

B15
B15i



e-chain system® E2 Mini Series B15 / B15i



Price Index



Series B15 / B15i

Special Features / Options



ESD Classification:
Electrically conductive ESD/
ATEX version upon request



Flammability Class
VDE 0304 IIC UL94 HB

Assembly Tips



Easy to assemble and disassemble

Usage Guidelines



- If snap-open accessibility is required
- If a small but very stable chain is required



- If snap-open accessibility is not required
 - **Series 10 E2 Mini**
- If quick insertion of cables is needed
 - **Series E14 E-Z Chain**

Features & Benefits

- ➊ Large pins and double stop dog for superior life and long unsupported length
- ➋ Mounting bracket with integrated strain relief
- ➌ Can be opened along the outer radius (Series B15) or along the inner radius (Series B15i), these Series can be combined
- ➍ Interior separation available
- ➎ Dirt repellent exterior



Order Example: Complete e-chain®

Please indicate chain length or number of links. Example:

3.28 ft (1 m) **B15-025-038-0**

e-chain®

With 2 separators **154** assembled every 2nd link

Interior Separation

1 Set **1025-12PZ**

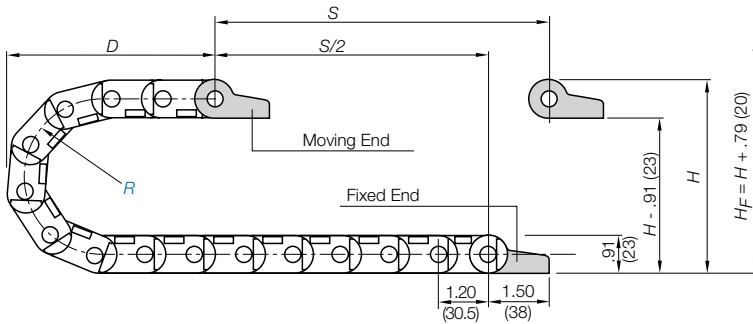
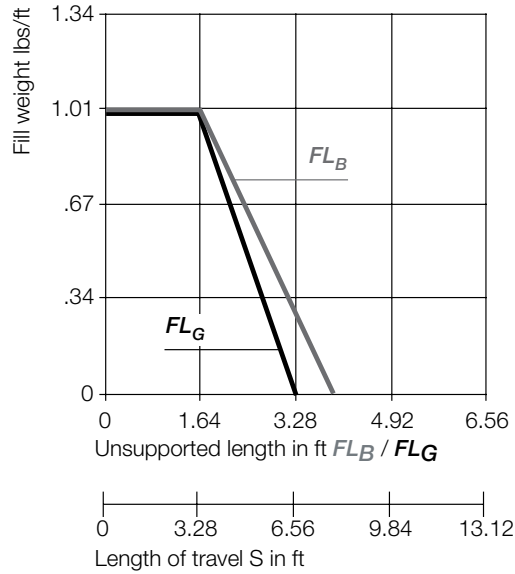
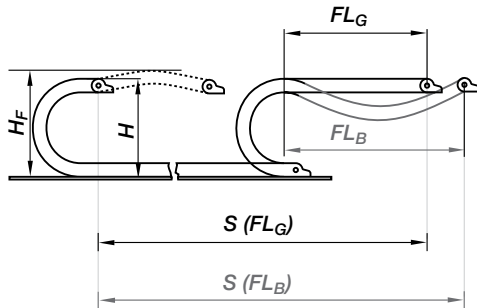
Mounting Bracket

4.79

e-chain system® E2 Mini Series B15 / B15i Installation Dimensions

Short travel, unsupported length

- FL_B = unsupported with permitted sag
 - FL_G = unsupported with straight upper run
- Further information ► Design, Chapter 1



Pitch per link = 1.20" (30.5 mm)
Links per ft (m) = 10.06 (33)
For center mount applications:
Chain length = $\frac{S}{2} + K$

The required clearance height: $H_F = H + .79 \text{ in. (20 mm)}$ (with 1.01 lbs/ft (0.5 kg/m) fill weight).
Please consult igus® if space is particularly restricted.

R	1.50 (038)	1.89 (048)	2.95 (075)	3.94 (100)	4.33 (110)	4.92 (125)	5.71 (145)	7.09 (180)
H	3.90 (99)	4.69 (119)	6.81 (173)	8.78 (223)	9.57 (243)	10.75 (273)	12.32 (313)	15.08 (383)
D	3.74 (95)	4.13 (105)	5.20 (132)	6.18 (157)	6.57 (167)	7.17 (182)	7.95 (202)	9.33 (237)
K	7.28 (185)	8.46 (215)	11.81 (300)	14.96 (380)	16.14 (410)	17.91 (455)	20.47 (520)	24.80 (630)

Speed / acceleration FL_G	max. 65.6 ft/s (20 m/s) / max. 656 ft/s ² (200 m/s ²)
Speed / acceleration FL_B	max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s ² (6 m/s ²)
Gliding speed / acceleration (maximum)	max. 9.84 ft/s (3 m/s) / max. 32.8 ft/s ² (10 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120°C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB



B15
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Short Travels - Unsupported



Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to **Installation dimensions** for further details.

Legend

- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- D = Overlength e-chain® radius in final position
- $K = \pi \cdot R + \text{safety buffer}$
- H_F = Required clearance height



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Technical Data



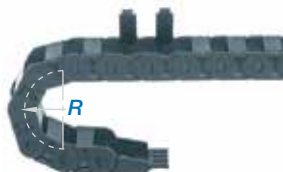
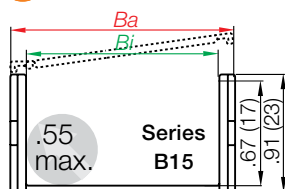
Details of material properties

► Chapter 1



STANDARD

Series B15 - Snap-open along the outer radius - Standard

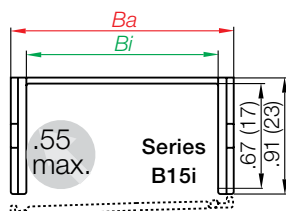


Part Number Structure

B15- 025- 038- 0

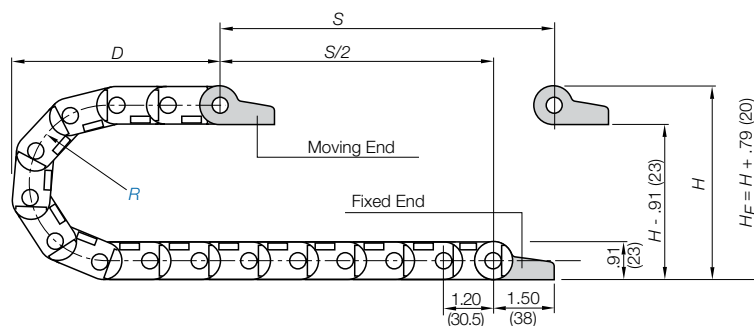
Color - Black
Bending radius
Width
Series

Series B15i - Snap-open along the inner radius



Part Number Structure

B15i- 025- 038- 0

Color - Black
Bending radius
Width
Series

Supplement part number with required radius. Example: B15-025- 038 -0

Pitch: 1.20 in. (30.5 mm) per link links/ft (m) = 10.06 (33)

Part Number

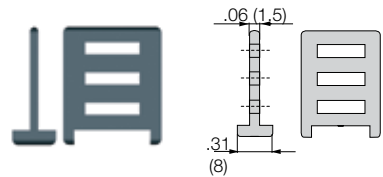
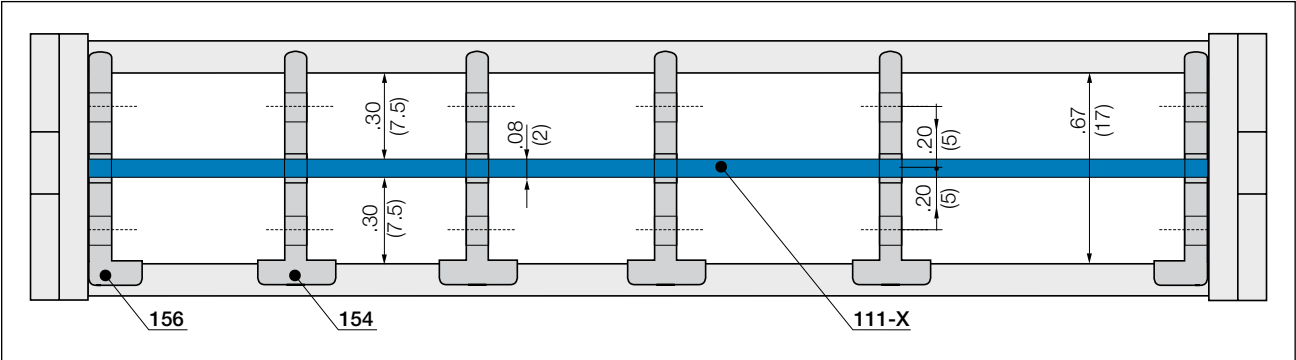
Snap-open outer radius	Snap-open inner radius			<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft (kg/m)
B15-015-	B15i-015-		-0	.59 (15)	1.02 (26)	≈ 0.24 (0.35)
B15-025-	B15i-025-		-0	.98 (25)	1.42 (36)	≈ 0.27 (0.40)
B15-038-	B15i-038-		-0	1.50 (38)	1.93 (49)	≈ 0.31 (0.46)
B15-050-	B15i-050-		-0	1.97 (50)	2.40 (61)	≈ 0.35 (0.52)
B15-5-	B15i-5-		-0	2.48 (63)	2.99 (76)	≈ 0.42 (0.63)
B15-6-	B15i-6-		-0	3.15 (80)	3.70 (94)	≈ 0.47 (0.70)
B15-7-	B15i-7-		-0	3.94 (100)	4.45 (113)	≈ 0.51 (0.76)

Choose from the radii below for all of the above sizes

Radius (mm) Example: B15-025- 038 -0

	038	048	075	100	110	125	145	180
R	1.50 (38)	1.89 (48)	2.95 (75)	3.94 (100)	4.33 (110)	4.92 (125)	5.71 (145)	7.09 (180)
H	3.90 (99)	4.69 (119)	6.81 (173)	8.78 (223)	9.57 (243)	10.75 (273)	12.32 (313)	15.08 (383)
D	3.74 (95)	4.13 (105)	5.20 (132)	6.18 (157)	6.57 (167)	7.17 (182)	7.95 (202)	9.33 (237)
K	7.28 (185)	8.46 (215)	11.81 (300)	14.96 (380)	16.14 (410)	17.91 (455)	20.47 (520)	24.80 (630)

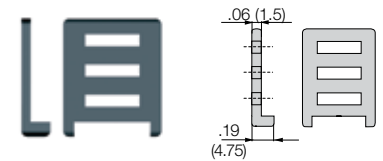
0=Standard color black. For other colors see Chapter 1



Slotted separator for e-chains®

Unassembled	Part No. 153
Assembled	Part No. 154

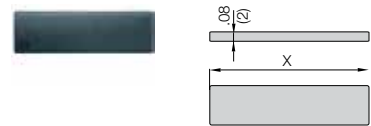
- **Slotted separator 153**
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



Side plate for e-chains®

Unassembled	Part No. 155
Assembled	Part No. 156

- **Side plate 155**
Side plate for use with full-width shelf 110-X and slotted separator 153



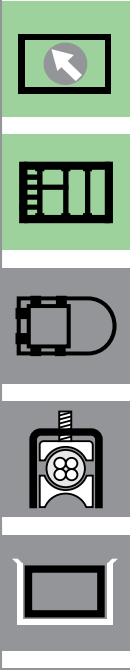
Full width shelf for e-chains®

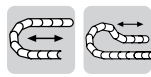
Unassembled	Part No. 110-X
Assembled	Part No. 111-X

- **Full width shelf 110-X**
this option makes sense in applications with many thin cables with similar diameters. Full width shelves can be arranged at 3 different heights in .20" (5 mm) increments.

Width X in. (mm)	Part No. Unassembled	Part No. Assembled
.59 (015)	110-15	111-15
.98 (025)	110-25	111-25
1.50 (038)	110-38	111-38
1.97 (050)	110-50	111-50

Width X in. (mm)	Part No. Unassembled	Part No. Assembled
2.48 (063)	110-63	111-63
3.15 (080)	110-80	111-80
3.94 (100)	110-100	111-100

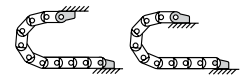
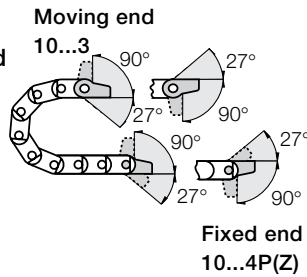
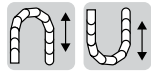




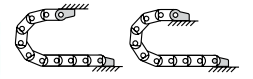
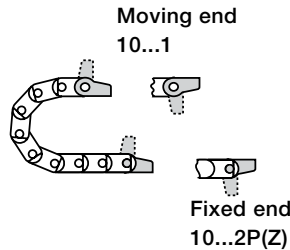
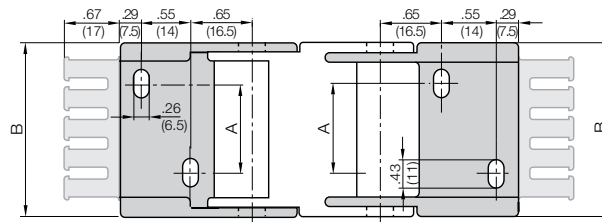
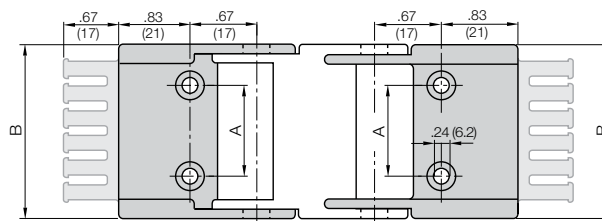
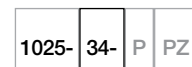
Standard

Option 1: pivoting

- Short and long travel
- Space-restricted conditions
- Corrosion resistant

Possible installation
configurations -**Option 2: locking**

- Vertical hanging/standing travels
- Extreme accelerations
- Corrosion resistant

Possible installation
configurations -For e-chain
B15/B15i-015 to
B15/B15i-050For e-chain
B15/B15i-5 to
B15/B15i-7**Part Number Structure**

- With tie-wrap plate
- Without tie-wrap plate
- Complete Set
12 = Locking
34 = Pivoting
- Mounting brackets for
selected chain type

Part number examples are shown for pivoting brackets. For locking brackets fill in the blank with **12**

Part No. Full Set (pivoting)
with Tie-wrap Plate
Series B15/B15i with 25mm inner width
1025-34PZ

Part No. Full Set (pivoting)
without Tie-wrap Plate
Series B15/B15i with 25 mm inner width
1025-34P

Full set, for both ends:
1025- 34- PZ Full set, each part
with pin/bore + tie-wrap plate

Single-part order:
1025- 3- PZ Mounting bracket with bore
+ tie-wrap plate
1025- 4- PZ Mounting bracket with pin
+ tie-wrap plate

For Chain Type	Part No. Full set with Tie-wrap Plate	Part No. Full Set without Tie-wrap Plate	Dimension A in. (mm)	Dimensions B in. (mm)
B15/B15i-015	1015- PZ	1015- P	— —	1.00 (25.5)
B15/B15i-025	1025- PZ	1025- P	.39 (10)	1.40 (35.5)
B15/B15i-038	1038- PZ	1038- P	.91 (23)	1.91 (48.5)
B15/B15i-050	1050- PZ	1050- P	1.38 (35)	2.38 (60.5)
B15/B15i-5	105- PZ	105- P	1.89 (48)	2.95 (75.0)
B15/B15i-6	106- PZ	106- P	2.56 (65)	3.62 (92.0)
B15/B15i-7	107- PZ	107- P	3.35 (85)	4.41 (112.0)

34 or 12

For pivoting brackets choose **34**For locking brackets choose **12**Example: 1025- **34** PZ

e-chain system® E2 Mini

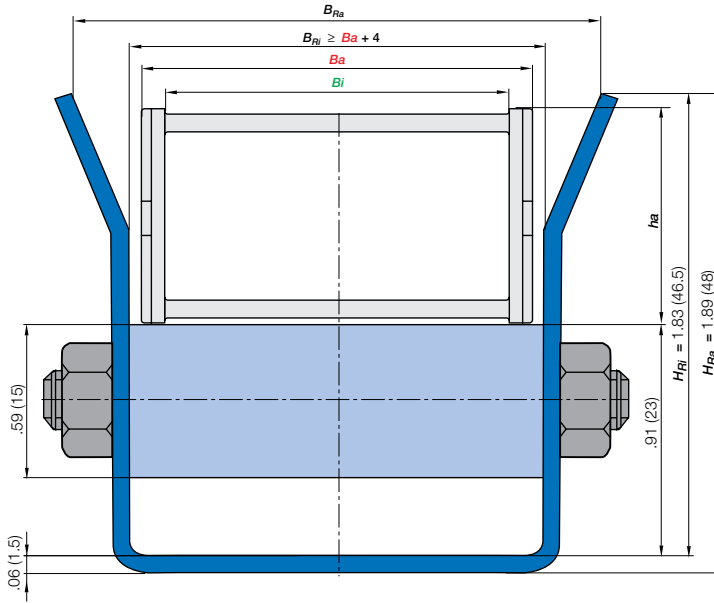
Series B15 / B15i

Guide Trough



B15
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One-piece guide troughs made of steel are available for the Series B15 Energy Chains®. These guide troughs are available from stock for outer chain widths up to 4.45 in. (113 mm). For wider e-chains® and Tubes, special solutions are possible with short lead times. No installation sets are required for these trough sizes since the guide troughs consist of a one-piece U-profile. The joint connection with this type of guide trough is specified individually for every application.



Dimensions Guide troughs 91-10 — 91-71

For Series	Part No.	BRa in. (mm)	BRi in. (mm)	Weight lbs/ft (kg/m)
B15-015				
Trough without glide bar 6.56 ft. (2m section)	91-10	1.59 (40.5)	1.18 (30)	1.01 (1.50)
Glide bar 6.56 ft. (2m section)	91-11	1.59 (40.5)	1.18 (30)	.30 (.45)
B15-025				
Trough without glide bar 6.56 ft. (2m section)	91-20	1.99 (50.5)	1.57 (40)	1.11 (1.65)
Glide bar 6.56 ft. (2m section)	91-21	1.99 (50.5)	1.57 (40)	.38 (.57)
B15-038				
Trough without glide bar 6.56 ft. (2m section)	91-30	2.46 (62.5)	2.05 (52)	1.21 (1.80)
Glide bar 6.56 ft. (2m section)	91-31	2.46 (62.5)	2.05 (52)	.46 (.68)
B15-050				
Trough without glide bar 6.56 ft. (2m section)	91-40	2.85 (72.5)	2.44 (62)	1.28 (1.90)
Glide bar 6.56 ft. (2m section)	91-41	2.85 (72.5)	2.44 (62)	.61 (.91)
B15-5				
Trough without glide bar 6.56 ft. (2m section)	91-50	3.60 (91.5)	3.19 (81)	1.52 (2.26)
Glide bar 6.56 ft. (2m section)	91-51	3.60 (91.5)	3.19 (81)	.84 (1.25)
B15-6				
Trough without glide bar 6.56 ft. (2m section)	91-60	4.27 (108.5)	3.86 (98)	1.83 (2.72)
Glide bar 6.56 ft. (2m section)	91-61	4.27 (108.5)	3.86 (98)	.91 (1.35)
B15-7				
Trough without glide bar 6.56 ft. (2m section)	91-70	5.06 (128.5)	4.65 (118)	2.13 (3.17)
Glide bar 6.56 ft. (2m section)	91-71	5.06 (128.5)	4.65 (118)	1.14 (1.70)

Trough material in general: St 1203 galvanized

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

