

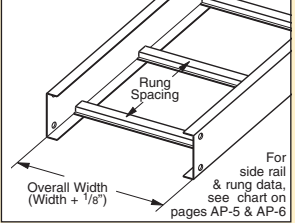
# Series 1 Steel - Straight Sections

## 6" NEMA VE 1 Loading Depth Actual Loading Depth = 5.628"

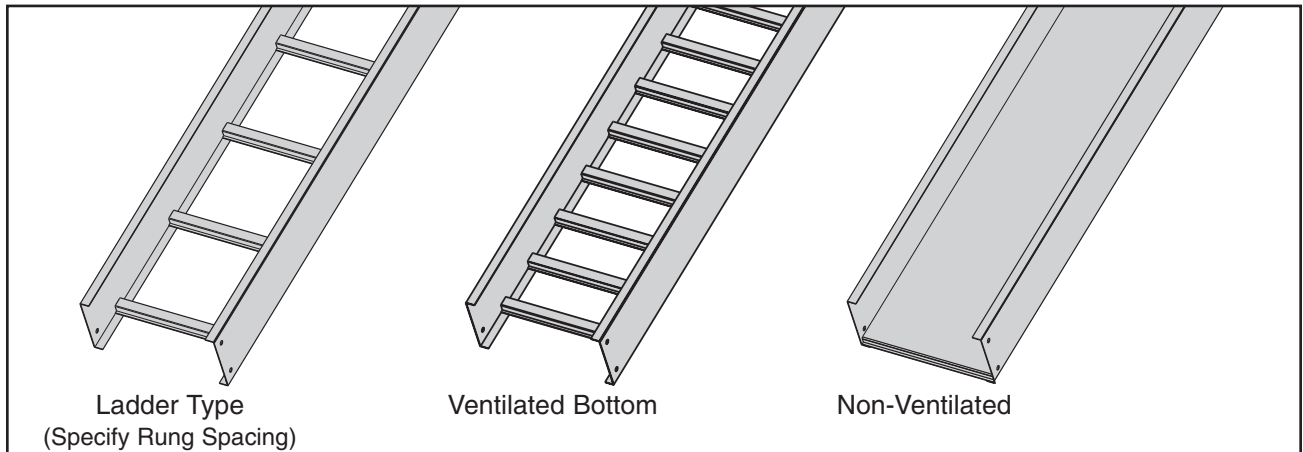
### Straight Section Part Numbering

Prefix  
Example: **176 P 09 - 24 - 144**

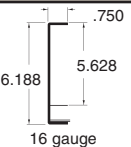
Series	Material	Type	Width	Length
176	● <b>P</b> = Pre-Galvanized Steel	<b>Ladder-</b> ● <b>06</b> = 6" rung spacing ● <b>09</b> = 9" rung spacing ● <b>12</b> = 12" rung spacing	● <b>06</b> = 6"	● <b>144</b> = 12 ft. 176
	● <b>G</b> = Hot Dip Galvanized After Fabrication Steel		● <b>09</b> = 9"	● <b>120</b> = 10 ft.
		<b>Trough-</b> ● <b>04</b> = Vented Bottom ● <b>SB</b> = Non-Ventilated Bottom	● <b>12</b> = 12" ● <b>18</b> = 18" ● <b>24</b> = 24" ● <b>30</b> = 30" ● <b>36</b> = 36"	① Primary Length. ② Secondary Length.  See page 39 for explanation of lengths.



See page 362 for additional rung options. \*SB available for all widths.



Values are based on simple beam tests per NEMA VE 1 on 36" wide cable tray with rungs spaced on 12" centers. Cable trays will support without collapse a 200 lb. (90.7 kg) concentrated load over and above published loads. The 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 tray being installed.

B-Line Series	Side Rail Dimensions	NEMA, CSA & UL Classifications	Span ft	Load lbs/ft	Deflection Multiplier	Design Factors for Two Rails	Span meters	Load kg/m	Deflection Multiplier	Design Factors for Two Rails
176		NEMA: 12B, 8C CSA: 137 kg/m 3.7m UL Cross-Sectional Area: 0.70 in <sup>2</sup>	8	194	0.0008	Area=0.89 in <sup>2</sup>	2.4	288	0.014	Area=5.74 cm <sup>2</sup>
			10	124	0.0020	Sx=1.23 in <sup>3</sup>	3.0	184	0.035	Sx=20.16 cm <sup>3</sup>
			12	86	0.0042	Ix=3.80 in <sup>4</sup>	3.7	128	0.072	Ix=158.2 cm <sup>4</sup>

When cable trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%. Design factors:  
Ix = Moment of Inertia, Sx = Section Modulus.

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