and labor costs
- Unique, reinforced design eliminates the need to drill and install additional hardware on the flange, saving time during installation



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

- 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

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

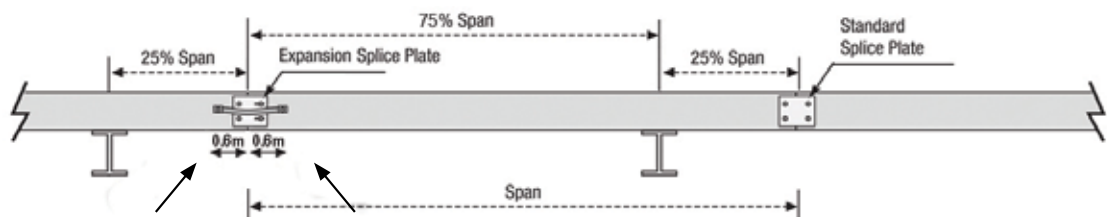


The Super-Duty Splice Plate comes complete with all hardware required, for either expansion or mid-span splicing. Kit includes:

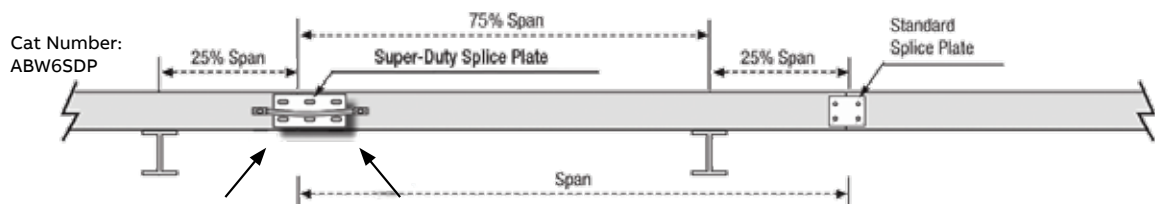
- 2 Super-Duty Splice Plates
- 12 ribbed-neck carriage bolts
- 8 nylon insert locknuts
- 8 serrated flanged locknuts
- 12 nylon washers (spacers)

### Reduce structural supports and save

Expansion splicing with the super-duty splice plate eliminates the need for additional NEMA-recommended supports



NEMA installation with additional supports



No additional supports needed with Super-Duty Splice Plate

Cat Number:  
ABW6SDP

# Helix™ cable tray fitting

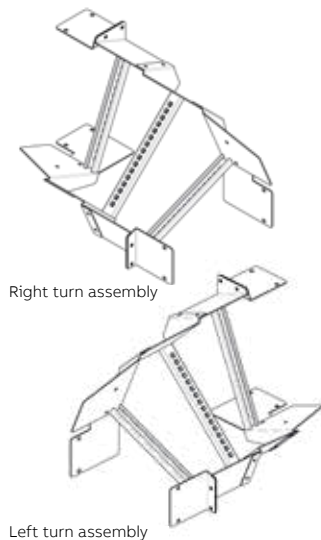
## Go from horizontal to vertical

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

- 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 configurations
- Available in aluminum, pre-galvanized steel, and stainless steel
- 6-inch siderails, 12-inch and 24-inch widths
- 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
<b>Aluminum</b>		
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
<b>Pre-galvanized steel</b>		
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
<b>Stainless steel</b>		
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/600mm 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: [tnb.ca/en/cable-tray-design-tools/](http://tnb.ca/en/cable-tray-design-tools/)



### 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® Raceway and Cable Management

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



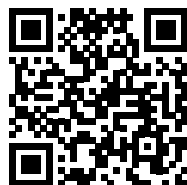
### T&B Cable Tray CAD Library

Download 3D drawings for the complete range of T&B Cable Tray. Numerous 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 [tnb.abb.com](http://tnb.abb.com)



### Taking cable above and beyond

Watch our video by scanning the QR code



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