

SELECTION CHART

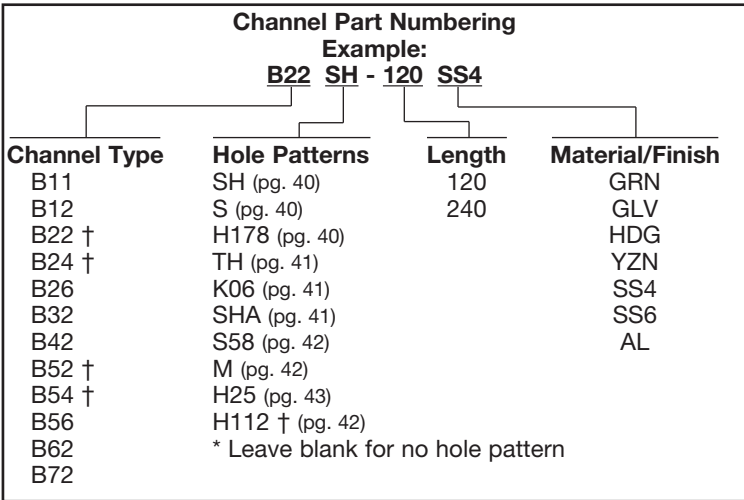
for Channels, Materials and Hole Patterns

Channel Type	Channel Dimensions				Material & Thickness *				Channel Hole Pattern **				
	Height		Width		Steel	Alum.	Stainless Steel		SH 9/16" x 1 1/8" slots on 2" centers	S 13/32" x 3" slots	H17/8 9/16" diameter holes	TH 9/16" diameter on 1 7/8" centers	KO6 7/8" diameter knockouts
							Type 304	Type 316					
					<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>					
B11	3 1/4"	(82.5)	1 5/8"	(41.3)	12 Ga.	.105	-	-	<u>1</u>	<u>1</u>	<u>1</u>	-	<u>1</u>
B12	2 7/16"	(61.9)	1 5/8"	(41.3)	12 Ga.	.105	-	-	<u>1 2</u>	<u>1</u>	<u>1 2</u>	-	<u>1 2</u>
B22	1 5/8"	(41.3)	1 5/8"	(41.3)	12 Ga.	.105	12 Ga.	12 Ga.	<u>1 2 3 4</u>	<u>1 3</u>	<u>1 2 3</u>	<u>1</u>	<u>1 2</u>
B24	1 5/8"	(41.3)	1 5/8"	(41.3)	14 Ga.	.080	14 Ga.	14 Ga.	<u>1 2 3 4</u>	<u>1</u>	<u>1 2 3</u>	-	<u>1 2</u>
B26	1 5/8"	(41.3)	1 5/8"	(41.3)	16 Ga.	-	-	-	<u>1</u>	<u>1</u>	<u>1</u>	-	<u>1</u>
B32	1 3/8"	(34.9)	1 5/8"	(41.3)	12 Ga.	-	12 Ga.	-	<u>1 3</u>	<u>1</u>	<u>1 3</u>	-	<u>1</u>
B42	1"	(25.4)	1 5/8"	(41.3)	12 Ga.	-	12 Ga.	-	<u>1 3</u>	<u>1</u>	<u>1 3</u>	-	<u>1</u>
B52	1 3/16"	(20.6)	1 5/8"	(41.3)	12 Ga.	-	12 Ga.	12 Ga.	<u>1 3 4</u>	<u>1</u>	<u>1</u>	-	<u>1</u>
B54	1 3/16"	(20.6)	1 5/8"	(41.3)	14 Ga.	.080	14 Ga.	14 Ga.	<u>1 2 3 4</u>	<u>1</u>	<u>1 2 3 4</u>	-	<u>1 2</u>
B56	1 3/16"	(20.6)	1 5/8"	(41.3)	16 Ga.	-	-	-	<u>1</u>	<u>1</u>	<u>1</u>	-	<u>1</u>
B62	1 3/16"	(20.6)	1 3/16"	(20.6)	18 Ga.	-	-	-	-	-	-	-	-
B72	1 3/32"	(10.3)	1 3/16"	(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. **1 - Steel
 12 Ga. = 2.6 mm 18 Ga. = 1.2 mm 2 - Aluminum
 14 Ga. = 1.9 mm .105 = 2.6 mm 3 - Type 304 Stainless Steel
 16 Ga. = 1.5 mm .080 = 2.0 mm 4 - Type 316 Stainless Steel

Properties may vary due to commercial tolerances of the material.

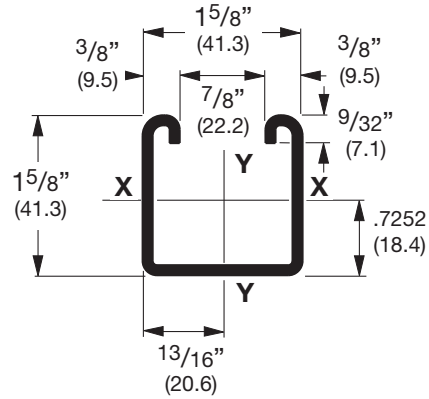
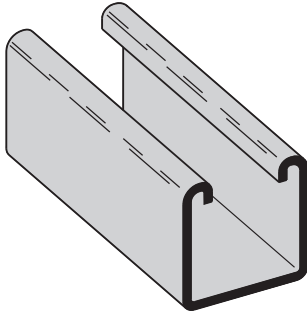


Reference page 14 for general fitting and standard finish specifications.

B22 Channel

B22

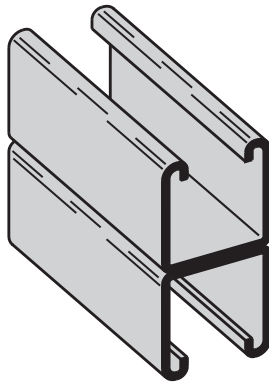
- Thickness: 12 Gauge (2.6 mm)
- Standard lengths: 10' (3.05 m) & 20' (6.09 m)
- Standard finishes: Plain, DURA-GREEN™, Pre-Galvanized, Hot-Dipped Galvanized, Stainless Steel Type 304 or 316, Aluminum
- Weight: 1.90 Lbs./Ft. (2.83 kg/m)



SECTION PROPERTIES

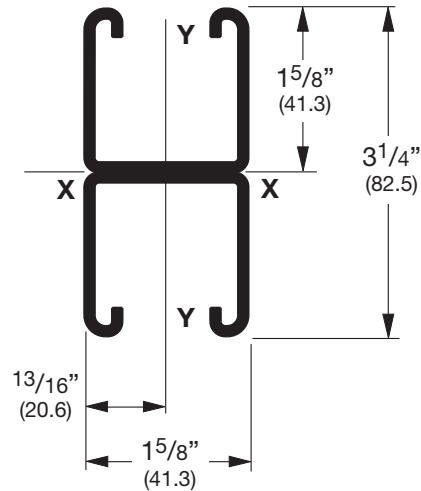
Channel	Weight lbs./ft. kg/m	Areas of Section		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (r)		Moment of Inertia (I)		Section Modulus (S)		Radius of Gyration (r)	
		sq. in.	cm ²	in. ⁴	cm ⁴	in. ³	cm ³	in.	cm	in. ⁴	cm ⁴	in. ³	cm ³	in.	cm
B22	1.910 (2.84)	.562 (3.62)		.1912 (7.96)		.2125 (3.48)		.583 (1.48)		.2399 (9.99)		.2953 (4.84)		.653 (1.66)	
B22A	3.820 (5.69)	1.124 (7.25)		.9732 (40.51)		.5989 (9.81)		.931 (2.36)		.4798 (19.97)		.5905 (9.68)		.653 (1.66)	
B22X	6.649 (9.89)	1.956 (12.62)		4.1484 (172.67)		1.7019 (27.89)		1.456 (3.70)		1.1023 (45.88)		1.2027 (19.71)		.751 (1.91)	

Calculations of section properties are based on metal thicknesses as determined by the AISI Cold-Formed Steel Design Manual.



B22A

Wt. 3.80 Lbs./Ft. (5.65 kg/m)



Electrical Accessories

A complete system of top quality, time saving products, designed for surface metal raceways, lighting and cable supports. Innovative designs offer many installation advantages. B-Line's surface raceways are U.L. listed and meet the requirements of the National Electrical Code, Article 384.

Surface Raceways

Our channel provides structural support in addition to a raceway system.

For U.L. wire fill see chart on page 230-231.

Cable Supports

A full range of clamps and saddles are offered in porcelain, thermoplastic elastomer and maple. Our maple clamps, Insulclamp™ cable clamps and porcelain saddles are furnished complete with steel clamps (electro-plated) and Everdur hardware where required.

Materials & Finishes*

Steel products are made from low carbon steel strips or plates. Porcelain saddles and clamps are made by dry process and white glazed (porcelain dielectric strength is 50 volts per mil). Maple clamps are made from kiln-dried maple wood, paraffin impregnated.

Finish Code	Finish	Specification
PLN	Plain	ASTM A1011 33,000 PSI min. yield
ZN	Electro-Plated Zinc	ASTM B633 SC3 Type III
GRN	DURA-GREEN™	
GALV	Pre-Galvanized	ASTM B653
YZN	Yellow Zinc Chromate	ASTM B633 SC3 Type II

*Unless otherwise noted.

Design Load

Design load data published includes a Safety Factor of 3.0 (Safety Factor = Ratio of ultimate load to the design load).

U.L. listed raceway channels:

B11, B11KO6	B32, B32KO6
B12, B12KO6	B42, B42KO6
B22, B22KO6	B52, B52KO6
B24, B24KO6	B54, B54KO6
B26, B26KO6	B56, B56KO6

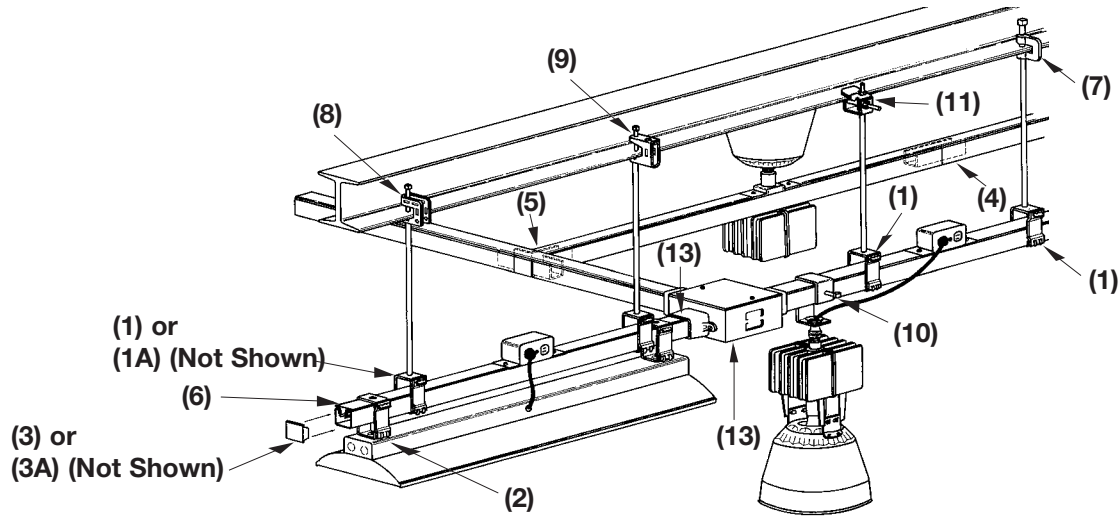
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In all cases, the snap-in closure strip is required to complete raceway enclosure.

Metric

Metric dimensions are shown in parentheses. Unless noted, all metric dimensions are in millimeters.



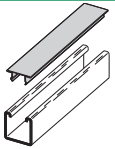
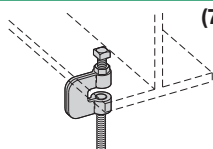
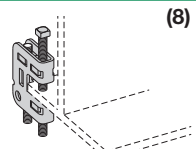
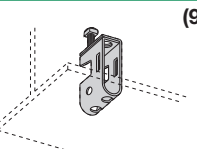
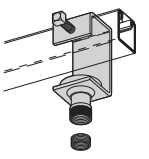
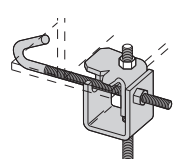
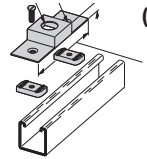
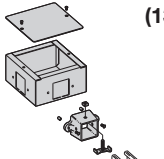


SELECTION CHART		1	1A	2	3	3A	4	5
Channel Number	Depth	Channel Hanger	Channel Hanger	Fixture Hanger	End Cap	Connection End Cap	Internal Straight Splice	Internal Tee Splice
B22A	3 1/4" (82.5)	B616-22A*	B241S*	B616S-22A*	B205 or B285	B392-22** B285	B766-22 (2)	B768-22 (2)
B11	3 1/4" (82.5)	B616-22A*	B241S*	B616S-22A*	B222	B392-11**	B766-11	B768-11
B12	2 7/16" (61.9)	B616-22A*	B241S*	B616S-22A*	B221	B392-12**	B766-12	B768-12
B22 B24	1 5/8" (41.3)	B616*	B216S*	B616S* B616TG*	B205 or B285 B223 or B286	B392-22**	B766-22	B768-22
B26	1 5/8" (41.3)	B616*	-	-	-	B392-22**	-	-
B32	1 3/8" (34.9)	B616*	B216S*	B616S* B616TG*	B206	B392-32**	B766-32	B768-32
B42	1" (25.4)	B616*	B215S*	B616S* B616TG*	B203	-	B766-42	B768-42
B52 B54	1 3/16" (20.6)	B616*	B215S*	B616S* B616TG*	B220 or B283 B204 or B284	-	B766-52	B768-52
B56	1 3/16" (20.6)	B616*	B215S*	B616S* B616TG*	-	-	B766-56	-

*Specify Hanger Rod or Conduit Size.

**Specify Conduit Size

OTHER ITEMS SHOWN ON ILLUSTRATION

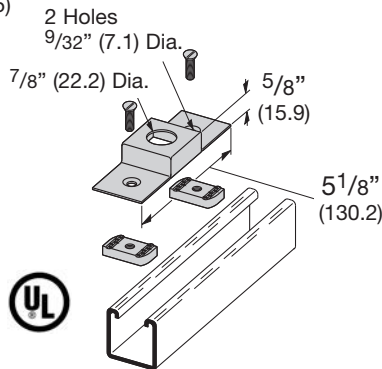
B217-20  Snap-in Closure Strip (6)	B351L  Beam Clamp (7)	B755  Beam Clamp (8)	B751  Beam Clamp (9)
B465  H.I.D. Fixture Hanger (10)	B750  Beam Clamp (11)	B447 B447A  Conduit Connection Plate (12)	B719  B718 Series Junction Box (13)

Reference page 162 for general fitting and standard finish specifications. U.L. Wire Fill Chart on pages 230 - 231.

Electrical Accessories

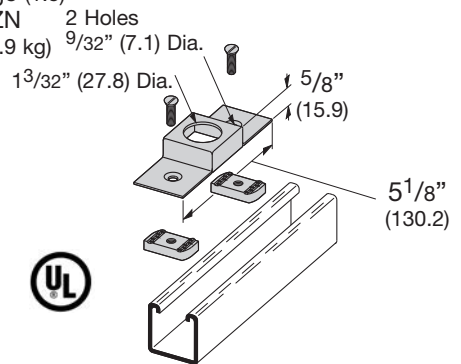
B447 CONDUIT CONNECTION PLATE FOR 1/2" (15) CONDUIT

- Includes:
 - 2 pcs. 1/4"-20 Flat Head Machine Screws
 - 2 pcs. N224WO Channel Nuts
- Material: 16 Gauge (1.5)
- Standard finish: ZN
- Wt./C 35 Lbs. (15.9 kg)



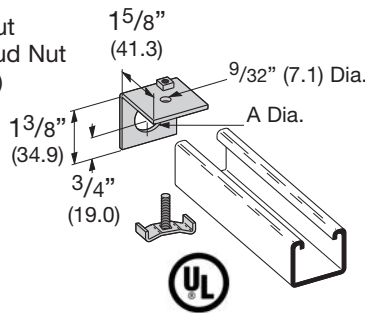
B447A CONDUIT CONNECTION PLATE FOR 3/4" (20) CONDUIT

- Includes:
 - 2 pcs. 1/4"-20 Flat Head Machine Screws
 - 2 pcs. N224WO Channel Nuts
- Material: 16 Gauge (1.5)
- Standard finish: ZN
- Wt./C 35 Lbs. (15.9 kg)



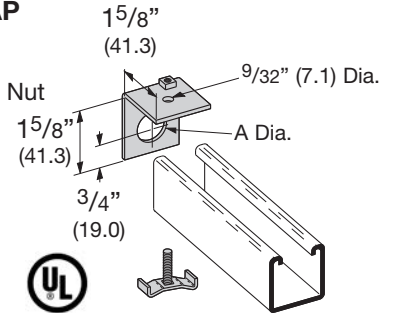
B392-32 SERIES CONNECTION END CAP

- Includes:
 - 1 pc. 1/4"-20 Square Nut
 - 1 pc. B436S Fixture Stud Nut
- Material: 11 Gauge (3.0)
- Standard finish: ZN



B392-22 SERIES CONNECTION END CAP

- Includes:
 - 1 pc. 1/4"-20 Square Nut
 - 1 pc. B436S Fixture Stud Nut
- Material: 11 Gauge (3.0)
- Standard finish: ZN

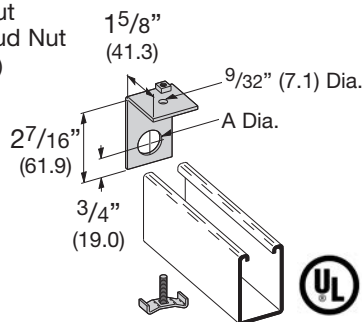


Part No.	A		Conduit Size		Wt./C	
					Lbs.	kg
B392-32-1/2	7/8"	(22.2)	1/2"	(15)	20	(9.1)
B392-32-3/4	1 1/16"	(27.0)	3/4"	(20)	19	(8.6)

Part No.	A		Conduit Size		Wt./C	
					Lbs.	kg
B392-22-1/2	7/8"	(22.2)	1/2"	(15)	21	(9.5)
B392-22-3/4	1 1/16"	(27.0)	3/4"	(20)	20	(9.1)
B392-22-1	1" PIPE THREAD		1"	(25)	17	(7.7)

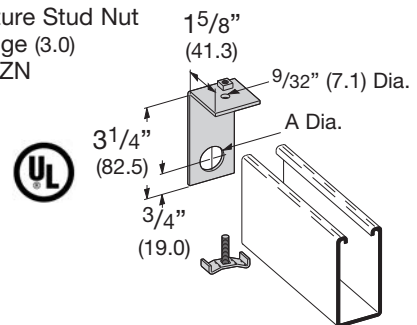
B392-12 SERIES CONNECTION END CAP

- Includes:
 - 1 pc. 1/4"-20 Square Nut
 - 1 pc. B436S Fixture Stud Nut
- Material: 11 Gauge (3.0)
- Standard finish: ZN



B392-11 SERIES CONNECTION END CAP

- Includes:
 - 1 pc. 1/4"-20 Square Nut
 - 1 pc. B436S Fixture Stud Nut
- Material: 11 Gauge (3.0)
- Standard finish: ZN



Part No.	A		Conduit Size		Wt./C	
					Lbs.	kg
B392-12-1/2	7/8"	(22.2)	1/2"	(15)	27	(12.2)
B392-12-3/4	1 1/16"	(22.7)	3/4"	(20)	26	(11.8)
B392-12-1	1" PIPE THREAD		1"	(25)	23	(10.4)

Part No.	A		Conduit Size		Wt./C	
					Lbs.	kg
B392-11-1/2	7/8"	(22.2)	1/2"	(15)	36	(16.3)
B392-11-3/4	1 1/16"	(27.0)	3/4"	(20)	33	(14.9)
B392-11-1	1" PIPE THREAD		1"	(25)	32	(14.5)

Electrical Accessories

Reference page 162 for general fitting and standard finish specifications. U.L. Wire Fill Chart on pages 230 - 231.