Straight Lengths

Tray Bottom
Ladder, ventilated and solid trough

Ladder
Formed side rails 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).

Solid Trough
Solid sheet welded to steel side rails 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 A32.
3. Select nominal depth and width of tray based on cable loading. See sizing cable tray page A32.
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

<table>
<thead>
<tr>
<th>Material Prefix</th>
<th>Series</th>
<th>Side Rail Height (in.)</th>
<th>Width</th>
<th>Bottom Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP • Pregalvanized</td>
<td>1 • Series 1</td>
<td>3-5/8</td>
<td>06 • (6 in.)</td>
<td>L06 (6 in. rung spacing)</td>
<td>3 (3 meters)</td>
</tr>
<tr>
<td>SH • Hot-dipped galvanized after fabrication</td>
<td>1 • Series 1</td>
<td>3-5/8</td>
<td>09 • (9 in.)</td>
<td>L09 (9 in. rung spacing)</td>
<td>6 (6 meters)</td>
</tr>
<tr>
<td>SS • Stainless steel 316</td>
<td>1 • Series 1</td>
<td>3-5/8</td>
<td>12 • (12 in.)</td>
<td>LT12 (12 in. rung spacing)</td>
<td>144 (12 ft.)</td>
</tr>
<tr>
<td></td>
<td>2 • Series 2</td>
<td>3</td>
<td>18 • (18 in.)</td>
<td>**V (ventilated)</td>
<td>288 (24 ft.)</td>
</tr>
<tr>
<td></td>
<td>3 • Series 3</td>
<td>5</td>
<td>24 • (24 in.)</td>
<td>S (solid trough)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 • Series 4</td>
<td>6</td>
<td>30 • (30 in.)</td>
<td></td>
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<tr>
<td></td>
<td>5 • Series 5</td>
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<tr>
<td></td>
<td>6 • Series 6</td>
<td>8</td>
<td>42 • (42 in.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.
**Straight Section Number Selection**

<table>
<thead>
<tr>
<th>Material Prefix</th>
<th>Series</th>
<th>Side Rail Height</th>
<th>Width</th>
<th>Bottom Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP • Pregalvanized</td>
<td>1 • Series 1</td>
<td>3 • (3-5/8 in.)</td>
<td>06 • (6 in.)</td>
<td>L06 • 6 in. rung spacing</td>
<td>3 • (3 meters)</td>
</tr>
<tr>
<td>SH • Hot-dipped galvanized after fabrication</td>
<td></td>
<td></td>
<td>09 • (9 in.)</td>
<td>L09 • 9 in. rung spacing</td>
<td>144 • (12 ft.)</td>
</tr>
<tr>
<td>SS • Stainless steel 316</td>
<td></td>
<td></td>
<td>12 • (12 in.)</td>
<td>L12 • 12 in. rung spacing</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 • (18 in.)</td>
<td>V • Ventilated</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24 • (24 in.)</td>
<td>S • Solid trough</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 • (30 in.)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>36 • (36 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>42 • (42 in.)</td>
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<td></td>
</tr>
</tbody>
</table>

* For load CSA Class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

**Technical Specifications**

All calculations and data are based on 42 in. wide cable trays with rungs spaced 12 inches center to center 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 A91.

<table>
<thead>
<tr>
<th>Series</th>
<th>Support Span (Feet)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SP1-3</td>
<td>Load (lb./ft.) 200</td>
</tr>
<tr>
<td>SH1-3</td>
<td>Deflection (in.) 0.242</td>
</tr>
<tr>
<td>SS1-3</td>
<td>Deflection Factor 0.001</td>
</tr>
</tbody>
</table>
Straight Lengths

3-5/8 in. Straight Sections
Series 1-3
Ladder, ventilated and solid trough

Dimensions

<table>
<thead>
<tr>
<th>SP1-3, SH1-3, SS1-3</th>
<th>W (in.)</th>
<th>Wi (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 6</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>9 9</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>12 12</td>
<td>10.5</td>
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<tr>
<td>18 18</td>
<td>16.5</td>
<td></td>
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<tr>
<td>24 24</td>
<td>22.5</td>
<td></td>
</tr>
<tr>
<td>30 30</td>
<td>28.5</td>
<td></td>
</tr>
<tr>
<td>36 36</td>
<td>34.5</td>
<td></td>
</tr>
<tr>
<td>42 42</td>
<td>40.5</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Series</th>
<th>Dimensions</th>
<th>Side Rail Design Factors • 1 Pair</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1-3</td>
<td>0.750</td>
<td>lx = 0.804 in.⁴</td>
<td>NEMA 12A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sx = 0.444 in.³</td>
<td>CSA C/3 m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area = 0.488 in.²</td>
<td>UL UL cross sectional</td>
</tr>
<tr>
<td>SH1-3</td>
<td></td>
<td></td>
<td>Area : 0.40 in.²</td>
</tr>
<tr>
<td>SS1-3</td>
<td></td>
<td></td>
<td>Stainless steel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>only</td>
</tr>
</tbody>
</table>
Straight Lengths

4 in. Straight Sections
Series 1-4, 3-4
Ladder, ventilated and solid trough

Straight Section Number Selection

<table>
<thead>
<tr>
<th>Material Prefix</th>
<th>Series</th>
<th>Side Rail Height</th>
<th>Width</th>
<th>Bottom Type</th>
<th>Length *</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP • Pregalvanized</td>
<td>1 • Series 1</td>
<td>4 • (4 in.)</td>
<td>06 • (6 in.)</td>
<td>L06 • 6 in. rung spacing</td>
<td>3 • (3 meters)</td>
</tr>
<tr>
<td>SH • Hot-dipped galvanized after fabrication</td>
<td>3 • Series 3</td>
<td></td>
<td>09 • (9 in.)</td>
<td>L09 • 9 in. rung spacing</td>
<td>6 • (6 meters)</td>
</tr>
<tr>
<td>SS • Stainless steel 316</td>
<td></td>
<td></td>
<td>12 • (12 in.)</td>
<td>L12 • 12 in. rung spacing</td>
<td>144 • (12 ft.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 • (18 in.)</td>
<td>V • Ventilated **</td>
<td>288 • (24 ft.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24 • (24 in.)</td>
<td>S • Solid trough</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 • (30 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>36 • (36 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>42 • (42 in.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Series 1-4 not available in 6 meters or 288 in. lengths.
** For load CSA Class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 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 A91.

<table>
<thead>
<tr>
<th>Series</th>
<th>Support Span (Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SP1-4</td>
<td>Load (lb/ft.)</td>
</tr>
<tr>
<td></td>
<td>Deflection (in.)</td>
</tr>
<tr>
<td></td>
<td>Deflection Factor</td>
</tr>
<tr>
<td>SH1-4</td>
<td>Load (lb/ft.)</td>
</tr>
<tr>
<td></td>
<td>Deflection (in.)</td>
</tr>
<tr>
<td></td>
<td>Deflection Factor</td>
</tr>
</tbody>
</table>
Straight Lengths

4 in. Straight Sections
Series 1-4, 3-4
Ladder, ventilated and solid trough

Dimensions

<table>
<thead>
<tr>
<th>SP1-4, SH1-4, SS1-4</th>
<th>SP3-4, SH3-4, SS3-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>W (in.)</td>
<td>Wi (in.)</td>
</tr>
<tr>
<td>6</td>
<td>3.34</td>
</tr>
<tr>
<td>9</td>
<td>6.34</td>
</tr>
<tr>
<td>12</td>
<td>9.34</td>
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<td>18</td>
<td>15.34</td>
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<td>24</td>
<td>21.34</td>
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<td>30</td>
<td>27.34</td>
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<tr>
<td>36</td>
<td>33.34</td>
</tr>
<tr>
<td>42</td>
<td>39.34</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Series</th>
<th>Dimensions</th>
<th>Side Rail Design Factors • 1 Pair</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SH1-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS1-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP3-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SH3-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS3-4</td>
<td></td>
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</tr>
</tbody>
</table>

Series | Dimensions | Side Rail Design Factors • 1 Pair | Classifications |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SH1-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS1-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP3-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SH3-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS3-4</td>
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<td></td>
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</tbody>
</table>
Straight Lengths
5 in. Straight Sections
Series 2-5, 4-5, 5-5
Ladder, ventilated and solid trough

Straight Section Number Selection

<table>
<thead>
<tr>
<th>Material Prefix</th>
<th>Series</th>
<th>Side Rail Height</th>
<th>Width</th>
<th>Bottom Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP  • Pregalvanized</td>
<td>2 • Series 2</td>
<td>5 • (5 in.)</td>
<td>06 • (6 in.)</td>
<td>L06 • 6 in. rung spacing</td>
<td>3 • (3 meters)</td>
</tr>
<tr>
<td>SH  • Hot-dipped galvanized after fabrication</td>
<td>4 • Series 4</td>
<td>09 • (9 in.)</td>
<td>09 • 9 in. rung spacing</td>
<td>6 • (6 meters)</td>
<td></td>
</tr>
<tr>
<td>SS  • Stainless steel 316</td>
<td>5 • Series 5</td>
<td>12 • (12 in.)</td>
<td>L12 • 12 in. rung spacing</td>
<td>14 • (12 ft.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>18 • (18 in.)</td>
<td>V • Ventilated</td>
<td>288 • (24 ft.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24 • (24 in.)</td>
<td>S • Solid trough</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 • (30 in.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>36 • (36 in.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>42 • (42 in.)</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Technical Specifications
All calculations and data are based on 42 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 A91.

<table>
<thead>
<tr>
<th>Series</th>
<th>Support Span (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>SP2-5</td>
<td>Load (lb./ft.)</td>
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<td></td>
<td>Deflection (in.)</td>
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<tr>
<td></td>
<td>0.187</td>
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<td>Deflection Factor</td>
</tr>
<tr>
<td></td>
<td>0.0003</td>
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<td>SH2-5</td>
<td>Load (lb./ft.)</td>
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<td></td>
<td>Deflection (in.)</td>
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<td>Deflection Factor</td>
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<td>0.003</td>
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<tr>
<td>SS2-5</td>
<td>Load (lb./ft.)</td>
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<td>–</td>
</tr>
<tr>
<td></td>
<td>Deflection (in.)</td>
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<td>Deflection Factor</td>
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</table>
Straight Lengths
5 in. Straight Sections
Series 2-5, 4-5, 5-5
Ladder, ventilated and solid trough

Dimensions

<table>
<thead>
<tr>
<th>W (in.)</th>
<th>Wi (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>3.34</td>
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<td>9</td>
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<td>30</td>
<td>27.34</td>
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<td>36</td>
<td>33.34</td>
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<tr>
<td>42</td>
<td>39.34</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Series</th>
<th>Dimensions</th>
<th>Side Rail Design Factors • 1 Pair</th>
<th>Classifications</th>
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<tbody>
<tr>
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<tr>
<td>SS2-5</td>
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<td>SP4-5</td>
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<tr>
<td>SH4-5</td>
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<tr>
<td>SS4-5</td>
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<td>SP5-5</td>
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<tr>
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<tr>
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<table>
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<th>Classifications</th>
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<tbody>
<tr>
<td></td>
<td>NEMA</td>
<td>CSA</td>
<td>UL</td>
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<td>SP2-5, SH2-5, SS2-5, SP4-5, SH4-5, SS4-5, SP5-5, SH5-5, SS5-5</td>
<td>20A</td>
<td>D/6M</td>
<td>UL cross sectional Area: 0.70 in.²</td>
</tr>
<tr>
<td></td>
<td>20B</td>
<td>E/6M</td>
<td>UL cross sectional Area: 1.00 in.²</td>
</tr>
<tr>
<td></td>
<td>20C</td>
<td>Exceeds E/6M</td>
<td>UL cross sectional Area: 1.00 in.²</td>
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</tbody>
</table>
Straight Lengths

6 in. Straight Sections
Series 1-6, 3-6, 4-6
Ladder, ventilated and solid trough

Straight Section Number Selection

<table>
<thead>
<tr>
<th>Material Prefix</th>
<th>Series</th>
<th>Side Rail Height</th>
<th>Width</th>
<th>Bottom Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP • Pregalvanized</td>
<td>1 • Series 1</td>
<td>6 • (6 in.)</td>
<td>06 • (6 in.)</td>
<td>L06 • 6 in. rung spacing</td>
<td>3 • (3 meters)</td>
</tr>
<tr>
<td>SH • Hot-dipped galvanized after fabrication</td>
<td>3 • Series 3</td>
<td>9 • (9 in.)</td>
<td>09 • (9 in.)</td>
<td>L09 • 9 in. rung spacing</td>
<td>6 • (6 meters)</td>
</tr>
<tr>
<td>SS • Stainless Steel 316</td>
<td>4 • Series 4</td>
<td>12 • (12 in.)</td>
<td>12 • (12 in.)</td>
<td>L12 • 12 in. rung spacing</td>
<td>144 • (12 ft.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18 • (18 in.)</td>
<td>18 • (18 in.)</td>
<td>V • Ventilated **</td>
<td>288 • (24 ft.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24 • (24 in.)</td>
<td></td>
<td>S • Solid trough</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 • (30 in.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>36 • (36 in.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>42 • (42 in.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called - One-Piece found on pages A160 to A191 of this catalogue.

Technical Specifications

All calculations and data are based on 42 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 A91.

<table>
<thead>
<tr>
<th>Series</th>
<th>Support Span (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SP1-6</td>
<td>556</td>
</tr>
<tr>
<td>Load (lb./ft.)</td>
<td>0.122</td>
</tr>
<tr>
<td>Deflection (in.)</td>
<td>0.0002</td>
</tr>
<tr>
<td>SH1-6</td>
<td>833</td>
</tr>
<tr>
<td>Load (lb./ft.)</td>
<td>0.151</td>
</tr>
<tr>
<td>Deflection (in.)</td>
<td>0.0002</td>
</tr>
<tr>
<td>SS1-6</td>
<td>–</td>
</tr>
<tr>
<td>Load (lb./ft.)</td>
<td>–</td>
</tr>
<tr>
<td>Deflection (in.)</td>
<td>–</td>
</tr>
</tbody>
</table>

For Fittings consult pages A50 to A91.
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 |
| 42 | 39.34 |

Technical Specifications

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

<table>
<thead>
<tr>
<th>Series</th>
<th>Dimensions</th>
<th>Side Rail Design Factors • 1 Pair</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1-6</td>
<td><img src="image1" alt="Diagram" /></td>
<td>( I_x = 4.44 \text{ in.}^4 ) ( S_x = 1.39 \text{ in.}^2 ) Area = 0.874 in.(^2)</td>
<td>20A D/6M UL cross sectional Area : 0.70 in.(^2) Stainless steel only</td>
</tr>
<tr>
<td>SH1-6</td>
<td><img src="image2" alt="Diagram" /></td>
<td>( I_x = 5.373 \text{ in.}^4 ) ( S_x = 1.70 \text{ in.}^2 ) Area = 1.229 in.(^2)</td>
<td>20A E/6M UL cross sectional Area : 1.00 in.(^2) Stainless steel only</td>
</tr>
<tr>
<td>SS1-6</td>
<td><img src="image3" alt="Diagram" /></td>
<td>( I_x = 7.173 \text{ in.}^4 ) ( S_x = 2.250 \text{ in.}^2 ) Area = 1.471 in.(^2)</td>
<td>20C Exceeds E/6M UL cross sectional Area : 1.00 in.(^2) Stainless steel only</td>
</tr>
</tbody>
</table>
Straight Lengths

7 in. Straight Sections
Series 3-7
Ladder, ventilated and solid trough

Straight Section Number Selection

<table>
<thead>
<tr>
<th>Material Prefix</th>
<th>Series</th>
<th>Side Rail Height</th>
<th>Width</th>
<th>Bottom Type</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP • Pregalvanized</td>
<td>3 • Series 3</td>
<td>7 • (7 in.)</td>
<td>06 • (6 in.)</td>
<td>L06 • 6 in. rung spacing</td>
<td>3 • (3 meters)</td>
</tr>
<tr>
<td>SH • Hot-dipped galvanized after fabrication</td>
<td>09 • (9 in.)</td>
<td>L09 • 9 in. rung spacing</td>
<td>6 • (6 meters)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS • Stainless Steel 316</td>
<td>12 • (12 in.)</td>
<td>L12 • 12 in. rung spacing</td>
<td>144 • (12 ft.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18 • (18 in.)</td>
<td>V • Ventilated *</td>
<td>288 • (24 ft.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24 • (24 in.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 • (30 in.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>36 • (36 in.)</td>
<td>S • Solid trough</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>42 • (42 in.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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 A160 to A191 of this catalogue.

Technical Specifications

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<table>
<thead>
<tr>
<th>Series</th>
<th>Support Span (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SP3-7</td>
<td>Load (lb./ft.)</td>
</tr>
<tr>
<td></td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Deflection (in.)</td>
</tr>
<tr>
<td></td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Deflection Factor</td>
</tr>
<tr>
<td></td>
<td>–</td>
</tr>
</tbody>
</table>
Straight Lengths

7 in. Straight Sections
Series 3-7
Ladder, ventilated and solid trough

Dimensions

<table>
<thead>
<tr>
<th>SP3-7, SH3-7, SS3-7</th>
<th>W (in.)</th>
<th>Wi (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>Wi</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>3.34</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>6.34</td>
<td></td>
</tr>
<tr>
<td>12</td>
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<td>42</td>
<td>39.34</td>
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</tr>
</tbody>
</table>

Technical Specifications

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

Series          | Dimensions | Side Rail Design Factors • 1 Pair | Classifications                  |
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<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SP3-7</td>
<td>7.188</td>
<td></td>
<td>NEMA Exceeds 20C</td>
</tr>
<tr>
<td>SH3-7</td>
<td>7.188</td>
<td></td>
<td>CSA Exceeds E/6M</td>
</tr>
<tr>
<td>SS3-7</td>
<td>7.188</td>
<td>lx = 10.411 in.²</td>
<td>UL cross sectional Area : 1.50 in.²</td>
</tr>
</tbody>
</table>
<pre><code>                             | Sx = 2.820 in.³                | Stainless steel only            |
                             | Area = 1.54 in.²              |                                  |
</code></pre>