



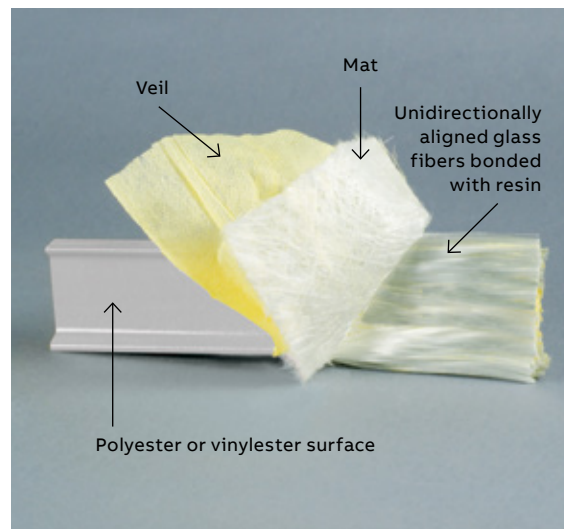
Nonmetallic - Cable tray

Overview

Why specify our cable tray?

Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. This tray is ideally suited to withstand the corrosive conditions inherent in the petroleum, mining, and fertilizer industries. In these applications, nonmetallic tray is exposed daily to wind, weather, and saltwater.

Nonmetallic cable tray gives you the load capacity of steel plus the inherent characteristics afforded by our pultrusion technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products.



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01 A surface veil is applied during the pultrusion process to ensure a resin rich surface for superior corrosion resistance as well as an ultraviolet exposure barrier.



Nonmetallic - Cable tray

Overview (continued)



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Table 1 – Typical properties of pultruded components gland

| Properties | Test method | Unit/value | Isophthalic Polyester | |
|----------------------------------|-------------|-----------------------|------------------------|------------|
| | | | Longitudinal | Transverse |
| Tensile strength | ASTM D638 | psi | 30,000 | 7,000 |
| Tensile modulus | ASTM D638 | psi x 10 ⁶ | 2.5 | 0.8 |
| Flexural strength | ASTM D790 | psi | 30,000 | 10,000 |
| Flexural modulus | ASTM D790 | psi x 10 ⁶ | 1.6 | 0.8 |
| Izod impact | ASTM D256 | ft.-lbs/in | 25 | 4 |
| Compressive strength | ASTM D695 | psi | 30,000 | 15,000 |
| Compressive modulus | ASTM D695 | psi x 10 ⁶ | 2.5 | 1.0 |
| Barcol hardness | ASTM D2583 | – | 50 | 45 |
| Shear strength | ASTM D732 | psi | 5,500 | 5,500 |
| Density | ASTM D1505 | lbs/in ³ | 0.065 | – |
| Coefficient of thermal expansion | ASTM D696 | in/in/°F | 5.0 x 10 ⁻⁶ | – |
| Water absorption | ASTM D570 | Max % | 0.5 | – |
| Dielectric strength | ASTM D149 | V/mil (vpm) | 200 | – |
| Flammability classification | UL94 | VO (both resins) | – | – |
| Flame spread | ASTM E-84 | 20 Max (both resins) | – | – |

T&B nonmetallic cable tray systems are manufactured from glass fiber-reinforced plastic shapes that meet the ASTM E-84 Class 1 flame rating and self-extinguishing requirements of ASTM D-635. A surface veil is applied during pultrusion to ensure a resin-rich surface and ultraviolet resistance.

Table 1 – Typical properties of pultruded components gland

| Properties | Ignition | Burning | Rating | Avg. Extent of Burning |
|-----------------------------------|------------|------------|--------|------------------------|
| Flame resistance (FTMS 406-2023) | 75 seconds | 75 seconds | – | – |
| Intermittent flame test (HLT- 15) | – | – | 100 | – |
| Flammability test (ASTM D635) | – | 5 seconds | – | 15mm |

Technical information

Corrosion guide

The information shown in this corrosion guide is based on full immersion laboratory tests and data generated from resin manufacturers. It should be noted that in some of the environments listed, splashes and spills may result in a more corrosive situation than indicated due to the evaporation of water. Regular wash down is recommended in these situations.

Chemical resistance

| Chemical environment | 75°F (24°C) | 160°F° (71°C) |
|-------------------------------|----------------|--------------------|
| Acetic Acid 5% | FR-P | FR-P |
| Acetic Acid 25% | FR-P | FR-VE-210° (*) |
| Aluminum Potassium Sulfate 5% | FR-P | FR-P |
| Ammonium Hydroxide 10% | FR-P | FR-VE-150° |
| Ammonium Nitrate | FR-P | FR-P |
| Benzenesulfonic Acid 5% | FR-P | FR-P |
| Calcium Chloride | FR-P | FR-P |
| Carbon Tetrachloride | FR-VE | FR-VE-100° (*) |
| Chlorine Dioxide 15% | FR-P | FR-VE-150° (*) |
| Chromic Acid 5% | FR-P | FR-VE-150° (*call) |
| Copper Sulfate | FR-P | FR-P |
| Diesel Fuel No. 1 | FR-P | FR-P |
| Diesel Fuel No. 2 | FR-P | FR-P |
| Ethylene Glycol | FR-P | FR-P |
| Fatty Acids 100% | FR-P | FR-P |
| Ferrous Sulfate | FR-P | FR-P |
| Fluosilicic Acid 0-20% | FR-VE | FR-VE (call) |
| Hydrochloric Acid 1% | FR-P | FR-P |
| Hydrochloric Acid 15% | FR-P | FR-VE-180° (*) |
| Hydrochloric Acid 37% | FR-P | FR-VE-150° (*) |
| Hydrogen Sulfide | FR-P-140° | FR-VE-210° |
| Kerosene | FR-P | FR-P |
| Magnesium Chloride | FR-P | FR-P |

| Chemical environment | 75°F (24°C) | 160°F° (71°C) |
|---------------------------|----------------|----------------|
| Methyl Alcohol 10% | FR-P | FR-VE-150° (*) |
| Naphtha | FR-P | FR-P |
| Nitric Acid 5% | FR-P | FR-P |
| Nitric Acid 20% | FR-VE | FR-VE-120° (*) |
| Phosphoric Acid 10% | FR-P | FR-P |
| Phosphoric Acid 30% | FR-P | FR-P |
| Phosphoric Acid 85% | FR-P | FR-P |
| Sodium Bicarbonate 10% | FR-P | FR-P |
| Sodium Bisulfate | FR-P | FR-P |
| Sodium Carbonate | FR-P | FR-VE |
| Sodium Chloride | FR-P | FR-P |
| Sodium Hydroxide 1-50% | FR-VE | FR-VE-120° (*) |
| Sodium Hypochlorite 5% | FR-P | FR-VE-120° (*) |
| Sodium Nitrate | FR-P | FR-P |
| Sodium Silicate | FR-P | FR-VE-210° (*) |
| Sodium Sulfate | FR-P | FR-P |
| Sulfuric Acid 0-30% | FR-P | FR-P |
| Sulfuric Acid 30-50% | FR-VE | FR-VE |
| Sulfuric Acid 50-70% | FR-VE | FR-VE-180° (*) |
| Trisodium Phosphate 25% | FR-P | FR-VE-210° (*) |
| Trisodium Phosphate - All | FR-VE | FR-VE-210° (*) |
| Water, Distilled | FR-P | FR-P |

Symbols:

FRP - Polyester fire-retardant

FRVE - Vinyl Ester fire-retardant

All data represents the best available information and is believed to be correct. The data should not be construed as a warranty of performance for that product as presented in these tables. User tests should be performed to determine suitability of service if there is any doubt or concern. Such variables as concentration, temperature, time of exposure and combined chemical effects of mixtures of chemicals make it impossible to specify the exact suitability of fiber-reinforced plastics in all environments. ABB will be happy to supply material samples for testing. These recommendations should only be used as a guide, and ABB does not take responsibility for design or suitability of materials for service intended. In no event will ABB be liable for any consequential or special damages for any defective material or workmanship including, without limitation, labor charges or other expenses or damage to property resulting from loss of materials or profits or increased expenses of operations.

Technical information

CSA and NEMA loading classes

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.

Selection process

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.

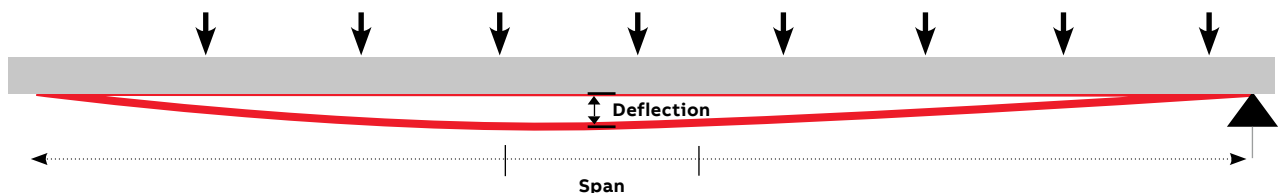
Table 1 – Span/load class designation – USA

| Load | | 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 1 – Span/load class designation – CANADA

| Load | | Span m (ft.) | | | | | | | |
|------|---------|--------------|-----------|-----------|----------|----------|------------|----------|---|
| kg/m | (lb/ft) | 1.5 (5) | 2.0 (6.5) | 2.5 (8.2) | 3.0 (10) | 4.0 (13) | 5.0 (16.4) | 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 | – | – | – | – |



Loading capacity

Cable loads

The cable load is the total weight, expressed in (lb/ft.), of all the cables that will be placed in the cable tray.

Snow loads

Depending on the area, snowfall could indicate an additional design load. If snowfall is a factor and the tray has a solid cover in outdoor installations, a minimum load of 5 lb (2.27kg) per square foot should be used.

Ice loads

If a cable tray system is subject to icing conditions, usually only the top surface or cover and the windward side will be coated with any significant amount. It is generally assumed that ice weighs 57 lb (25.85kg) per cubic foot.

Wind loads

All outdoor cable tray installations should factor in wind loads, especially the pressure exerted on side rails of ladder trays. There have also been instances of strong winds lifting covers off trays, which can be minimized with the use of wraparound cover clamps.

Concentrated loads

A concentrated static load is not included in Table 1 (following page). 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/meter (pounds), using the following formula, and added to the static weight of cable in the tray:

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

This combined load may be used to select a suitable load/span designation. If the combined load exceeds the working load shown on the following page, the manufacturer should be consulted.

Effect of temperature

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on table 2.

Table 2 – Effect of temperature

| Temperature | | Approximate % of strength | |
|-------------|------|---------------------------|------------|
| (°C) | (°F) | Isophthalic polyester | Vinylester |
| 23.8 | 75 | 100 | 100 |
| 37.7 | 100 | 90 | 100 |
| 51.6 | 125 | 78 | 100 |
| 65.5 | 150 | 68 | 90 |
| 79.4 | 175 | 60 | 90 |
| 93.3 | 200 | 52 | 75 |

NEMA Standard 8-10-1986.

If unusual temperature conditions exist, the manufacturer should be consulted.

Technical information

Thermal contraction and expansion

It is important that thermal contraction and expansion be considered when installing cable tray systems. The length of the straight cable tray runs and the temperature differential govern the number of expansion splice plates required (see Table 1 below).

01 Typical cable tray installation

The cable tray should be anchored at the support nearest to its midpoint between the expansion splice plates and secured by expansion guides at all other support locations (see diagram 01). The cable tray should be permitted longitudinal movement in both directions from that fixed point.

Accurate gap setting at the time of installation is necessary for the proper operation of the expansion splice plates. The following procedure should assist the installer in determining the correct gap (see Figure 1):

1. Plot the highest expected tray temperature on the maximum temperature line.
2. Plot the lowest expected tray temperature on the minimum temperature line.
3. Draw a line between the maximum and minimum points.
4. Plot the tray temperature at the time of installation to determine the gap setting.

Figure 1 - Proper gap settings

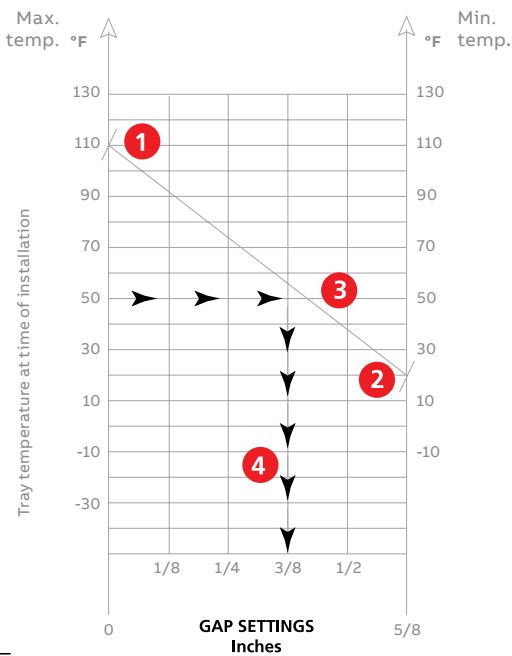
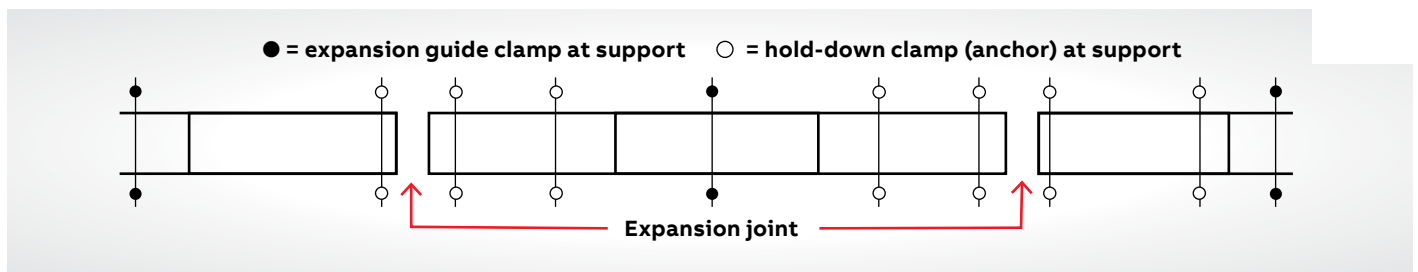


Table 1 - Expansion or contraction for various temperature differences

| Temperature differential | | Max. distance between expansion connector* for 1" (25.4mm) expansion | | Max. distance between expansion connector* for 5/8" (15.9mm) expansion | |
|--------------------------|-----|--|-------|--|-------|
| °F | °C | (ft.) | (m) | (ft.) | (m) |
| 14 | 25 | 667 | 203.3 | 417 | 127.1 |
| 28 | 50 | 333 | 101.5 | 208 | 63.3 |
| 42 | 75 | 222 | 67.6 | 139 | 42.3 |
| 56 | 100 | 167 | 50.9 | 104 | 31.7 |
| 70 | 125 | 133 | 40.5 | 83 | 25.2 |
| 83 | 150 | 111 | 33.8 | 69 | 21 |
| 97 | 175 | 95 | 28.9 | 59 | 17.9 |

NOTE: These ratings are also used in Mexico.

01



Technical information

Installation guidelines

Installation of T&B nonmetallic cable tray should be made in accordance with the standards set by the NEMA VE2 publication and CSA standards.

Always observe common safety practices when assembling tray and fittings. Installations generally require some field cutting. Dust created during fabrication presents no serious health hazard, but skin irritation may be experienced by some workers.

Operators of saws and drills should wear masks, long-sleeve shirts or coveralls.

Fabrication with nonmetallic cable tray is relatively easy and comparable to working with wood. Ordinary hand tools may be used in most cases.

Avoid excessive pressure when sawing or drilling. Too much force can rapidly dull tools and also produce excessive heat, which softens the bonding resin in the nonmetallic cable tray, resulting in a ragged edge rather than a clean-cut edge.

Field cutting is simple and can be accomplished with a circular power saw with an abrasive cut-off wheel (masonry type) or hack saw (24 to 32 teeth per inch).

Drill nonmetallic as you would drill hardwood. Standard twist drills are more than adequate. Any surface that has been drilled, cut, sanded or otherwise broken must be sealed with a compatible resin. Carbide-tipped saw blades and drill bits are recommended when cutting large quantities.

Support the nonmetallic cable tray material firmly during cutting operations to keep material from shifting, which may cause chipping at the cut edge.

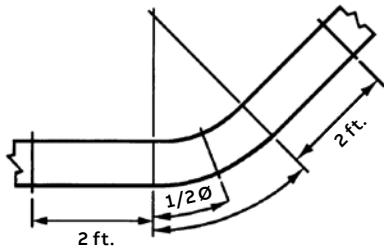
Each tray section length should be equal to or greater than the support span. When possible, the splice should be located at quarter span.

Fittings should be supported as per NEMA VE2.

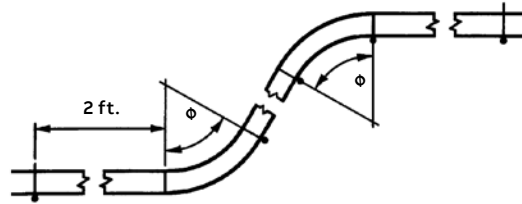
Technical information

Cable tray support locations

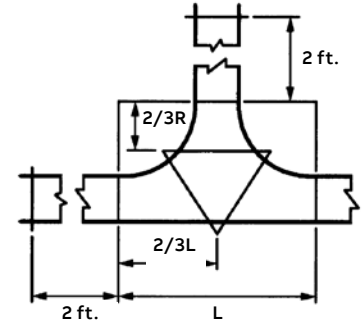
Horizontal elbow



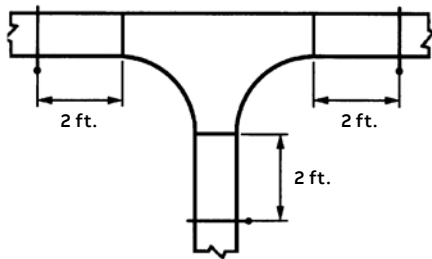
Vertical elbow



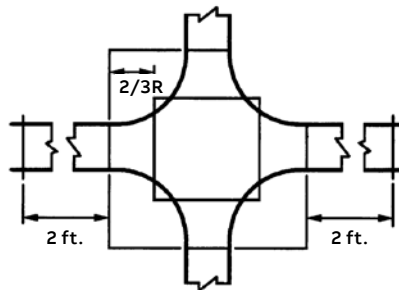
Horizontal tee



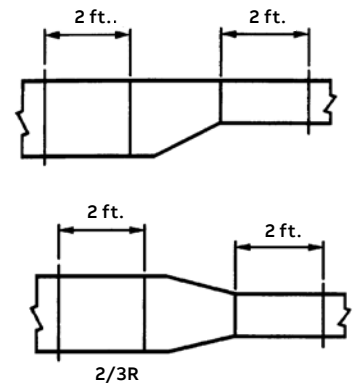
Horizontal wye



Horizontal cross



Horizontal reducer



*NOTE: $\phi = 30^\circ, 45^\circ, 60^\circ,$
 90° (degree of fitting)

FRP Cable Tray specifications

External revision 1

*Dimension
Conversion Table:

| | |
|-------|-------------|
| 2" | = 50.8mm |
| 3" | = 76.2mm |
| 4" | = 101.6mm |
| 5" | = 127mm |
| 7" | = 177.8mm |
| 6" | = 152.4mm |
| 8" | = 203.2mm |
| 9" | = 228.6mm |
| 9.25" | = 235mm |
| 12" | = 304.8mm |
| 18" | = 355.6mm |
| 18.5" | = 470mm |
| 24" | = 457.2mm |
| 30" | = 762mm |
| 36" | = 914.4mm |
| 42" | = 1,066.8mm |

Section 1 - Acceptable manufacturers

- 1.01** Cable tray system will be made of straight sections, fittings and accessories as defined in the latest CSA/NEMA standards publication.
- 1.02** All manufacturing practices will be in accordance with CSA/NEMA.
- 1.03** Cable trays will be by ABB, or approved CSA/NEMA member.

Section 2 - Cable tray design

- 2.01** Straight section structural elements; side rails, rungs and splice plates shall be pultruded from glass fiber reinforced polyester or vinylester resin.
- 2.02** Pultruded shapes will be constructed with a surface veil to ensure a resin-rich and ultravioletresistant surface.
- 2.03** Pultruded shapes shall meet the ASTM E-84 Class 1 flame rating and self-extinguishing requirements of ASTM D-635.

Section 3 - Construction

- 3.01** Straight section lengths will be 120" (10 ft. (3.05m)) or 240" (20 ft. (6.10m)) standard.
- 3.02** Side rails will be inward "C" configuration and be predrilled to accept splice plates.
- 3.03** Overall heights shall be 8, 6, 4 or 3" (*mm) respectively.
- 3.04** Loading depths for cable tray systems shall be 7, 5, 3 or 2" (*mm) as per CSA/NEMA tolerances.

- 3.05** Loading classifications and test specimens shall be per CSA/NEMA.

- 3.06** Rung spacing shall be 6, 9.25, 12 or 18.5" (*mm)

Section 4 - Dimensions

- 4.01** All fittings shall be of mitered design type with a minimum 3" (76.2mm) tangent following the radius.
- 4.02** All fittings shall have a nominal 9.25" rung spacing.
- 4.03** Width (usable inside tray width) shall be 6, 9, 12, 18, 24, 30 or 36" (*mm).
- 4.04** Outside width shall not exceed inside width by more than a total of 2" (50.8mm).
- 4.05** Straight and expansion splice plates will be of stainless steel or fiberglass design with an eight-bolt pattern in 5" (127mm) fill systems and four-bolt pattern for 3, 4, 6 and 8" tray depths.
- 4.06** Dimension tolerances will be per CSA/NEMA.
- 4.07** Cable tray must have integral connection between side rails and rungs consisting of nonmetallic mechanical fasteners and adhesive bonding.

Nonmetallic - Cable tray

Straight lengths

Applications

Nonmetallic cable tray systems

Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry – subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater.

Nonmetallic cable tray systems have stood up to these challenges.



Selection guide

1. Nonmetallic cable tray system.
2. Select the correct T&B series cable tray using the load data for straight sections found on page 330-334.
3. Select the resin required. Refer to corrosion guide on page 321 of the technical information section for the effect of environmental conditions on the desired material. For the effective temperature range, see page 323 of the same section.
4. Select the rung spacing required to properly support cables in tray.
5. Select the desired width in inches.
6. Select the straight section length in inches.

Straight fittings number selection

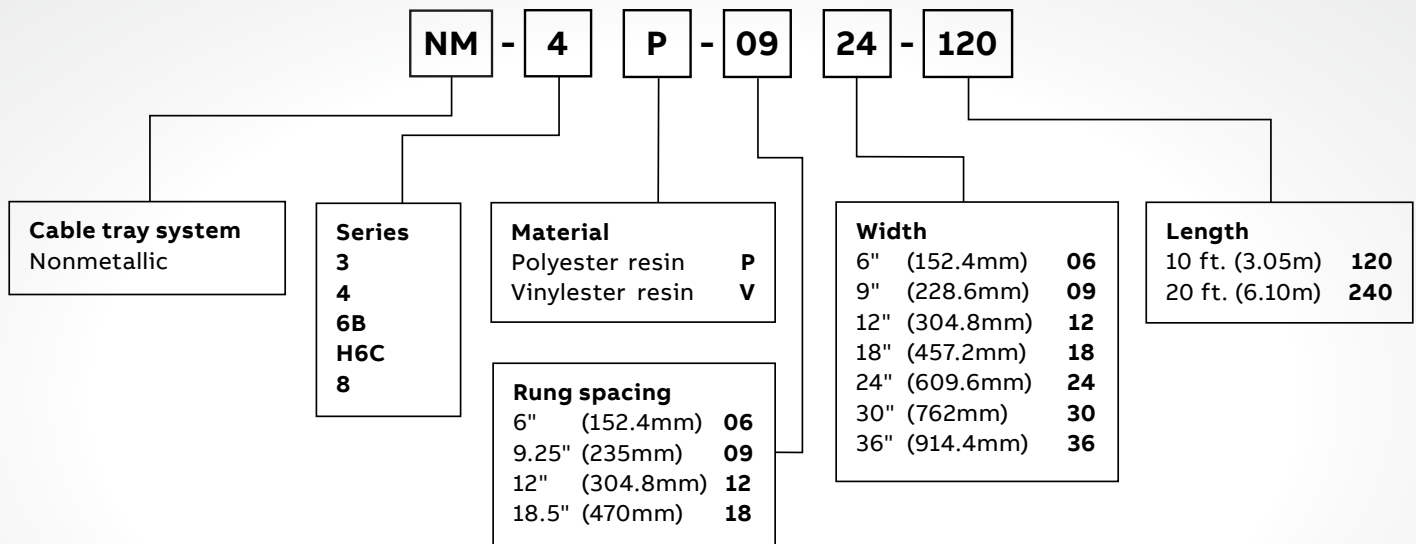
To order

To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalog number.

Example:

- NM-4P0924-120 for
- 4" (101.6mm) side rail, polyester resin
- 9" (228.6mm) rung spacing
- 24" (609.6mm) wide, 120" (10 ft. (36.58m)) length

NOTE: One pair of nonmetallic splice plates with SS6 hardware included with each length. For other types of splice plates, see pages 353-355.



Nonmetallic - Cable tray straight lengths

3" (76.2mm) Straight sections - Series 3



Splice plates

One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

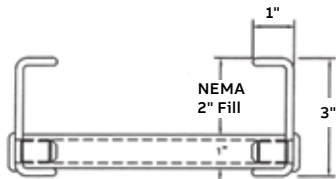
Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading

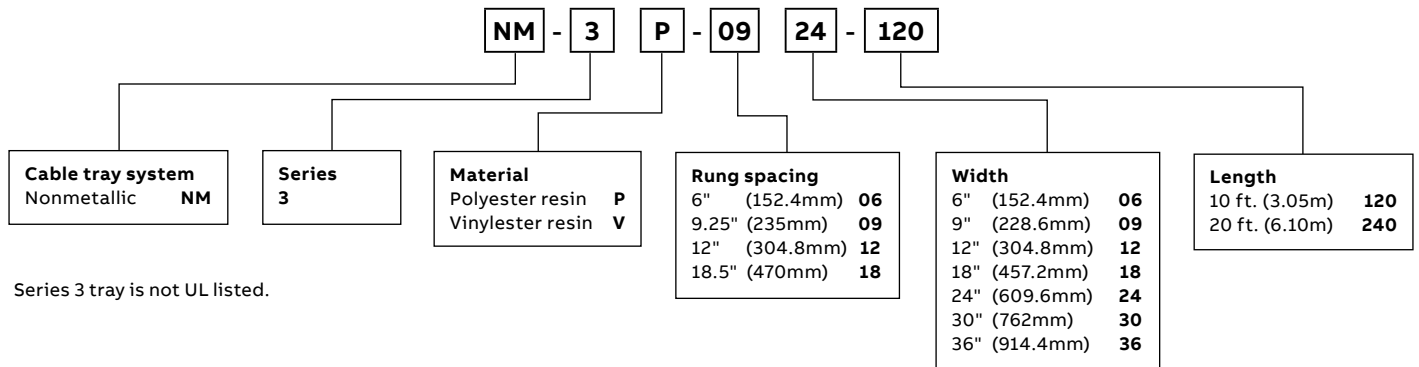
- CSA load class: E/6M
- NEMA 8C

3" (76.2mm) Straight sections – Series 3: Loading - NEMA 8C

| Series | Safety Factor | Support span ft. (m) | | | | | |
|--|------------------|----------------------|------------|-------------|-------------|-------------|--------|
| | | 6' (1.83m) | 8' (2.44m) | 10' (3.05m) | 12' (3.66m) | 14' (4.27m) | |
| Side rail height: 3" (76.2mm) (2" (50.8mm) loading depth) | Load (lb)/ft.) | 1.5 | 257 | 145 | 93 | 64 | 47 |
| | Load (kg)/m) | 1.5 | 382.46 | 215.78 | 138.4 | 95.24 | 69.94 |
| | Deflection (in.) | 1.5 | 1.5 | 2.7 | 4.2 | 6.1 | 8.2 |
| | Deflection (mm) | 1.5 | 38.1 | 68.58 | 106.68 | 154.94 | 208.28 |
| | K factor | 1.5 | 0.006 | 0.019 | 0.046 | 0.095 | 0.175 |



Straight section number selection



Nonmetallic - Cable tray straight lengths

4" (101.6mm) Straight sections - Series 4



Splice plates

One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

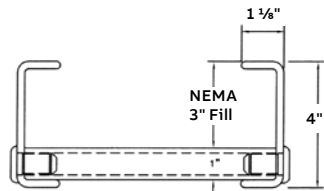
Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading

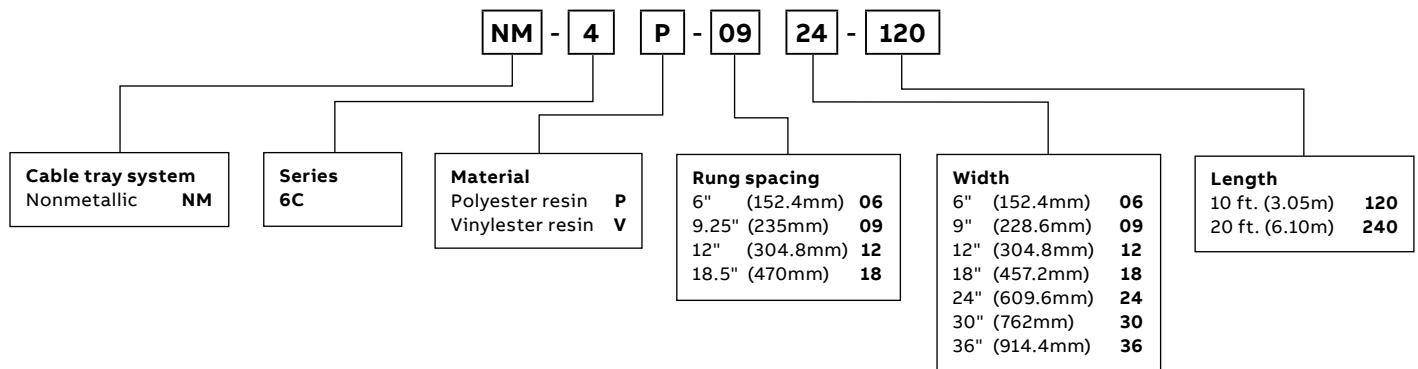
- CSA load class: E/6M
- NEMA 12C

4" (101.6mm) Straight sections - Series 4: Loading - NEMA 12C

| Series | Safety Factor | Support span ft (m) | | | | | |
|---|------------------|---------------------|----------------|----------------|----------------|----------------|--------|
| | | 10' (3.05m) | 12' (3.66m) | 14' (4.27m) | 16' (4.88m) | 18' (5.49m) | |
| Side rail height: 4" (101.6mm) (3" (76.2mm) loading depth) | Load (lb)/ft.) | 1.5 | 157 | 109 | 80 | 61 | 48 |
| | Load (kg)/m) | 1.5 | 71.21 | 49.44 | 36.29 | 27.67 | 21.77 |
| | Deflection (in.) | 1.5 | 2.6 | 3.7 | 5.0 | 6.5 | 8.2 |
| | Deflection (mm) | 1.5 | 66.04 | 93.98 | 127 | 165.1 | 208.28 |
| | K factor | 1.5 | 0.017 | 0.034 | 0.063 | 0.107 | 0.171 |



Straight section number selection



Nonmetallic - Cable tray straight lengths

6" (152.4mm) Straight sections - Series 6



Splice plates

One pair of nonmetallic splice plates with stainless hardware included.

Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

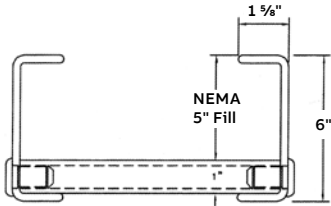
Loading

- CSA load class: E/6M
- NEMA 20B

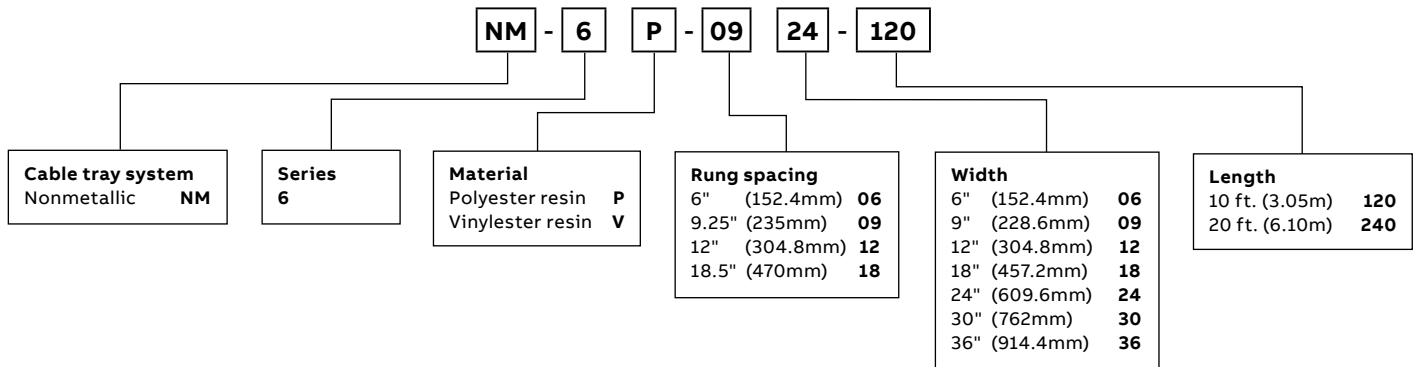
6" (152.4mm) Straight sections - Series 6B: Loading - NEMA 20B

| Series | Safety Factor | Support span ft. (m) | | | | | |
|--------|------------------|----------------------|----------------|----------------|----------------|----------------|--------|
| | | 12' (3.66m) | 14' (4.27m) | 16' (4.88m) | 18' (5.49m) | 20' (6.10m) | |
| 6B | Load (lb)/ft.) | 1.5 | 254 | 186 | 143 | 113 | 91 |
| | Load (kg)/m) | 1.5 | 115.21 | 84.37 | 64.86 | 51.26 | 41.28 |
| | Deflection (in.) | 1.5 | 2.2 | 3.0 | 3.9 | 5.0 | 6.1 |
| | Deflection (mm) | 1.5 | 55.88 | 76.2 | 99.06 | 127 | 154.94 |
| | K factor | 1.5 | 0.009 | 0.016 | 0.027 | 0.044 | 0.067 |

Side rail height: 6" (152.4mm)
5" (127mm) loading depth



Straight section number selection



Nonmetallic - Cable tray straight lengths

6" (152.4mm) Straight sections - Series H6C



Splice plates

One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

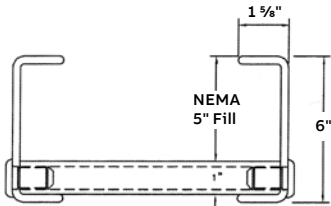
Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading

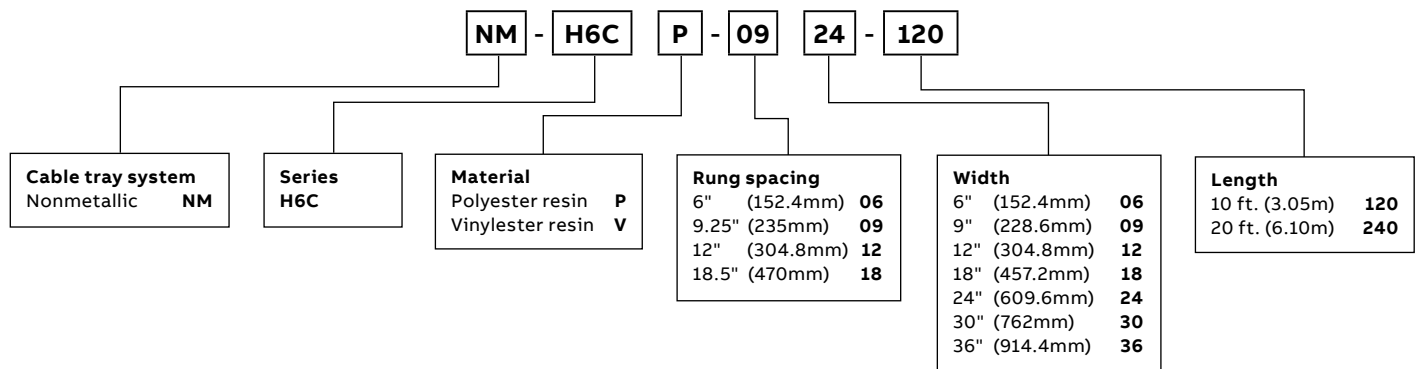
- CSA load class: E/6M
- NEMA 20C

6" (152.4mm) Straight sections - Series H6C: Loading - NEMA 20C-S.F.2.0

| Series | Safety Factor | Support span ft. (m) | | | | | |
|--|-------------------------|----------------------|----------------|----------------|----------------|----------------|--------|
| | | 12' (3.66m) | 14' (4.27m) | 16' (4.88m) | 18' (5.49m) | 20' (6.10m) | |
| Side rail height: 6" (152.4mm) (5" (127mm) loading depth) | Load (lb)/ft.) | 1.5 | 386 | 283 | 217 | 171 | 139 |
| | Load (kg)/m) | 1.5 | 175.09 | 128.37 | 98.43 | 77.56 | 63.05 |
| | Deflection (in.) | 1.5 | 3.1 | 4.2 | 5.5 | 6.9 | 8.6 |
| | Deflection (mm) | 1.5 | 78.74 | 106.68 | 139.7 | 175.26 | 218.44 |
| | K factor | 1.5 | 0.008 | 0.015 | 0.025 | 0.040 | 0.062 |
| | Load (lb)/ft.) | 2.0 | 289 | 212 | 163 | 129 | 104 |
| | Load (kg)/m) | 2.0 | 131.09 | 96.16 | 73.94 | 58.51 | 47.17 |
| | Deflection (in.) | 2.0 | 2.3 | 3.1 | 4.1 | 5.2 | 6.4 |
| | Deflection (mm) | 2.0 | 58.42 | 78.74 | 101.6 | 132.08 | 162.56 |
| | K factor | 2.0 | 0.008 | 0.015 | 0.025 | 0.040 | 0.062 |



Straight section number selection



Nonmetallic - Cable tray straight lengths

8" (203.2mm) Straight sections - Series 8



Splice plates

One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

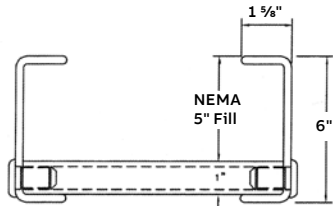
Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading

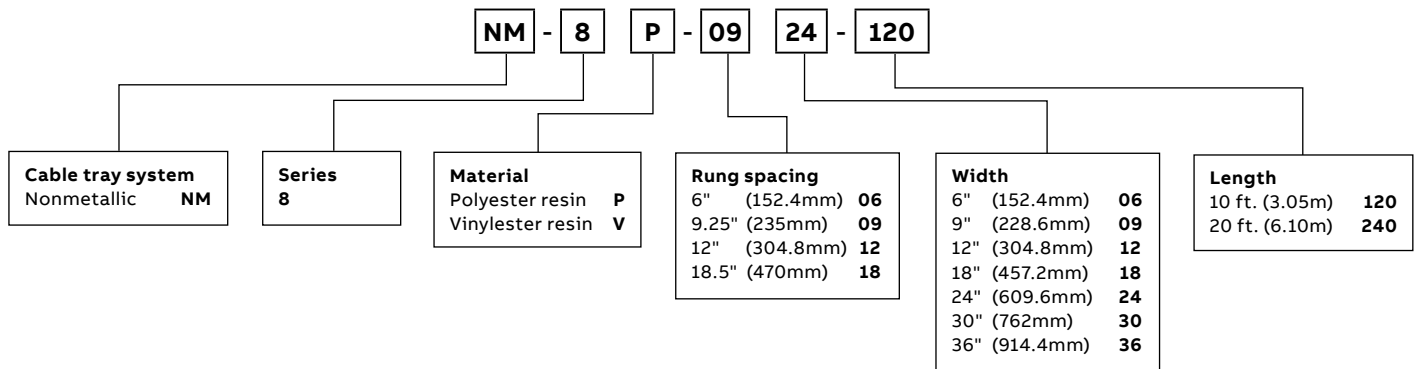
- CSA load class: E/6M
- NEMA 20C

8" (203.2mm) Straight sections – Series 8: Loading - NEMA 20C

| | | Support span ft. (m) | | | | | |
|--|-------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|
| Series | | Safety Factor | 14' (4.27m) | 16' (4.88m) | 18' (5.49m) | 20' (6.10m) | 22' (6.10m) |
| Side rail height: 6" (152.4mm) (5" (127mm) loading depth) | Load (lb)/ft.) | 1.5 | 358 | 358 | 353 | 297 | 253 |
| | Load (kg)/m) | 1.5 | 532.76 | 532.76 | 525.32 | 441.99 | 376.5 |
| | Deflection (in.) | 1.5 | 2.3 | 4.0 | 6.3 | 8.1 | 10.1 |
| | Deflection (mm) | 1.5 | 58.42 | 101.6 | 160.02 | 205.74 | 256.54 |
| | K factor | 1.5 | 0.006 | 0.011 | 0.018 | 0.027 | 0.040 |

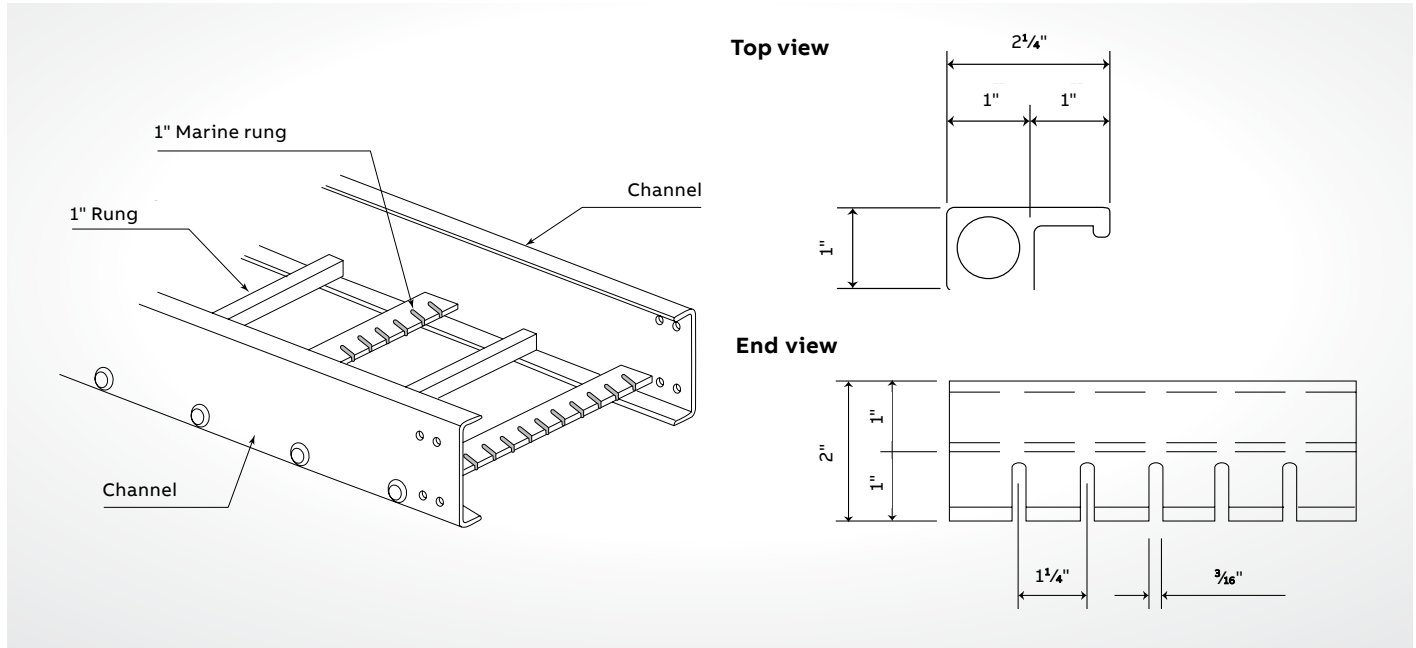


Straight section number selection

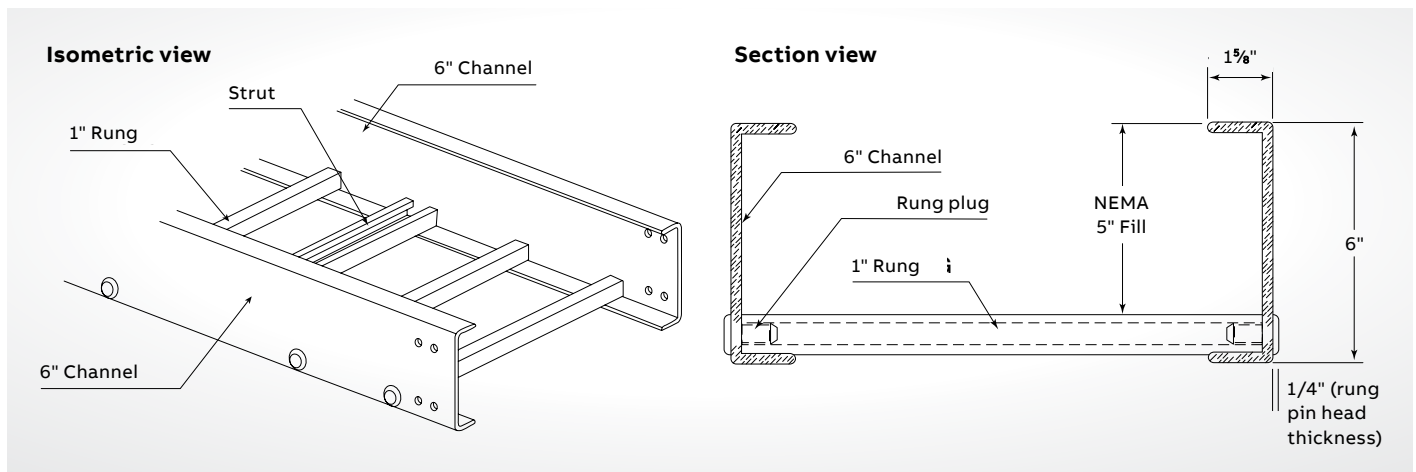


Nonmetallic - Cable tray straight lengths

Marine rung & strut rung cable tray



01



02

01 Marine rung cable tray
02 Strut rung cable tray

Marine rung cable tray

- Meets U.S. Coast Guard requirements
- **Catalog Number:** Add MR after rung spacing
- **Example:** NM-4P-09MR-24-120
- Call your ABB representative for documentation

Strut rung cable tray

- **Catalog Number:** Add SR after rung spacing
- Call your ABB representative for documentation



Nonmetallic - Cable tray

Fittings

NOTE: Splice plates NOT included. See pages 353-355 for type of splice plates available.
Covers are available. Please consult your ABB representative.

Selection guide

1. Nonmetallic cable tray system.
2. For mitered fittings when available.
3. Select height of fitting required for application. This should match tray series and height selection.
4. Select the resin required. Refer to corrosion guide on page 321 of the technical information section for the effect of environmental conditions on the desired material; for the effective temperature range, see page 323 of the same section.
5. Select the desired width in inches.
6. Angle of fitting required for application.
7. Type of fitting required for application. See choices below.
8. Radius required for application. This would be determined by allowable radius of cables being installed. Standard radius is 24" (609.6mm).

Straight fittings number selection

To order

To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalog number.

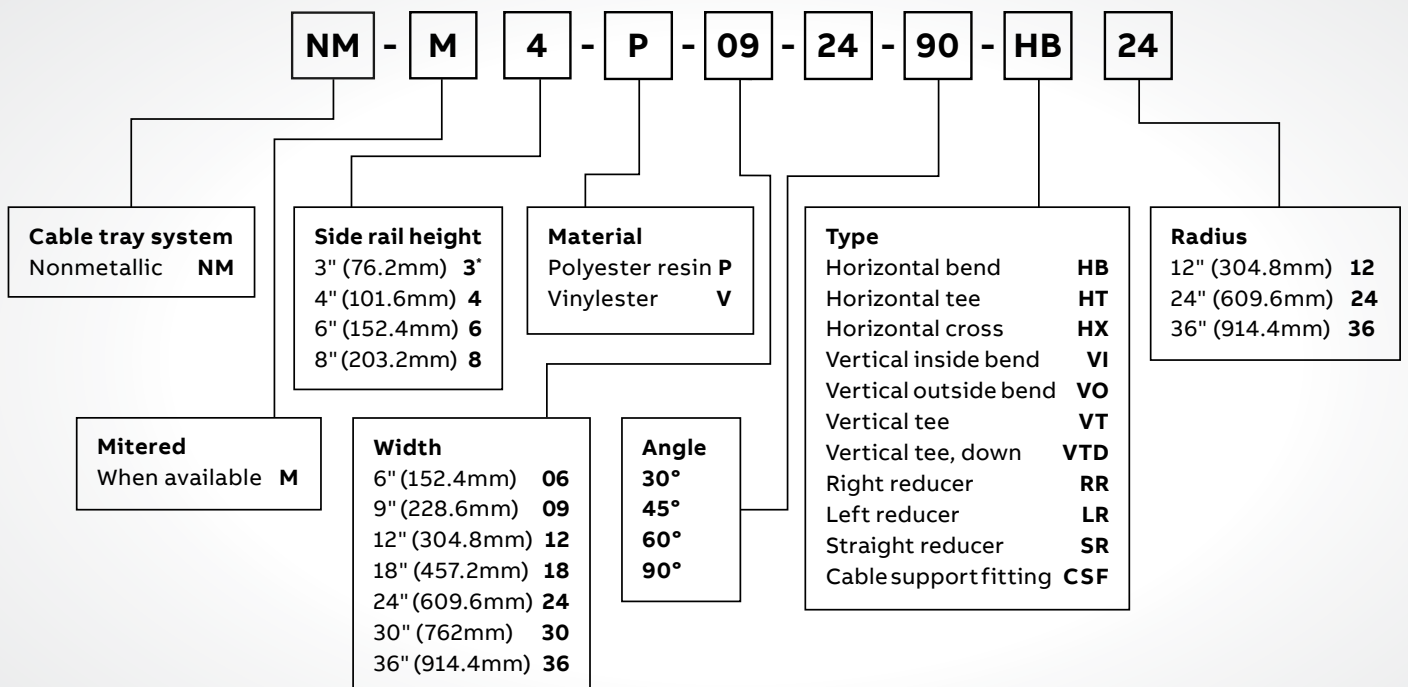
Example:

NM-4P0924-90-HB 24

- 4" (101.6mm) side rail, polyester resin
- 9" (228.6mm) rung spacing
- 24" (609.6mm) wide, 120" (10 ft.) length

NOTE: One pair of nonmetallic splice plates with SS6 hardware included with each length.

For other types of splice plates, see pages 353-355.

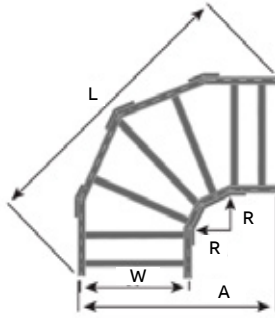


*Series 3 cable tray do not have UL listing.

Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 90° Horizontal bend fittings

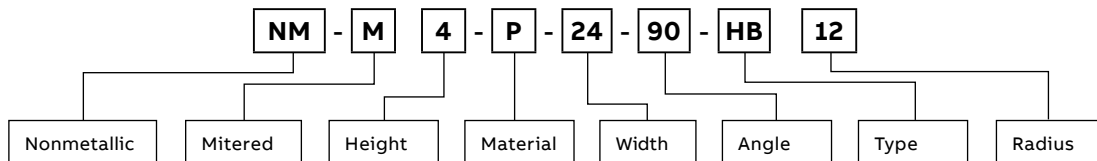
90° Horizontal bend



| | | Bend radius (R) | | Tray width (W) | | Cat. No. | Dimensions | | | |
|----|-------|-----------------|-------|--------------------------|------|----------|------------|--------|---------|--------|
| | | (in.) | (mm) | (in.) | (mm) | | A (in.) | A (mm) | L (in.) | L (mm) |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-90HB12 | 33% | 854 | 47½ | 1,207 | | |
| 12 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-09-90HB12 | 36% | 930 | 51¾ | 1,314 | | |
| 12 | 304.8 | 12 | 304.8 | NM-M(*)-(Matl)-12-90HB12 | 39% | 1,006 | 56 | 1,422 | | |
| 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-18-90HB12 | 45% | 1,159 | 64½ | 1,638 | | |
| 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-24-90HB12 | 51% | 1,311 | 73 | 1,854 | | |
| 12 | 304.8 | 30 | 762 | NM-M(*)-(Matl)-30-90HB12 | 57% | 1,464 | 81½ | 2,070 | | |
| 12 | 304.8 | 36 | 914.4 | NM-M(*)-(Matl)-36-90HB12 | 63% | 1,616 | 90 | 2,286 | | |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-90HB24 | 45% | 1,159 | 64½ | 1,638 | | |
| 24 | 609.6 | 9 | 228.6 | NM-M(*)-(Matl)-09-90HB24 | 48% | 1,235 | 68¾ | 1,746 | | |
| 24 | 609.6 | 12 | 304.8 | NM-M(*)-(Matl)-12-90HB24 | 51% | 1,311 | 73 | 1,854 | | |
| 24 | 609.6 | 18 | 457.2 | NM-M(*)-(Matl)-18-90HB24 | 57% | 1,464 | 81½ | 2,070 | | |
| 24 | 609.6 | 24 | 609.6 | NM-M(*)-(Matl)-24-90HB24 | 63% | 1,616 | 90 | 2,286 | | |
| 24 | 609.6 | 30 | 762 | NM-M(*)-(Matl)-30-90HB24 | 69% | 1,768 | 98½ | 2,502 | | |
| 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-36-90HB24 | 75% | 1,921 | 107 | 2,718 | | |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-90HB36 | 57% | 1,464 | 81½ | 2,070 | | |
| 36 | 914.4 | 9 | 228.6 | NM-M(*)-(Matl)-09-90HB36 | 60% | 1,540 | 85¾ | 2,178 | | |
| 36 | 914.4 | 12 | 304.8 | NM-M(*)-(Matl)-12-90HB36 | 63% | 1,616 | 90 | 2,286 | | |
| 36 | 914.4 | 18 | 457.2 | NM-M(*)-(Matl)-18-90HB36 | 69% | 1,768 | 98½ | 2,502 | | |
| 36 | 914.4 | 24 | 609.6 | NM-M(*)-(Matl)-24-90HB36 | 75% | 1,921 | 107 | 2,718 | | |
| 36 | 914.4 | 30 | 762 | NM-M(*)-(Matl)-30-90HB36 | 81% | 2,073 | 115⅝ | 2,931 | | |
| 36 | 914.4 | 36 | 914.4 | NM-M(*)-(Matl)-36-90HB36 | 87% | 2,226 | 123⅞ | 3,146 | | |

(*) Side Rail Height. One pair of fiberglass splice plates with SS6 hardware included.
 Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings.
 Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 353-355.

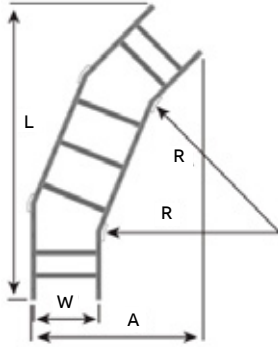
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 45° Horizontal bend fittings

45° Horizontal bend



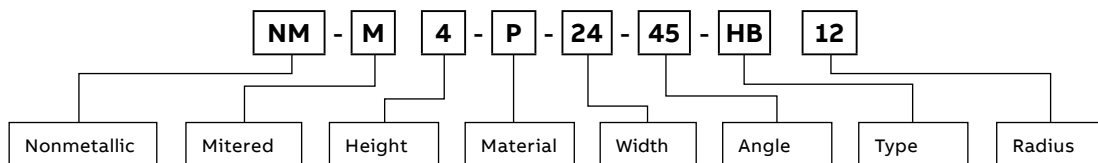
| | Bend radius (R) | | Tray width (W) | | Cat. No. | Dimensions | | | |
|----|-----------------|------|----------------|--------------------------|---------------------|------------|---------------------|---------|--------|
| | (in.) | (mm) | (in.) | (mm) | | A (in.) | A (mm) | L (in.) | L (mm) |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-45HB12 | 20 ^{13/16} | 525 | 38 ^{7/8} | 987 | |
| 12 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-09-45HB12 | 23 ^{13/16} | 602 | 41 | 1,041 | |
| 12 | 304.8 | 12 | 304.8 | NM-M(*)-(Matl)-12-45HB12 | 26 ^{13/16} | 678 | 43 ^{7/8} | 1,095 | |
| 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-18-45HB12 | 32 ^{13/16} | 830 | 47 ^{7/8} | 1,203 | |
| 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-24-45HB12 | 38 ^{13/16} | 983 | 51 ^{7/8} | 1,311 | |
| 12 | 304.8 | 30 | 762 | NM-M(*)-(Matl)-30-45HB12 | 44 ^{13/16} | 1,135 | 55 ^{7/8} | 1,419 | |
| 12 | 304.8 | 36 | 914.4 | NM-M(*)-(Matl)-36-45HB12 | 50 ^{13/16} | 1,287 | 60 ^{7/8} | 1,527 | |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-45HB24 | 24 ^{1/4} | 616 | 47 ^{3/8} | 1,203 | |
| 24 | 609.6 | 9 | 228.6 | NM-M(*)-(Matl)-09-45HB24 | 27 ^{1/4} | 692 | 49 ^{1/2} | 1,257 | |
| 24 | 609.6 | 12 | 304.8 | NM-M(*)-(Matl)-12-45HB24 | 30 ^{1/4} | 768 | 51 ^{5/8} | 1,311 | |
| 24 | 609.6 | 18 | 457.2 | NM-M(*)-(Matl)-18-45HB24 | 36 ^{1/4} | 921 | 55 ^{7/8} | 1,419 | |
| 24 | 609.6 | 24 | 609.6 | NM-M(*)-(Matl)-24-45HB24 | 42 ^{1/4} | 1,073 | 60 ^{1/8} | 1,527 | |
| 24 | 609.6 | 30 | 762 | NM-M(*)-(Matl)-30-45HB24 | 48 ^{1/4} | 1,226 | 64 ^{3/8} | 1,635 | |
| 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-36-45HB24 | 54 ^{1/4} | 1,378 | 68 ^{5/8} | 1,743 | |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-45HB36 | 27 ^{3/4} | 705 | 55 ^{7/8} | 1,419 | |
| 36 | 914.4 | 9 | 228.6 | NM-M(*)-(Matl)-09-45HB36 | 30 ^{3/4} | 781 | 58 | 1,473 | |
| 36 | 914.4 | 12 | 304.8 | NM-M(*)-(Matl)-12-45HB36 | 33 ^{3/4} | 857 | 60 ^{1/8} | 1,527 | |
| 36 | 914.4 | 18 | 457.2 | NM-M(*)-(Matl)-18-45HB36 | 39 ^{3/4} | 1,010 | 64 ^{3/8} | 1,635 | |
| 36 | 914.4 | 24 | 609.6 | NM-M(*)-(Matl)-24-45HB36 | 45 ^{3/4} | 1,162 | 68 ^{5/8} | 1,743 | |
| 36 | 914.4 | 30 | 762 | NM-M(*)-(Matl)-30-45HB36 | 51 ^{3/4} | 1,314 | 72 ^{13/16} | 1,846 | |
| 36 | 914.4 | 36 | 914.4 | NM-M(*)-(Matl)-36-45HB36 | 57 ^{3/4} | 1,467 | 77 ^{1/16} | 1,957 | |

(*) Side Rail Height. One pair of fiberglass splice plates with SS6 hardware included.

Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings.

Standard rung spacing for fittings is 9^{3/4}" nominal (235mm). For other types of splice plates, see pages 353-355.

Fitting number selection



Nonmetallic - Cable tray fittings

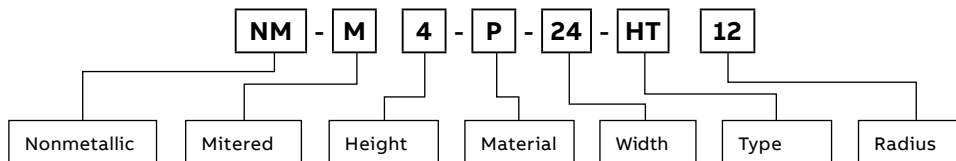
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal tee fittings

Horizontal tee

| | Bend radius (R) | | Tray width (W) | | Cat. No. | A | | Dimensions | |
|--|-----------------|-------|----------------|-------|------------------------|-------|-------|------------|--------|
| | (in.) | (mm) | (in.) | (mm) | | (in.) | (mm) | L (in.) | L (mm) |
| | 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-HT12 | 30% | 780 | 55½ | 1,410 |
| | 12 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-09-HT12 | 33% | 850 | 55½ | 1,410 |
| | 12 | 304.8 | 12 | 304.8 | NM-M(*)-(Matl)-12-HT12 | 36% | 930 | 55½ | 1,410 |
| | 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-18-HT12 | 42% | 1,080 | 64¾ | 1,640 |
| | 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-24-HT12 | 48% | 1,240 | 74 | 1,880 |
| | 12 | 304.8 | 30 | 762 | NM-M(*)-(Matl)-30-HT12 | 54% | 1,390 | 74 | 1,880 |
| | 12 | 304.8 | 36 | 914.4 | NM-M(*)-(Matl)-36-HT12 | 60% | 1,540 | 83¾ | 2,110 |
| | 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-HT24 | 42% | 1,080 | 74 | 1,880 |
| | 24 | 609.6 | 9 | 228.6 | NM-M(*)-(Matl)-09-HT24 | 45% | 1,160 | 83¾ | 2,110 |
| | 24 | 609.6 | 12 | 304.8 | NM-M(*)-(Matl)-12-HT24 | 48% | 1,240 | 83¾ | 2,110 |
| | 24 | 609.6 | 18 | 457.2 | NM-M(*)-(Matl)-18-HT24 | 54% | 1,390 | 92½ | 2,350 |
| | 24 | 609.6 | 24 | 609.6 | NM-M(*)-(Matl)-24-HT24 | 60% | 1,540 | 92½ | 2,350 |
| | 24 | 609.6 | 30 | 762 | NM-M(*)-(Matl)-30-HT24 | 66% | 1,690 | 101¾ | 2,580 |
| | 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-36-HT24 | 72% | 1,840 | 111 | 2,820 |
| | 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-HT36 | 54% | 1,390 | 101¾ | 2,580 |
| | 36 | 914.4 | 9 | 228.6 | NM-M(*)-(Matl)-09-HT36 | 57% | 1,460 | 101¾ | 2,580 |
| | 36 | 914.4 | 12 | 304.8 | NM-M(*)-(Matl)-12-HT36 | 60% | 1,540 | 111 | 2,820 |
| | 36 | 914.4 | 18 | 457.2 | NM-M(*)-(Matl)-18-HT36 | 66% | 1,690 | 111 | 2,820 |
| | 36 | 914.4 | 24 | 609.6 | NM-M(*)-(Matl)-24-HT36 | 72% | 1,840 | 120¾ | 3,050 |
| | 36 | 914.4 | 30 | 762 | NM-M(*)-(Matl)-30-HT36 | 78% | 2,000 | 129½ | 3,290 |
| | 36 | 914.4 | 36 | 914.4 | NM-M(*)-(Matl)-36-HT36 | 84% | 2,150 | 129½ | 3,290 |

(*) Side Rail Height. Two pairs of fiberglass splice plates with SS6 hardware included.
 Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings.
 Standard rung spacing for fittings is 9¾" nominal (235mm). For other types of splice plates, see pages 353-355.

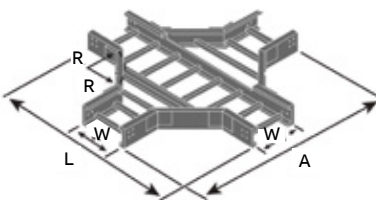
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal cross fittings

Horizontal cross

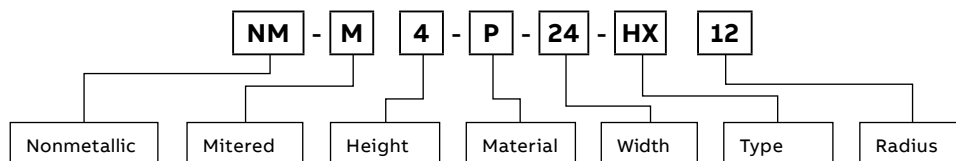
| | Bend radius (R) | | Tray width (W) | | Cat. No. | Dimensions | | | |
|---|-----------------|-------|----------------|-------|------------------------|------------|--------|---------|--------|
| | (in.) | (mm) | (in.) | (mm) | | A (in.) | A (mm) | L (in.) | L (mm) |
|  | 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-HX12 | 54¾ | 1,390 | 55½ | 1,410 |
| | 12 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-09-HX12 | 57¾ | 1,470 | 55½ | 1,410 |
| | 12 | 304.8 | 12 | 304.8 | NM-M(*)-(Matl)-12-HX12 | 60¾ | 1,540 | 55½ | 1,410 |
| | 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-18-HX12 | 66¾ | 1,700 | 64¾ | 1,640 |
| | 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-24-HX12 | 72¾ | 1,850 | 74 | 1,880 |
| | 12 | 304.8 | 30 | 762 | NM-M(*)-(Matl)-30-HX12 | 78¾ | 2,000 | 74 | 1,880 |
| | 12 | 304.8 | 36 | 914.4 | NM-M(*)-(Matl)-36-HX12 | 84¾ | 2,150 | 83¾ | 2,110 |
| | 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-HX24 | 78¾ | 2,000 | 74 | 1,880 |
| | 24 | 609.6 | 9 | 228.6 | NM-M(*)-(Matl)-09-HX24 | 81¾ | 2,080 | 83¾ | 2,110 |
| | 24 | 609.6 | 12 | 304.8 | NM-M(*)-(Matl)-12-HX24 | 84¾ | 2,150 | 83¾ | 2,110 |
| | 24 | 609.6 | 18 | 457.2 | NM-M(*)-(Matl)-18-HX24 | 90¾ | 2,310 | 92½ | 2,350 |
| | 24 | 609.6 | 24 | 609.6 | NM-M(*)-(Matl)-24-HX24 | 96¾ | 2,460 | 92½ | 2,350 |
| | 24 | 609.6 | 30 | 762 | NM-M(*)-(Matl)-30-HX24 | 102¾ | 2,610 | 101¾ | 2,580 |
| | 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-36-HX24 | 108¾ | 2,760 | 111 | 2,820 |
| | 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-HX36 | 102¾ | 2,610 | 101¾ | 2,580 |
| | 36 | 914.4 | 9 | 228.6 | NM-M(*)-(Matl)-09-HX36 | 105¾ | 2,690 | 101¾ | 2,580 |
| | 36 | 914.4 | 12 | 304.8 | NM-M(*)-(Matl)-12-HX36 | 108¾ | 2,760 | 111 | 2,820 |
| | 36 | 914.4 | 18 | 457.2 | NM-M(*)-(Matl)-18-HX36 | 114¾ | 2,910 | 111 | 2,820 |
| | 36 | 914.4 | 24 | 609.6 | NM-M(*)-(Matl)-24-HX36 | 120¾ | 3,070 | 120¾ | 3,050 |
| | 36 | 914.4 | 30 | 762 | NM-M(*)-(Matl)-30-HX36 | 126¾ | 3,220 | 129½ | 3,290 |
| | 36 | 914.4 | 36 | 914.4 | NM-M(*)-(Matl)-36-HX36 | 132¾ | 3,370 | 129½ | 3,290 |

(*) Side Rail Height. Three pairs of fiberglass splice plates with SS6 hardware included.

Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings.

Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 353-355.

Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal reducer fittings

Horizontal reducer - 4" (101.6mm)

Tray widths

| W1 (in.) (mm) | W2 (in.) (mm) | Left-hand reducer Cat. No. | Dim. A (in.) | Dim. L (mm) | | |
|------------------|------------------|-------------------------------|-----------------|------------------------|-----|-------|
| 9 | 228.6 | 6 | 152.4 | NM-M(*)-(Matl)-09-LR06 | 27¾ | 705 |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-12-LR06 | 37 | 940 |
| 12 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-12-LR09 | 27¾ | 705 |
| 18 | 457.2 | 6 | 152.4 | NM-M(*)-(Matl)-18-LR06 | 37 | 940 |
| 18 | 457.2 | 9 | 228.6 | NM-M(*)-(Matl)-18-LR09 | 37 | 940 |
| 18 | 457.2 | 12 | 304.8 | NM-M(*)-(Matl)-18-LR12 | 27¾ | 705 |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-24-LR06 | 46¼ | 1,175 |
| 24 | 609.6 | 9 | 228.6 | NM-M(*)-(Matl)-24-LR09 | 37 | 940 |
| 24 | 609.6 | 12 | 304.8 | NM-M(*)-(Matl)-24-LR12 | 37 | 940 |
| 24 | 609.6 | 18 | 457.2 | NM-M(*)-(Matl)-24-LR18 | 27¾ | 705 |
| 30 | 762 | 6 | 152.4 | NM-M(*)-(Matl)-30-LR06 | 46¼ | 1,175 |
| 30 | 762 | 9 | 228.6 | NM-M(*)-(Matl)-30-LR09 | 46¼ | 1,175 |
| 30 | 762 | 12 | 304.8 | NM-M(*)-(Matl)-30-LR12 | 37 | 940 |
| 30 | 762 | 18 | 457.2 | NM-M(*)-(Matl)-30-LR18 | 37 | 940 |
| 30 | 762 | 24 | 152.4 | NM-M(*)-(Matl)-30-LR24 | 27¾ | 705 |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-36-LR06 | 55½ | 1,410 |
| 36 | 914.4 | 9 | 228.6 | NM-M(*)-(Matl)-36-LR09 | 46¼ | 1,175 |
| 36 | 914.4 | 12 | 304.8 | NM-M(*)-(Matl)-36-LR12 | 46¼ | 1,175 |
| 36 | 914.4 | 18 | 457.2 | NM-M(*)-(Matl)-36-LR18 | 37 | 940 |
| 36 | 914.4 | 24 | 609.6 | NM-M(*)-(Matl)-36-LR24 | 37 | 940 |
| 36 | 914.4 | 30 | 762 | NM-M(*)-(Matl)-36-LR30 | 27¾ | 705 |

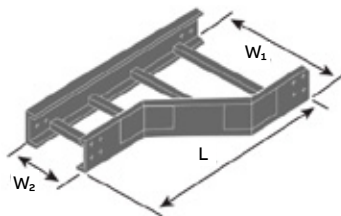
| Straight reducer Cat. No. | Dim. A (in.) | Dim. L (mm) |
|------------------------------|-----------------|----------------|
| NM-M(*)-(Matl)-09-SR06 | 26¾ | 670 |
| NM-M(*)-(Matl)-12-SR06 | 26¾ | 679 |
| NM-M(*)-(Matl)-12-SR09 | 26¾ | 670 |
| NM-M(*)-(Matl)-18-SR06 | 34½ | 876 |
| NM-M(*)-(Matl)-18-SR09 | 33 | 838 |
| NM-M(*)-(Matl)-18-SR12 | 26¾ | 679 |
| NM-M(*)-(Matl)-24-SR06 | 37½ | 953 |
| NM-M(*)-(Matl)-24-SR09 | 36 | 914 |
| NM-M(*)-(Matl)-24-SR12 | 36 | 914 |
| NM-M(*)-(Matl)-24-SR18 | 26¾ | 679 |
| NM-M(*)-(Matl)-30-SR06 | 40½ | 1,029 |
| NM-M(*)-(Matl)-30-SR09 | 39 | 991 |
| NM-M(*)-(Matl)-30-SR12 | 37½ | 953 |
| NM-M(*)-(Matl)-30-SR18 | 35¾ | 908 |
| NM-M(*)-(Matl)-30-SR24 | 26¾ | 679 |
| NM-M(*)-(Matl)-36-SR06 | 43½ | 1,105 |
| NM-M(*)-(Matl)-36-SR09 | 42 | 1,067 |
| NM-M(*)-(Matl)-36-SR12 | 40½ | 1,029 |
| NM-M(*)-(Matl)-36-SR18 | 37½ | 953 |
| NM-M(*)-(Matl)-36-SR24 | 35¾ | 908 |
| NM-M(*)-(Matl)-36-SR30 | 26¾ | 679 |

| Right-hand reducer Cat. No. | Dim. A (in.) | Dim. L (mm) |
|--------------------------------|-----------------|----------------|
| NM-M(*)-(Matl)-09-RR06 | 27¾ | 705 |
| NM-M(*)-(Matl)-12-RR06 | 37 | 940 |
| NM-M(*)-(Matl)-12-RR09 | 27¾ | 705 |
| NM-M(*)-(Matl)-18-RR06 | 37 | 940 |
| NM-M(*)-(Matl)-18-RR09 | 37 | 940 |
| NM-M(*)-(Matl)-18-RR12 | 27¾ | 705 |
| NM-M(*)-(Matl)-24-RR06 | 46¼ | 1,175 |
| NM-M(*)-(Matl)-24-RR09 | 37 | 940 |
| NM-M(*)-(Matl)-24-RR12 | 37 | 940 |
| NM-M(*)-(Matl)-24-RR18 | 27¾ | 705 |
| NM-M(*)-(Matl)-24-RR06 | 46¼ | 1,175 |
| NM-M(*)-(Matl)-24-RR09 | 46¼ | 1,175 |
| NM-M(*)-(Matl)-24-RR12 | 37 | 940 |
| NM-M(*)-(Matl)-24-RR18 | 37 | 940 |
| NM-M(*)-(Matl)-18-RR24 | 27¾ | 705 |
| NM-M(*)-(Matl)-36-RR06 | 55½ | 1,410 |
| NM-M(*)-(Matl)-36-RR09 | 46¼ | 1,175 |
| NM-M(*)-(Matl)-36-RR12 | 46¼ | 1,175 |
| NM-M(*)-(Matl)-36-RR18 | 37 | 940 |
| NM-M(*)-(Matl)-36-RR24 | 37 | 940 |
| NM-M(*)-(Matl)-36-RR30 | 27¾ | 705 |

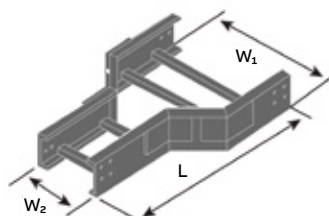
(*) Side Rail Height. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 353-355.

Dimensions (4" & 6")

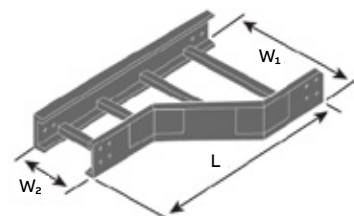
Left-hand reducer



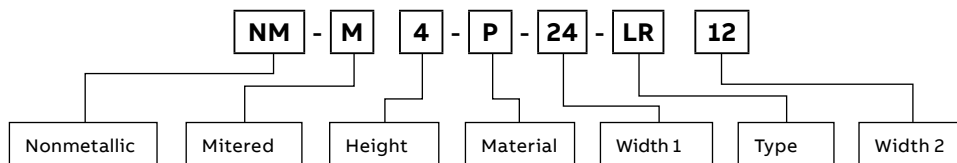
Straight reducer



Right hand reducer



Fitting number selection

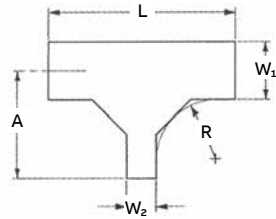


Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal reducing tee fittings

Horizontal reducing tee – 12" (304.8mm) radius

| Tray width (W1) | | | | | Tray width (W2) | | 12" (304.8mm) Radius | | | |
|-----------------|-------|------------|-------|---------------------------|-----------------|----------|----------------------|----------|--|--|
| (in.) (mm) | | (in.) (mm) | | Cat. No. | A (in.) | A (mm) | L (in.) | L (mm) | | |
| 6 | 228.6 | 6 | 152.4 | NM-M(*)-(Matl)-09-06-HT12 | 33% | 2,813.05 | 55½ | 2,197.10 | | |
| 9 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-12-06-HT12 | 26% | 1,174.75 | 55½ | 2,197.10 | | |
| 9 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-12-09-HT12 | 26% | 1,174.75 | 55½ | 2,273.30 | | |
| 12 | 457.2 | 6 | 152.4 | NM-M(*)-(Matl)-18-06-HT12 | 42% | 3,117.85 | 55½ | 2,197.10 | | |
| 12 | 457.2 | 9 | 228.6 | NM-M(*)-(Matl)-18-09-HT12 | 42% | 1,250.95 | 55½ | 2,273.30 | | |
| 12 | 457.2 | 12 | 304.8 | NM-M(*)-(Matl)-18-12-HT12 | 42% | 1,250.95 | 55½ | 2,349.50 | | |



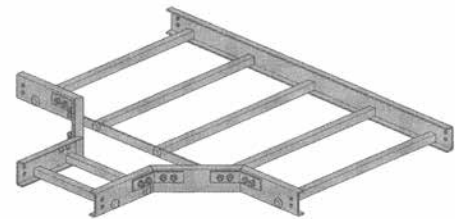
(*) Side Rail Height. Two pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 353-355.

Horizontal reducing tee – 24" (609.6mm) & 36" (914.4mm) radius

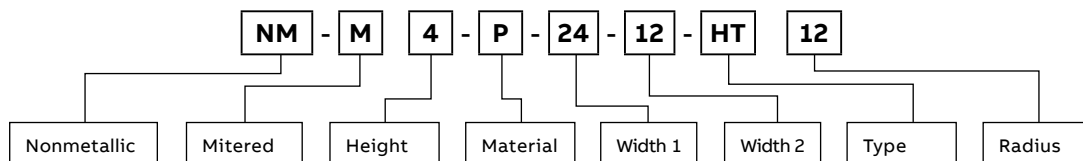
| Tray width (W1) | | Tray width (W2) | | Cat. No. | 24" (609.6mm) Radius | | | | 36" (914.4mm) Radius | | | | |
|-----------------|-------|-----------------|-------|-----------------------------|-------------------------------|----------|---------|----------|----------------------|----------|---------|----------|---------|
| (in.) (mm) | | (in.) (mm) | | | (**) Insert radius 24" or 36" | | A (in.) | A (mm) | L (in.) | L (mm) | A (in.) | A (mm) | L (in.) |
| 6 | 228.6 | 6 | 152.4 | NM-M(*)-(Matl)-09-06-HT(**) | 42% | 2,813.05 | 74 | 2,197.10 | 54% | 908.05 | 101¾ | 1,739.90 | |
| 9 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-12-06-HT(**) | 48% | 1,174.75 | 74 | 2,197.10 | 60% | 946.15 | 101¾ | 1,739.90 | |
| 9 | 304.8 | 9 | 228.6 | NM-M(*)-(Matl)-12-09-HT(**) | 48% | 1,174.75 | 83¾ | 2,273.30 | 60% | 946.15 | 101¾ | 1,816.10 | |
| 12 | 457.2 | 6 | 152.4 | NM-M(*)-(Matl)-18-06-HT(**) | 54% | 3,117.85 | 74 | 2,197.10 | 66% | 1,022.35 | 101¾ | 1,739.90 | |
| 12 | 457.2 | 9 | 228.6 | NM-M(*)-(Matl)-18-09-HT(**) | 54% | 1,250.95 | 83¾ | 2,273.30 | 66% | 1,022.35 | 101¾ | 1,816.10 | |
| 12 | 457.2 | 12 | 304.8 | NM-M(*)-(Matl)-18-12-HT(**) | 54% | 1,250.95 | 83¾ | 2,349.50 | 66% | 1,022.35 | 111 | 1,892.30 | |

(*) Side Rail Height. (**) NOTE: Insert radius, 24" (609.6mm) or 36" (914.4mm). Two pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 353-355.

Sample mitered fitting



Fitting number selection



Nonmetallic - Cable tray fittings

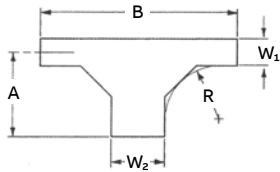
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding tee fittings

Horizontal expanding tee – 12" (304.8mm) & 24" (609.6mm) radius

| Tray width (W1) (in.) (mm) | Tray width (W2) (in.) (mm) | Cat. No. (**) Insert radius 12" or 24" | 12" (304.8mm) Radius | | | | 24" (609.6mm) Radius | | | | | |
|-------------------------------|-------------------------------|---|----------------------|-----------------------------|---------|--------|----------------------|--------|---------|--------|------|-------|
| | | | A (in.) | A (mm) | B (in.) | B (mm) | A (in.) | A (mm) | B (in.) | B (mm) | | |
| 9 | 228.6 | 12 | 304.8 | NM-M(*)-(Matl)-09-12-HT(**) | 33% | 854 | 55½ | 1,410 | 45% | 1,159 | 83¼ | 2,115 |
| 9 | 228.6 | 18 | 457.2 | NM-M(*)-(Matl)-09-18-HT(**) | 33% | 854 | 64¾ | 1,645 | 45% | 1,159 | 92½ | 2,350 |
| 9 | 228.6 | 24 | 609.6 | NM-M(*)-(Matl)-09-24-HT(**) | 33% | 854 | 74 | 1,880 | 45% | 1,159 | 92½ | 2,350 |
| 9 | 228.6 | 30 | 762 | NM-M(*)-(Matl)-09-30-HT(**) | 33% | 854 | 74 | 1,880 | 45% | 1,159 | 101¾ | 2,584 |
| 9 | 228.6 | 36 | 914.4 | NM-M(*)-(Matl)-09-36-HT(**) | 33% | 854 | 83¼ | 2,115 | 45% | 1,159 | 111 | 2,819 |
| 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-12-18-HT(**) | 26% | 676 | 64¾ | 1,645 | 48% | 1,235 | 92½ | 2,350 |
| 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-12-24-HT(**) | 26% | 676 | 74 | 1,880 | 48% | 1,235 | 92½ | 2,350 |
| 12 | 304.8 | 30 | 762 | NM-M(*)-(Matl)-12-30-HT(**) | 26% | 676 | 74 | 1,880 | 48% | 1,235 | 101¾ | 2,584 |
| 12 | 304.8 | 36 | 914.4 | NM-M(*)-(Matl)-12-36-HT(**) | 26% | 676 | 83¼ | 2,115 | 48% | 1,235 | 111 | 2,819 |
| 18 | 457.2 | 24 | 609.6 | NM-M(*)-(Matl)-18-24-HT(**) | 42% | 1,083 | 74 | 1,880 | 54% | 1,387 | 92½ | 2,350 |
| 18 | 457.2 | 30 | 762 | NM-M(*)-(Matl)-18-30-HT(**) | 42% | 1,083 | 74 | 1,880 | 54% | 1,387 | 101¾ | 2,584 |
| 18 | 457.2 | 36 | 914.4 | NM-M(*)-(Matl)-18-36-HT(**) | 42% | 1,083 | 83¼ | 2,115 | 54% | 1,387 | 111 | 2,819 |
| 24 | 609.6 | 30 | 762 | NM-M(*)-(Matl)-24-30-HT(**) | 48% | 1,235 | 74 | 1,880 | 60% | 1,540 | 101¾ | 2,584 |
| 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-24-36-HT(**) | 48% | 1,235 | 83¼ | 2,115 | 60% | 1,540 | 111 | 2,819 |
| 30 | 762 | 36 | 914.4 | NM-M(*)-(Matl)-30-36-HT(**) | 54% | 1,387 | 83¼ | 2,115 | 66% | 1,692 | 111 | 2,819 |

(*) Side Rail Height. * NOTE: Insert radius, 12" (304.8mm) or 24" (609.6mm). Two pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9" (228.6mm). For other types of splice plates, see pages 353-355.

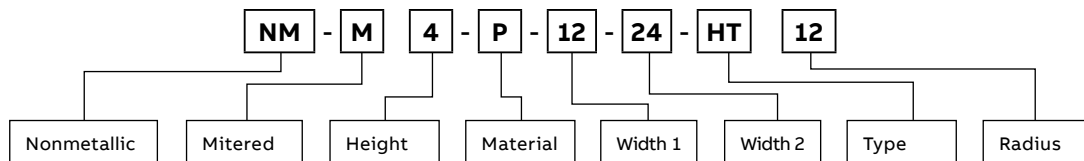
Dimensions



Sample mitered fitting



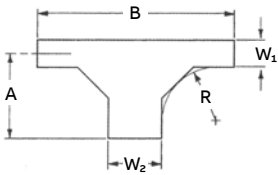
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding tee fittings

Horizontal expanding tee – 36" (914.4mm) radius

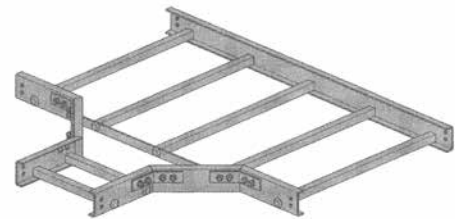
| | Tray width (W1) | | Tray width (W2) | | Cat. No. | 36" (914.4mm) Radius | | | |
|---|-----------------|-------|-----------------|---------------------------|---------------------------|----------------------|--------|---------|--------|
| | (in.) | (mm) | (in.) | (mm) | | A (in.) | A (mm) | B (in.) | B (mm) |
|  | 9 | 228.6 | 12 | 304.8 | NM-M(*)-(Matl)-09-12-HT36 | 57% | 1,464 | 111 | 2,819 |
| | 9 | 228.6 | 18 | 457.2 | NM-M(*)-(Matl)-09-18-HT36 | 57% | 1,464 | 111 | 2,819 |
| | 9 | 228.6 | 24 | 609.6 | NM-M(*)-(Matl)-09-24-HT36 | 57% | 1,464 | 120¼ | 3,054 |
| | 9 | 228.6 | 30 | 609.6 | NM-M(*)-(Matl)-09-30-HT36 | 57% | 1,464 | 129½ | 3,289 |
| | 9 | 228.6 | 36 | 762 | NM-M(*)-(Matl)-09-36-HT36 | 57% | 1,464 | 129½ | 3,289 |
| | 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-12-18-HT36 | 60% | 1,540 | 111 | 2,819 |
| | 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-12-24-HT36 | 60% | 1,540 | 120¼ | 3,054 |
| | 12 | 304.8 | 30 | 609.6 | NM-M(*)-(Matl)-12-30-HT36 | 60% | 1,540 | 129½ | 3,289 |
| | 12 | 304.8 | 36 | 762 | NM-M(*)-(Matl)-12-36-HT36 | 60% | 1,540 | 129½ | 3,289 |
| | 18 | 457.2 | 24 | 609.6 | NM-M(*)-(Matl)-18-24-HT36 | 66% | 1,692 | 120¼ | 3,054 |
| 18 | 457.2 | 30 | 609.6 | NM-M(*)-(Matl)-18-30-HT36 | 66% | 1,692 | 129½ | 3,289 | |
| 18 | 457.2 | 36 | 762 | NM-M(*)-(Matl)-18-36-HT36 | 66% | 1,692 | 129½ | 3,289 | |
| 24 | 609.6 | 30 | 609.6 | NM-M(*)-(Matl)-24-30-HT36 | 72% | 1,845 | 129½ | 3,289 | |
| 24 | 609.6 | 36 | 762 | NM-M(*)-(Matl)-24-36-HT36 | 72% | 1,845 | 129½ | 3,289 | |
| 30 | 762 | 36 | 762 | NM-M(*)-(Matl)-30-36-HT36 | 78% | 1,997 | 129½ | 3,289 | |

(*) Side Rail Height. Two pairs of stainless steel SS6 splice plates with SS6 hardware included.

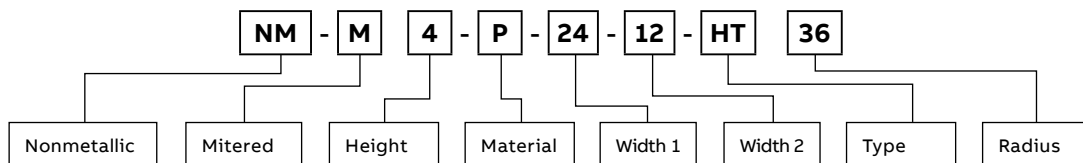
Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings.

Standard rung spacing for fittings is 9" (228.6mm). For other types of splice plates, see pages 353-355.

Sample mitered fitting



Fitting number selection



Nonmetallic - Cable tray fittings

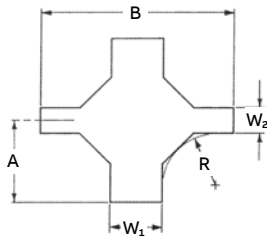
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding/reducing cross fittings

Horizontal expanding/reducing cross – 12" (304.8mm) & 24" (609.6mm) radius

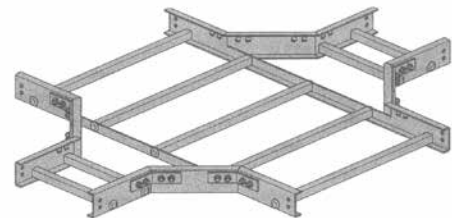
| Tray width (W1) | | Tray width (W2) | | Cat. No. *Insert radius (12" or 24") | 12" (304.8mm) Radius | | | | 24" (609.6mm) Radius | | | |
|-----------------|-------|-----------------|-------|---|----------------------|--------|---------|--------|----------------------|--------|---------|--------|
| (in.) | (mm) | (in.) | (mm) | | A (in.) | A (mm) | B (in.) | B (mm) | A (in.) | A (mm) | B (in.) | B (mm) |
| 6 | 152.4 | 9 | 228.6 | NM-M(*)-(Matl)-06-09-HX* | 54¾ | 1,391 | 55½ | 1,410 | 78¾ | 2,000 | 84¾ | 2,140 |
| 6 | 152.4 | 12 | 304.8 | NM-M(*)-(Matl)-06-12-HX* | 54¾ | 1,391 | 55½ | 1,410 | 78¾ | 4,972 | 83¾ | 2,115 |
| 6 | 152.4 | 18 | 457.2 | NM-M(*)-(Matl)-06-18-HX* | 54¾ | 1,391 | 64¾ | 1,645 | 78¾ | 2,000 | 92½ | 2,350 |
| 6 | 152.4 | 24 | 609.6 | NM-M(*)-(Matl)-06-24-HX* | 54¾ | 1,391 | 74 | 1,880 | 78¾ | 2,000 | 92½ | 2,350 |
| 6 | 152.4 | 30 | 762 | NM-M(*)-(Matl)-06-30-HX* | 54¾ | 1,391 | 74 | 1,880 | 78¾ | 2,000 | 101¾ | 2,584 |
| 6 | 152.4 | 36 | 914.4 | NM-M(*)-(Matl)-06-36-HX* | 54¾ | 1,391 | 83¾ | 2,115 | 78¾ | 2,000 | 111 | 2,819 |
| 9 | 228.6 | 12 | 304.8 | NM-M(*)-(Matl)-09-12-HX* | 57¾ | 1,467 | 55½ | 1,410 | 81¾ | 2,076 | 83¾ | 2,115 |
| 9 | 228.6 | 18 | 457.2 | NM-M(*)-(Matl)-09-18-HX* | 57¾ | 1,467 | 64¾ | 1,645 | 81¾ | 2,076 | 92½ | 2,350 |
| 9 | 228.6 | 24 | 609.6 | NM-M(*)-(Matl)-09-24-HX* | 57¾ | 1,467 | 74 | 1,880 | 81¾ | 2,076 | 92½ | 2,350 |
| 9 | 228.6 | 30 | 762 | NM-M(*)-(Matl)-09-30-HX* | 57¾ | 1,467 | 74 | 1,880 | 81¾ | 2,076 | 101¾ | 2,584 |
| 9 | 228.6 | 36 | 914.4 | NM-M(*)-(Matl)-09-36-HX* | 57¾ | 1,467 | 83¾ | 2,115 | 81¾ | 2,076 | 111 | 2,819 |
| 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-12-18-HX* | 60¾ | 1,543 | 64¾ | 1,645 | 84¾ | 2,153 | 92½ | 2,350 |
| 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-12-24-HX* | 60¾ | 1,543 | 74 | 1,880 | 84¾ | 2,153 | 92½ | 2,350 |
| 12 | 304.8 | 30 | 762 | NM-M(*)-(Matl)-12-30-HX* | 60¾ | 1,543 | 74 | 1,880 | 84¾ | 2,153 | 101¾ | 2,584 |
| 12 | 304.8 | 36 | 914.4 | NM-M(*)-(Matl)-12-36-HX* | 60¾ | 1,543 | 83¾ | 2,115 | 84¾ | 2,153 | 111 | 2,819 |
| 18 | 457.2 | 24 | 609.6 | NM-M(*)-(Matl)-18-24-HX* | 66¾ | 1,695 | 74 | 1,880 | 90¾ | 2,305 | 92½ | 2,350 |
| 18 | 457.2 | 30 | 762 | NM-M(*)-(Matl)-18-30-HX* | 66¾ | 1,695 | 74 | 1,880 | 90¾ | 2,305 | 101¾ | 2,584 |
| 18 | 457.2 | 36 | 914.4 | NM-M(*)-(Matl)-18-36-HX* | 66¾ | 1,695 | 83¾ | 2,115 | 90¾ | 2,305 | 111 | 2,819 |
| 24 | 609.6 | 30 | 609.6 | NM-M(*)-(Matl)-24-30-HX* | 72¾ | 1,848 | 74 | 1,880 | 96¾ | 2,457 | 101¾ | 2,584 |
| 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-24-36-HX* | 72¾ | 1,848 | 83¾ | 2,115 | 96¾ | 2,457 | 111 | 2,819 |
| 30 | 762 | 36 | 914.4 | NM-M(*)-(Matl)-30-36-HX* | 78¾ | 2,000 | 83¾ | 2,115 | 102¾ | 2,610 | 111 | 2,819 |

(* Side Rail Height. * NOTE: Insert radius, 12" (304.8mm) or 24" (609.6mm). Three pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¾" nominal (235mm). For other types of splice plates, see pages 353-355.

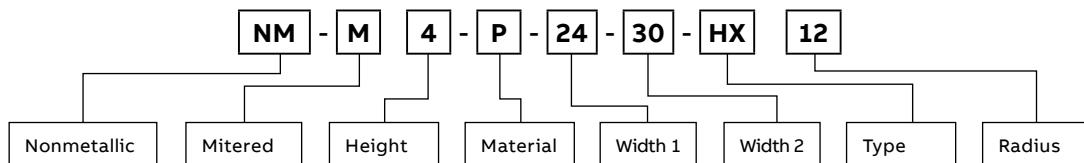
Dimensions



Sample mitered fitting



Fitting number selection



Nonmetallic - Cable tray fittings

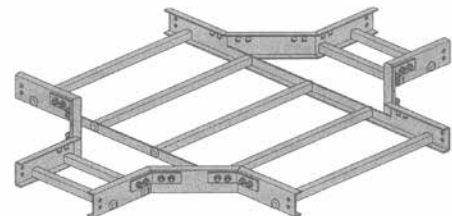
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding/reducing cross fittings

Horizontal expanding/reducing cross – 36" (914.4mm) radius

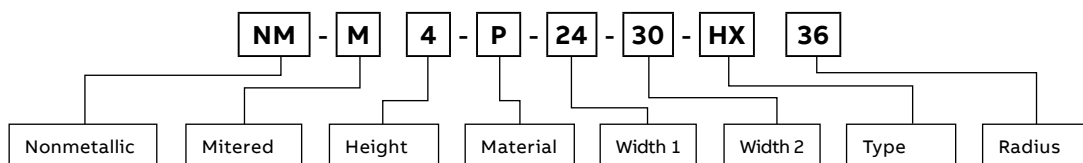
| | Tray width (W1) | | Tray width (W2) | | Cat. No. | 36" (914.4mm) Radius | | | |
|----|-----------------|-------|-----------------|---------------------------|---------------------------|----------------------|--------|---------|--------|
| | (in.) | (mm) | (in.) | (mm) | | A (in.) | A (mm) | B (in.) | B (mm) |
| | 6 | 152.4 | 9 | 228.6 | NM-M(*)-(Matl)-06-09-HX36 | 102¾ | 2,610 | 101¾ | 2,584 |
| | 6 | 152.4 | 12 | 304.8 | NM-M(*)-(Matl)-06-12-HX36 | 102¾ | 2,610 | 111 | 2,819 |
| | 6 | 152.4 | 18 | 457.2 | NM-M(*)-(Matl)-06-18-HX36 | 102¾ | 2,610 | 111 | 2,819 |
| | 6 | 152.4 | 24 | 609.6 | NM-M(*)-(Matl)-06-24-HX36 | 102¾ | 2,610 | 120¾ | 3,054 |
| | 6 | 152.4 | 30 | 609.6 | NM-M(*)-(Matl)-06-30-HX36 | 102¾ | 2,610 | 129½ | 3,289 |
| | 6 | 152.4 | 36 | 762 | NM-M(*)-(Matl)-06-36-HX36 | 102¾ | 2,610 | 129½ | 3,289 |
| | 9 | 228.6 | 12 | 304.8 | NM-M(*)-(Matl)-09-12-HX36 | 105¾ | 2,686 | 111 | 2,819 |
| | 9 | 228.6 | 18 | 457.2 | NM-M(*)-(Matl)-09-18-HX36 | 105¾ | 2,686 | 111 | 2,819 |
| | 9 | 228.6 | 24 | 609.6 | NM-M(*)-(Matl)-09-24-HX36 | 105¾ | 2,686 | 120¾ | 3,054 |
| | 9 | 228.6 | 30 | 609.6 | NM-M(*)-(Matl)-09-30-HX36 | 105¾ | 2,686 | 129½ | 3,289 |
| 9 | 228.6 | 36 | 762 | NM-M(*)-(Matl)-09-36-HX36 | 105¾ | 2,686 | 129½ | 3,289 | |
| 12 | 304.8 | 18 | 457.2 | NM-M(*)-(Matl)-12-18-HX36 | 108¾ | 2,762 | 111 | 2,819 | |
| 12 | 304.8 | 24 | 609.6 | NM-M(*)-(Matl)-12-24-HX36 | 108¾ | 2,762 | 120¾ | 3,054 | |
| 12 | 304.8 | 30 | 609.6 | NM-M(*)-(Matl)-12-30-HX36 | 108¾ | 2,762 | 129½ | 3,289 | |
| 12 | 304.8 | 36 | 762 | NM-M(*)-(Matl)-12-36-HX36 | 108¾ | 2,762 | 129½ | 3,289 | |
| 18 | 457.2 | 24 | 609.6 | NM-M(*)-(Matl)-18-24-HX36 | 115¾ | 2,940 | 120¾ | 3,054 | |
| 18 | 457.2 | 30 | 609.6 | NM-M(*)-(Matl)-18-30-HX36 | 115¾ | 2,940 | 129½ | 3,289 | |
| 18 | 457.2 | 36 | 762 | NM-M(*)-(Matl)-18-36-HX36 | 115¾ | 2,940 | 129½ | 3,289 | |
| 24 | 609.6 | 30 | 609.6 | NM-M(*)-(Matl)-24-30-HX36 | 120¾ | 3,067 | 129½ | 3,289 | |
| 24 | 609.6 | 36 | 762 | NM-M(*)-(Matl)-24-36-HX36 | 120¾ | 3,067 | 129½ | 3,289 | |
| 30 | 762 | 36 | 762 | NM-M(*)-(Matl)-30-36-HX36 | 126¾ | 3,219 | 129½ | 3,289 | |

(*) Side Rail Height. Three pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 353-355.

Sample mitered fitting



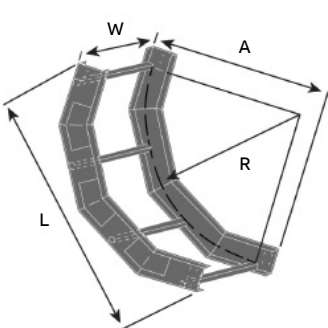
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 90° Vertical inside/outside bend fittings

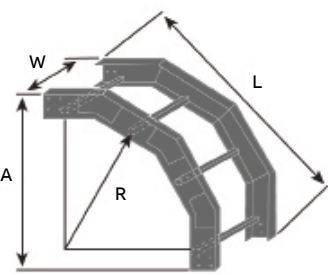
90° Vertical inside bend fittings



| Bend radius (R) | | Tray width (W) | | Cat. No. | Vertical bend 90° | | | |
|-----------------|-------|----------------|-------|----------------------------|--------------------------------|--------|---------------------------------|--------|
| (in.) | (mm) | (in.) | (mm) | | Vertical inside bend | | L (in.) | L (mm) |
| | | | | | A (in.) | A (mm) | | |
| 12 | 304.8 | 4 | 101.6 | NM-M(*)-(Matl)-04-90(**)12 | 20 ⁷ / ₈ | 530 | 29 ¹ / ₂ | 749 |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-90(**)12 | 20 ⁷ / ₈ | 530 | 29 ¹ / ₂ | 749 |
| 12 | 304.8 | 8 | 203.2 | NM-M(*)-(Matl)-08-90(**)12 | 20 ⁷ / ₈ | 530 | 29 ¹ / ₂ | 749 |
| 24 | 609.6 | 4 | 101.6 | NM-M(*)-(Matl)-04-90(**)24 | 32 ⁷ / ₈ | 835 | 46 ¹ / ₂ | 1,181 |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-90(**)24 | 32 ⁷ / ₈ | 835 | 46 ¹ / ₂ | 1,181 |
| 24 | 609.6 | 8 | 203.2 | NM-M(*)-(Matl)-08-90(**)24 | 32 ⁷ / ₈ | 835 | 46 ¹ / ₂ | 1,181 |
| 36 | 914.4 | 4 | 101.6 | NM-M(*)-(Matl)-04-90(**)36 | 44 ⁷ / ₈ | 1,133 | 63 ⁵ / ₁₆ | 1,608 |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-90(**)36 | 44 ⁷ / ₈ | 1,133 | 63 ⁵ / ₁₆ | 1,608 |
| 36 | 914.4 | 8 | 203.2 | NM-M(*)-(Matl)-08-90(**)36 | 44 ⁷ / ₈ | 1,133 | 63 ⁵ / ₁₆ | 1,608 |

(*) Side Rail Height. (**) Add "VI" for vertical inside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9³/₄" nominal (235mm). For other types of splice plates, see pages 353-355.

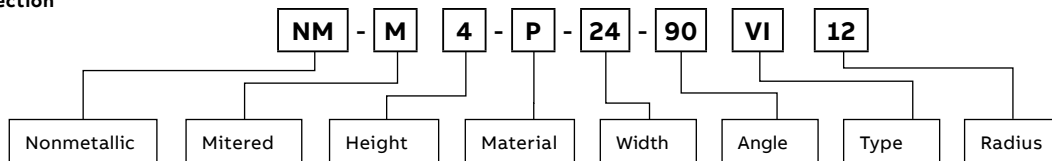
90° Vertical outside bend fittings



| Bend radius (R) | | Tray width (W) | | Cat. No. | Vertical bend 90° | | | |
|-----------------|-------|----------------|-------|----------------------------|--------------------------------|--------|---------------------------------|--------|
| (in.) | (mm) | (in.) | (mm) | | Vertical outside bend | | L (in.) | L (mm) |
| | | | | | A (in.) | A (mm) | | |
| 12 | 304.8 | 4 | 101.6 | NM-M(*)-(Matl)-04-90(**)12 | 19 ⁷ / ₈ | 505 | 28 ³ / ₈ | 714 |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-90(**)12 | 21 ⁷ / ₈ | 555 | 30 ⁵ / ₁₆ | 786 |
| 12 | 304.8 | 8 | 203.2 | NM-M(*)-(Matl)-08-90(**)12 | 23 ⁷ / ₈ | 606 | 33 ³ / ₄ | 857 |
| 24 | 609.6 | 4 | 101.6 | NM-M(*)-(Matl)-04-90(**)24 | 31 ⁷ / ₈ | 810 | 45 ¹ / ₁₆ | 1,145 |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-90(**)24 | 33 ⁷ / ₈ | 860 | 47 ⁵ / ₁₆ | 1,218 |
| 24 | 609.6 | 8 | 203.2 | NM-M(*)-(Matl)-08-90(**)24 | 35 ⁷ / ₈ | 911 | 50 ³ / ₄ | 1,289 |
| 36 | 914.4 | 4 | 101.6 | NM-M(*)-(Matl)-04-90(**)36 | 43 ⁷ / ₈ | 1,114 | 62 ¹ / ₁₆ | 1,576 |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-90(**)36 | 45 ⁷ / ₈ | 1,165 | 64 ⁷ / ₈ | 1,648 |
| 36 | 914.4 | 8 | 203.2 | NM-M(*)-(Matl)-08-90(**)36 | 47 ⁷ / ₈ | 1,216 | 67 ³ / ₄ | 1,721 |

(*) Side Rail Height. (**) Add "VO" for vertical outside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9³/₄" nominal (235mm). For other types of splice plates, see pages 353-355.

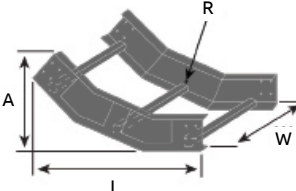
Fitting number selection



Nonmetallic - Cable tray fittings

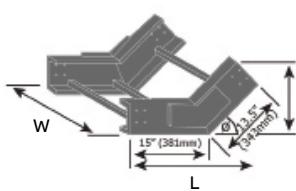
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 45°/30° Vertical inside bend fittings

45° Vertical inside bend

| | | | | | Vertical bend 45° | | | | |
|---|-----------------|-------|----------------|-------|----------------------------|----------------------------------|--------|--------------------------------|--------|
| | | | | | Vertical inside bend | | | | |
| | Bend radius (R) | | Tray width (W) | | Cat. No. | A (in.) | A (mm) | L (in.) | L (mm) |
| | (in.) | (mm) | (in.) | (mm) | | | | | |
|  | 12 | 304.8 | 3 | 76.2 | NM-M(*)-(Matl)-03-45(**)12 | 8 | 203 | 18 | 457 |
| | 12 | 304.8 | 4 | 101.6 | NM-M(*)-(Matl)-04-45(**)12 | 11 ¹ / ₁₆ | 281 | 19 ⁷ / ₈ | 505 |
| | 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-45(**)12 | 12 ¹ / ₂ | 318 | 19 ⁷ / ₈ | 505 |
| | 12 | 304.8 | 8 | 203.2 | NM-M(*)-(Matl)-08-45(**)12 | 13 ⁷ / ₈ | 352 | 19 ⁷ / ₈ | 505 |
| | 24 | 609.6 | 3 | 76.2 | NM-M(*)-(Matl)-03-45(**)24 | 9 | 229 | 24 | 610 |
| | 24 | 609.6 | 4 | 101.6 | NM-M(*)-(Matl)-04-45(**)24 | 14 ⁹ / ₁₆ | 370 | 28 ³ / ₈ | 721 |
| | 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-45(**)24 | 16 | 406 | 28 ³ / ₈ | 721 |
| | 24 | 609.6 | 8 | 203.2 | NM-M(*)-(Matl)-08-45(**)24 | 17 ⁷ / ₁₆ | 443 | 28 ³ / ₈ | 721 |
| | 36 | 914.4 | 3 | 76.2 | NM-M(*)-(Matl)-03-45(**)36 | 11 | 279 | 30 | 762 |
| | 36 | 914.4 | 4 | 101.6 | NM-M(*)-(Matl)-04-45(**)36 | 18 ³ / ₈ | 470 | 36 ⁷ / ₈ | 937 |
| | 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-45(**)36 | 19 ¹ / ₂ | 495 | 36 ⁷ / ₈ | 937 |
| | 36 | 914.4 | 8 | 203.2 | NM-M(*)-(Matl)-08-45(**)36 | 20 ¹⁵ / ₁₆ | 532 | 36 ⁷ / ₈ | 937 |

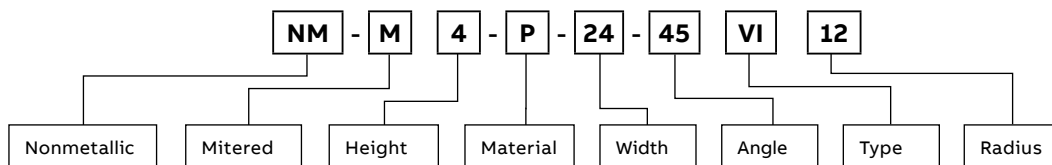
(*) Side Rail Height. (**) Add "VI" for vertical inside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9³/₄" nominal (235mm). For other types of splice plates, see pages 353-355.

30° Vertical inside bend

| | | | | | Vertical bend 30° | | | | |
|---|-----------------|-------|----------------|-------|----------------------------|---------|--------|---------|--------|
| | | | | | Vertical inside bend | | | | |
| | Bend radius (R) | | Tray width (W) | | Cat. No. | A (in.) | A (mm) | L (in.) | L (mm) |
| | (in.) | (mm) | (in.) | (mm) | | | | | |
|  | 12 | 304.8 | 3 | 76.2 | NM-M(*)-(Matl)-03-30(**)12 | 8 | 203 | 18 | 457 |
| | 12 | 304.8 | 4 | 101.6 | NM-M(*)-(Matl)-04-30(**)12 | 9 | 229 | 18 | 457 |
| | 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-30(**)12 | 10 | 254 | 18 | 457 |
| | 12 | 304.8 | 8 | 203.2 | NM-M(*)-(Matl)-08-30(**)12 | 12 | 305 | 18 | 457 |
| | 24 | 609.6 | 3 | 76.2 | NM-M(*)-(Matl)-03-30(**)24 | 9 | 229 | 24 | 610 |
| | 24 | 609.6 | 4 | 101.6 | NM-M(*)-(Matl)-04-30(**)24 | 10 | 254 | 24 | 610 |
| | 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-30(**)24 | 12 | 305 | 24 | 610 |
| | 24 | 609.6 | 8 | 203.2 | NM-M(*)-(Matl)-08-30(**)24 | 14 | 356 | 24 | 610 |
| | 36 | 914.4 | 3 | 76.2 | NM-M(*)-(Matl)-03-30(**)36 | 11 | 279 | 30 | 762 |
| | 36 | 914.4 | 4 | 101.6 | NM-M(*)-(Matl)-04-30(**)36 | 12 | 305 | 30 | 762 |
| | 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-30(**)36 | 14 | 356 | 30 | 762 |
| | 36 | 914.4 | 8 | 203.2 | NM-M(*)-(Matl)-08-30(**)36 | 15 | 381 | 30 | 762 |

(*) Side Rail Height. (**) Add "VI" for vertical inside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9³/₄" nominal (235mm). For other types of splice plates, see pages 353-355.

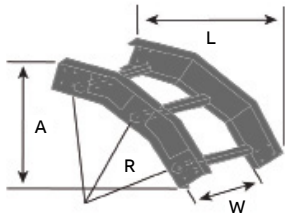
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 35°/45° Vertical outside bend fittings

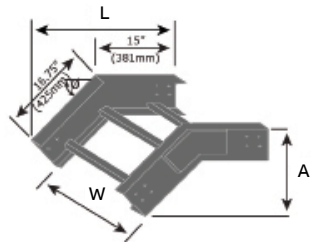
45° Vertical outside bend



| Bend radius (R) | | | | Tray width (W) | | Vertical bend 45° | | | |
|-----------------|-------|-------|-------|----------------------------|--|---------------------------------|--------|---------------------------------|--------|
| | | | | | | Vertical outside bend | | | |
| (in.) | (mm) | (in.) | (mm) | Cat. No. | | A (in.) | A (mm) | L (in.) | L (mm) |
| 12 | 304.8 | 3 | 76.2 | NM-M(*)-(Matl)-03-45(**)12 | | 7 | 178 | 17 | 432 |
| 12 | 304.8 | 4 | 101.6 | NM-M(*)-(Matl)-04-45(**)12 | | 10 ³ / ₁₆ | 273 | 19 ³ / ₁₆ | 487 |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-45(**)12 | | 12 ³ / ₁₆ | 324 | 19 ³ / ₁₆ | 522 |
| 12 | 304.8 | 8 | 203.2 | NM-M(*)-(Matl)-08-45(**)12 | | 14 ³ / ₁₆ | 375 | 22 | 559 |
| 24 | 609.6 | 3 | 76.2 | NM-M(*)-(Matl)-03-45(**)24 | | 9 | 229 | 23 | 584 |
| 24 | 609.6 | 4 | 101.6 | NM-M(*)-(Matl)-04-45(**)24 | | 14 ⁵ / ₁₆ | 364 | 27 ¹ / ₁₆ | 703 |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-45(**)24 | | 16 ⁵ / ₁₆ | 414 | 29 ¹ / ₁₆ | 738 |
| 24 | 609.6 | 8 | 203.2 | NM-M(*)-(Matl)-08-45(**)24 | | 18 ⁵ / ₁₆ | 465 | 30 ¹ / ₂ | 775 |
| 36 | 914.4 | 3 | 76.2 | NM-M(*)-(Matl)-03-45(**)36 | | 11 | 279 | 29 | 737 |
| 36 | 914.4 | 4 | 101.6 | NM-M(*)-(Matl)-04-45(**)36 | | 17 ¹ / ₂ | 452 | 36 ¹ / ₂ | 918 |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-45(**)36 | | 19 ¹ / ₂ | 503 | 37 ¹ / ₂ | 954 |
| 36 | 914.4 | 8 | 203.2 | NM-M(*)-(Matl)-08-45(**)36 | | 21 ¹ / ₂ | 554 | 39 | 991 |

(*) Side Rail Height. (**) Add "VO" for vertical outside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¹/₄" nominal (235mm). For other types of splice plates, see pages 353-355.

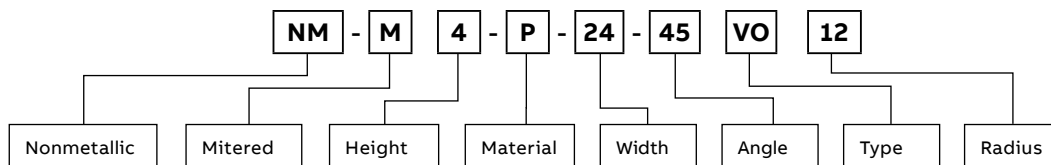
30° Vertical outside bend



| Bend radius (R) | | | | Tray width (W) | | Vertical bend 30° | | | |
|-----------------|-------|-------|-------|----------------------------|--|-----------------------|--------|---------|--------|
| | | | | | | Vertical outside bend | | | |
| (in.) | (mm) | (in.) | (mm) | Cat. No. | | A (in.) | A (mm) | L (in.) | L (mm) |
| 12 | 304.8 | 3 | 76.2 | NM-M(*)-(Matl)-03-30(**)12 | | 7 | 178 | 17 | 432 |
| 12 | 304.8 | 4 | 101.6 | NM-M(*)-(Matl)-04-30(**)12 | | 8 | 203 | 17 | 432 |
| 12 | 304.8 | 6 | 152.4 | NM-M(*)-(Matl)-06-30(**)12 | | 10 | 254 | 18 | 457 |
| 12 | 304.8 | 8 | 203.2 | NM-M(*)-(Matl)-08-30(**)12 | | 10 | 254 | 18 | 457 |
| 24 | 609.6 | 3 | 76.2 | NM-M(*)-(Matl)-03-30(**)24 | | 9 | 229 | 23 | 584 |
| 24 | 609.6 | 4 | 101.6 | NM-M(*)-(Matl)-04-30(**)24 | | 10 | 254 | 23 | 584 |
| 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-30(**)24 | | 12 | 305 | 24 | 610 |
| 24 | 609.6 | 8 | 203.2 | NM-M(*)-(Matl)-08-30(**)24 | | 12 | 305 | 24 | 610 |
| 36 | 914.4 | 3 | 76.2 | NM-M(*)-(Matl)-03-30(**)36 | | 11 | 279 | 29 | 737 |
| 36 | 914.4 | 4 | 101.6 | NM-M(*)-(Matl)-04-30(**)36 | | 12 | 305 | 29 | 737 |
| 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-30(**)36 | | 14 | 356 | 30 | 762 |
| 36 | 914.4 | 8 | 203.2 | NM-M(*)-(Matl)-08-30(**)36 | | 14 | 356 | 30 | 762 |

(*) Side Rail Height. (**) Add "VO" for vertical outside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9¹/₄" nominal (235mm). For other types of splice plates, see pages 353-355.

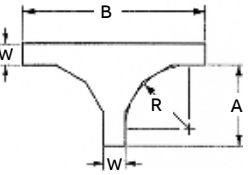
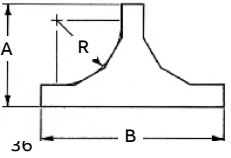
Fitting number selection



Nonmetallic - Cable tray fittings

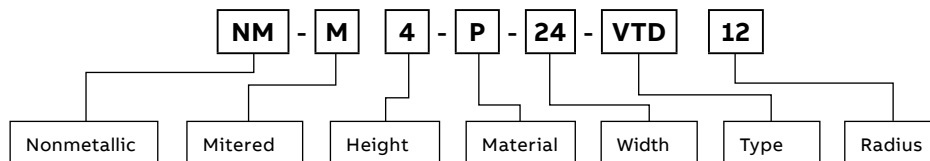
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Vertical tee fittings

Vertical tee

| | Bend radius (R) | | Tray width (W) | | Cat. No. | Vertical tee | | | |
|--|-----------------|-------|----------------|-------|--------------------------|------------------|-------|------------------|-------|
| | (in.) | (mm) | (in.) | (mm) | | A (in.) | (mm) | B (in.) | (mm) |
| VTD vertical tee down  | 24 | 609.6 | 6 | 152.4 | NM-M(*)-(Matl)-06-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| | 24 | 609.6 | 9 | 228.6 | NM-M(*)-(Matl)-09-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| | 24 | 609.6 | 12 | 304.8 | NM-M(*)-(Matl)-12-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| | 24 | 609.6 | 18 | 457.2 | NM-M(*)-(Matl)-18-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| | 24 | 609.6 | 24 | 609.6 | NM-M(*)-(Matl)-24-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| | 24 | 609.6 | 30 | 762.0 | NM-M(*)-(Matl)-30-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| | 24 | 609.6 | 36 | 914.4 | NM-M(*)-(Matl)-36-(**)24 | 33 $\frac{7}{8}$ | 860 | 61 $\frac{3}{4}$ | 1,568 |
| VTU vertical tee up  | 36 | 914.4 | 6 | 152.4 | NM-M(*)-(Matl)-06-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |
| | 36 | 914.4 | 9 | 228.6 | NM-M(*)-(Matl)-09-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |
| | 36 | 914.4 | 12 | 304.8 | NM-M(*)-(Matl)-12-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |
| | 36 | 914.4 | 18 | 457.2 | NM-M(*)-(Matl)-18-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |
| | 36 | 914.4 | 24 | 609.6 | NM-M(*)-(Matl)-24-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |
| | 36 | 914.4 | 30 | 762.0 | NM-M(*)-(Matl)-30-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |
| | 36 | 914.4 | 36 | 914.4 | NM-M(*)-(Matl)-36-(**)36 | 45 $\frac{7}{8}$ | 1,165 | 79 $\frac{1}{2}$ | 2,178 |

(*) Side Rail Height. (**) Add: "VTD" for vertical tee down or "VTU" for vertical tee up to complete Cat. No. Two pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your ABB representative. Consult your ABB representative for availability of molded fittings. Standard rung spacing for fittings is 9 $\frac{1}{4}$ " nominal (235mm). For other types of splice plates, see pages 353-355.

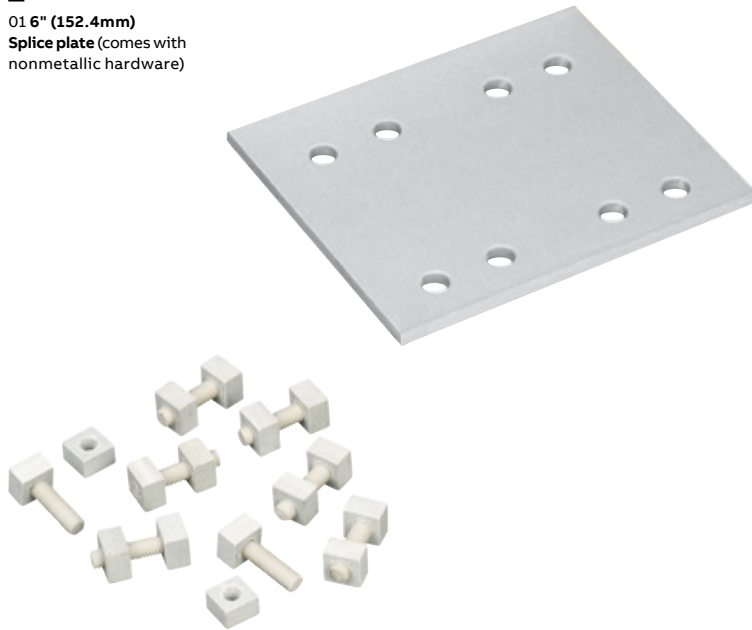
Fitting number selection



Nonmetallic - Cable tray

Splice plates

01 6" (152.4mm)
Splice plate (comes with nonmetallic hardware)



Splice plate number selection

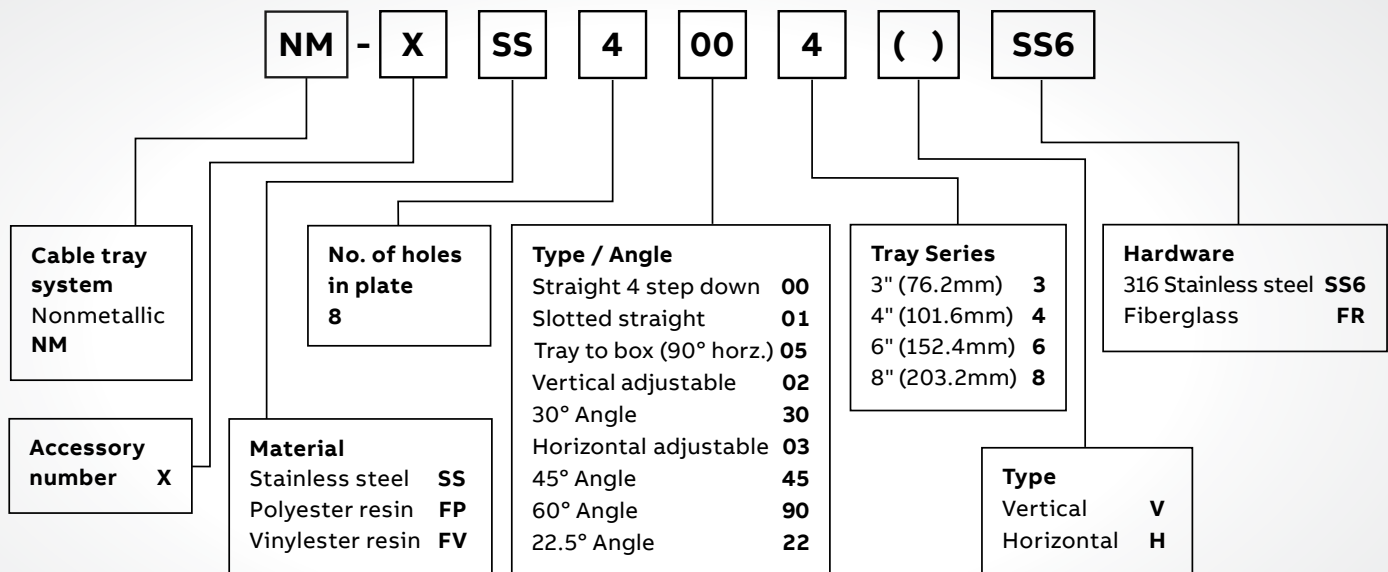
Example:

NM-XSS4004SS6

- 316 stainless steel
- 4 holes supplied with 316 stainless steel hardware for a 4" (101.6mm) deep straight section.

NOTE: Splice plates shown on pages 353-355 represent splices for 6" (152.4mm) side rail height. Number of holes may vary with other side rail heights.

01



Nonmetallic - Cable tray

Splice plates

Standard splice plates

| | Cat. No. | Material | Height (in.) | Height (mm) |
|--|--------------|------------------|--------------|-------------|
| | NM-XSS-8008* | Stainless steel | 8 | 203.2 |
| | NM-XSS-4006* | Polyester resin | 6 | 152.4 |
| | NM-XSS-4004* | Vinylester resin | 4 | 101.6 |
| | NM-XSS-4003* | | 3 | 76.2 |

* Hardware suffix needed to complete catalog number. All splice plate hardware is $\frac{3}{16}$ ". Quantity required supplied with each tray section. Order only pairs of splice plates needed for field modifications. SS6 hardware supplied as standard - use SS6 suffix. Other hardware available; specify by hardware suffix.

Expansion splice plates

| | Cat. No. | Material | Height (in.) | Height (mm) |
|--|--------------|------------------|--------------|-------------|
| | NM-XSS-8018* | Stainless steel | 8 | 203.2 |
| | NM-XSS-8016* | Polyester resin | 6 | 152.4 |
| | NM-XSS-4014* | Vinylester resin | 4 | 101.6 |
| | NM-XSS-4013* | | 3 | 76.2 |

Allow for up to 1" (25.4mm) expansion or contraction of tray system. For correct gap setting procedure, see page 324.

* Hardware suffix needed to complete catalog number.

Horizontal adjustable splice plates

| | Cat. No. | Material | Height (in.) | Height (mm) |
|--|--------------|------------------|--------------|-------------|
| | NM-XSS-8038* | Stainless steel | 8 | 203.2 |
| | NM-XSS-4036* | Polyester resin | 6 | 152.4 |
| | NM-XSS-4034* | Vinylester resin | 4 | 101.6 |
| | NM-XSS-4033* | | 3 | 76.2 |

Provide for changes in the horizontal direction that do not conform to standard fittings. Furnished in pairs.

* Hardware suffix needed to complete catalog number.

Vertical adjustable splice plates

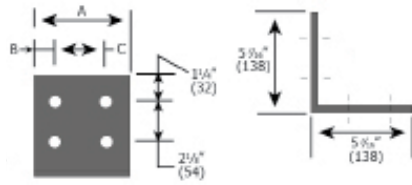
| | Cat. No. | Material | Height (in.) | Height (mm) |
|--|--------------|------------------|--------------|-------------|
| | NM-XSS-8028* | Stainless steel | 8 | 203.2 |
| | NM-XSS-4026* | Polyester resin | 6 | 152.4 |
| | NM-XSS-4024* | Vinylester resin | 4 | 101.6 |
| | NM-XSS-4023* | | 3 | 76.2 |

Provide for changes in elevation that do not conform to standard vertical fittings. Furnished in pairs.

* Hardware suffix needed to complete catalog number.

Nonmetallic - Cable tray

Splice plates

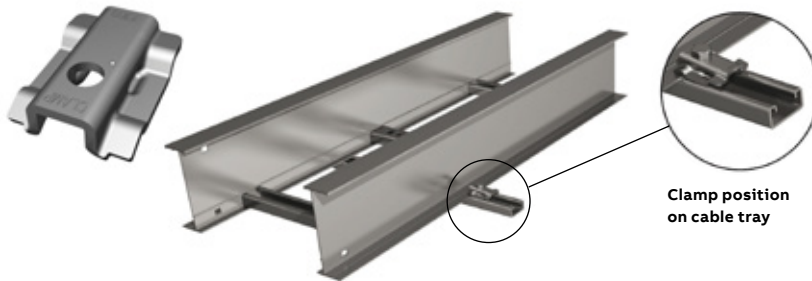


Tray-to-box splice plates

- Used to attach the end of a tray run to a distribution box or control center
- Furnished in pairs

| Cat. No. | Cat. No. | Cat. No. | Height (in.) | Height (mm) |
|-----------------|-----------------|------------------|--------------|-------------|
| Stainless steel | Polyester resin | Vinylester resin | | |
| NM-XSS8058* | NM-XFP8058* | NM-XFV8058* | 8 | 203.2 |
| NM-XSS4056* | NM-XFP4056* | NM-XFV4056* | 6 | 152.4 |
| NM-XSS4054* | NM-XFP4054* | NM-XFV4054* | 4 | 101.6 |
| NM-XSS4053* | NM-XFP4053* | NM-XFV4053* | 3 | 76.2 |

Hardware other than SS6 is considered special. * Hardware supplied: 1 bolt and 1 springless strut nut 3/8 diameter.

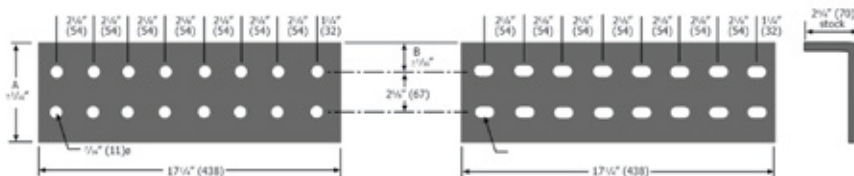


- Easy-to-install design
- Compatible with all series of T&B Cable Tray
- Available in aluminum, pre-galvanized steel, hot-dipped galvanized steel and stainless steel 316
- Versatile use for strut and beam installations
- Functional in all cable tray positions including vertical installations

Combo hold down guide clamp

| Cat. No. | Material | Hardware size (in.) | Std. pkg. qty. |
|--------------|---------------------------|---------------------|----------------|
| SSWCHGC | Stainless steel type 316L | 3/8 | 1 |
| SSWCHGC-HDW* | Stainless steel type 316L | 3/8 | 1 |

* Hardware supplied: 1 bolt and 1 springless strut nut 3/8 diameter.

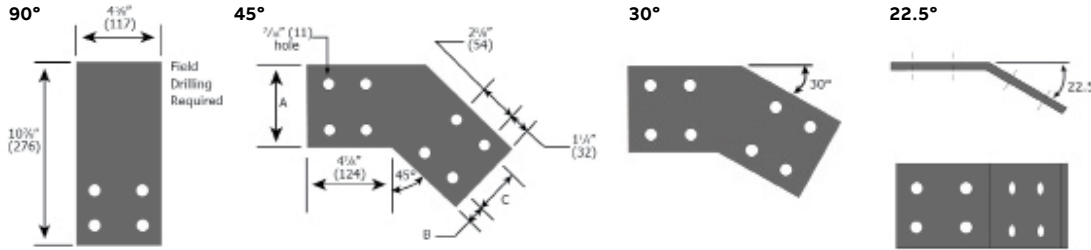


Heavy duty splice plate

| Cat. No. | Description | Height (in.) | Height (mm) | Width (in.) | Width (mm) |
|--------------------|--------------------------------|--------------|-------------|-------------|------------|
| NM-XFP16-00-8H-SS6 | 16 hole standard splice plate | 8 | 204 | 17 1/4 | 438.2 |
| NM-XFP16-01-8H-SS6 | 16 hole expansion splice plate | 8 | 204 | 17 1/4 | 438.2 |

Nonmetallic - Cable tray

Splice plates



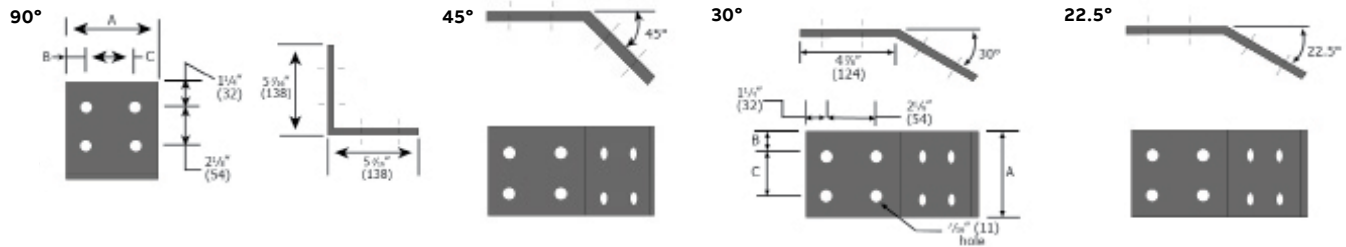
Vertical splice plate

| Cat. No. Stainless steel | Cat. No. Polyester resin | Cat. No. Vinylester resin | Height (in.) | Height (mm) |
|-----------------------------|-----------------------------|------------------------------|-----------------|----------------|
| 90° | | | | |
| NM-XSS-8908V* | NM-XFP-8908V* | NM-XFV-8908V* | 8 | 203.2 |
| NM-XSS-8906V* | NM-XFP-8906V* | NM-XFV-8906V* | 6 | 152.4 |
| NM-XSS-4904V* | NM-XFP-4904V* | NM-XFV-4904V* | 4 | 101.6 |
| NM-XSS-4903V* | NM-XFP-4903V* | NM-XFV-4903V* | 3 | 76.2 |
| 45° | | | | |
| NM-XSS-8458V* | NM-XFP-8458V* | NM-XFV-8458V* | 8 | 203.2 |
| NM-XSS-8456V* | NM-XFP-8456V* | NM-XFV-8456V* | 6 | 152.4 |
| NM-XSS-4454V* | NM-XFP-4454V* | NM-XFV-4454V* | 4 | 101.6 |
| NM-XSS-4453V* | NM-XFP-4453V* | NM-XFV-4453V* | 3 | 76.2 |

* Hardware suffix needed to complete catalog number.

| Cat. No. Stainless steel | Cat. No. Polyester resin | Cat. No. Vinylester resin | Height (in.) | Height (mm) |
|-----------------------------|-----------------------------|------------------------------|-----------------|----------------|
| 30° | | | | |
| NM-XSS-8308V* | NM-XFP-8308V* | NM-XFV-8308V* | 8 | 203.2 |
| NM-XSS-8306V* | NM-XFP-8306V* | NM-XFV-8306V* | 6 | 152.4 |
| NM-XSS-4304V* | NM-XFP-4304V* | NM-XFV-4304V* | 4 | 101.6 |
| NM-XSS-4303V* | NM-XFP-4303V* | NM-XFV-4303V* | 3 | 76.2 |
| 22.5° | | | | |
| NM-XSS-8228V* | NM-XFP-8228V* | NM-XFV-8228V* | 6 | 152.4 |
| NM-XSS-8226V* | NM-XFP-8226V* | NM-XFV-8226V* | 6 | 152.4 |
| NM-XSS-4224V* | NM-XFP-4224V* | NM-XFV-4224V* | 4 | 101.6 |
| NM-XSS-4223V* | NM-XFP-4223V* | NM-XFV-4223V* | 3 | 76.2 |

* Hardware suffix needed to complete catalog number.



Horizontal splice plates

| Cat. No. Stainless steel | Cat. No. Polyester resin | Cat. No. Vinylester resin | Height (in.) | Height (mm) |
|-----------------------------|-----------------------------|------------------------------|-----------------|----------------|
| 90° | | | | |
| NM-XSS-8908H* | NM-XFP-8908H* | NM-XFV-8908H* | 8 | 203.2 |
| NM-XSS-8906H* | NM-XFP-8906H* | NM-XFV-8906H* | 6 | 152.4 |
| NM-XSS-4904H* | NM-XFP-4904H* | NM-XFV-4904H* | 4 | 101.6 |
| NM-XSS-4903H* | NM-XFP-4903H* | NM-XFV-4903H* | 3 | 76.2 |
| 45° | | | | |
| NM-XSS-8458H* | NM-XFP-8458H* | NM-XFV-8458H* | 8 | 203.2 |
| NM-XSS-8456H* | NM-XFP-8456H* | NM-XFV-8456H* | 6 | 152.4 |
| NM-XSS-4454H* | NM-XFP-4454H* | NM-XFV-4454H* | 4 | 101.6 |
| NM-XSS-4453H* | NM-XFP-4453H* | NM-XFV-4453H* | 3 | 76.2 |

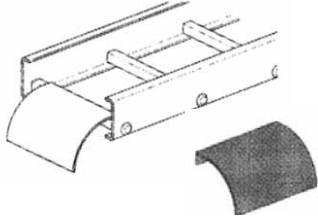
* Hardware suffix needed to complete catalog number.

| Cat. No. Stainless steel | Cat. No. Polyester resin | Cat. No. Vinylester resin | Height (in.) | Height (mm) |
|-----------------------------|-----------------------------|------------------------------|-----------------|----------------|
| 30° | | | | |
| NM-XSS-8308H* | NM-XFP-8308H* | NM-XFV-8308H* | 8 | 203.2 |
| NM-XSS-8306H* | NM-XFP-8306H* | NM-XFV-8306H* | 6 | 152.4 |
| NM-XSS-4304H* | NM-XFP-4304H* | NM-XFV-4304H* | 4 | 101.6 |
| NM-XSS-4303H* | NM-XFP-4303H* | NM-XFV-4303H* | 3 | 76.2 |
| 22.5° | | | | |
| NM-XSS-8228H* | NM-XFP-8228H* | NM-XFV-8228H* | 6 | 152.4 |
| NM-XSS-8226H* | NM-XFP-8226H* | NM-XFV-8226H* | 6 | 152.4 |
| NM-XSS-4224H* | NM-XFP-4224H* | NM-XFV-4224H* | 4 | 101.6 |
| NM-XSS-4223H* | NM-XFP-4223H* | NM-XFV-4223H* | 3 | 76.2 |

* Hardware suffix needed to complete catalog number.

Nonmetallic - Cable tray systems

Drop outs and barrier strips



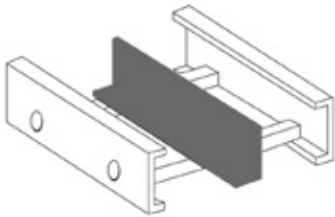
Ladder drop out

Specially designed ladder drop outs provide a rounded surface with adequate radius to protect cable as it exits from the tray, preventing damage to insulation.

| Cat. No. | Material |
|------------------|----------------------|
| NM-XWC-P-W*-9034 | Pultruded fiberglass |

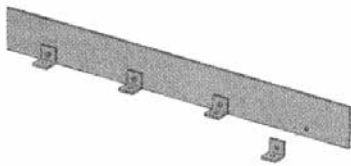
W = Tray width.

Barriers



| Cat. No. | Material | Side rail height (in.) | Side rail height (mm) |
|--------------|------------------|------------------------|-----------------------|
| NM-BS08P-120 | Polyester resin | 8 | 203.2 |
| NM-BS06P-120 | Polyester resin | 6 | 152.4 |
| NM-BS04P-120 | Polyester resin | 4 | 101.6 |
| NM-BS03P-120 | Polyester resin | 3 | 76.2 |
| NM-BS08V-120 | Vinylester resin | 8 | 203.2 |
| NM-BS06V-120 | Vinylester resin | 6 | 152.4 |
| NM-BS04V-120 | Vinylester resin | 4 | 101.6 |
| NM-BS03V-120 | Vinylester resin | 3 | 76.2 |

Barriers are provided in 10 ft. lengths and supplied for field installation using 3/16" SS rivets (ref. part # TPDR) or use of an adjustable clamp ref. part # XXX (for 3, 4, 6 and 8" deep ladder tray).



Flexible horizontal barrier kit

Kit contents

- 1 pc. 72" (1,828.8mm) straight barrier
- 4 pc. XF-9002 barrier strip clip
- 8 pc. SS6 pop rivets
- 4 pc. #10 x 3/4" stainless steel self-tapping screw
- Assembly required - directions included

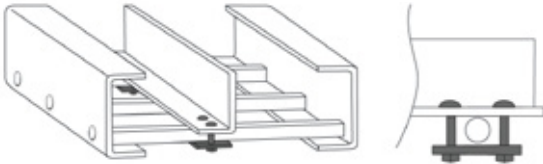
| Cat. No. | Material | Side rail height (in.) | Side rail height (mm) | Loading depth (in.) | Loading depth (mm) |
|-----------------|------------------|------------------------|-----------------------|---------------------------------|--------------------|
| NM-BS08P-90HBFL | Polyester resin | 8 | 203.2 | 6 ¹¹ / ₁₆ | 169.86 |
| NM-BS06P-90HBFL | Polyester resin | 6 | 152.4 | 4 ¹¹ / ₁₆ | 119.06 |
| NM-BS04P-90HBFL | Polyester resin | 4 | 101.6 | 2 ¹¹ / ₁₆ | 68.26 |
| NM-BS03P-90HBFL | Polyester resin | 3 | 76.2 | 1 ³ / ₄ | 44.45 |
| NM-BS08V-90HBFL | Vinylester resin | 8 | 203.2 | 6 ¹¹ / ₁₆ | 169.86 |
| NM-BS06V-90HBFL | Vinylester resin | 6 | 152.4 | 4 ¹¹ / ₁₆ | 169.86 |
| NM-BS04V-90HBFL | Vinylester resin | 4 | 101.6 | 2 ¹¹ / ₁₆ | 68.26 |
| NM-BS03V-90HBFL | Vinylester resin | 3 | 76.2 | 1 ³ / ₄ | 44.45 |

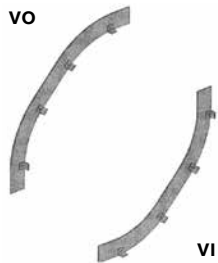
One kit allows up to 38 (965.2mm) radius position of the barrier.
For larger than 38 (965.2mm) radius barrier position, two kits are required.

Nonmetallic - Cable tray systems

Barrier strips and blind end plates

Barrier mounting angle clips with fasteners

| | Cat. No. | Material |
|---|-----------|---|
|  | NM-PK-BAC | Pultruded fiberglass (polyester & vinylester) |



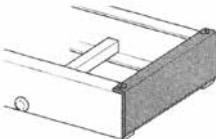
Vertical barrier

- Barriers for vertical fitting
- Please add angle (X) and radius (r) to catalog number
- Furnished with #10 x 3/4" self-tapping stainless steel screws

| Cat. No. | Material | Height (in.) | Height (mm) |
|------------------|------------------|--------------|-------------|
| NM-BS08P(X)VI/VO | Polyester resin | 8 | 203.2 |
| NM-BS06P(X)VI/VO | Polyester resin | 6 | 152.4 |
| NM-BS04P(X)VI/VO | Polyester resin | 4 | 101.6 |
| NM-BS03P(X)VI/VO | Polyester resin | 3 | 76.2 |
| NM-BS08V(X)VI/VO | Vinylester resin | 8 | 203.2 |
| NM-BS06V(X)VI/VO | Vinylester resin | 6 | 152.4 |
| NM-BS04V(X)VI/VO | Vinylester resin | 4 | 101.6 |
| NM-BS03V(X)VI/VO | Vinylester resin | 3 | 76.2 |

VI = inside vertical, VO = outside vertical.

Blind end plates

| | Cat. No. | Material | Height (in.) | Height (mm) |
|---|----------------|-----------------------|--------------|-------------|
|  | NM-XBE*1088W** | Polyester/ Vinylester | 8 | 203.2 |
| | NM-XBE*1086W** | Polyester/ Vinylester | 6 | 152.4 |
| | NM-XBE*1084W** | Polyester/ Vinylester | 4 | 101.6 |
| | NM-XBE*1083W** | Polyester/ Vinylester | 3 | 76.2 |

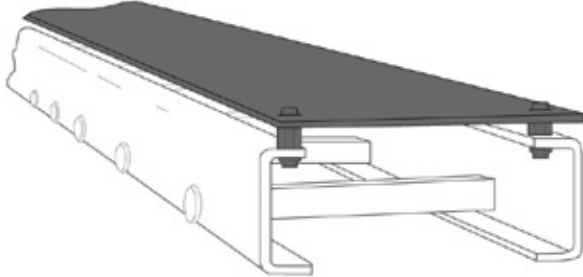
Forms a closure for any tray that dead ends. Furnished as one plate.

* Material suffix, P=Polyester, V= Vinylester. ** Hardware suffix needed to complete catalog number.

W = Tray width

Nonmetallic - Cable tray covers

Covers



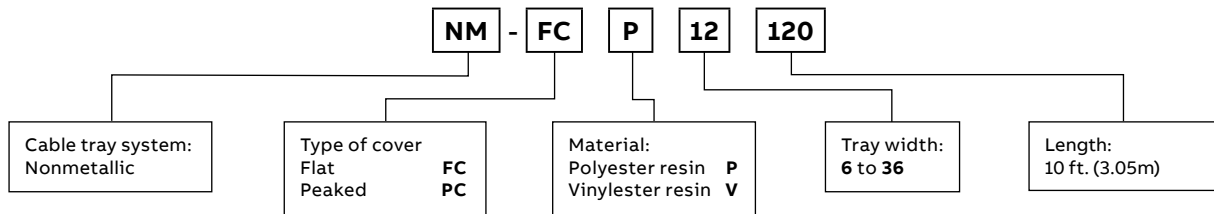
Covers for straight sections

- Material thickness: 1/8" (3.18mm)
- Standard cover length: 120" (10 ft.)
- 1/4" (6.35mm) diameter stainless fasteners with flat washers included

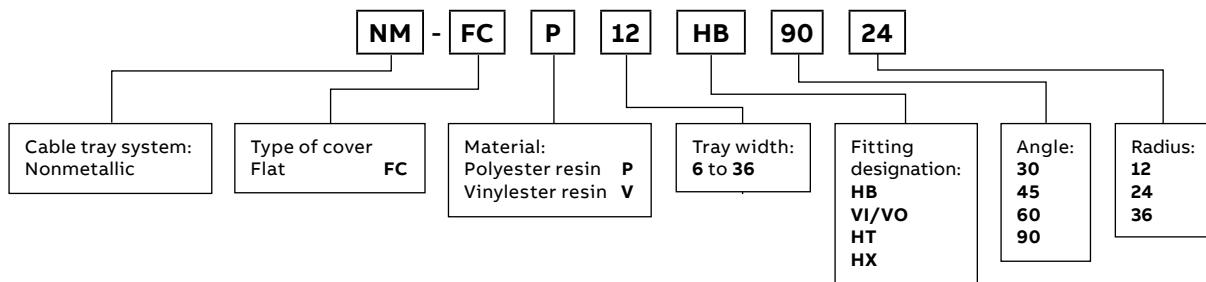
Covers for fittings

- Material thickness: 1/8" (3.18mm)
- 1/4" (6.35mm) diameter stainless fasteners with flat washers included

Covers for straight sections - Selection guide



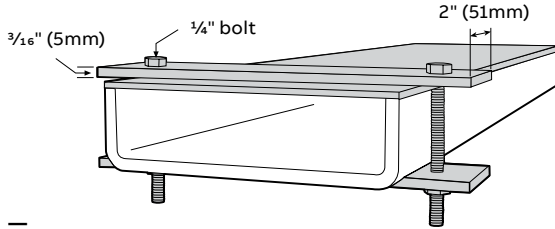
Covers for fittings - Selection guide



NOTE: Peaked fitting covers not available. Other fitting covers are available. Please consult your ABB representative.

Nonmetallic - Cable tray

Accessories



Heavy-duty cover clamp

- Recommended for outdoor service
- Heavy-duty cover clamp available for flat covers only
- Available in stainless steel only

| Cat. No. | Material | Side rail height (in.) | Side rail height (mm) |
|------------------|-----------------|------------------------|-----------------------|
| NM-XWC-P-W*-9084 | Stainless steel | 8 | 203.2 |
| NM-XWC-P-W*-9064 | Stainless steel | 6 | 152.4 |
| NM-XWC-P-W*-9044 | Stainless steel | 4 | 101.6 |
| NM-XWC-P-W*-9034 | Stainless steel | 3 | 76.2 |

* W = Tray width

Pop rivets

| | Cat. No. | Material |
|--|----------|-----------------|
| | TPDR | Stainless steel |
| | | Thermoplastic |

Raised cover clamps available.
Please consult your ABB representative.



Kit contents

- Resin
- Catalyst
- Stir stick and applicator

Brush-on resin seal kit

| Cat. No. | Description |
|-----------|-------------|
| NM-RSK-QT | 946 ml |

To reseal fiberglass after field modifications.
Vinylester resin.

Spray sealant

| | Cat. No. | Description |
|--|---------------|----------------|
| | NM-CLEAR-1215 | 12 fl. oz. can |

Spray acrylic to reseal fiberglass after field modifications. Should be used for top coating polyester applications only.
Not recommended to seal vinylester.