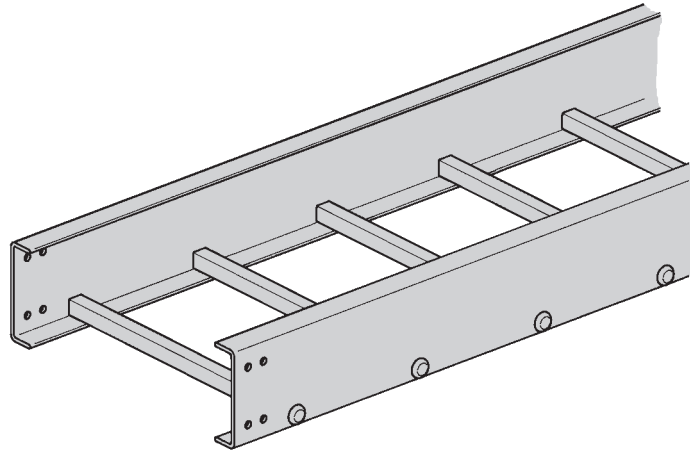


Fiberglass - Cable Tray Numbering System

To order a Fiberglass 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.

Procedure:

1. Select the correct B-Line series Fiberglass tray using the Load Data for straight sections shown on page M-11 for 3", page M-12 for 4", page M-13 & M-14 for 6", and page M-15 for 8" fittings.
2. Select the resin required. Polyester or Vinyl Ester. Refer to Corrosion Guide on pages M-3 and M-4, for the effect of environmental conditions on the desired material and the effective temperature range on page M-5.
3. The tray prefix is completed by inserting the rung spacing.
4. Select the desired width in inches.
5. Finally select the straight section length in inches.
Fiberglass 120 [10'] (3m) or 240 [20'] (6m)

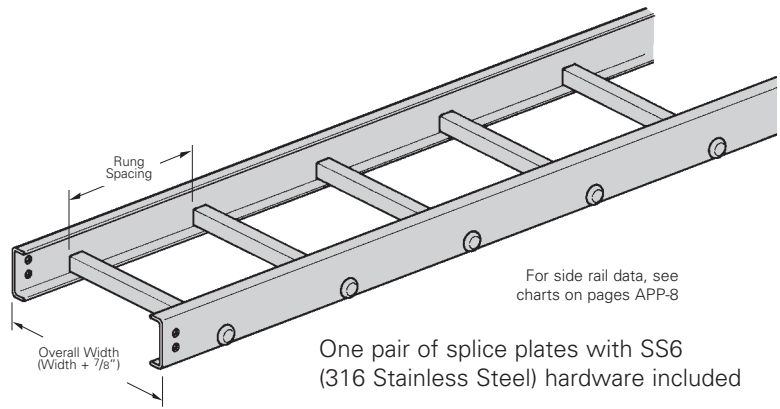
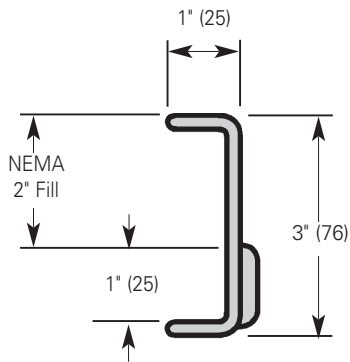


| Straight Section Part Numbering | | | | |
|---|-----------|-------------------------|---|------------------------------------|
| Example: | Prefix | | | |
| | 24 | F | 09 | 24 - 120 |
| | Series | Material | Rung Spacing | Width Length |
| | 13 | F - Fiberglass (Gray) | 06 = 6" (152) | 06 = 6" (152) 120 = 120" (3m) |
| | 24 | Polyester Resin | 09 = 9" (228) | 09 = 9" (228) 240 = 240" (6m) |
| | 36 | FV - Fiberglass (Beige) | 12 = 12" (305) | 12 = 12" (305) |
| | 46 | Vinyl Ester Resin | † SB = Solid Bottom | 18 = 18" (457) |
| | 48 | | *See page APP-1 for Marine Rung option. | 24 = 24" (609) |
| | | | | 30 = 30" (762) |
| | | | | 36 = 36" (914) |
| † Solid bottom sheets ship separately with connecting hardware and assembled on site. | | | | |
| Note: One pair of splice plates with SS6 hardware included. | | | | |

| Fitting Section Part Selector | | | | | | |
|---|----------|-------------------------|--------------|-----------|-----------|--------------------------------------|
| Example: | Prefix | | | | | |
| | 4 | F | SB | 24 | 90 | HB 24 |
| | Height | Material | Bottom | Width | Angle | Type Radius |
| | 3" (76) | F - Fiberglass (Gray) | Blank = | 6" (152) | 45° | HB - Horizontal Bend 12" (305) |
| | 4" (101) | Polyester Resin | Ladder Type | 9" (228) | 90° | HT - Horizontal Tee 24" (609) |
| | 6" (152) | FV - Fiberglass (Beige) | SB = | 12" (305) | | HX - Horizontal Cross 36" (914) |
| | 8" (203) | Vinyl Ester Resin | Solid Bottom | 18" (457) | | VI - Vertical Inside Bend |
| | | | | 24" (609) | | VO - Vertical Outside Bend |
| | | | | 30" (762) | | VT - Vertical Tee |
| | | | | 36" (914) | | VTU - Vertical Tee, Up |
| | | | | | | RR - Right Reducer |
| | | | | | | LR - Left Reducer |
| | | | | | | SR - Straight Reducer |
| Notes: Standard rung spacing on fittings is 9" (225). Splice plates with SS6 hardware included. | | | | | | |

Fiberglass

Fiberglass - 3" Straight Section




Series 13 Fiberglass Straight Section Part Numbering

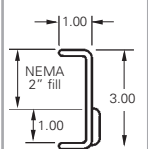
Prefix
Example: **13 F 09 - 24 - 120**

| | | | | |
|-----------------------------|---|---|---|--|
| <p>Series 13</p> | <p>Material ● F = Polyester ● FV = Vinyl Ester</p> | <p>Type Ladder - ● 06 = 6" rung spacing ● 09 = 9" rung spacing ● 12 = 12" rung spacing ● SB = Solid bottom †</p> | <p>Width ● 06 = 6" ● 09 = 9" ● 12 = 12" ● 18 = 18" ● 24 = 24"</p> | <p>Length ● ① 120 = 10 ft. ● ② 240 = 20 ft.</p> <p>① Primary Length. ② Secondary Length.</p> <p>See page C-23 for explanation of lengths.</p> |
|-----------------------------|---|---|---|--|

See page M-34 for additional rung options.

† Solid bottom sheets ship separately with connecting hardware and assembled on site.



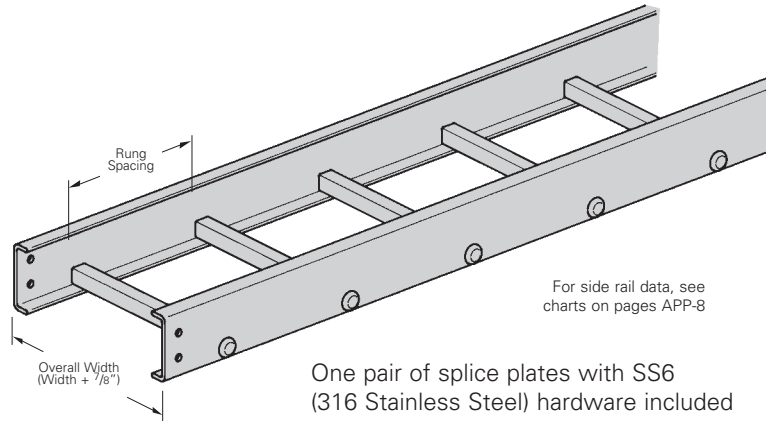
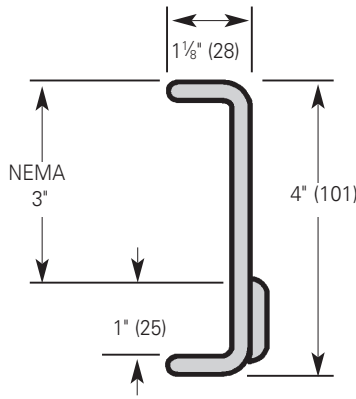
| B-Line Series | Side Rail Dimensions | NEMA Classifications | Span ft | Load lbs/ft | Deflection Multiplier | Span meters | Load kg/m | Deflection Multiplier |
|---------------------------|---|----------------------|---------|-------------|-----------------------|-------------|-----------|-----------------------|
| 13F 13FV |  | NEMA: 8C | 6 | 257 | 0.005 | 1.8 | 382 | 0.086 |
| | | | 8 | 145 | 0.016 | 2.4 | 216 | 0.267 |
| | | | 10 | 93 | 0.040 | 3.0 | 138 | 0.681 |
| | | | 12 | 64 | 0.083 | 3.7 | 95 | 1.411 |
| | | | 14 | 47 | 0.153 | 4.3 | 70 | 2.614 |

Values are based on simple beam tests per NEMA FG-1 on 24" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable being installed.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

Dimensions shown in parentheses are in millimeters, unless otherwise specified.



Series 24 Fiberglass Straight Section Part Numbering

Example: ^{Prefix} **24 F 09 - 24 - 120**

Series

24

Material

- **F** = Polyester
- **FV** = Vinyl Ester



Type

- Ladder -**
- **06** = 6" rung spacing
 - **09** = 9" rung spacing
 - **12** = 12" rung spacing
 - **SB** = Solid bottom †

Width

- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

Length

- ① **120** = 10 ft.
- ② **240** = 20 ft.

① Primary Length.
② Secondary Length.
See page C-23 for explanation of lengths.

† Solid bottom sheets ship separately with connecting hardware and assembled on site.

See page M-34 for additional rung options.

| B-Line Series | Side Rail Dimensions | NEMA & CSA Classifications | Span ft | Load lbs/ft | Deflection Multiplier | Span meters | Load kg/m | Deflection Multiplier |
|---------------------|----------------------|----------------------------|---------|-------------|-----------------------|-------------|-----------|-----------------------|
| 24F 24FV | | NEMA: 12C CSA: E-3m | 6 | 627 | 0.001 | 1.8 | 933 | 0.023 |
| | | | 8 | 353 | 0.004 | 2.4 | 525 | 0.074 |
| | | | 10 | 226 | 0.011 | 3.0 | 336 | 0.182 |
| | | | 12 | 157 | 0.022 | 3.7 | 233 | 0.378 |

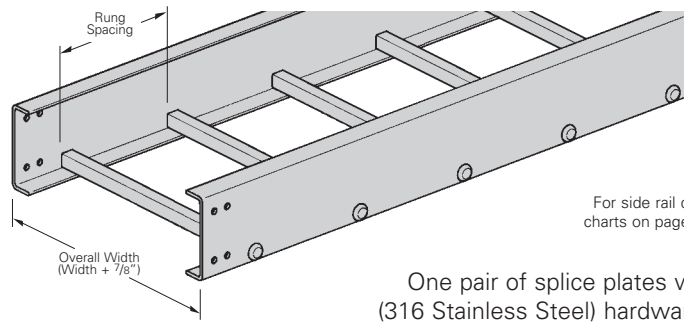
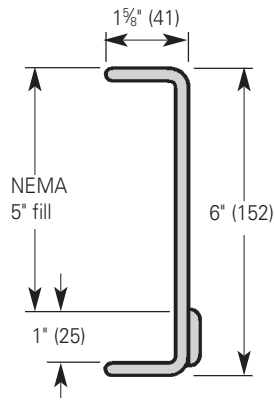
Values are based on simple beam tests per NEMA FG-1 on 36" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable being installed.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

Dimensions shown in parentheses are in millimeters, unless otherwise specified.

Fiberglass - 6" Straight Section



For side rail data, see charts on pages APP-8

One pair of splice plates with SS6 (316 Stainless Steel) hardware included

Series 36 Fiberglass Straight Section Part Numbering

Example: ^{Prefix} **36 F 09 - 24 - 120**

Series

36

Material

- **F** = Polyester
- **FV** = Vinyl Ester

Type

Ladder -

- **06** = 6" rung spacing
- **09** = 9" rung spacing
- **12** = 12" rung spacing
- **SB** = Solid bottom †

Width

- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

Length

- ① **120** = 10 ft.
- ② **240** = 20 ft.

① Primary Length.

② Secondary Length.

See page C-23 for explanation of lengths.



† Solid bottom sheets ship separately with connecting hardware and assembled on site.

See page M-34 for additional rung options.

| B-Line Series | Side Rail Dimensions | NEMA & CSA Classifications | Span ft | Load lbs/ft | Deflection Multiplier | Span meters | Load kg/m | Deflection Multiplier |
|---------------------------|----------------------|----------------------------|---------|-------------|-----------------------|-------------|-----------|-----------------------|
| 36F 36FV | | NEMA: 20B CSA: E-6m | 12 | 241 | 0.005 | 3.7 | 359 | 0.081 |
| | | | 14 | 177 | 0.009 | 4.3 | 264 | 0.151 |
| | | | 16 | 136 | 0.015 | 4.9 | 202 | 0.257 |
| | | | 18 | 107 | 0.024 | 5.5 | 159 | 0.411 |
| | | | 20 | 87 | 0.037 | 6.1 | 129 | 0.627 |

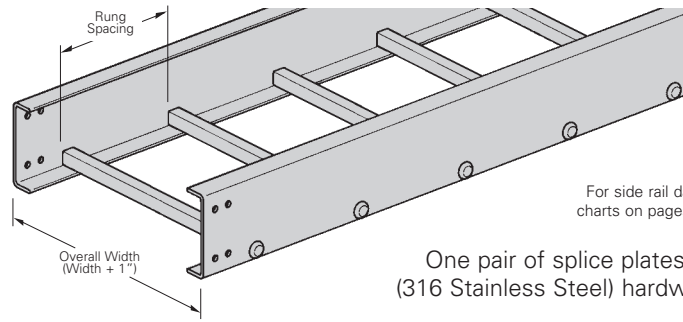
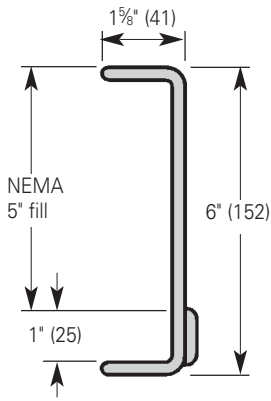
Values are based on simple beam tests per NEMA FG-1 on 36" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable being installed.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

Dimensions shown in parentheses are in millimeters, unless otherwise specified.

Fiberglass - 6" Straight Section



For side rail data, see charts on pages APP-8

One pair of splice plates with SS6 (316 Stainless Steel) hardware included

Series 46 Fiberglass Straight Section Part Numbering

Example: ^{Prefix} **46 F 09 - 24 - 120**

Series

46

Material

- **F** = Polyester
- **FV** = Vinyl Ester

Type

- Ladder -**
- **06** = 6" rung spacing
 - **09** = 9" rung spacing
 - **12** = 12" rung spacing
 - **SB** = Solid bottom †

Width

- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

Length

- ① **120** = 10 ft.
- ② **240** = 20 ft.

① Primary Length.
② Secondary Length.

See page C-23 for explanation of lengths.



† Solid bottom sheets ship separately with connecting hardware and assembled on site.

See page M-34 for additional rung options.

| B-Line Series | Side Rail Dimensions | NEMA & CSA Classifications | Span ft | Load lbs/ft | Deflection Multiplier | Span meters | Load kg/m | Deflection Multiplier |
|---------------------------|----------------------|----------------------------|---------|-------------|-----------------------|-------------|-----------|-----------------------|
| 46F 46FV | | NEMA: 20C+ CSA: E-6m | 12 | 393 | 0.005 | 3.7 | 584 | 0.079 |
| | | | 14 | 288 | 0.009 | 4.3 | 429 | 0.145 |
| | | | 16 | 221 | 0.015 | 4.9 | 329 | 0.246 |
| | | | 18 | 174 | 0.023 | 5.5 | 260 | 0.396 |
| | | | 20 | 141 | 0.035 | 6.1 | 210 | 0.605 |

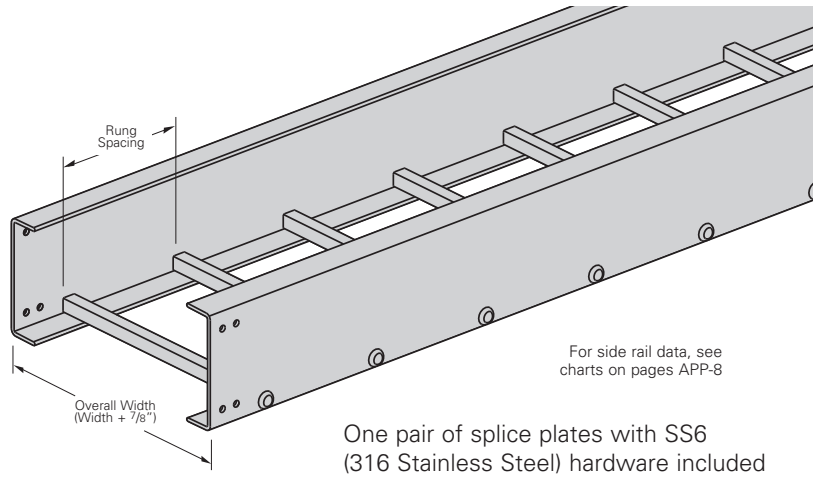
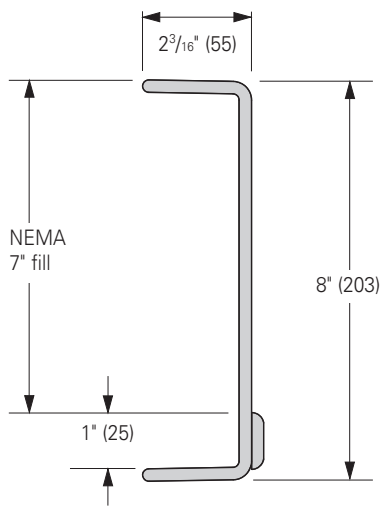
Values are based on simple beam tests per NEMA FG-1 on 36" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable being installed.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

Dimensions shown in parentheses are in millimeters, unless otherwise specified.

Fiberglass - 8" Straight Section



Series 48 Fiberglass Straight Section Part Numbering

Prefix
Example: **48 F 09 - 24 - 120**

Series

48

Material

- **F** = Polyester
- **FV** = Vinyl Ester



Type

- Ladder -**
- **06** = 6" rung spacing
 - **09** = 9" rung spacing
 - **12** = 12" rung spacing
 - **SB** = Solid bottom †

Width

- **06** = 6"
- **09** = 9"
- **12** = 12"
- **18** = 18"
- **24** = 24"
- **30** = 30"
- **36** = 36"

Length

- ① **120** = 10 ft.
- ② **240** = 20 ft.

① Primary Length.
② Secondary Length.

See page C-23 for explanation of lengths.

† Solid bottom sheets ship separately with connecting hardware and assembled on site.

See page M-34 for additional rung options.

| B-Line Series | Side Rail Dimensions | NEMA Classifications | Span ft | Load lbs/ft | Deflection Multiplier | Span meters | Load kg/m | Deflection Multiplier |
|---------------------------|----------------------|----------------------|---------|-------------|-----------------------|-------------|-----------|-----------------------|
| 48F 48FV | | NEMA: 20C+ | 12 | 348 | 0.003 | 3.7 | 518 | 0.052 |
| | | | 14 | 256 | 0.006 | 4.3 | 381 | 0.097 |
| | | | 16 | 196 | 0.010 | 4.9 | 291 | 0.165 |
| | | | 18 | 155 | 0.015 | 5.5 | 231 | 0.210 |
| | | | 20 | 125 | 0.024 | 6.1 | 187 | 0.401 |

Values are based on simple beam tests per NEMA FG-1 on 36" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the cable being installed.

When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

● Green = Fastest shipped items ● Black = Normal lead-time items ● Red = Normally long lead-time items

Dimensions shown in parentheses are in millimeters, unless otherwise specified.