



# STRAIGHT SECTION NUMBERING SYSTEM

## NON-METALLIC CABLE TRAY & STRUT SYSTEMS



### 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.

### SELECTION PROCESS

1	2	3	4	5	6
Non-metallic cable tray system	Select the correct Thomas & Betts series cable tray using the Load Data for straight sections found on pages 18-22.	Select the resin required. Refer to Corrosion Guide on pages 6 -7 of the Technical Data section for the effect of environmental conditions on the desired material. For the effective temperature range, see page 10 of the same section.	Select the rung spacing required to properly support cables in tray.	Select the desired width in inches.	Select the straight section length in inches.

### STRAIGHT SECTION CATALOG SELECTOR

NM	-	4	P	09	24	-	120
<b>CABLE TRAY SYSTEM</b> Non-metallic		<b>SERIES</b> 3 4 6B 6C H6C	<b>MATERIAL</b> P - Polyester Resin V- Vinyl Ester Resin	<b>RUNG SPACING</b> 6" 9" 12" 18"	<b>WIDTH</b> 6" 9" 12" 18" 24" 30" 36"		<b>LENGTH</b> 120" = 10 ft 240" = 20 ft

**Example: NM-4P0924-120 for 4' side rail, polyester resin, 9" rung spacing, 24" wide, 120" (10 ft) length.**

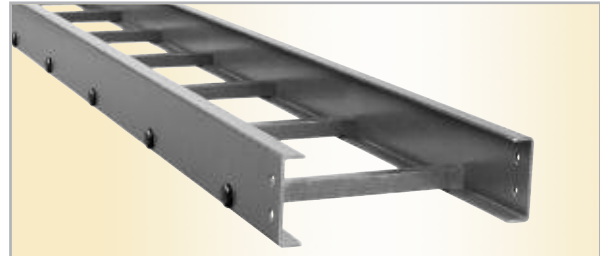
Note : One pair of stainless steel SS6 splice plates with SS6 hardware included with each length.

For other types of splice plates, see page 51.



**NON-METALLIC CABLE TRAY & STRUT SYSTEMS**

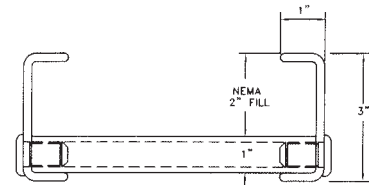
**3" STRAIGHT SECTION**



**STRAIGHT SECTION CATALOG SELECTOR**

**NM - 3 P 09 24 - 120**

CABLE TRAY SYSTEM	SERIES	MATERIAL	RUNG SPACING	WIDTH	LENGTH
Non-metallic	3	P - Polyester Resin V- Vinyl Ester Resin	6" 9" 12" 18"	6" 9" 12" 18" 24" 30" 36"	120" = 10 ft 240" = 20 ft



Side Rail Height : 3' (2" loading depth)

**SPECIFICATIONS**

Series	Safety Factor	SUPPORT SPAN (FT.)					
		6	8	10	12	14	
<b>3</b>	1.5	Design Load Lbs./Ft.	257	145	93	64	47
		Deflection in.	1.3	2.3	3.7	5.3	7.2
		K Factor	0.005	0.016	0.040	0.083	0.153

**SPLICE PLATES**

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

**LOADING**

- CSA load class: C1/3M
- NEMA 8C
- 12" rung spacing

**DEFLECTION FACTOR**

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



**NON-METALLIC CABLE TRAY & STRUT SYSTEMS**

**4" STRAIGHT SECTION**



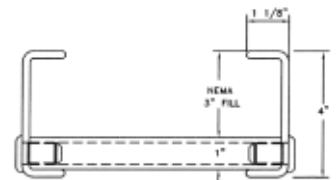
**STRAIGHT SECTION CATALOG SELECTOR**

**NM - 4 P 09 24 - 120**

CABLE TRAY SYSTEM	SERIES	MATERIAL	RUNG SPACING	WIDTH	LENGTH
Non-metallic	4	P - Polyester Resin V - Vinyl Ester Resin	6" 9" 12" 18"	6" 9" 12" 18" 24" 30" 36"	120" = 10 ft 240" = 20 ft

STRAIGHT SECTION

Side Rail Height : 4" (3" loading depth)



**SPECIFICATIONS**

Series	Safety Factor	SUPPORT SPAN (FT.)					
		10	12	14	16	18	
<b>4</b>	1.5	Design Load Lbs./Ft.	157	109	80	61	48
		Deflection in.	2.1	3.0	4.0	5.3	6.7
		K Factor	0.013	0.028	0.050	0.087	0.140

**SPLICE PLATES**

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

**LOADING**

- CSA load class: C1/3M
- NEMA 12C
- 12" rung spacing

**DEFLECTION FACTOR**

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



**NON-METALLIC CABLE TRAY & STRUT SYSTEMS**

# 6" STRAIGHT SECTION



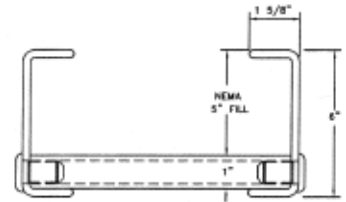
**STRAIGHT SECTION CATALOG SELECTOR**

**NM - 6B P 09 24 - 120**

CABLE TRAY SYSTEM	SERIES	MATERIAL	RUNG SPACING	WIDTH	LENGTH
Non-metallic	6B	P - Polyester Resin V- Vinyl Ester Resin	6" 9" 12" 18"	6" 9" 12" 18" 24" 30" 36"	120" = 10 ft 240" = 20 ft

**SPECIFICATIONS**

Side Rail Height : 6" (5" loading depth)



Series	Safety Factor	SUPPORT SPAN (FT.)					
		12	14	16	18	20	
<b>6B</b>	1.5	Design Load Lbs./Ft.	254	186	143	113	91
		Deflection in.	1.6	2.2	2.8	3.6	4.4
		K Factor	0.006	0.012	0.020	0.032	0.048

**SPLICE PLATES**

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

**LOADING**

- CSA load class: E/3M
- NEMA 20B
- 12" rung spacing

**DEFLECTION FACTOR**

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



**NON-METALLIC CABLE TRAY & STRUT SYSTEMS**

**6" STRAIGHT SECTION**



**STRAIGHT SECTION CATALOG SELECTOR**

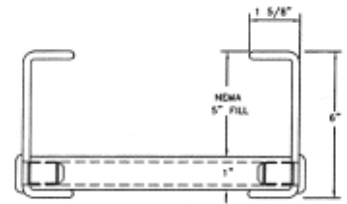
**NM - 6C P 09 24 - 120**

CABLE TRAY SYSTEM	SERIES	MATERIAL	RUNG SPACING	WIDTH	LENGTH
Non-metallic	6C	P - Polyester Resin V- Vinyl Ester Resin	6" 9" 12" 18"	6" 9" 12" 18" 24" 30" 36"	120" = 10 ft 240" = 20 ft

STRAIGHT SECTION

**SPECIFICATIONS**

Side Rail Height : 6" (5" loading depth)



Series	Safety Factor	SUPPORT SPAN (FT.)					
		12	14	16	18	20	
<b>6C</b>	1.5	Design Load Lbs./Ft.	356	262	200	158	128
		Deflection in.	1.6	2.2	2.9	3.7	4.6
		K Factor	0.004	0.008	0.015	0.023	0.136

**SPLICE PLATES**

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

**LOADING**

- CSA load class: E/3M, D/6M
- NEMA 20C
- 12" rung spacing

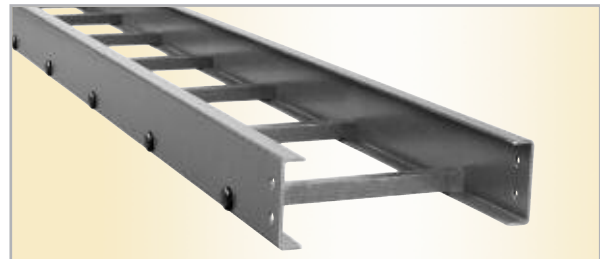
**DEFLECTION FACTOR**

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.



**NON-METALLIC CABLE TRAY & STRUT SYSTEMS**

# 6" STRAIGHT SECTION



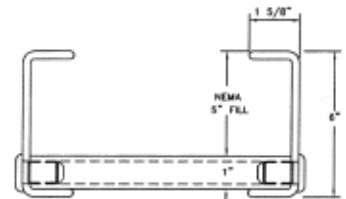
**STRAIGHT SECTION CATALOG SELECTOR**

**NM - H6C P 09 24 - 120**

CABLE TRAY SYSTEM	SERIES	MATERIAL	RUNG SPACING	WIDTH	LENGTH
Non-metallic	H6C	P - Polyester Resin V- Vinyl Ester Resin	6" 9" 12" 18"	6" 9" 12" 18" 24" 30" 36"	120" = 10 ft 240" = 20 ft

**SPECIFICATIONS**

Side Rail Height : 6" (5" loading depth)



Series	Safety Factor	SUPPORT SPAN (FT.)					
		12	14	16	18	20	
<b>H6C</b>	1.5	Design Load Lbs./Ft.	386	283	217	171	139
		Deflection in.	1.8	2.4	3.2	4.0	5.0
		K Factor	0.005	0.008	0.015	0.023	0.036
	2.0	Design Load Lbs./Ft.	289	212	163	129	104
		Deflection in.	1.3	1.8	2.4	3.0	3.7
		K Factor	0.004	0.008	0.015	0.023	0.036

**SPLICE PLATES**

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

**LOADING**

- CSA load class: \*D/6M (\* with safety factor of 1.5 only), E/3M
- NEMA 20C
- 12" rung spacing

**DEFLECTION FACTOR**

To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.