SELECTION CHART

for Channels, Materials and Hole Patterns

	Channel Dimensions			Material & Thickness *				Channel Hole Pattern **					
Channel Type				Stainless		SH	s	H1 ⁷ /8	TH	KO6			
	Height		Wid	th	Steel			⁹ /16" x 1 ¹ /8" slots on	¹³ / ₃₂ " x 3" slots	9/16" diameter	9/16" diameter	7/8" diameter	
					Steel	Alum.	Туре	Туре	2" centers		holes	on 1 ⁷ /8" centers	knockouts
			r	r			304	316		[0]			
	 				1	<u>2</u>	<u>3</u>	<u>4</u>					
B11	31/4"	(82.5)	1 ⁵ /8"	(41.3)	12 Ga.	.105	-	_	1	1	1	_	1
B12	2 ⁷ /16"	(61.9)	1 ⁵ /8"	(41.3)	12 Ga.	.105	_	_	12	<u>1</u>	12	-	12
B22	1 ⁵ /8"	(41.3)	1 ⁵ /8"	(41.3)	12 Ga.	.105	12 Ga.	12 Ga.	1234	<u>1</u> <u>3</u>	<u>123</u>	<u>1</u>	<u>12</u>
B24	1 ⁵ /8"	(41.3)	1 ⁵ /8"	(41.3)	14 Ga.	.080	14 Ga.	14 Ga.	1234	<u>1</u>	<u>123</u>	ı	<u>12</u>
B26	1 ⁵ /8"	(41.3)	1 ⁵ /8"	(41.3)	16 Ga.	_	_	_	1	<u>1</u>	<u>1</u>	1	<u>1</u>
B32	1 ³ /8"	(34.9)	1 ⁵ /8"	(41.3)	12 Ga.	-	12 Ga.	-	<u>1</u> <u>3</u>	<u>1</u>	<u>13</u>	-	<u>1</u>
B42	1"	(25.4)	1 ⁵ /8"	(41.3)	12 Ga.	_	12 Ga.	_	<u>1</u> <u>3</u>	<u>1</u>	<u>1</u> <u>3</u>	-	<u>1</u>
B52	¹³ / ₁₆ "	(20.6)	1 ⁵ /8"	(41.3)	12 Ga.	_	12 Ga.	12 Ga.	<u>134</u>	<u>1</u>	<u>1</u>	-	<u>1</u>
B54	¹³ /16"	(20.6)	1 ⁵ /8"	(41.3)	14 Ga.	.080	14 Ga.	14 Ga.	<u>1234</u>	<u>1</u>	<u>1234</u>	_	<u>12</u>
B56	13/16"	(20.6)	1 ⁵ /8"	(41.3)	16 Ga.	-	-	-	<u>1</u>	<u>1</u>	<u>1</u>	-	<u>1</u>
B62	¹³ /16"	(20.6)	¹³ /16"	(20.6)	18 Ga.	-	_	_	_	ı	-	_	_
B72	13/32"	(10.3)	¹³ /16"	(20.6)	18 Ga.	-	-	-	-	-	-	-	-

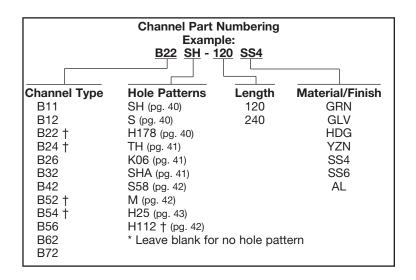
The selection has been prepared to provide a reference for available channel, materials and hole patterns. Material types available for various hole patterns are defined by numbers 1 thru 4. Some stainless steel channels with hole patterns are available on special order only.

*Metric equivalent for thicknesses shown in chart.

**<u>1</u> - Steel 18 Ga. = 1.2 mm 2 - Aluminum

12 Ga. = 2.6 mm 14 Ga. = 1.9 mm .105 = 2.6 mm3 - Type 304 Stainless Steel 16 Ga. = 1.5 mm .080 = 2.0 mm4 - Type 316 Stainless Steel

Properties may vary due to commercial tolerances of the material.



Strut Fittings

B823 PROFILE END CAPS

- Material: PVC
- Available in colors: White (W), Yellow (Y), Black (BLK), Gray (GRY), Green (GRN)

Approx. 3/4" deep (19.0)



	Fits	Wt./C		
Part No.	Channel Sizes	Lbs.	kg	
B823-22A	B22A, B24A, B26A	6.9	(3.1)	
B823-22	B22, B24, B26	4.1	(1.8)	
B823-42	B42	3.8	(1.7)	
B823-52	B52, B54, B56	3.5	(1.6)	

B825 PLASTIC END CAPS

- Material: Polyurethane
- Available in colors: Gray (GRY), Green (GRN)



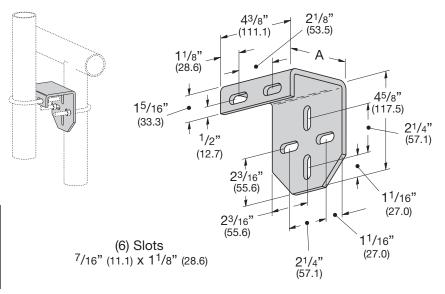


	Fits	Wt./C		
Part No.	Channel Sizes	Lbs.	kg	
B825-22	B22 & B24	2.0	(0.9)	
B825-52	B52 & B54	1.0	(0.4)	

B408SLBVNS Series STAND-OFF BRACKETS

- Material: 1/4" (6.3)
- Standard Finishes: HDG, ZN, GRN
- For pipe or rigid conduit sizes of 1¹/2" (32) and 2" (50) use with B501 Series 'U'-Bolts
- For strut channels 1⁵/8" (41.3) wide use with B500 Series Square 'U'-Bolts
- Hardware is not included

Part No.	A In. (mm)		Wt./C Lbs. kg		
B408SLBVNS	31/2"	(88.9)	189	(85.7)	
B408SLBVNS1	3"	(76.2)	220	(99.8)	
B408SLBVNS2	2"	(50.8)	236	(107.0)	



Reference Data

General Notes for Strut-Type Channel Raceway

UL Catagory RIUU - B-Line, Inc., Highland, IL 62249 December 11, 1998 (C) FLUORESCENT AND INCANDESCENT LIGHTING



Suitable for not more than the number of wires of the sizes and types indicated in the following tables. Intended to enclose circuits operating at potentials not exceeding 600 volts between conductors. In all cases, the B217-20 or B217P snap-in cover is required to complete raceway closure. When using B217-24 snap-in cover, the number of wires is limited to 7 or fewer conductors no larger than #12 AWG.

B-Line's strut-type channel raceways and fittings are manufactured and tested to comply with the UL Standard for Safety for Strut-Type Channel Raceways and Fittings (UL 5B) in accordance with Article 384 of the 2002 National Electrical Code, NFPA 70.

- 1. Support spans for strut-type channel raceway shall not exceed 10 foot intervals.
- 2. No conductor larger than that for which the raceway is listed shall be installed in strut-type channel raceways. No wires under 14AWG or over 6AWG are allowed in any of B-Line's strut-type channel raceway. See tables 1, 2 and 3 below for a listing of the approved conductors for B-Line's strut-type channel raceways.
- 3. The number of conductors permitted in strut-type channel raceway shall not exceed the percentage fill using Table 384-22 and the applicable outside diameter of specific types and sizes of wire given in the tables in chapter 9 of the National Electrical Code. Table 384-22 lists two different percent fill areas depending on the use of internal or external joiners. Use 40% area fill with external joiners and 25% area fill for internal joiners.
- 4. Items in the electrical section of the B-Line Strut Systems Catalog identified by the UL symbol provide for electrical continuity. Other items require the use of a separate grounding wire.
- 5. If strut-type channel raceway is connected to another wiring system, the raceway must be field-tapped adjacent to the wire entry point to accept a #10-32 or larger grounding screw. A plated or stainless steel screw may be used. A sheet metal screw is not acceptable. Drill and tap the grounding wire hole before installing wires in raceway or move installed wires out of the way to avoid damage. After drilling and tapping, remove metal chips and burrs before installing screw.

TABLE 1: MAXIMUM NUMBER OF WIRES (Adjusted per NEC Table 384.22 for 40% fill)

Use this table to determine the type and number of conductors for use with B-Line's strut-type channel raceway using external joiners. This table applies for all installations except for the support and supply of electric discharge type lighting fixtures. See table 2 and 3 for further information.

Insulation	Wire Size	B11	B12	B22	B24	B26	B32	B56
Type	AWG.	B11K06	B12K06	B22K06	B24K06	B26K06	B32K06	B56K06
FEP, FEPB	14 12 10 8 6	172 126 90 51 24	127 92 66 38 17	81 59 42 24 11	81 59 42 24 12	81 59 42 24 12	67 49 35 20 9	36 26 19 11 5
RH, RHH, RHW	14 12 10 8 6	52 45 37 20 14	38 33 27 14 10	24 21 17 9 6	26 22 18 10 7	27 23 19 10 7	20 17 14 7 5	12 10 8 4 3
T, TW	14	124	91	58	58	58	48	26
	12	95	70	45	45	45	37	20
	10	69	51	33	33	33	27	14
	8	36	26	17	18	19	14	8
	6	21	15	9	10	11	8	5
THHN, THWN	14 12 10 8 6	178 130 82 46 33	131 95 60 34 24	84 61 38 21 15	84 61 38 22 16	84 61 38 22 16	69 50 32 17 12	37 27 17 10 7
THW	14	82	61	39	39	39	32	17
	12	66	49	31	31	31	26	14
	10	52	38	24	24	24	20	11
	8	29	21	13	14	15	11	6
	6	21	15	10	10	11	8	5
XHHW	14	124	91	58	58	58	48	26
	12	95	70	45	45	45	37	20
	10	71	52	33	33	33	28	15
	8	37	27	17	19	19	14	8
	6	27	20	13	14	14	10	6



Strut Systems