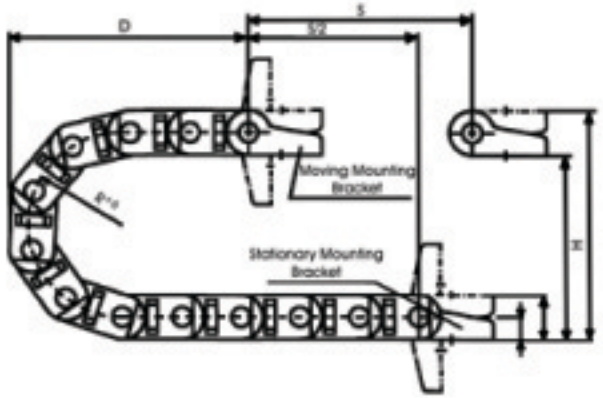
E-Chain E2 Mid-Size: 200-07-100-0 Inch Version

Inner Width	Outer Width	Radius	Curve Height H	Curve Length K	Weight
3.03 in	3.66 in	3.94 in	9.25 in	16.3 in	0.68 lbs/ft

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



Series 200/240/250 E2 “medium”

.98

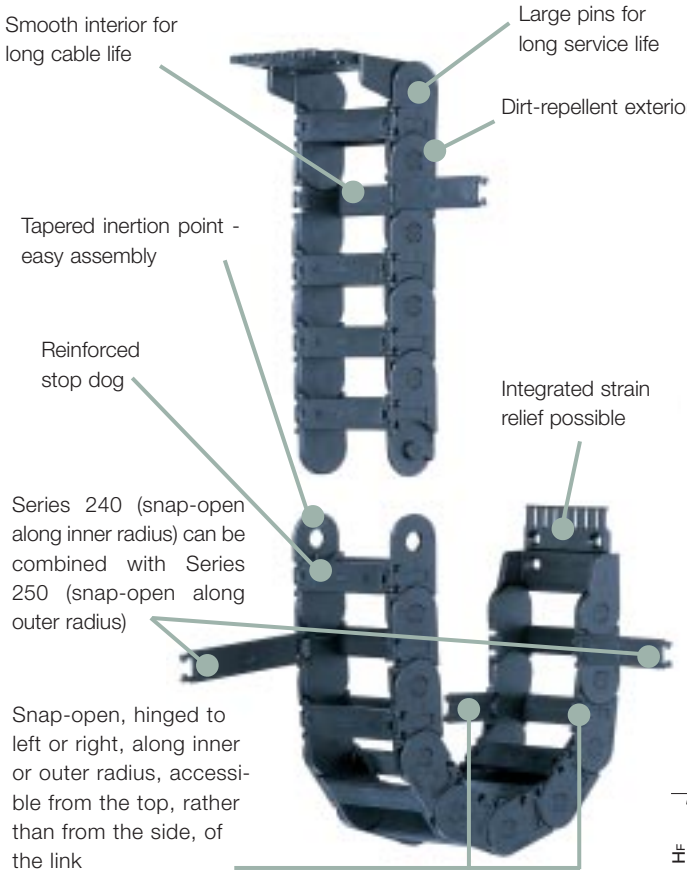
Price Index

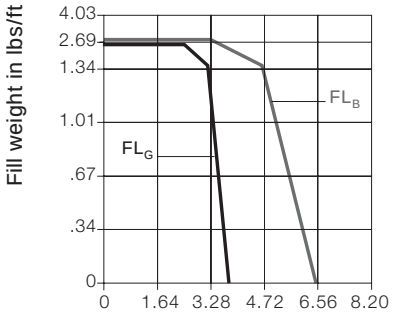
7 Widths
9 Bending Radii

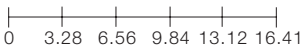
3 options for interior separation

5 options for mounting brackets

Various strain relief options

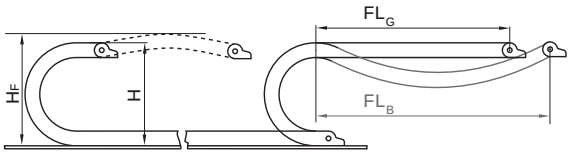


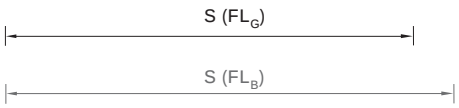




Unsupported length

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





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 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:

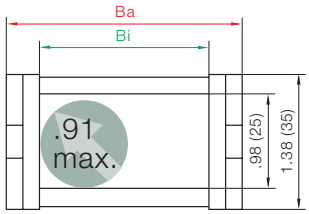
Vertical, hanging
= max 131 (40 m)
Vertical, standing
= max 9.84 (3 m)
Side-mounted, unsupported
= max 3.28 (1 m)
Rotary
= requires further calculation

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

Series 200/240/250 “E2 medium”

Series 200 Energy Chain®

(non snap-open)



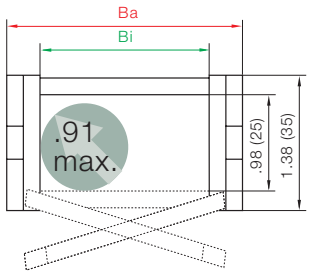
Part No.	Bi	Ba
200-02	.98 (25)	1.61 (41)
200-03	1.50 (38)	2.13 (54)
200-05	2.24 (57)	2.87 (73)
200-07	3.03 (77)	3.66 (93)
200-09	3.54 (90)	4.17 (106)
200-10	4.06 (103)	4.69 (119)
200-12	4.92 (125)	5.55 (141)

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

Bending Radii
for ALL Widths
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)

Series 240 Energy Chain®

(snap-open along inner radius)



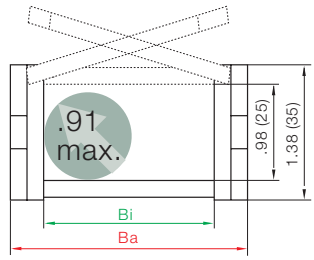
Part No.	Bi	Ba
240-02	.98 (25)	1.61 (41)
240-03	1.50 (38)	2.13 (54)
240-05	2.24 (57)	2.87 (73)
240-07	3.03 (77)	3.66 (93)
240-09	3.54 (90)	4.17 (106)
240-10	4.06 (103)	4.69 (119)
240-12	4.92 (125)	5.55 (141)

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

Bending Radii
for ALL Widths
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)

Series 250 Energy Chain®

(snap-open along outer radius)



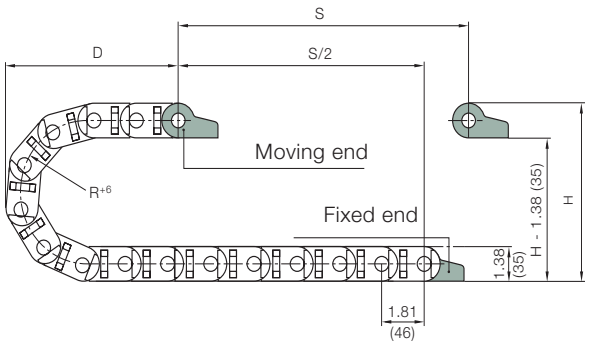
Part No.	Bi	Ba
250-02	.98 (25)	1.61 (41)
250-03	1.50 (38)	2.13 (54)
250-05	2.24 (57)	2.87 (73)
250-07	3.03 (77)	3.66 (93)
250-09	3.54 (90)	4.17 (106)
250-10	4.06 (103)	4.69 (119)
250-12	4.92 (125)	5.55 (141)

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

Bending Radii
for ALL Widths
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)

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*)$^{+4}_{0}$	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*)$^{+4}_{0}$	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)

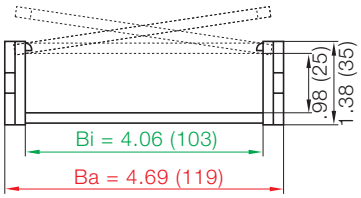
Pitch: = 1.81 (46 mm) per link
Links per ft (m): = 6.71 (22)
Chain length: = $\frac{S}{2}$ + K

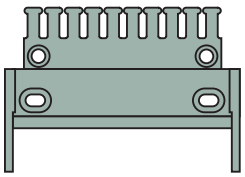
*The required clearance height is HF = H + .98 (25) with 1.01 (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

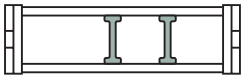
Order Example and Technical Data: Series 200/240/250 E2 “medium”

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 configuration 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 (oz.)	(g)	Weight (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