

Price Index



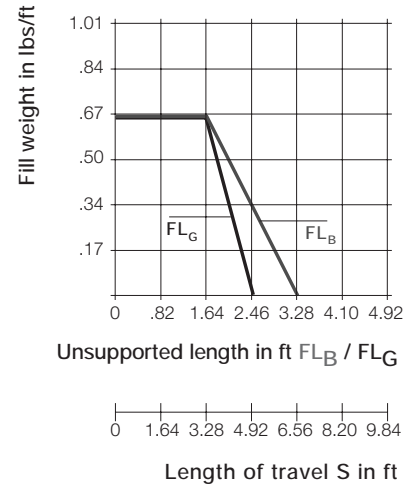
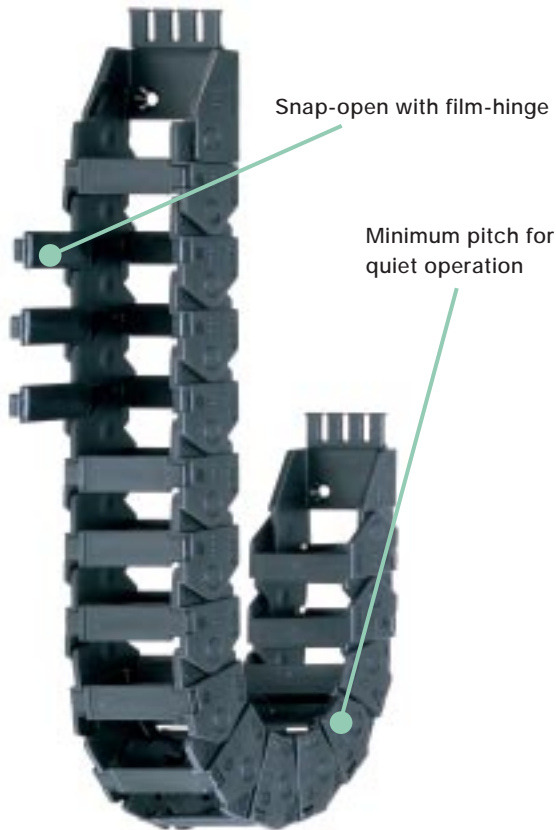
7 Widths
5 Bending Radii



Interior separation possible

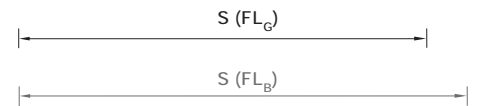
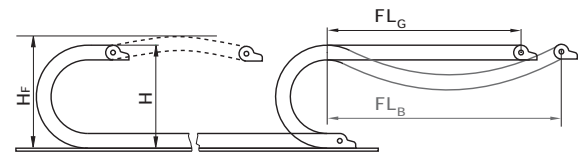


Mounting bracket with or without strain relief tiwrap plates



Unsupported length

- FL_B = unsupported with permitted sag
- FL_G = unsupported with straight upper run



Product Range:

Inner Widths (Bi) inches (mm):	.59 (15), .98 (25), 1.50 (38), 1.97 (50), 2.48 (63), 3.15 (80), 3.94 (100)
Bending Radii (R) inches (mm):	1.89 (48), 2.48 (63), 2.95 (75), 3.94 (100), 4.92 (125)
Pitch:	1.20 (30.5 mm)/link = 10.06 links/ft (33 links/m) 39.6(1006.5 mm)



When to use the Series B17:

- If snap-open accessibility is required
- If a rather small chain with broad inner width is required
- If reverse bending radius is required



When not to use the Series B17:

- If quick cable/hose accessibility is required
 - ▶ Series 17 "Zipper", Chapter 3
- If quick insertion of cables with pre-assembled connectors is required
 - ▶ Series E16 "E-Z Chain", Chapter 2

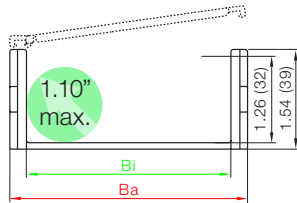
Series B17 E2 "mini"



B17

Series B17 Energy Chain®

(snap-open along outer radius)



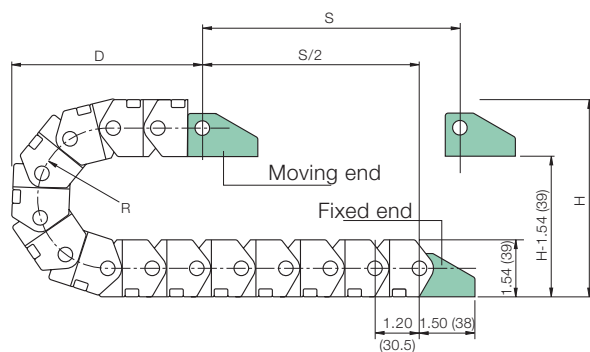
Part No.	Bi	Ba
B17-1	.59 (15)	1.02 (26)
B17-2	.98 (25)	1.42 (36)
B17-3	1.50 (38)	1.93 (49)
B17-4	1.97 (50)	2.40 (61)
B17-5	2.48 (63)	2.99 (76)
B17-6	3.15 (80)	3.66 (93)
B17-7	3.94 (100)	4.45 (113)

Bending Radii
for ALL Widths
1.89 (048)*
2.48 (063)
2.95 (075)
3.94 (100)
4.92 (125)

Supplement part no. with required radius
for example, B17-1-063-0

* Radius 048 only for B17-1 and B17-3 Others upon request

Installation Dimensions



R*	1.89 (48)	2.48 (63)	2.95 (75)	3.94 (100)	4.92 (125)
H	5.31 (135)	6.50 (165)	7.44 (189)	9.41 (239)	11.38 (289)
D	3.94 (100)	4.53 (115)	5.12 (130)	6.10 (155)	7.09 (180)
K	8.66 (220)	10.83 (275)	12.01 (305)	15.55 (395)	18.70 (475)

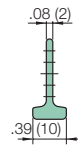
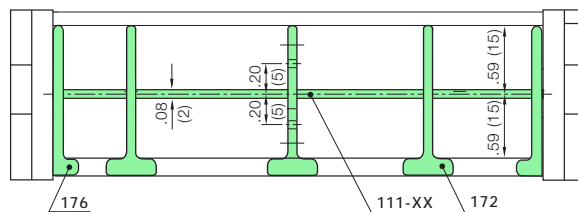
*The required clearance height is $HF = H + .98 (25)$ with 1.01 (1.5 kg/m) fill weight. Please consult igus is space is particularly restricted.

Pitch: = 1.20 (30.5 mm) per link
Links per ft (m): = 10.06 (33)
Chain length: = $\frac{L}{1.20} + K$

Interior Separation

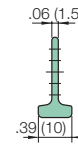
Option 1: vertical separators

Separators are used when vertical compartmentalization of the Energy Chain® is the only type of separation required. Spacers can be used on either side of each separator to maintain the distance between them. Spacers are necessary primarily with side-mounted chains.



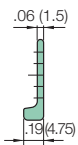
Vertical Separators, slotted
for B17-1 to B17-4

Unassembled Part No. 171
Assembled Part No. 172



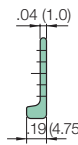
Vertical Separators, Slotted
for B17-5 to B17-7

Unassembled Part No. 173
Assembled Part No. 174



Side Plates
for B17-1 to B17-4

Unassembled Part No. 175
Assembled Part No. 176

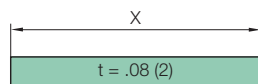


Side Plates
for B17-5 to B17-7

Unassembled Part No. 177
Assembled Part No. 178

Option 2: full-width shelf

Full-width shelves are used with applications involving numerous thin cables with similar or identical diameters. This shelf slides into place and spans the entire width of the chain.



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
2.48 (063)	110-63	111-63
3.15 (080)	110-80	111-80
3.94 (100)	110-100	111-100

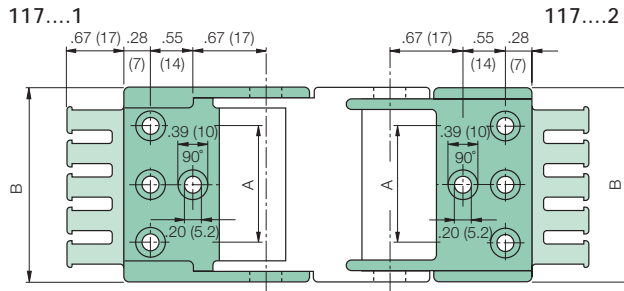
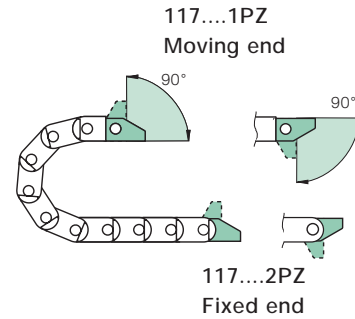
PDF: www.igus.com/echainpdf.asp
Specs/CAD/RFO: www.igus.com/echain.asp
RoHS info: www.igus.com/RoHS.asp



Mounting Brackets

Polymer, one-piece

- one-piece mounting bracket
- Corrosion resistant
- Available pre-assembled
- Inner and outer attachment possible
- Flush mounting
- With strain relief tiwrap plates



117-1-12P(Z): Center bores only
 117-2-12P(Z) — 117-7-12P(Z): Outer bores only

Chain Type	Part No. Set Full set with Tiewrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimension A in. (mm)	Dimensions B in. (mm)
B17-1	117-1-12PZ	117-1-12P	2	— —	1.00 (25,5)
B17-2	117-2-12PZ	117-2-12P	3	.47 (12)	1.40 (35,5)
B17-3	117-3-12PZ	117-3-12P	4	.98 (25)	1.91 (48,5)
B17-4	117-4-12PZ	117-4-12P	5	1.46 (37)	2.38 (60,5)
B17-5	117-5-12PZ	117-5-12P	6	1.89 (48)	2.99 (76,0)
B17-6	117-6-12PZ	117-6-12P	8	2.56 (65)	3.66 (93,0)
B17-7	117-7-12PZ	117-7-12P	10	3.35 (85)	4.45 (113,0)

117...12 = Full set, each party with pin/bore
 117... 1 = Mounting bracket with bore
 117... 2 = Mounting bracket with pin

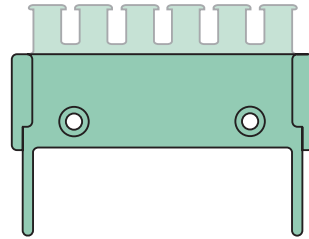
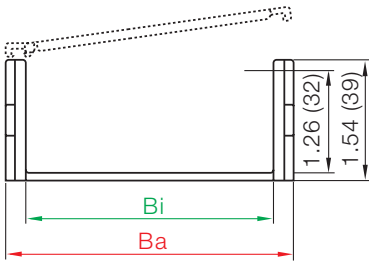
igus® Energy Chain Systems®

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 Fax 1-401-438-7270

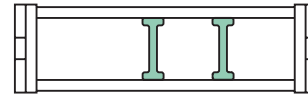
Internet: <http://www.igus.com>
 email: sales@igus.com
 QuickSpec: <http://www.igus.com/qs/echain.asp>

Order Example and Technical Data: Series B17 E2 "mini"

Order example



B17-1...



1. Chain selection:

B17-1-063-0



2. Mounting brackets:

117-1-12PZ



3. Interior separation:

2 separators unassembled (Part No. 171),
or
assembled every other link (Part No. 172).
Alternative interior separation configuration
according to design layout possible.

For 16.4 ft (5 m) chain, color black, with mounting brackets and two separators:

16.4 ft (5 m) B17-1-063-0 and 117-1-12PZ and two separators 172 assembled every other link



PDF: www.igus.com/echainpdf.asp
Specs/CAD/RFO: www.igus.com/echain.asp
RoHS info: www.igus.com/RoHS.asp



Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
B17-1	0.56	(16)	0.35	(≈ 0.52)
B17-2	0.63	(18)	0.40	(≈ 0.59)
B17-3	0.67	(19)	0.44	(≈ 0.65)
B17-4	0.74	(21)	0.47	(≈ 0.70)
B17-5	0.88	(25)	0.56	(≈ 0.83)
B17-6	0.98	(28)	0.62	(≈ 0.92)
B17-7	1.12	(32)	0.71	(≈ 1.06)

Material	igumid G
Permitted temperature	-40°/+266°F (-40°/+130°C)
Gliding speed max.	16.4 ft/s (5 m/s)
Unsupported V max.	32.8 ft/s (10 m/s)
Flammability class	VDE 0304 IIC UL94 HB

- Details of material properties
- ▶ Design, Chapter 1