

# Series 3 & 4 Stainless Steel - Straight Sections

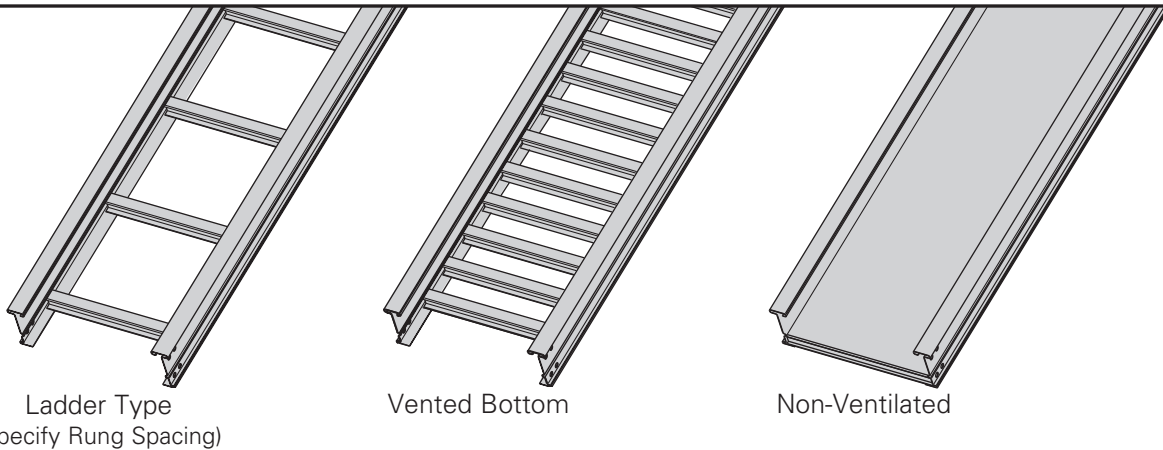
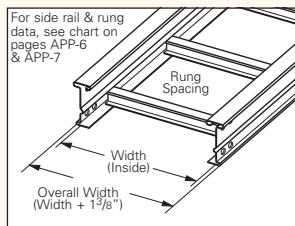
## 3" NEMA VE 1 Loading Depth 4" Side Rail Height

### Straight Section Part Numbering

Example: <sup>Prefix</sup> **348 SS6 09 - 24 - 144**

Series	Material	*Type	*Width	Length
● <b>348</b>	● <b>SS4</b> = 304 Stainless Steel	<b>Ladder-</b>	● <b>06</b> = 6"	● ① <b>144</b> = 12 ft.
	● <b>SS6</b> = 316 Stainless Steel	● <b>06</b> = 6" rung spacing	● <b>09</b> = 9"	● ② 120 = 10 ft.
		● <b>09</b> = 9" rung spacing	● <b>12</b> = 12"	①Primary Length.
		● <b>12</b> = 12" rung spacing	● <b>18</b> = 18"	②Secondary Length.
		<b>Trough-</b>	● <b>24</b> = 24"	See page C-23 for explanation of lengths.
		<b>6" and Wider</b>	● <b>30</b> = 30"	Passivation available see page C-2.
		● <b>04</b> = Vented Bottom	● <b>36</b> = 36"	
		● <b>SB</b> = Non-Ventilated		

See page APP-1 for additional rung options. \*Special sizes available.



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

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
<b>348 SS†</b>		NEMA: 16A, 12C CSA: C1-3m UL Cross-Sectional Area: 0.40 in <sup>2</sup>	10	180	0.0042	Area = 0.74 in <sup>2</sup> Sx = 0.79 in <sup>3</sup> Ix = 1.85 in <sup>4</sup>	3.0	268	0.072	Area = 4.77 cm <sup>2</sup> Sx = 12.95 cm <sup>3</sup> Ix = 77.00 cm <sup>4</sup>
			12	125	0.009		3.7	186	0.148	
			14	92	0.016		4.3	137	0.275	
			16	70	0.027		4.9	105	0.469	
			18	56	0.044		5.5	83	0.752	
			20	45	0.067		6.1	67	1.145	

When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors: Ix = Moment of Inertia, Sx = Section Modulus. † Insert 4 for 304 stainless steel or 6 for 316 stainless steel.

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

All dimensions in parentheses are millimeters unless otherwise specified.

## 4" NEMA VE 1 Loading Depth 5" Side Rail Height

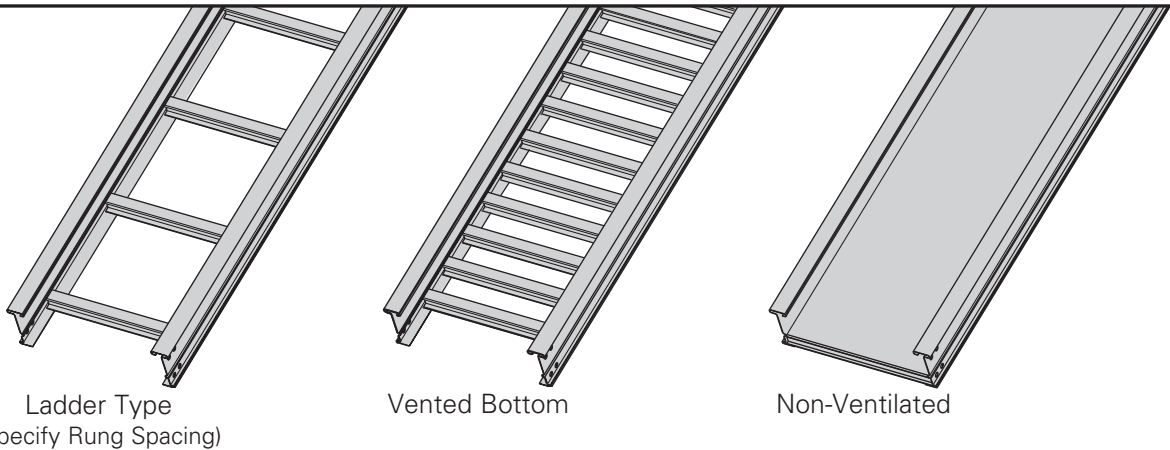
### Straight Section Part Numbering

Example: **358 SS6 09 - 24 - 144**

Series	Material	*Type	*Width	Length
● <b>358</b>	● <b>SS4</b> = 304 Stainless Steel ● <b>SS6</b> = 316 Stainless Steel	<b>Ladder-</b> ● <b>06</b> = 6" rung spacing ● <b>09</b> = 9" rung spacing ● <b>12</b> = 12" rung spacing  <b>Trough-</b> <b>6" and Wider</b> ● <b>04</b> = Vented Bottom ● <b>SB</b> = Non-Ventilated	● <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>144</b> = 12 ft. 358 ● ② 120 = 10 ft.  ①Primary Length. ②Secondary Length.  See page C-23 for explanation of lengths.  Passivation available see page C-2.

For side rail & rung data, see chart on pages APP-6 & APP-7

See page APP-1 for additional rung options. \*Special sizes available.



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

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
<b>358 SS†</b>		NEMA: <b>20A</b> , 16B CSA: 89kg/m 6.1m UL Cross-Sectional Area: 0.70 in <sup>2</sup>	10	248	0.0025	Area = 0.83 in <sup>2</sup> Sx = 1.09 in <sup>3</sup> Ix = 3.10 in <sup>4</sup>	3.0	369	0.043	Area = 5.35 cm <sup>2</sup> Sx = 17.86 cm <sup>3</sup> Ix = 129.03 cm <sup>4</sup>
			12	172	0.0052		3.7	256	0.089	
			14	127	0.010		4.3	188	0.164	
			16	97	0.016		4.9	144	0.280	
			18	77	0.026		5.5	114	0.448	
			20	62	0.040		6.1	92	0.684	

When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors: Ix = Moment of Inertia, Sx = Section Modulus. † Insert 4 for 304 stainless steel or 6 for 316 stainless steel.

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

All dimensions in parentheses are millimeters unless otherwise specified.

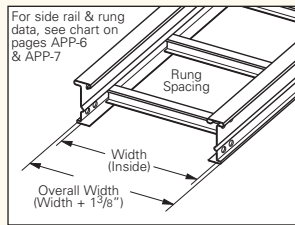
# Series 3 & 4 Stainless Steel - Straight Sections

## 5" NEMA VE 1 Loading Depth 6" Side Rail Height

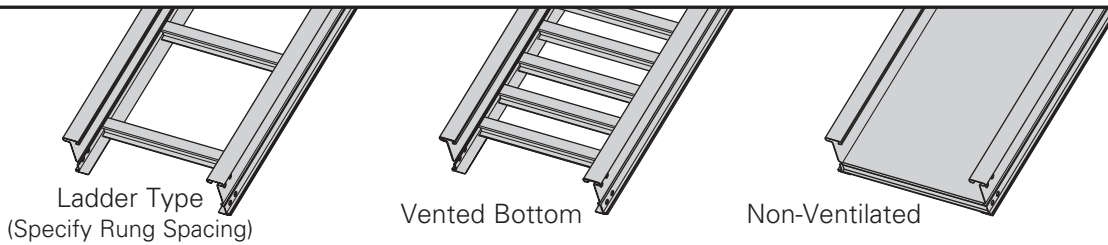
### Straight Section Part Numbering

Example: <sup>Prefix</sup> **358 SS6 09 - 24 - 144**

Series	Material	*Type	*Width	Length
● <b>368</b>	● <b>SS4</b> = 304 Stainless Steel	<b>Ladder-</b>	● <b>06</b> = 6"	● ① <b>144</b> = 12 ft.    368
● <b>464</b>	● <b>SS6</b> = 316 Stainless Steel	● <b>06</b> = 6" rung spacing	● <b>09</b> = 9"	● ② <b>120</b> = 10 ft.    464
		● <b>09</b> = 9" rung spacing	● <b>12</b> = 12"	① <b>144</b> = 12 ft.
		● <b>12</b> = 12" rung spacing	● <b>18</b> = 18"	② <b>120</b> = 10 ft.
		<b>Trough-</b>	● <b>24</b> = 24"	① Primary Length.
		<b>6" and Wider</b>	● <b>30</b> = 30"	② Secondary Length.
		● <b>04</b> = Vented Bottom	● <b>36</b> = 36"	See page C-23 for explanation of lengths.
		● <b>SB</b> = Non-Ventilated		Passivation available see page C-2.



See page APP-1 for additional rung options. \*Special sizes available.



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

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
<b>368 SS†</b>		NEMA: <b>20A, 16B</b> CSA: D1-3m  UL Cross-Sectional Area: 0.70 in <sup>2</sup>	10	236	0.0016	Area = 0.92 in <sup>2</sup> Sx = 1.41 in <sup>3</sup> Ix = 4.77 in <sup>4</sup>	3.0	351	0.028	Area = 5.94 cm <sup>2</sup> Sx = 23.11 cm <sup>3</sup> Ix = 198.54 cm <sup>4</sup>
			12	164	0.0034		3.7	244	0.058	
			14	120	0.0062		4.3	179	0.107	
			16	92	0.011		4.9	137	0.182	
			18	73	0.017		5.5	108	0.291	
			20	59	0.026		6.1	88	0.444	

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
<b>464 SS†</b>		NEMA: <b>20C+</b> CSA: E-6m  UL Cross-Sectional Area: 1.00 in <sup>2</sup>	12	342	0.002	Area = 1.49 in <sup>2</sup> Sx = 2.28 in <sup>3</sup> Ix = 7.65 in <sup>4</sup>	3.7	508	0.036	Area = 9.61 cm <sup>2</sup> Sx = 37.36 cm <sup>3</sup> Ix = 318.42 cm <sup>4</sup>
			16	192	0.007		4.9	286	0.113	
			18	152	0.011		5.5	226	0.182	
			20	123	0.016		6.1	183	0.277	
			22	102	0.024		6.7	151	0.406	
			24	85	0.034		7.3	127	0.574	

When cable trays are used in continuous spans, the deflection of the cable tray is reduced by as much as 50%. Design factors: Ix = Moment of Inertia, Sx = Section Modulus. † Insert 4 for 304 stainless steel or 6 for 316 stainless steel.

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

All dimensions in parentheses are millimeters unless otherwise specified.