

# Channel Cable Tray - Straight Sections

## Straight Section Part Numbering

Prefix  
Example: **A CC - 04 - 120**

### Material

- **A** = Aluminum 6063-T4
- **G** = Type 1 - HDGAF
- **P** = Type 2 - Pre-Galvanized
- **SS4** = 304 Stainless Steel
- **SS6** = 316 Stainless Steel

### Type

- **CC** = Ventilated Cable Channel
- **CCN** = Non-Ventilated Cable Channel

### Width

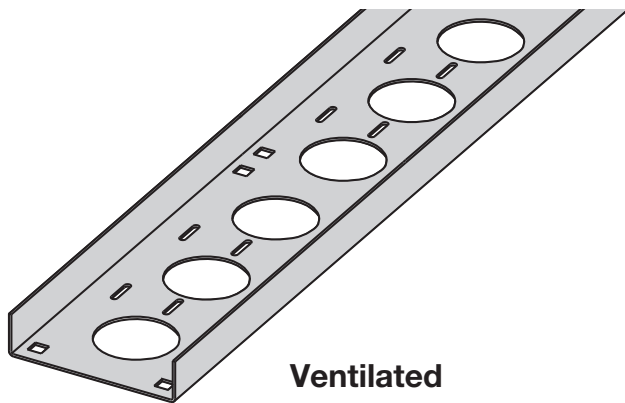
- **03** = 3"
- **04** = 4"
- **06** = 6"

### Length

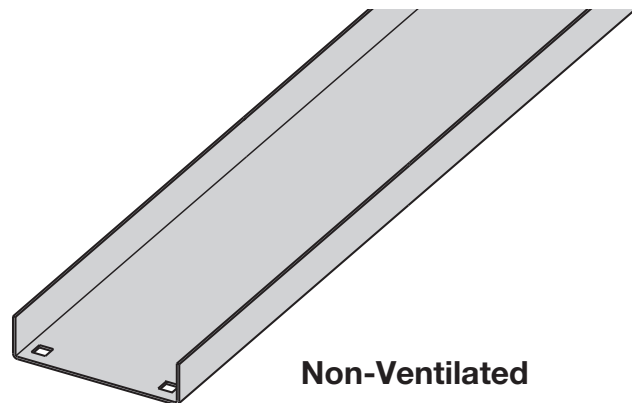
- **144** = 12 ft.
- **120** = 10 ft.

① Primary Length.  
② Secondary Length.

See page CTS-23 for explanation of lengths.



Ventilated



Non-Ventilated

Ventilated straight sections contain 2<sup>1</sup>/<sub>4</sub>" diameter holes and 3<sup>3</sup>/<sub>16</sub>" x 7<sup>7</sup>/<sub>8</sub>" slots for cable attachment. Ventilated straight sections also have splice holes repeating every 12" to simplify field modifications.

Material Type	Width in.	Depth in.	UL Area in. <sup>2</sup>	Load Data * Safety Factor = 1.5	Support Span (Ft)				Load Data * Safety Factor = 1.5	Support Span (m)			
					5	6	10	12		1.5	1.8	3.0	3.7
Aluminum	3 (75)	1.25 (32)	0.6	Load (lbs/ft)	22	15	5	4	Load (kg/m)	33	22	7	6
				Deflection Multiplier	0.025	0.051	0.395	0.820	Deflection Multiplier	.427	0.871	6.743	13.997
	4 (100)	1.75 (44)	0.6	Load (lbs/ft)	48	33	12	8	Load (kg/m)	71	49	18	12
				Deflection Multiplier	0.0071	0.015	0.114	0.236	Deflection Multiplier	0.121	0.256	1.946	4.028
	6 (150)	1.75 (44)	1.00	Load (lbs/ft)	52	36	13	9	Load (kg/m)	77	54	19	13
				Deflection Multiplier	0.0055	0.011	0.088	0.183	Deflection Multiplier	0.094	0.188	1.502	3.124
Steel 14 Gauge	3 (75)	1.25 (32)	0.20	Load (lbs/ft)	24	17	6	4	Load (kg/m)	36	25	9	6
				Deflection Multiplier	0.013	0.028	0.216	0.447	Deflection Multiplier	0.222	0.478	3.687	7.630
	4 (100)	1.75 (44)	0.40	Load (lbs/ft)	52	36	13	9	Load (kg/m)	77	54	19	13
				Deflection Multiplier	0.0039	0.0082	0.063	0.130	Deflection Multiplier	0.067	0.140	1.075	2.219
	6 (150)	1.75 (44)	0.40	Load (lbs/ft)	59	41	15	10	Load (kg/m)	88	61	22	15
				Deflection Multiplier	0.003	0.0063	0.049	0.101	Deflection Multiplier	0.051	0.108	0.836	1.724

To calculate simple Beam Deflection in inches, multiply the design load (lbs/ft) by the Deflection Multiplier shown for the span.  
To calculate simple Beam Deflection in millimeters, multiply the design load (kg/m) by the Deflection Multiplier shown for the span.  
All dimensions in parentheses are millimeters unless otherwise specified.

\* Load data is determined by realistic deflection, not by failure.

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