

# Nonmetallic - Cable tray Fittings

NOTE: Splice plates NOT included. See pages B38-B41 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 B7 of the technical information section for the effect of environmental conditions on the desired material; for the effective temperature range, see page B9 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

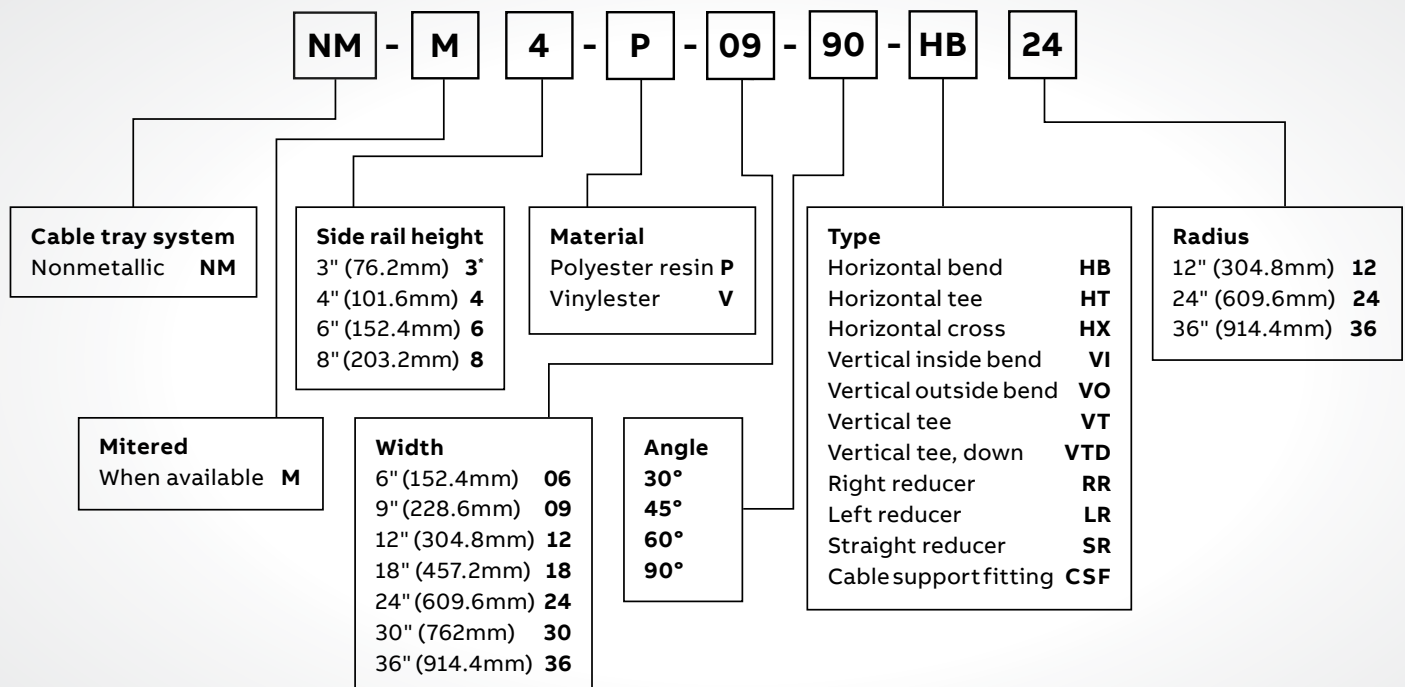
To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalog number.

### Example:

NM-4P0924-120

- 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 B38-B41.



\*Series 3 cable tray does not have UL or CSA listing.

## 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

|                                                                                   |       |             |       |                         | Vertical bend 45°       |        |         |        |     |
|-----------------------------------------------------------------------------------|-------|-------------|-------|-------------------------|-------------------------|--------|---------|--------|-----|
|                                                                                   |       |             |       |                         | Vertical outside bend   |        |         |        |     |
| Bend radius (R)                                                                   |       | Tray Height |       |                         |                         |        |         |        |     |
| (in.)                                                                             | (mm)  | (in.)       | (mm)  | Cat. No.                | A (in.)                 | A (mm) | L (in.) | L (mm) |     |
|  | 12    | 304.8       | 3     | 76.2                    | NM-M3-(Matl)-(*)-45VO12 | 9 ¾    | 248     | 18 ½   | 470 |
|                                                                                   | 24    | 609.6       |       |                         | NM-M3-(Matl)-(*)-45VO24 | 13 ⅝   | 338     | 27     | 686 |
|                                                                                   | 36    | 914.4       |       |                         | NM-M3-(Matl)-(*)-45VO36 | 16 ⅜   | 427     | 35 ½   | 902 |
|                                                                                   | 12    | 304.8       | 4     | 101.6                   | NM-M4-(Matl)-(*)-45VO12 | 10 ¾   | 273     | 19 ⅝   | 487 |
|                                                                                   | 24    | 609.6       |       |                         | NM-M4-(Matl)-(*)-45VO24 | 14 ⅝   | 364     | 27 ⅜   | 703 |
|                                                                                   | 36    | 914.4       |       |                         | NM-M4-(Matl)-(*)-45VO36 | 17 ⅜   | 452     | 36 ⅞   | 918 |
|                                                                                   | 12    | 304.8       | 6     | 152.4                   | NM-M6-(Matl)-(*)-45VO12 | 12 ¾   | 324     | 20 ⅝   | 522 |
|                                                                                   | 24    | 609.6       |       |                         | NM-M6-(Matl)-(*)-45VO24 | 16 ⅝   | 414     | 29 ⅝   | 738 |
|                                                                                   | 36    | 914.4       |       |                         | NM-M6-(Matl)-(*)-45VO36 | 19 ⅜   | 503     | 37 ⅝   | 954 |
| 12                                                                                | 304.8 | 8           | 203.2 | NM-M8-(Matl)-(*)-45VO12 | 14 ¾                    | 375    | 22      | 559    |     |
| 24                                                                                | 609.6 |             |       | NM-M8-(Matl)-(*)-45VO24 | 18 ⅝                    | 465    | 30 ½    | 775    |     |
| 36                                                                                | 914.4 |             |       | NM-M8-(Matl)-(*)-45VO36 | 21 ⅜                    | 554    | 39      | 991    |     |

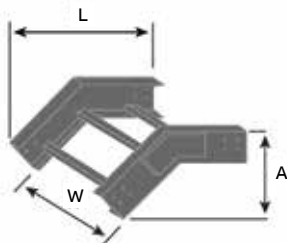
(\*) Cable tray Width offered in 6", 9", 12", 18", 24", 30", 36"

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 9¾" nominal (235mm). For other types of splice plates, see pages B38-B41.

### 30° Vertical outside bend

|                                                                                     |      |             |      |          | Vertical bend 30°       |      |       |      |     |
|-------------------------------------------------------------------------------------|------|-------------|------|----------|-------------------------|------|-------|------|-----|
|                                                                                     |      |             |      |          | Vertical outside bend   |      |       |      |     |
| Bend radius (R)                                                                     |      | Tray Height |      | Cat. No. | A                       |      | L     |      |     |
| (in.)                                                                               | (mm) | (in.)       | (mm) |          | (in.)                   | (mm) | (in.) | (mm) |     |
|  | 12   | 304.8       | 3    | 76.2     | NM-M3-(Matl)-(*)-30VO12 | 7    | 178   | 17   | 432 |
|                                                                                     | 24   | 609.6       |      |          | NM-M3-(Matl)-(*)-30VO24 | 9    | 229   | 23   | 584 |
|                                                                                     | 36   | 914.4       |      |          | NM-M3-(Matl)-(*)-30VO36 | 11   | 279   | 29   | 737 |
|                                                                                     | 12   | 304.8       | 4    | 101.6    | NM-M4-(Matl)-(*)-30VO12 | 8    | 203   | 17   | 432 |
|                                                                                     | 24   | 609.6       |      |          | NM-M4-(Matl)-(*)-30VO24 | 10   | 254   | 23   | 584 |
|                                                                                     | 36   | 914.4       |      |          | NM-M4-(Matl)-(*)-30VO36 | 12   | 305   | 29   | 737 |
|                                                                                     | 12   | 304.8       | 6    | 152.4    | NM-M6-(Matl)-(*)-30VO12 | 10   | 254   | 18   | 457 |
|                                                                                     | 24   | 609.6       |      |          | NM-M6-(Matl)-(*)-30VO24 | 12   | 305   | 24   | 610 |
|                                                                                     | 36   | 914.4       |      |          | NM-M6-(Matl)-(*)-30VO36 | 14   | 356   | 30   | 762 |
|                                                                                     | 12   | 304.8       | 8    | 203.2    | NM-M8-(Matl)-(*)-30VO12 | 10   | 254   | 18   | 457 |
|                                                                                     | 24   | 609.6       |      |          | NM-M8-(Matl)-(*)-30VO24 | 12   | 305   | 24   | 610 |
|                                                                                     | 36   | 914.4       |      |          | NM-M8-(Matl)-(*)-30VO36 | 14   | 356   | 30   | 762 |

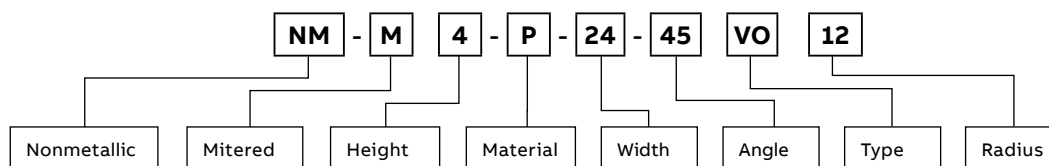
(\*) Cable tray Width offered in 6", 9", 12", 18", 24", 30", 36"

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 9¾" nominal (235mm). For other types of splice plates, see pages B38-B41.

### 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 Height |       |                         | Vertical tee Up |        |        |       | Vertical tee Down |        |        |       |
|-----------------------|-----------------|-------|-------------|-------|-------------------------|-----------------|--------|--------|-------|-------------------|--------|--------|-------|
|                       | (in.)           | (mm)  | (in.)       | (mm)  |                         | A (in.)         | A (mm) | B(in)  | B(mm) | A (in.)           | A (mm) | B(in)  | B(mm) |
| VTU vertical tee up   | 12              | 304.8 | 3           | 76.2  | NM-M3-(Matl)-(*)-(**)12 | 26 15/16        | 684    | 50 7/8 | 1292  | 23 15/16          | 608    | 50 7/8 | 1292  |
|                       | 12              | 304.8 |             |       | NM-M4-(Matl)-(*)-(**)12 | 23 1/4          | 591    | 42 1/2 | 1080  | 19 1/4            | 489    | 42 1/2 | 1080  |
|                       | 24              | 609.6 | 4           | 101.6 | NM-M4-(Matl)-(*)-(**)24 | 35 1/4          | 895    | 66 1/2 | 1689  | 31 1/4            | 794    | 66 1/2 | 1689  |
|                       | 36              | 914.4 |             |       | NM-M4-(Matl)-(*)-(**)36 | 41 3/4          | 1060   | 79 1/2 | 2019  | 37 3/4            | 959    | 79 1/2 | 2019  |
| VTD vertical tee down | 12              | 304.8 |             |       | NM-M6-(Matl)-(*)-(**)12 | 32              | 813    | 58     | 1473  | 26                | 660    | 58     | 1473  |
|                       | 24              | 609.6 | 6           | 152.4 | NM-M6-(Matl)-(*)-(**)24 | 37 1/4          | 946    | 68 1/2 | 1740  | 31 1/4            | 794    | 68 1/2 | 1740  |
|                       | 36              | 914.4 |             |       | NM-M6-(Matl)-(*)-(**)36 | 49 1/2          | 1257   | 92 1/2 | 2350  | 43 1/2            | 1105   | 92 1/2 | 2350  |
|                       | 12              | 304.8 |             |       | NM-M8-(Matl)-(*)-(**)12 | 27 7/8          | 708    | 43 3/4 | 1111  | 19 1/2            | 495    | 43 3/4 | 1111  |
|                       | 24              | 609.6 | 8           | 203.2 | NM-M8-(Matl)-(*)-(**)24 | 33 7/8          | 860    | 61 3/4 | 1568  | 25 1/2            | 648    | 61 3/4 | 1568  |
|                       | 36              | 914.4 |             |       | NM-M8-(Matl)-(*)-(**)36 | 45 7/8          | 1165   | 85 3/4 | 2178  | 37 1/2            | 953    | 85 3/4 | 2178  |

(\*) Cable tray Width offered in 6", 9", 12", 18", 24", 30", 36"

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

### Fitting number selection

