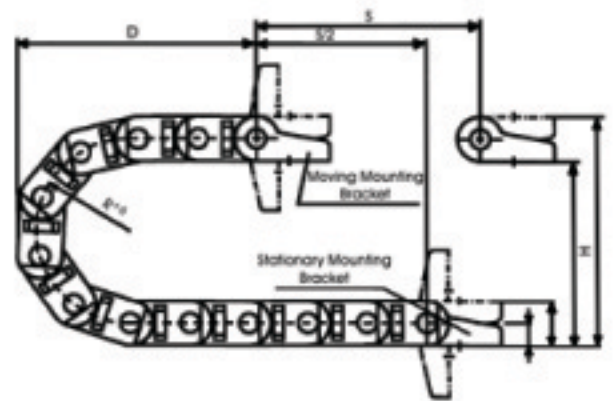




E-Chain E2 Mid-Size: 200-07-055-0 Inch Version

Inner Width	Outer Width	Radius	Curve Height H	Curve Length K	Weight
3.03 in	3.66 in	2.16 in	5.51 in	10.87 in	0.68 lbs/ft

Operating Space: $H + 1"$ @ 1 lbs/ft





Price Index



7 Widths
9 Bending Radii



3 options for interior separation



5 options for mounting brackets



Various strain relief options



Smooth interior for long cable life

Large pins for long service life

Dirt-repellent exterior

Tapered inertion point - easy assembly

Reinforced stop dog

Integrated strain relief possible

Series 240 (snap-open along inner radius) can be combined with Series 250 (snap-open along outer radius)

Snap-open, hinged to left or right, along inner or outer radius, accessible from the top, rather than from the side, of the link

Product Range:

Inner Widths (Bi) inches (mm):	.98 (25), 1.50 (38), 2.24 (57), 3.03 (77), 3.54 (90), 4.06 (103), 4.92 (125)
Bending Radii (R) inches (mm):	2.16 (55), 2.95 (75), 3.94 (100), 4.92 (125), 5.91 (150), 6.89 (175), 7.87 (200), 8.86 (225), 9.84 (250)
Pitch:	1.81 (46 mm)/link = 6.71 links/ft (22 links/m) 39.8 (1012 mm)



When to use the Series 200/240/250:

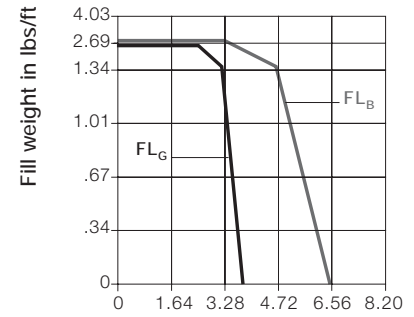
- If snap-open accessibility along inner or outer radius is required
- If integrated strain relief is required at the mounting point
- If modular interior separation is required
- If long service life is required
- If easy installation is required

- Accessories for
▶ Guide Troughs, Chapter 9
- Further information
▶ Design, Chapter 1

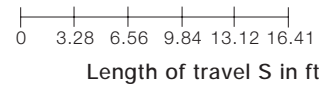


When not to use the Series 200/240/250:

- If each link requires snap-open accessibility on both sides simultaneously
▶ System E4, Series 220 etc., Chapter 6
- If maximum stability is required
▶ System E4, Series 220 etc., Chapter 6
- If chip protection is required
▶ Energy Tubes E2, Series R48, Chapter 6
- If the application is very simple
▶ E-Z Chain, Series E 200, Chapter 6

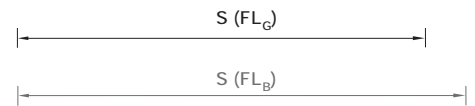
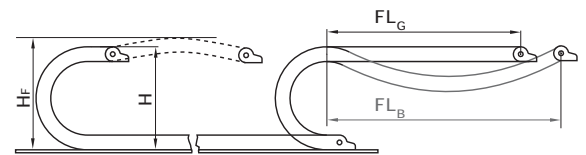


Unsupported length in ft FL_B / FL_G



Unsupported length

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



Unsupported Energy Chains® ▶ Design, Chapter 1, feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to **Installation dimensions** for further details.

If the unsupported length is exceeded, the Energy Chain®/Tube must glide on itself. This requires a guide trough ▶ Design, Chapter 1 or incorporation of igus® exclusive AUTO-GLIDE System guide elements, which are available for this chain series ▶ AUTO-GLIDE System, Chapter 9.

Other Installation Methods:

Vertical, hanging	= max 131 (40 m)
Vertical, standing	= max 9.84 (3 m)
Side-mounted, unsupported	= max 3.28 (1 m)
Rotary	= requires further calculation

- Long travel: Max: 328 ft (100 m)

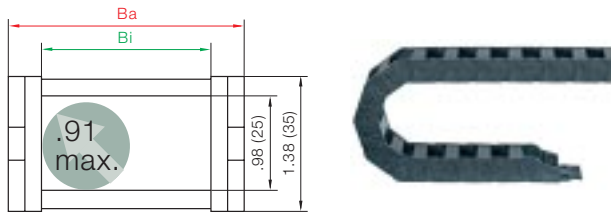
Series 200/240/250 "E2 medium"



200
240
250

Series 200 Energy Chain®

(non snap-open)

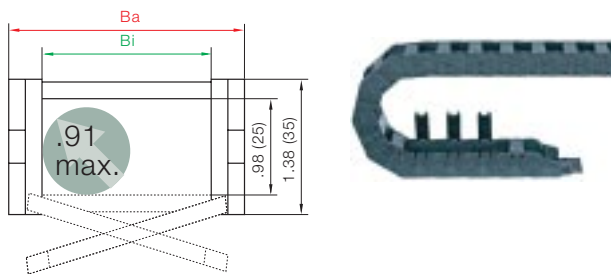


Part No.	Bi	Ba	Bending Radii for ALL Widths
200-02	.98 (25)	1.61 (41)	
200-03	1.50 (38)	2.13 (54)	
200-05	2.24 (57)	2.87 (73)	
200-07	3.03 (77)	3.66 (93)	
200-09	3.54 (90)	4.17 (106)	
200-10	4.06 (103)	4.69 (119)	
200-12	4.92 (125)	5.55 (141)	
		2.16 (055)	
		2.95 (075)	
		3.94 (100)	
		4.92 (125)	
		5.91 (150)	
		6.89 (175)	
		7.87 (200)	
		8.86 (225)	
		9.84 (250)	

Supplement part no. with required radius
for example, 200-02-100-0

Series 240 Energy Chain®

(snap-open along inner radius)

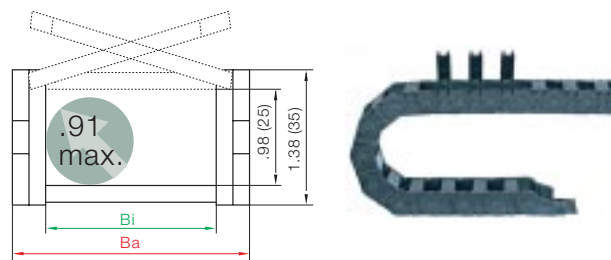


Part No.	Bi	Ba	Bending Radii for ALL Widths
240-02	.98 (25)	1.61 (41)	
240-03	1.50 (38)	2.13 (54)	
240-05	2.24 (57)	2.87 (73)	
240-07	3.03 (77)	3.66 (93)	
240-09	3.54 (90)	4.17 (106)	
240-10	4.06 (103)	4.69 (119)	
240-12	4.92 (125)	5.55 (141)	
		2.16 (055)	
		2.95 (075)	
		3.94 (100)	
		4.92 (125)	
		5.91 (150)	
		6.89 (175)	
		7.87 (200)	
		8.86 (225)	
		9.84 (250)	

Supplement part no. with required radius
for example, 240-02-100-0

Series 250 Energy Chain®

(snap-open along outer radius)

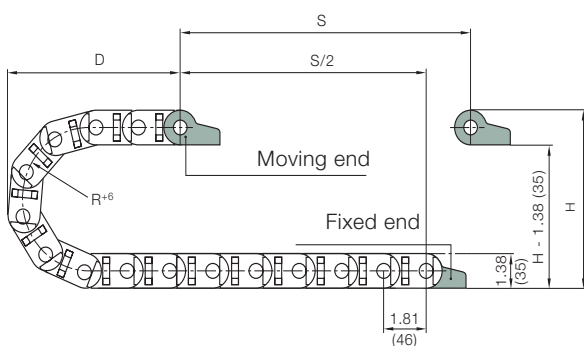


Part No.	Bi	Ba	Bending Radii for ALL Widths
250-02	.98 (25)	1.61 (41)	
250-03	1.50 (38)	2.13 (54)	
250-05	2.24 (57)	2.87 (73)	
250-07	3.03 (77)	3.66 (93)	
250-09	3.54 (90)	4.17 (106)	
250-10	4.06 (103)	4.69 (119)	
250-12	4.92 (125)	5.55 (141)	
		2.16 (055)	
		2.95 (075)	
		3.94 (100)	
		4.92 (125)	
		5.91 (150)	
		6.89 (175)	
		7.87 (200)	
		8.86 (225)	
		9.84 (250)	

Supplement part no. with required radius
for example, 250-02-100-0

! Use Series 250 for gliding applications

Installation Dimensions



R	2.17 (55)	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)
H*	5.71 (145)	7.28 (185)	9.25 (235)	11.22 (285)	13.19 (335)
D	4.92 (125)	5.91 (150)	6.69 (170)	7.68 (195)	8.66 (220)
K	10.87 (276)	13.62 (346)	16.30 (414)	19.53 (496)	22.76 (578)

R	6.89 (175)	7.87 (200)	8.86 (225)	9.84 (250)
H*	15.16 (385)	17.13 (435)	19.09 (485)	21.06 (535)
D	9.65 (245)	10.63 (270)	11.61 (295)	12.60 (320)
K	25.98 (660)	29.21 (742)	32.05 (814)	36.22 (920)

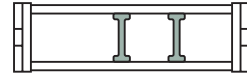
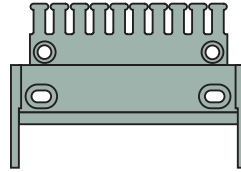
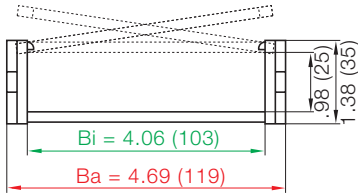
Pitch: = 1.81 (46 mm) per link
 Links per ft (m): = 6.71 (22)
 Chain length: = $\frac{S}{2} + K$

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



Order example

250-10



1. Chain selection:

250-10-100-0

- Color black
- Radius
- Width
- Chain type

2. Mounting brackets:

2100-34-PZB

- With tiewrap plates
- Full set, pivoting
- Chain width

3. Interior separation:

2 separators, unassembled,
(Part No. 201), or
assembled every other link
(Part No. 211).

Alternative interior separation configura-
tion according to design layout possible.

4. Additional information on guide troughs ► Chapter 9

For 16.4 ft (5 m) chain, color black, with pivoting mounting brackets
16.4 ft (5 m) 250-10-100-0 and 2100-34PZ

— 110 links — 6.71 links/ft (22 links/m)

Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
200/240/250-02	0.074	(0.034)	0.50	(0.74)
200/240/250-03	0.081	(0.037)	0.54	(0.81)
200/240/250-05	0.090	(0.041)	0.60	(0.90)
200/240/250-07	0.101	(0.046)	0.68	(1.01)
200/240/250-09	0.115	(0.052)	0.73	(1.08)
200/240/250-10	0.128	(0.058)	0.77	(1.15)
200/240/250-12	0.141	(0.064)	0.82	(1.22)

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 1H