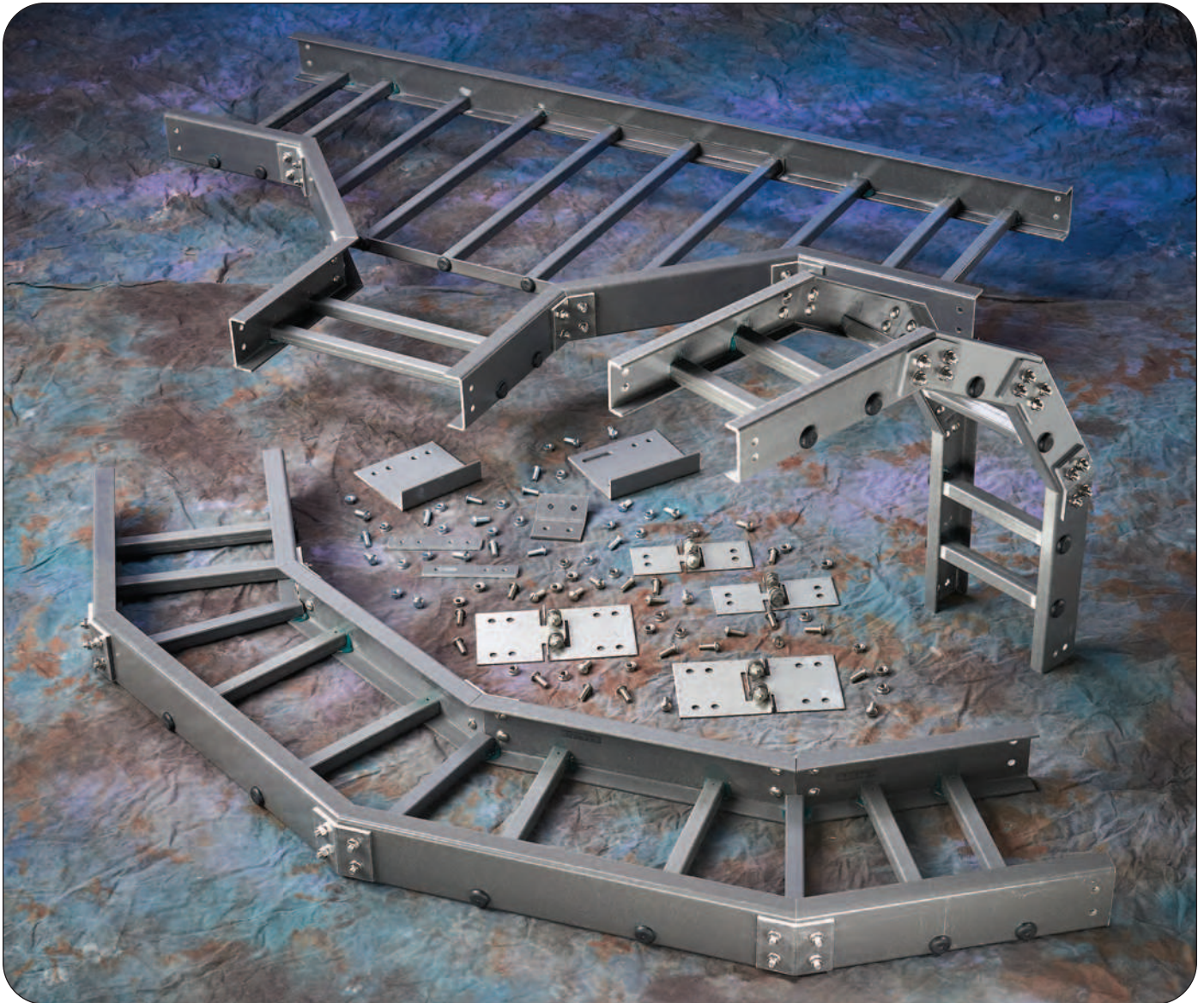


# Fiberglass - Straight Sections



Fiberglass





## How The Service Advisor Works

We know that your time is important! That's why the color-coding system in this catalog is designed to help you select products that fit your service needs. Products are marked to indicate the typical lead time for orders of 50 pieces or less.

**Customer:** How do I select my straight sections, covers, or fittings so that I get the quickest turnaround?

**Service Advisor:** Each part of our selection chart is shown in colors. If any section of a part number is a different color, the part will typically ship with the longer lead time represented by the colors.

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

**Example:**            46    FA   -   09   -   24   -   144  
                           ●       ●       ●       ●       ●  
                           3-5   15    3-5   3-5   3-5

**Part will have a long lead time because of the FA material.**

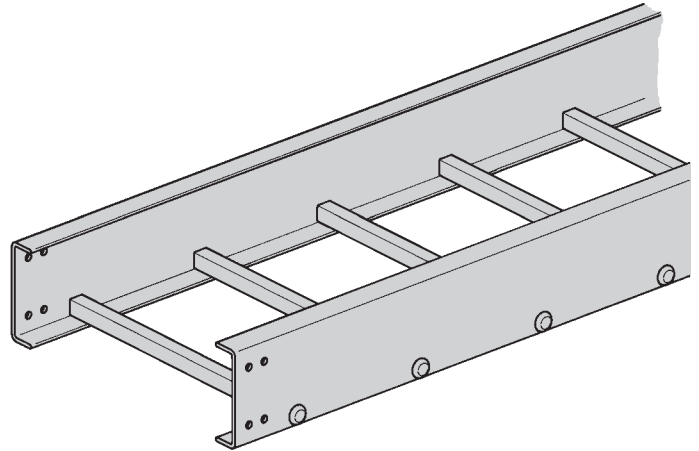
Changing the part number from 46FA to 46F will change the coding to black for all sections and reduce the lead time.

# 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-15 for 3", page M-16 for 4", page M-17 & M-18 for 6", and page M-19 for 8" fittings.
2. Select the resin required. Polyester, Vinyl Ester, or Zero Halogen/Dis-Stat. 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: **24 F 09 - 24 - 120**

Prefix

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	FA★ - Zero Halogen/ Dis-Stat (Black)	*See page APP-1 for Marine Rung option.	24 = 24" (609) 30 = 30" (762) 36 = 36" (914)	

**Note:** One pair of splice plates with SS6 hardware included.

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

★ Available in 6" height only (Series 36 & 46).

## Fitting Section Part Selector

Example: **4 F SB - 24 - 90 HB 24**

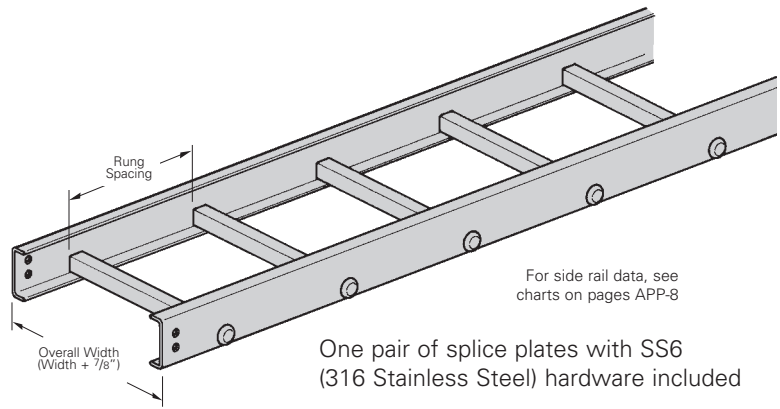
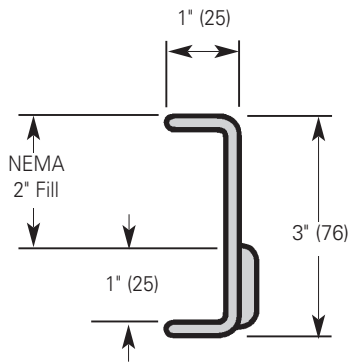
Prefix

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	
	FA★ - Zero Halogen/ Dis-Stat (Black)		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	

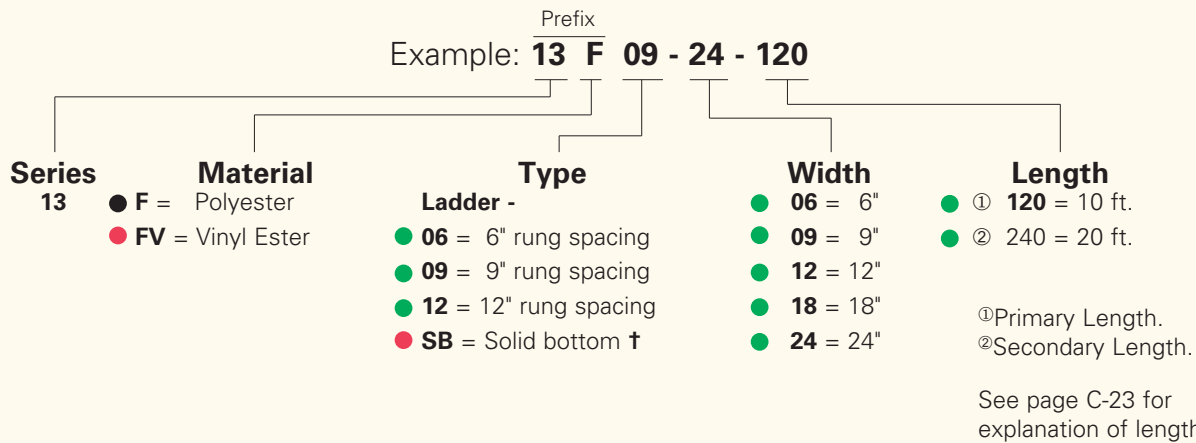
**Notes:** Standard rung spacing on fittings is 9" (225).  
Splice plates with SS6 hardware included.

★ Available in 6" height only (Series 36 & 46).

# Fiberglass - 3" Straight Section



## Series 13 Fiberglass Straight Section Part Numbering



See page M-38 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
<b>13F</b> <b>13FV</b>		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

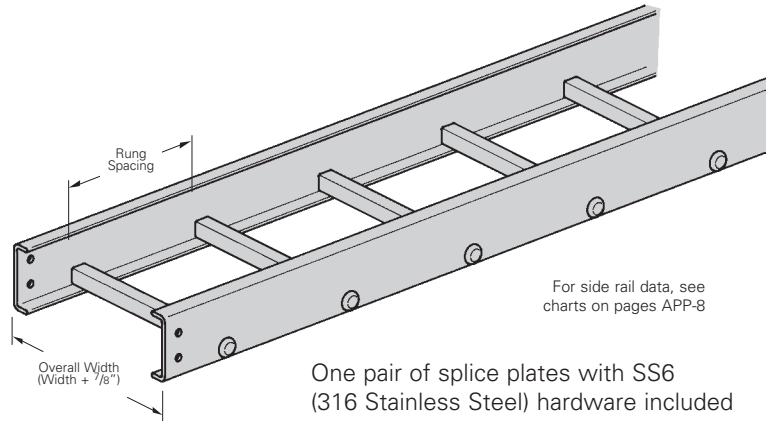
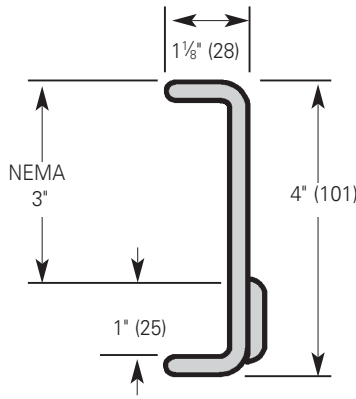
Values are based on simple beam tests per NEMA FG-1 on 24" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must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

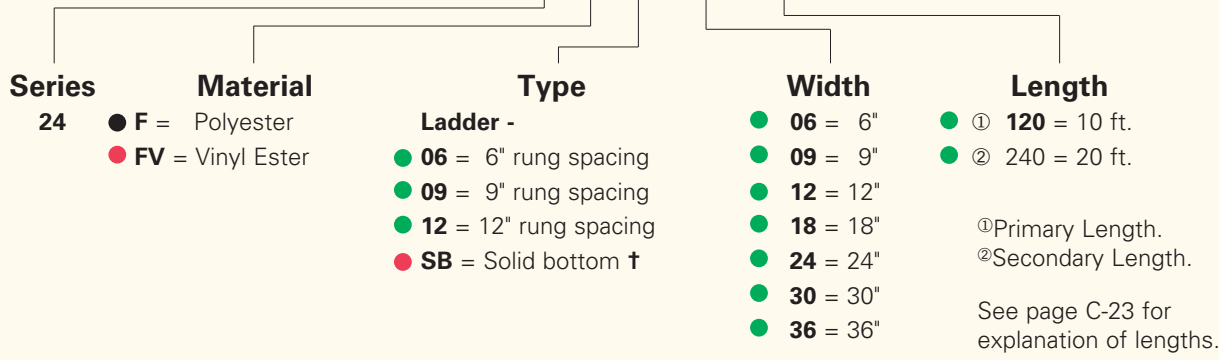
Dimensions shown in parentheses are in millimeters, unless otherwise specified.

# Fiberglass - 4" Straight Section



## Series 24 Fiberglass Straight Section Part Numbering

Example: <sup>Prefix</sup> **24 F 09 - 24 - 120**



See page M-38 for additional rung options. † Solid bottom sheets ship separately with connecting hardware and assembled on site.

B-Line Series	Side Rail Dimensions	NEMA & CSA Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Span meters	Load kg/m	Deflection Multiplier
<b>24F</b> <b>24FV</b>		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.

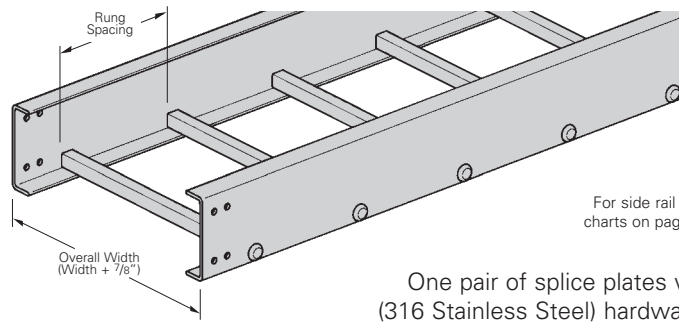
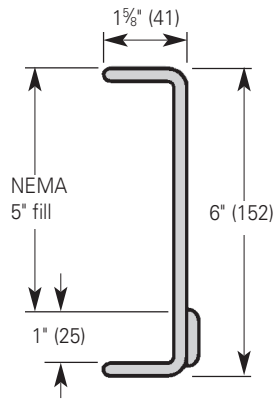
When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

● 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



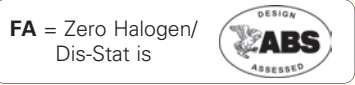
For side rail data, see charts on pages APP-8

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

## Series 36 Fiberglass Straight Section Part Numbering

Example: <sup>Prefix</sup> **36 F 09 - 24 - 120**

Series	Material	Type	Width	Length
<b>36</b>	<ul style="list-style-type: none"> <li>● <b>F</b> = Polyester</li> <li>● <b>FV</b> = Vinyl Ester</li> <li>● <b>FA</b> = Zero Halogen/Dis-Stat</li> </ul>	<b>Ladder -</b> <ul style="list-style-type: none"> <li>● <b>06</b> = 6" rung spacing</li> <li>● <b>09</b> = 9" rung spacing</li> <li>● <b>12</b> = 12" rung spacing</li> <li>● <b>SB</b> = Solid bottom †</li> </ul>	<ul style="list-style-type: none"> <li>● <b>06</b> = 6"</li> <li>● <b>09</b> = 9"</li> <li>● <b>12</b> = 12"</li> <li>● <b>18</b> = 18"</li> <li>● <b>24</b> = 24"</li> <li>● <b>30</b> = 30"</li> <li>● <b>36</b> = 36"</li> </ul>	<ul style="list-style-type: none"> <li>● ① <b>120</b> = 10 ft.</li> <li>● ② <b>240</b> = 20 ft.</li> </ul> <p>①Primary Length. ②Secondary Length.</p> <p>See page C-23 for explanation of lengths.</p>



See page M-38 for additional rung options.

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

B-Line Series	Side Rail Dimensions	NEMA & CSA Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Span meters	Load kg/m	Deflection Multiplier
<b>36F 36FV</b>		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
B-Line Series	Side Rail Dimensions	NEMA Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Span meters	Load kg/m	Deflection Multiplier
<b>36FA</b>		NEMA: 20A	12	147	0.008	3.7	219	0.142
			14	108	0.015	4.3	161	0.263
			16	83	0.026	4.9	123	0.449
			18	66	0.042	5.5	97	0.720
			20	53	0.064	6.1	79	1.097

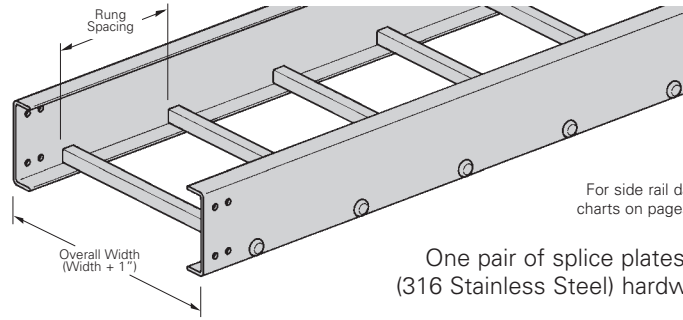
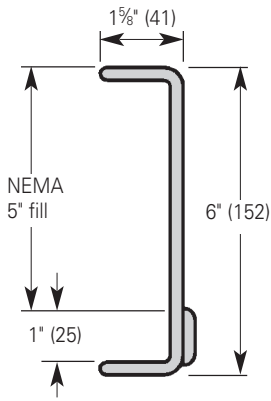
Values are based on simple beam tests per NEMA FG-1 on 36" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must 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: <sup>Prefix</sup> **46 F 09 - 24 - 120**

### Series

**46**

### Material

- **F** = Polyester
- **FV** = Vinyl Ester
- **FA** = Zero Halogen/Dis-Stat

### 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.

①Primary Length.  
②Secondary Length.

See page C-23 for explanation of lengths.

**FA** = Zero Halogen/Dis-Stat is



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

See page M-38 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
<b>46F</b> <b>46FV</b>		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
B-Line Series	Side Rail Dimensions	NEMA Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Span meters	Load kg/m	Deflection Multiplier
<b>46FA</b>		NEMA: 20C+	12	278	--	3.7	413	--
			14	204	--	4.3	303	--
			16	156	--	4.9	232	--
			18	123	--	5.5	183	--
			20	100	--	6.1	149	--

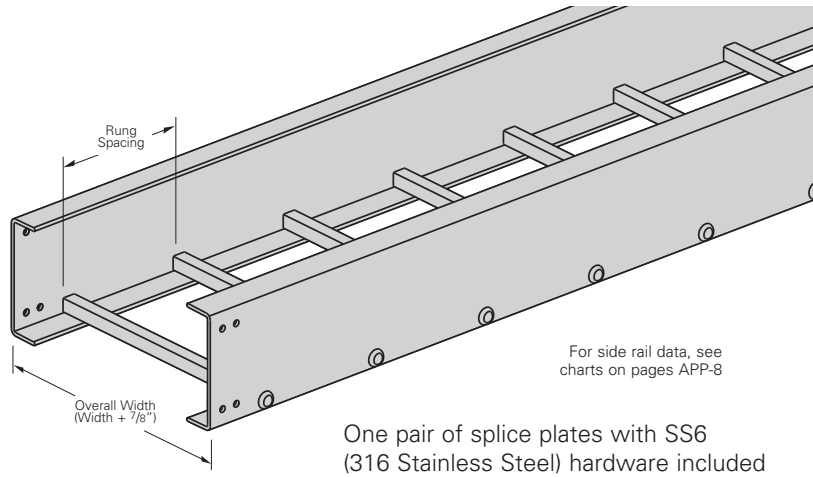
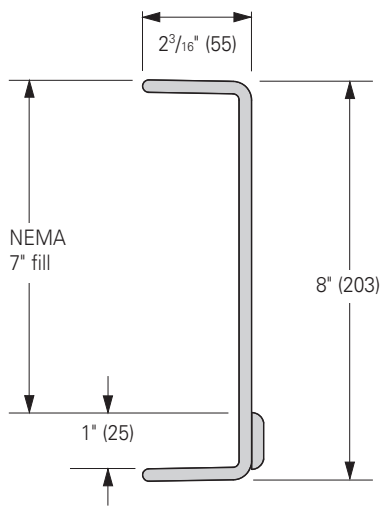
Values are based on simple beam tests per NEMA FG-1 on 36" wide cable tray rungs spaced on 12" centers. Published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must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

Example: <sup>Prefix</sup> **48 F 09 - 24 - 120**

Series	Material	Type	Width	Length
<b>48</b>	● <b>F</b> = Polyester ● <b>FV</b> = Vinyl Ester	<b>Ladder -</b> ● <b>06</b> = 6" rung spacing ● <b>09</b> = 9" rung spacing ● <b>12</b> = 12" rung spacing ● <b>SB</b> = Solid bottom †	● <b>06</b> = 6" ● <b>09</b> = 9" ● <b>12</b> = 12" ● <b>18</b> = 18" ● <b>24</b> = 24" ● <b>30</b> = 30" ● <b>36</b> = 36"	● ① <b>120</b> = 10 ft. ● ② <b>240</b> = 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-38 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
<b>48F</b> <b>48FV</b>		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.