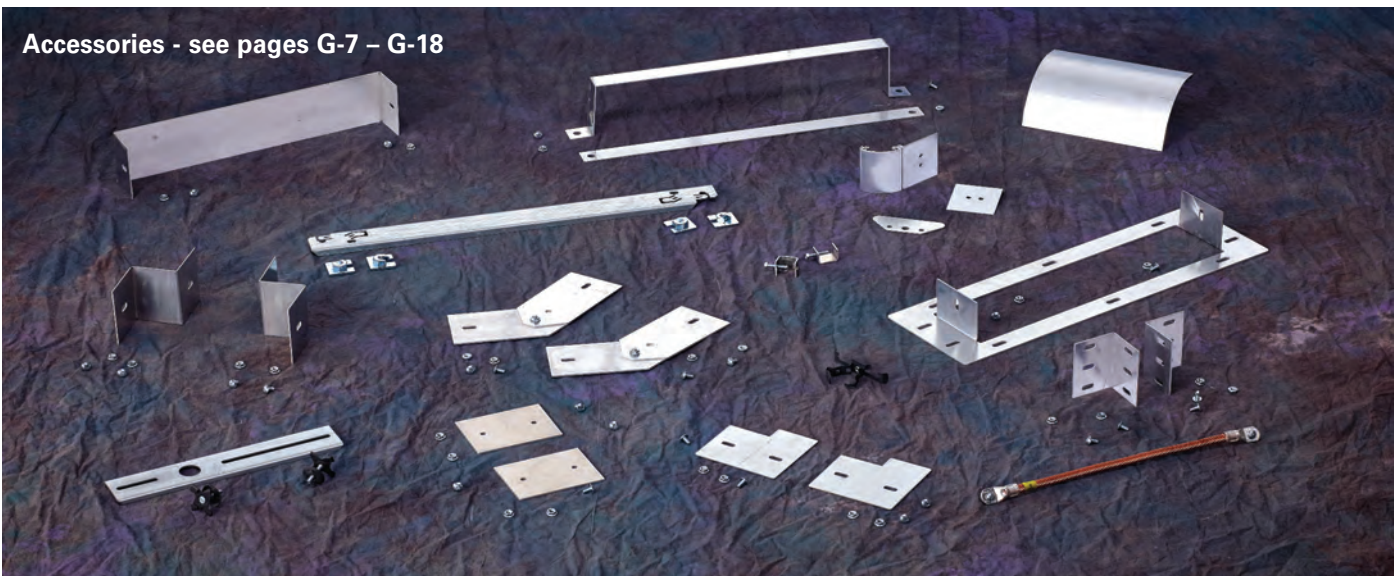


# KwikSplice™ Aluminum Cable Tray - Straight Sections & Accessories



Straight Sections - see pages G-3 – G-6  
Covers - see page G-13



Accessories - see pages G-7 – G-18

Fittings - see pages 21-33



KwikSplice Cable Tray

## 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:**            **KSA**   **4**     **A**     **SB**   -   **12**   -   **144**  
                              ●     ●     ●     ●            ●     ●

**Part will have a normal lead time because of the solid bottom.**

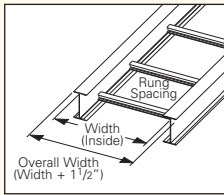
## KSA4A and KSA5A Straight Sections

### Straight Section Part Numbering

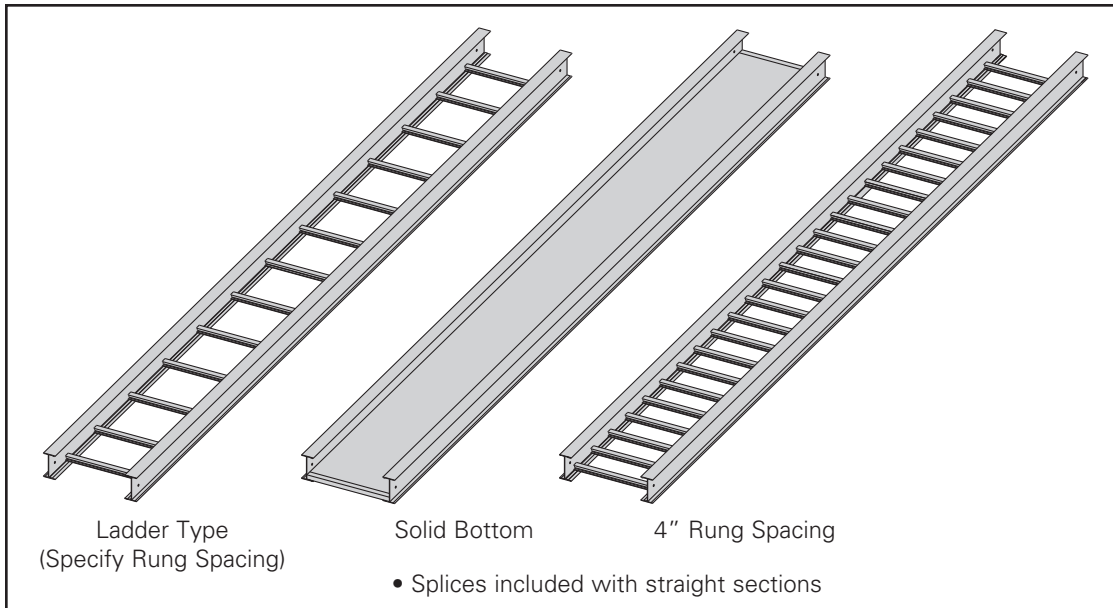
Prefix

Example: **KS A 4 A 09 - 12 - 144**

Series	NEMA Class	Height	Material	Type	Width	Length
KS	A = 50 Lbs/Ft NEMA 12A (12 ft. span)	4 = 4" 5 = 5"	A = Aluminum	<b>Ladder-</b> 06 = 6" rung spacing 09 = 9" rung spacing 12 = 12" rung spacing  <b>Trough-</b> 04 = 4" rung spacing SB = Solid Bottom	06 = 6" 09 = 9" 12 = 12" 18 = 18" 24 = 24" 30 = 30" 36 = 36"	①144 = 12 ft. ②120 = 10 ft. ①Primary ②Secondary

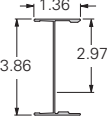


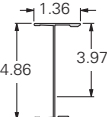
Values are based on simple beam tests per VE-1 on 36" wide cable tray with rungs spaced on 12" centers. The published load safety factor is 1.5. To convert 1.5 safety factor to 2.0, multiply the published load by 0.75. To obtain mid-span deflection, multiply a load by the deflection multiplier. Cable tray must be supported on spans shorter than or equal to the length of the tray.



All dimensions in parentheses are millimeters unless otherwise specified.

## KSA4A and KSA5A Straight Section Technical Data

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>KSA4A</b> 	NEMA: 12A	6	221	0.0016	Area = 0.80 in <sup>2</sup> Sx = 0.90 in <sup>3</sup> Ix = 1.79 in <sup>4</sup>	1.8	328	0.028	Area = 5.16 cm <sup>2</sup> Sx = 14.75 cm <sup>3</sup> Ix = 74.51 cm <sup>4</sup>
	CSA: C-3m	8	124	0.0051		2.4	185	0.088	
	UL Cross-Sectional	10	79	0.0126		3.0	125	0.215	
	Area: 0.60 in <sup>2</sup>	12	55	0.0261		3.7	82	0.445	

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>KSA5A</b> 	NEMA: 12A	6	219	0.0009	Area = 0.92 in <sup>2</sup> Sx = 1.24 in <sup>3</sup> Ix = 3.08 in <sup>4</sup>	1.8	326	0.016	Area = 5.94 cm <sup>2</sup> Sx = 20.32 cm <sup>3</sup> Ix = 128.20 cm <sup>4</sup>
	CSA: C-3m	8	123	0.0030		2.4	183	0.051	
	UL Cross-Sectional	10	79	0.0073		3.0	120	0.125	
	Area: 0.60 in <sup>2</sup>	12	55	0.0151		3.7	81	0.259	

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.