



Energy Chain Systems[®]

E-Z Chain


- Series E03
- Series E04
- Series E/Z045
- Series E/Z06
- Series E/Z08
- Series E/Z14
- Series E/Z200
- Series E/Z16
- Series E/Z26
- Series E/Z300
- Fast cable accessibility without opening and closing lids
- Torsional movements permitted
- Available with integrated interior separation
- Mounting brackets available with integrated strain relief
- Time-saving accessories such as Quickfix and Quicksnap
- Low price




Product Range
Inner widths from .20" to 5.59"
Inner heights from .20" to 1.91"




Interior Separation
Single or multi-chamber system with separation options




Mounting Brackets
Mounting brackets available with or without integrated tie-wrap plates



Order Example
"E" Series is suitable for some gliding applications; "Z" Series is not suitable



Installation
Layout out cables and/or hoses along inner or outer radius



Guide Troughs
Guide troughs are available upon request



Price Index



3 Widths
5 Bending Radii



Mounting bracket with integrated strain relief



Adapter plate for rapid installation



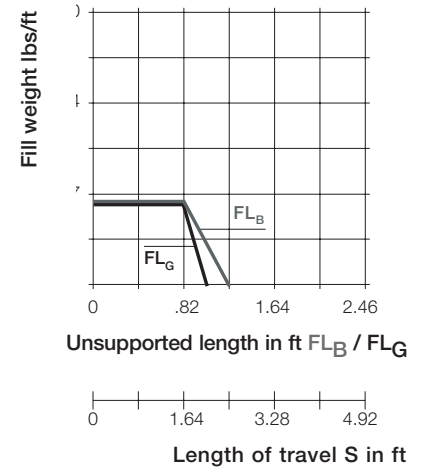
Mounting bracket with integrated strain relief



Smallest Energy Chain®
Interior dimension
.20 x .20 (5 x 5 mm)

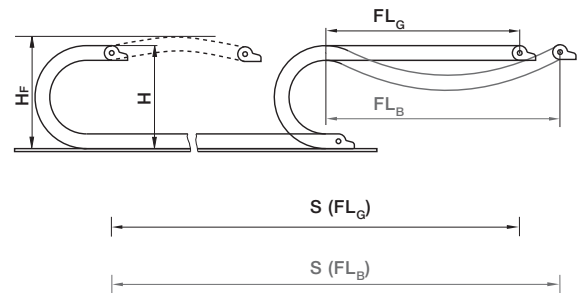
Very easy to fill — ideal for applications with made -to-spec plugs

Click Here for Specs & CAD Files



Unsupported Length

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



Product Range:

Inner Widths (Bi) inches (mm):	.20 (05), .28 (07*), .39 (10*)
Bending Radii (R) inches (mm):	.39 (010), .47 (012), .59 (015), .71 (018), 1.10 (028)
Pitch:	.39 (10 mm)/Links = 30.47 links/ft (100 Links/m) 39.4 (1000 mm)



When to use the Series E03:

- If filling is required without opening
- If price is an issue
- If quiet operation is required



When not to use the Series E03:

- If long unsupported travels are required
- ▶ Series 03 "E2 micro", Chapter 4

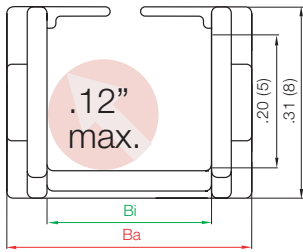
"E-Z Chain" is a line of Energy Chains® designed for easy handling. Cables and hoses can be inserted directly into these Energy Chains® through a split, memory-retaining crossbar. The split crossbar is available along the outer radius ("E") of the chain. E-Z Chains are ideal for short-cycle, low-speed applications. Because of its design, this line of Energy Chains® is also capable of handling torque in an application. All "E-Z Chain" Energy Chains® are made of a fire-retardant material

Series E03 "E-Z Chain"



E03

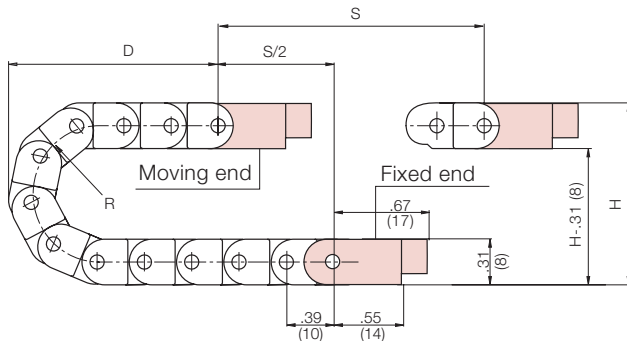
E03 (split crossbar along the outer radius)



Part No.	Bi	Ba	Bending Radii for ALL Widths	
E03-05	.20 (05)	.34 (08.7)		.39 (010)
E03-07	.28 (07)	.42 (10.7)		.47 (012)
E03-10	.39 (10)	.54 (13.7)		.59 (015)
				.71 (018)
			1.10 (028)	

Supplement part number with required radius
for example E03-05-018-0

Installation Dimensions



R	.39 (010)	.47 (012)	.59 (015)
H*	1.18 (30)	1.34 (34)	1.57 (40)
D	.98 (25)	1.06 (27)	1.18 (30)
K	2.17 (55)	2.36 (60)	2.76 (70)

R	.71 (018)	1.10 (028)
H*	1.81 (46)	2.60 (66)
D	1.30 (33)	1.69 (43)
K	3.15 (80)	4.33 (110)

*The required clearance height is $HF = H + 10$ with .067 lbs/ft (0.1 kg/m) fill weight. Please consult igus® if space is particularly restricted.

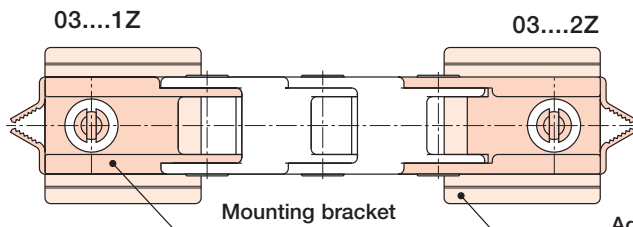
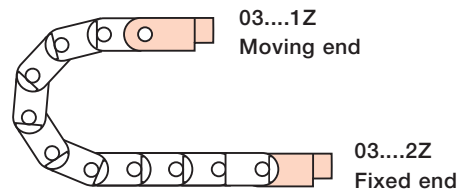
- Pitch: = .39 (10 mm) per link
- Links per ft (m): = 30.47 (100)
- Chain length: = $\frac{S}{2} + K$



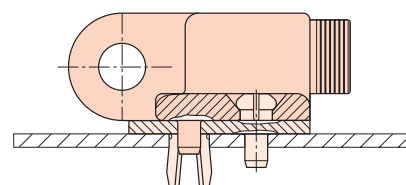
Mounting Brackets

Polymer, One Piece

- One-piece mounting bracket
- Corrosion resistant
- Available pre-assembled
- Rapid installation through adaptor plate



Adapter plate
Part No. 03-10-QF



Chain Type	Part No. Full Set	Dimension B	
		in	(mm)
E03-05	03-05-12Z	.34	(8.7)
E03-07	03-07-12Z	.42	(10.7)
E03-10	03-10-12Z	.54	(13.7)

- 03....12Z = Full set, each part with pin/bore
- 03....1Z = Mounting bracket with bore
- 03....2Z = Mounting bracket with pin



03-10-QF = Adapter plate for all sizes

The adapter has broken edges, so that it can be adapted to the respective chain width. It is not absolutely necessary for attaching the mounting brackets. The mounting brackets can also be screwed on without the adapter plate.

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



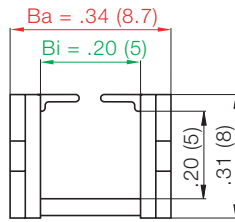
Order Example and Technical Data: Series E03 "E-Z Chain"

igus® Energy Chain
System®

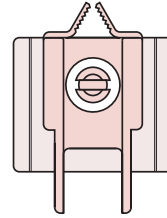
Telephone 1-800-521-2747
Fax 1-401-438-7270

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

Order example

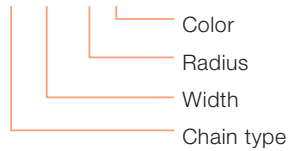


E03-05..



1. Chain selection:

03-05-028-0



2. Mounting brackets:

03-05-12Z



For 2.62 ft (0.8 m) chain, color black, with mounting brackets:

2.62 ft. (0.8 m) E03-05-028-0 and 03-05-12Z



[Click Here for
Specs &
CAD Files](#)

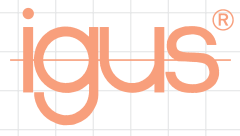
Technical Data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E03-05	0.014	(≈ 0.4)	0.022	(≈ 0.032)
E03-07	0.018	(≈ 0.5)	0.027	(≈ 0.040)
E03-10	0.021	(≈ 0.6)	0.032	(≈ 0.048)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



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Price Index



1 Width
5 Bending Radii



Mounting bracket
Series 04



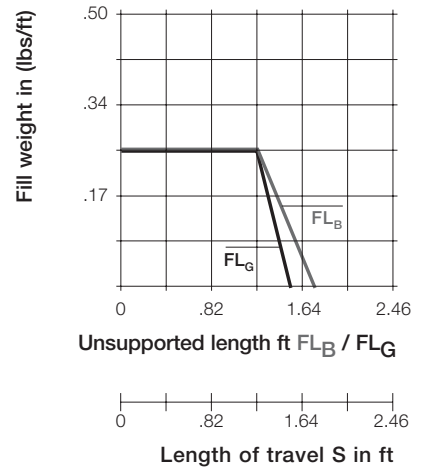
Quicksnap: the complete unit, detachable by hand
Call for availability



Quickfix: mounting bracket with pin
Call for availability

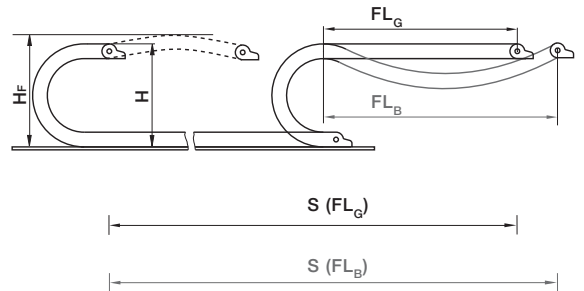


Very easy to install - ideal for applications with pre-assembled connectors



Unsupported length

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



Product Range:

Inner Widths (Bi) inches (mm):	.28 (07)
Bending Radii (R) inches (mm):	.59 (015), .71 (018), 1.10 (028), 1.50 (038), 1.89 (048)
Pitch:	.66 (16.7 mm)/link = 18.29 links/ft (60 links/m) 39.45 (1002 mm)



When to use the Series E04:

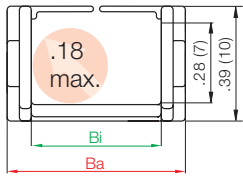
- If fast and easy cable and hose installation is required
- If price is an issue
- If torsional rigidity and torque resistance are required
- If very quiet operation is required



When not to use the Series E04:

- If long unsupported travels are required
 - ▶ Series 06 "E2 micro", Chapter 4

**Click Here for
Specs &
CAD Files**



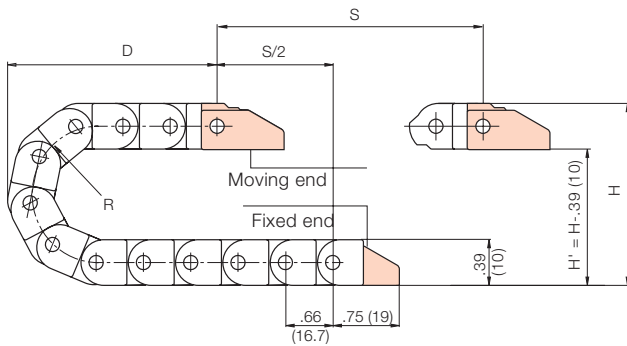
Part No.	Bi	Ba
E04-07	.28 (7)	.51 (13)

Bending Radii for ALL Widths

.59 (015)
.71 (018)
1.10 (028)
1.50 (038)
1.89 (048)

Supplement part number with required radius
for example E04-07-028-0

Installation dimensions



R	.59 (015)	.71 (018)	1.10 (028)
H	1.65 (42)	1.89 (48)	2.68 (68)
D	1.46 (37)	1.57 (40)	1.97 (50)
K	3.15 (80)	3.54 (90)	4.92 (125)

R	1.50 (038)	1.89 (048)
H	3.46 (88)	4.25 (108)
D	2.36 (60)	2.76 (70)
K	6.10 (155)	7.28 (185)

*The required clearance height is $H_F = H + .39 (10)$ with .067 lbs/ft (0.1 kg/m) fill weight.

Please consult igus® if space is particularly restricted.

- Pitch: = .66 (16.7 mm) per link
- Links per ft (m): = 18.29 (60)
- Chain length = $\frac{S}{2} + K$

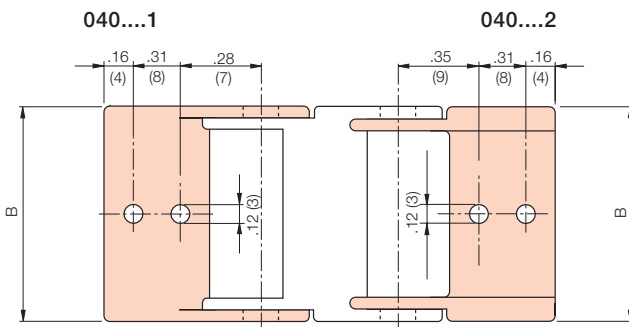
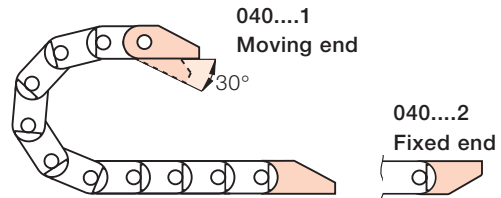


PDF: www.igus.com/echainpdf.asp
 Specs/CAD/RFQ: www.igus.com/echain.asp
 RoHS info: www.igus.com/RoHS.asp

Mounting Brackets

Standard mounting bracket

- One-piece mounting bracket
- Corrosion resistant
- Available pre-assembled



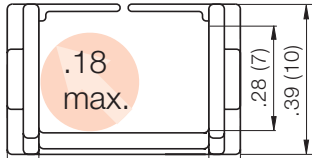
Chain Type	Part No.	Dimension B
	Full Set	in. (mm)
E04-07	040-07-12	.47 (12)

- 040...12 = Full set, each part with pin/bore
- 040... 1 = Mounting bracket with bore
- 040... 2 = Mounting bracket with pin

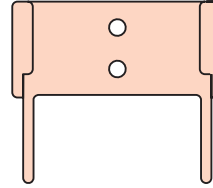


Order Example and Technical Data: Series E04 "E-Z Chain"

Order example

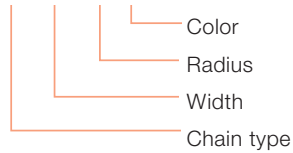


E04-07



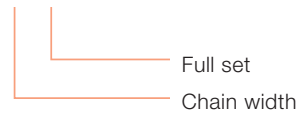
1. Chain selection:

E04-07-038-0



2. Mounting brackets:

040-07-12



For 2.62 ft (0.8 m) chain, color black, with mounting brackets:

2.62 ft (0.8 m) E04-07-038-0 and 040-07-12



**Click Here for
Specs &
CAD Files**

Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E04-07	0.049	(≈ 1.40)	0.033	(≈ 0.05)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



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

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igus® Energy Chain
System®

Price Index



1 Width
3 Bending Radii



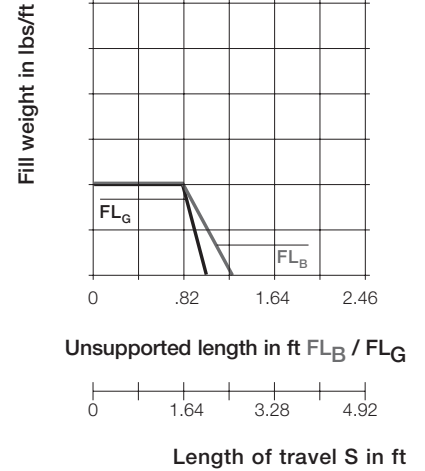
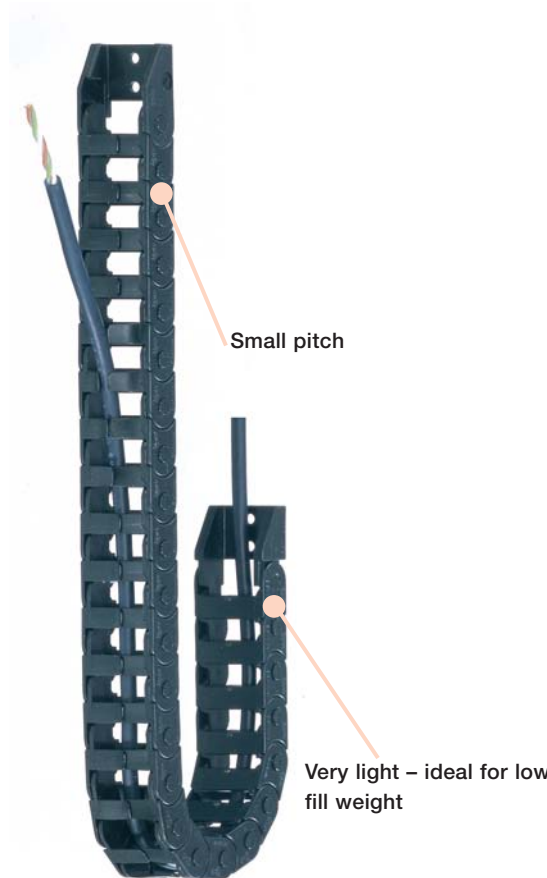
Standard mounting bracket



Quickfix: mounting bracket with pin
Call for availability

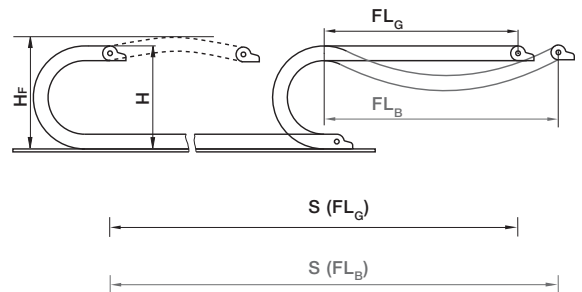


Quicksnap: the complete unit, detachable by hand
Call for availability



Unsupported length

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



Product Range:

Inner Widths (Bi) inches (mm):	.63 (16)
Bending Radii (R) inches (mm):	.71 (018), 1.10 (028), 1.50 (038)
Pitch:	.51 in (13 mm)/link =
	23.47 links/ft (77 links/m)



When to use the Series E045/Z045:

- If fast and easy installation of cables and hoses is required
- If a very small pitch is required



When not to use the Series E045/Z045:

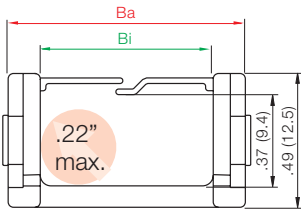
- If very quiet operation is required
 - ▶ Series 045 "micro", Chapter 4
- If high stability is required
 - ▶ Series 06 "micro", Chapter 4



Series E045/Z045 "E-Z Chain"

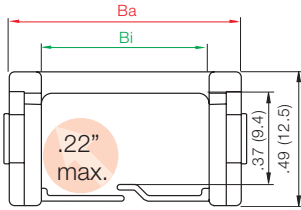


E045
Z045



Part No.	Bi	Ba	Bending Radii for ALL Widths	
E045-16	.63 (16)	.91 (23)		.71 (018)
				1.10 (028)
				1.50 (038)

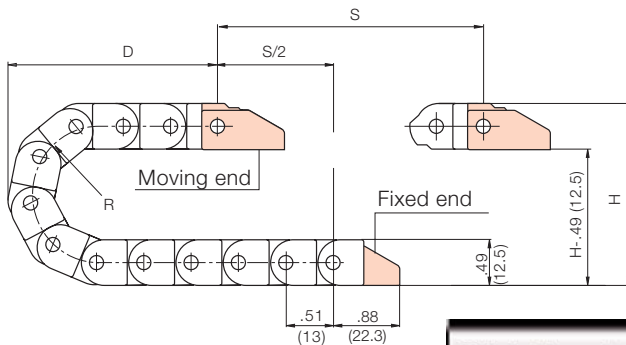
Supplement part number with required radius
for example, E045-16-028-0



Part No.	Bi	Ba	Bending Radii for ALL Widths	
Z045-16	.63 (16)	.91 (23)		.71 (018)
				1.10 (028)
				1.50 (038)

Supplement part number with required radius
for example, Z045-16-028-0

Installation Dimensions



R	.71 (018)	1.10 (028)	1.50 (038)
H*	1.97 (50)	2.76 (70)	3.54 (90)
D	1.57 (40)	1.97 (50)	2.36 (60)
K	3.74 (95)	4.72 (120)	5.71 (145)

*The required clearance height is $HF = H + .39 (10)$ with
.07 lbs/ft (0.1 kg/m) fill weight.
Please consult igus® if space is particularly restricted.

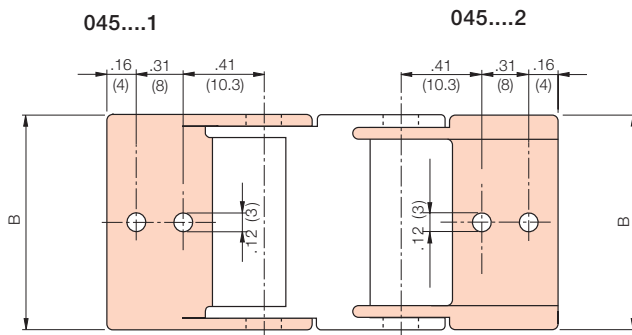
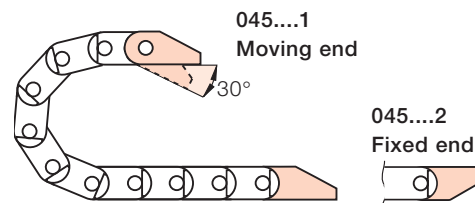
Pitch: = .51 (13 mm) per link
Links per ft (m): = 23.47 (77)
Chain length: = $\frac{S}{2} + K$

[Click Here for Specs & CAD Files](#)

Mounting Brackets

Standard mounting bracket

- One-piece locked, mounting bracket
- Corrosion resistant
- Available pre-assembled



Chain Type	Part No. Full Set	Dimension B in. (mm)
E/Z045-16	0450-16-12	.87 (22)

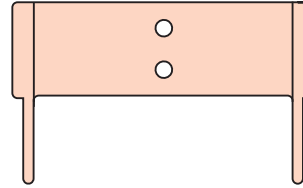
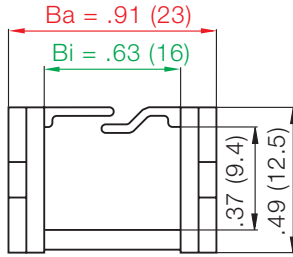
045...12 = Full set, each part with pin/bore
045... 1 = Mounting bracket with bore
045... 2 = Mounting bracket with pin

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



Order example

E045-16-



1. Chain selection:

E045-16-038-0



2. Mounting brackets:

0450-16-12



For 2.62 ft (0.8 m) chain, color black, with mounting brackets:

2.62 ft (0.8 m) E045-16-038-0 and 0450-20-12



Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E045-16	0.049	(≈1.40)	0.073	(≈0.11)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



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



Price Index



2 Widths and
3 Bending Radii



Mounting brackets with
and without tie-wrap
plates



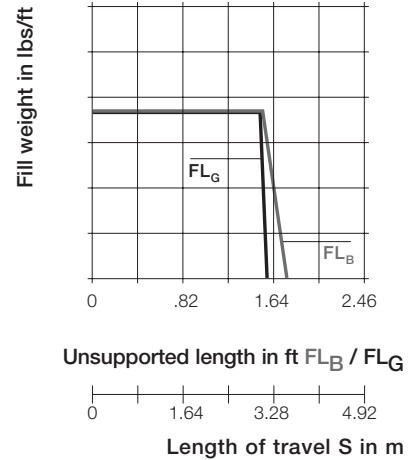
Quickfix: mounting
bracket with dowel
Call for availability



Quicksnap: the
complete unit, detach-
able by hand
Call for availability

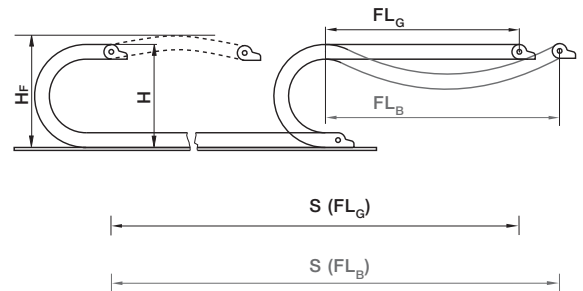


Very easy to install cables and
hoses – ideal for applications
with pre-assembled connectors



Unsupported length

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



Product Range:

Inner Widths (Bi) inches (mm):	.39 (10), .63 (16)
Bending Radii (R) inches (mm):	.71 (018), 1.10 (028), 1.50 (038)
Pitch:	.79 in (20 mm)/link = 15.24 links/ft (50 links/m)



When to use the Series
E06/Z06:

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance are required
- If very quiet operation is required

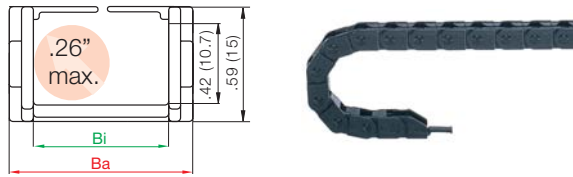


When not to use the Series
E06/Z06:

- If a long unsupported length is required
 - ▶ Series 08, Chapter 4
- "Z" Series is unsuitable for gliding applications
 - ▶ Series 07, Chapter 3

[Click Here for
Specs &
CAD Files](#)

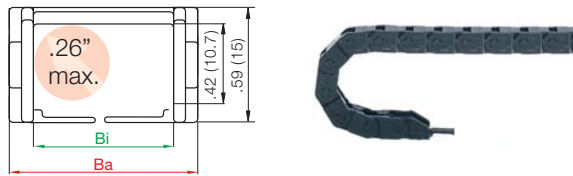
E06 (split crossbar along the outer radius)



Part No.	Bi	Ba	Bending Radii for ALL Widths	
E06-10	.39 (10)	.65 (16.5)		.71 (018)
E06-16	.63 (16)	.86 (22.5)		1.10 (028)
				1.50 (038)

Supplement part number with required radius
for example, E06-16-028-0

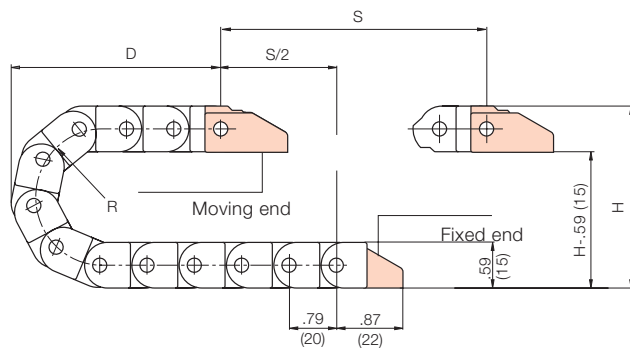
Z06 (split crossbar along the inner radius)



Part No.	Bi	Ba	Bending Radii for ALL Widths	
Z06-10	.39 (10)	.65 (16.5)		.71 (018)
Z06-16	.63 (16)	.86 (22.5)		1.10 (028)
				1.50 (038)

Supplement part number with required radius
for example, Z06-16-028-0

Installation Dimensions



R	.71 (018)	1.10 (028)	1.50 (038)
H*	2.04 (52)	2.76 (70)	3.54 (90)
D	1.57 (40)	1.97 (50)	2.36 (60)
K	3.74 (95)	4.72 (120)	5.71 (145)

*The required clearance height is HF = H + .39 (10) with .13 lbs/ft (0.2 kg/m) fill weight.
Please consult igus® if space is particularly restricted.

Pitch: = .79 (20 mm) per link
Links per ft (m): = 15.24 (50)
Chain length: = $\frac{S}{2} + K$

Mounting Brackets

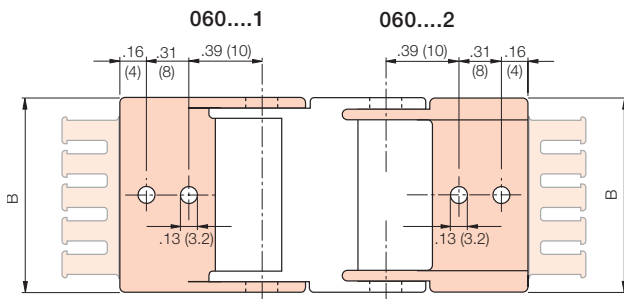
Option 1:

● Without tiewrap plate



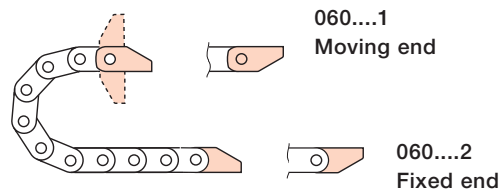
Option 2:

● With tiewrap plate



Standard mounting bracket

- One-piece, locking mounting bracket
- Corrosion-resistant
- Available pre-assembled
- Inner and outer attachment possible
- Available with integrated strain relief tiewrap plates



Chain Type	Part No. Set Full set with Strain Relief Tiewrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimensions B in. (mm)
E06/Z06-10	060-10-12 PZ	060-10-12	1	.65 (16.5)
E06/Z06-16	060-16-12 PZ	060-16-12	2	.88 (22.5)

**Click Here for
Specs &
CAD Files**

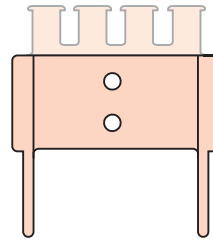
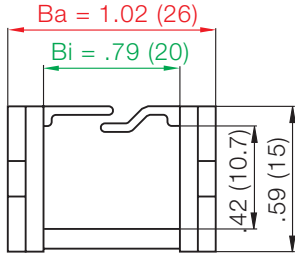
060...12 = Full set, each part with pin/bore
060... 1 = Mounting bracket with bore
060... 2 = Mounting bracket with pin

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

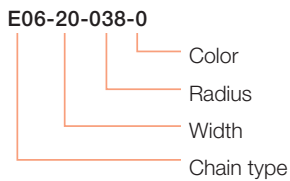


Order Example

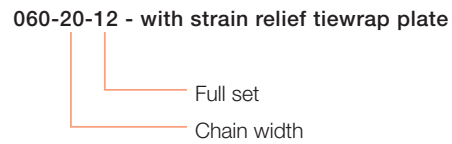
E06-20-



1. Chain selection:



2. Mounting brackets:



For 2.62 ft (0.8 m) chain, color black, with mounting brackets:
2.62 ft (0.8 m) E06-20-038-0 and 060-20-12PZ

40 links — 15.24 links/ft (50 links/m)



Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E06/Z06-06-10	0.049	(≈2.8)	0.094	(≈0.14)
E06/Z06-06-16	0.112	(≈3.2)	0.108	(≈0.16)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



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Price Index



6 Widths and
3 Bending Radii



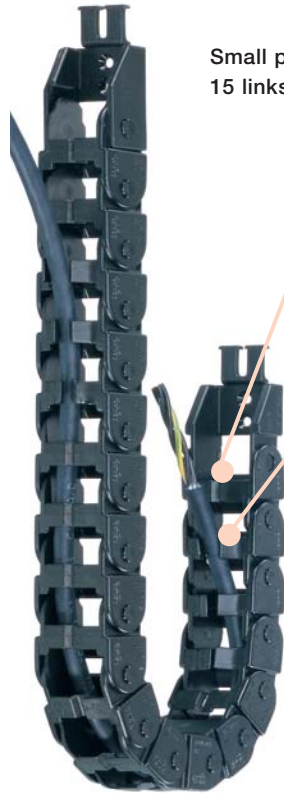
Mounting brackets with
and without tie-wrap
plates



Quickfix: mounting
bracket with dowel
Call for availability

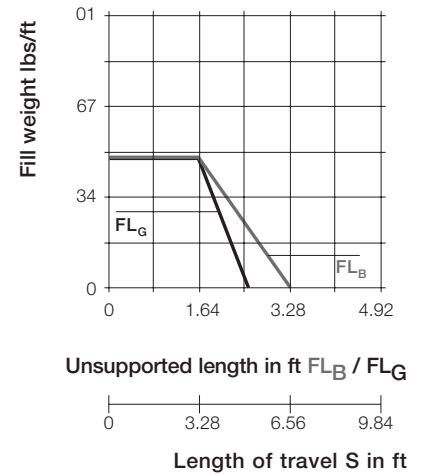


Quicksnap: the
complete unit, detach-
able by hand
Call for availability



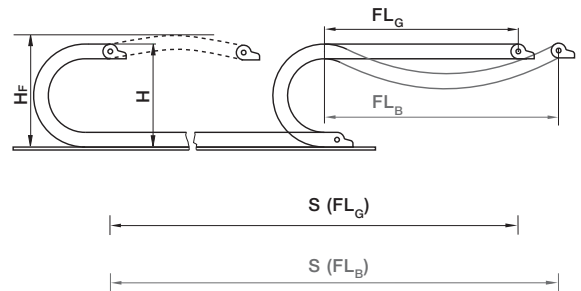
Small pitch for very smooth operation
15 links/ft (50 links/m)

High torsional rigidity



Unsupported length

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



Product range:

Inner Widths (Bi) inches (mm):	.39 (10), .63 (16), .79 (20), 1.18 (30), 1.57 (40), 1.97 (50)
Bending Radii (R) inches (mm):	1.10 (028), 1.50 (038), 1.89 (048)
Pitch:	.79 (20 mm)/link = 15.24 links/ft (50 links/m)



When to use the Series E08/Z08:

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance are required
- If very quiet operation is required



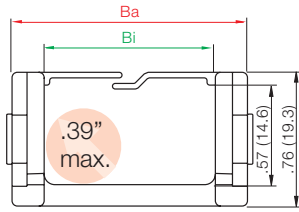
When not to use the Series E08/Z08:

- If a long unsupported length is required
▶ Series 09, **Chapter 3**
- "Z" Series unsuitable for gliding applications
▶ Series 09, **Chapter 3**

**Click Here for
Specs &
CAD Files**

Series E08/Z08 "E-Z Chain"

E08 (split crossbar along outer radius)



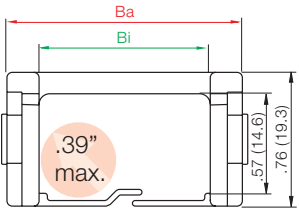
*For the -10 and -16 sizes the cross-bars DO NOT overlap. There is a small gap between the crossbars.

Part No.	Bi	Ba
*E08-10-	.39 (10)	.72 (18.2)
*E08-16-	.63 (16)	.95 (24.2)
E08-20-	.79 (20)	1.11 (28.2)
E08-30-	1.18 (30)	1.50 (38.2)
E08-40-	1.57 (40)	1.90 (48.2)
E08-50-	1.97 (50)	2.29 (58.2)

Bending Radii for ALL Widths
1.10 (028)
1.50 (038)
1.89 (048)

Supplement part number with required radius
for example, E08-20-038-0

Z08 (split crossbar along inner radius)



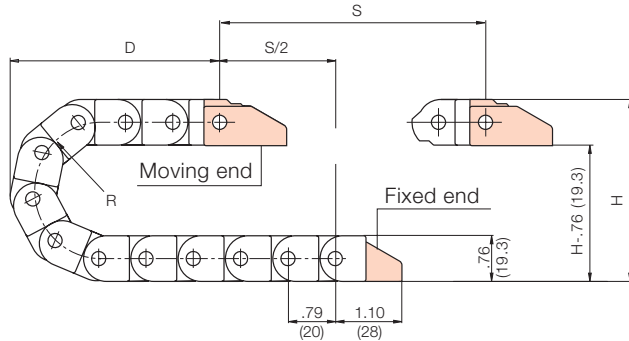
*For the -10 and -16 sizes the cross-bars DO NOT overlap. There is a small gap between the crossbars.

Part No.	Bi	Ba
*Z08-10-	.39 (10)	.72 (18.2)
*Z08-16-	.63 (16)	.95 (24.2)
Z08-20-	.79 (20)	1.11 (28.2)
Z08-30-	1.18 (30)	1.50 (38.2)
Z08-40-	1.57 (40)	1.90 (48.2)
Z08-50-	1.97 (50)	2.29 (58.2)

Bending Radii for ALL Widths
1.10 (028)
1.50 (038)
1.89 (048)

Supplement part number with required radius
for example, Z08-20-038-0

Installation Dimensions



R	1.10 (028)	1.50 (038)	1.89 (048)
H*	2.99 (76)	3.78 (96)	4.57 (116)
D	2.36 (60)	2.75 (70)	3.15 (80)
K	5.12 (130)	6.30 (160)	7.48 (190)

*The required clearance height is $H_F = H + .59 (15)$ with .20 lbs/ft (0.3 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Pitch: = .79 (20 mm) per link
Links per ft (m): = 15.24 (50)
Chain length: = $\frac{S}{2} + K$

Mounting Brackets

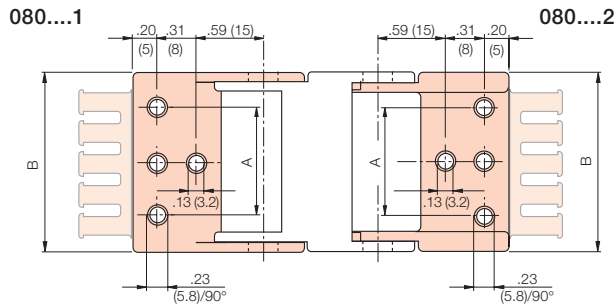
Option 1:

- Without tiwrap plate



Option 2:

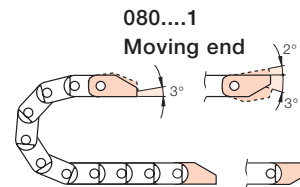
- With tiwrap plate



Standard mounting bracket

- One-piece, locking bracket
- Corrosion-resistant
- Available pre-assembled
- Inner and outer attachment possible
- Bolting faces suitable for inside/outside
- Available with integrated tiwrap plates

080-10-12 – 080-20-12:
Center bores only
080-30-12 – 080-50-12:
Outer bores only

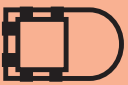


Chain Type	Part No. Set Full set with Tiwrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimension A in. (mm)	Dimensions B in. (mm)
E08/Z08-10	080-10-12 PZ	080-10-12	1	–	.72 (18,2)
E08/Z08-16	080-16-12 PZ	080-16-12	2	–	.95 (24,2)
E08/Z08-20	080-20-12 PZ	080-20-12	2	–	1.11 (28,2)
E08/Z08-30	080-30-12 PZ	080-30-12	3	.87 (22)	1.50 (38,2)
E08/Z08-40	080-40-12 PZ	080-40-12	4	1.26 (32)	1.90 (48,2)
E08/Z08-50	080-50-12 PZ	080-50-12	5	1.65 (42)	2.29 (58,2)

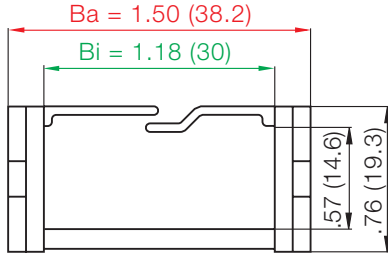
080...12 = Full set, each part with pin/bore
080... 1 = Mounting bracket with bore
080... 2 = Mounting bracket with pin

Click Here for Specs & CAD Files

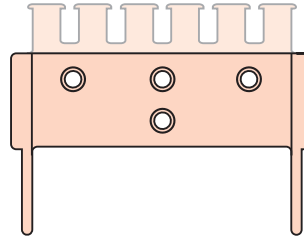
PDF: www.igus.com/echainpdf.asp
Specs/CAD/RFQ: www.igus.com/echain.asp
RoHS info: www.igus.com/RoHS.asp



Order example

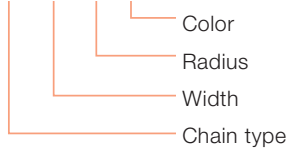


E08-30-



1. Chain selection:

E08-30-038-0



2. Mounting brackets:

080-30-12 PZ - With integrated strain relief tiwrap plate



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

16.4 ft (5m) E08-30-038-0 and 0850-30-12 PZ

[Click Here for Specs & CAD Files](#)

Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E08/Z08-10	0.09	(≈ 2.7)	0.141	(≈ 0.21)
E08/Z08-16	0.11	(≈ 3.1)	0.161	(≈ 0.24)
E08/Z08-20	0.11	(≈ 3.2)	0.168	(≈ 0.25)
E08/Z08-30	0.13	(≈ 3.6)	0.188	(≈ 0.28)
E08/Z08-40	0.14	(≈ 4.0)	0.208	(≈ 0.31)
E08/Z08-50	0.17	(≈ 4.8)	0.249	(≈ 0.37)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



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Price Index



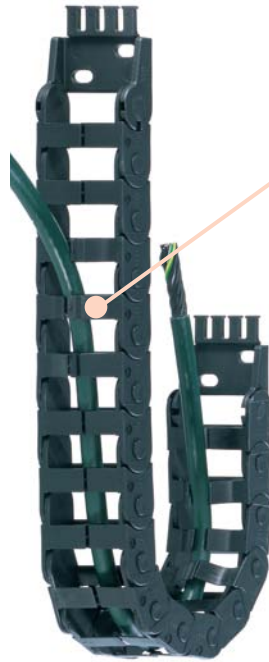
4 Widths and
6 Bending Radii



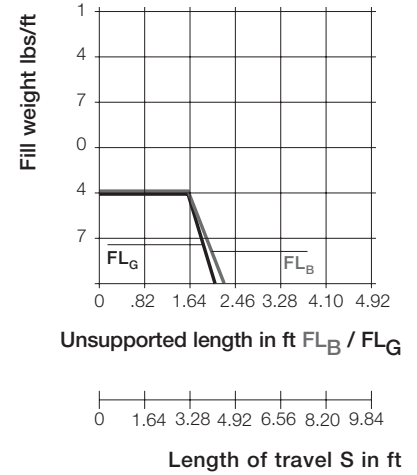
Mounting brackets with
and without tiwrap
plates



Quickfix: mounting
bracket with dowel
Call for availability

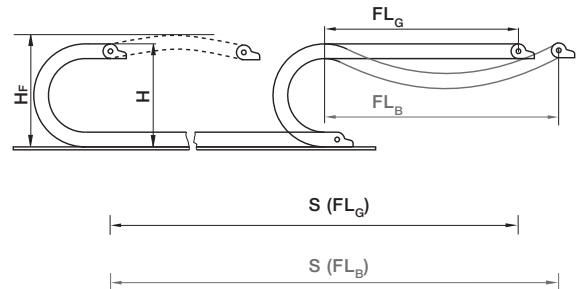


Very easy to install cables
and hoses - ideal for
applications with
pre-assembled connectors



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)
Bending Radii (R) inches (mm):	1.10 (028), 1.50 (038), 1.89 (048), 2.95 (075), 3.94 (100), 4.92 (125)
Pitch:	1.20 (30.5 mm)/link= 10.06 links/ft (33 link/m) 39.6 in. (1006.5 mm)



When to use the Series E14/Z14:

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance are required
- If very quiet operation is required



When not to use the Series E14/Z14:

- If a long unsupported length is required
▶ Series B15, Chapter 4
- "Z" Series is unsuitable for gliding applications
▶ Series B15, Chapter 4

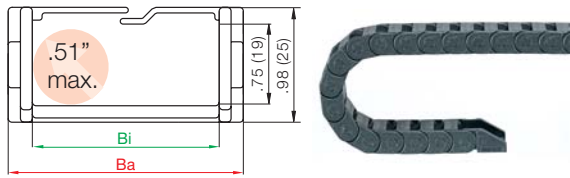
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Specs &
CAD Files**

Series E14/Z14 "E-Z Chain"



E14
Z14

E14 (split crossbar along outer radius)

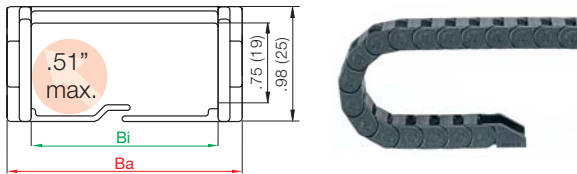


Part No.	Bi	Ba
E14-1	.59 (15)	1.06 (27)
E14-2	.98 (25)	1.46 (37)
E14-3	1.50 (38)	1.97 (50)
E14-4	1.97 (50)	2.44 (62)

Bending Radii
for ALL Widths
1.10 (028)
1.50 (038)
1.89 (048)
2.95 (075)
3.94 (100)
4.92 (125)

Supplement part number with required radius
for example, E14-2-028-0

Z14 (split crossbar along inner radius)

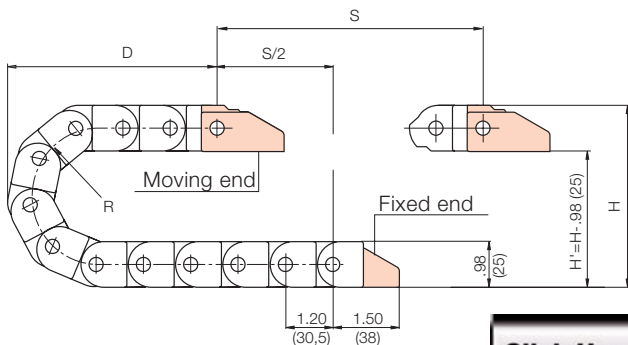


Part No.	Bi	Ba
Z14-1	.59 (15)	1.06 (27)
Z14-2	.98 (25)	1.46 (37)
Z14-3	1.50 (38)	1.97 (50)
Z14-4	1.97 (50)	2.44 (62)

Bending Radii
for ALL Widths
1.10 (028)
1.50 (038)
1.89 (048)
2.95 (075)
3.94 (100)
4.92 (125)

Supplement part number with required radius
for example, Z14-2-028-0

Installation Dimensions



R	1.10 (028)	1.50 (038)	1.89 (048)
H	3.23 (82)	4.02 (102)	4.80 (122)
D	2.79 (71)	3.19 (81)	3.58 (91)
K	5.91 (150)	7.28 (185)	8.46 (215)

R	2.95 (075)	3.94 (100)	4.92 (125)
H	6.97 (177)	8.94 (227)	10.90 (277)
D	4.72 (120)	5.71 (145)	6.69 (170)
K	11.81 (300)	14.76 (375)	17.91 (455)

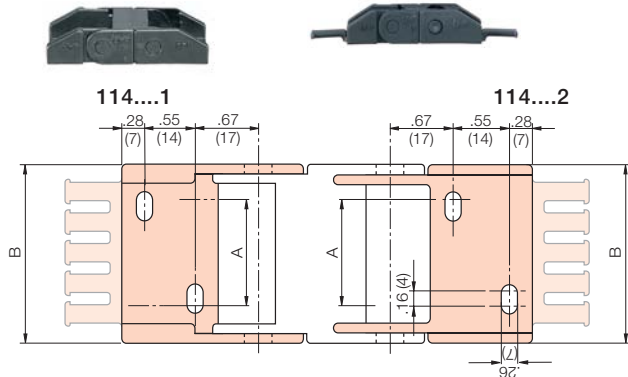
Pitch: = 1.20 (30.5 mm) per link
Links per ft (m): = 10.06 (33)
Chain length: = $\frac{S}{2} + K$

[Click Here for Specs & CAD Files](#)

*The required clearance height is $HF = H + .39$ (10) with .13 lbs/ft (0.2 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Mounting Brackets

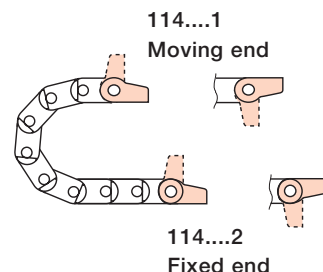
Option 1: ● Without tiewrap plate
Option 2: ● With tiewrap plate



Standard mounting bracket

- One-piece, locking bracket
- Corrosion-resistant
- Available pre-assembled
- Inner and outer attachment possible
- Available with integrated strain relief tiewrap plate

Chain Type	Part No. Set Full Set with Tiewrap Plate	Part No. Mounting Bracket Set	Dimension A in. (mm)	Dimensions B in. (mm)
E14/Z14-1	114-1-12PZ	114-1-12P	— —	1.02 (26)
E14/Z14-2	114-2-12PZ	114-2-12P	.39 (10)	1.42 (36)
E14/Z14-3	114-3-12PZ	114-3-12P	.91 (23)	1.93 (49)
E14/Z14-4	114-4-12PZ	114-4-12P	1.38 (35)	2.40 (61)

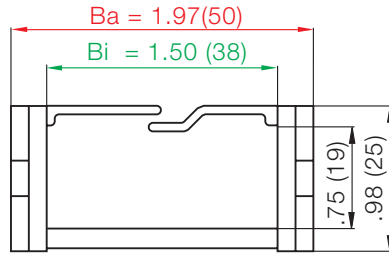


114...12 = Full set, each part with pin/bore
114... 1 = Mounting bracket with bore
114... 2 = Mounting bracket with pin

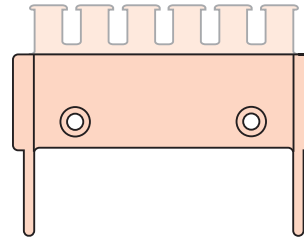
PDF: www.igus.com/echainpdf.asp
Specs/CAD/RFQ: www.igus.com/echain.asp
RoHS info: www.igus.com/RoHS.asp



Order example

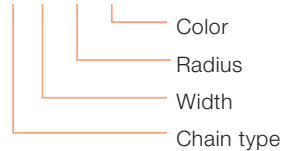


E14-3



1. Chain selection:

E14-3-038-0



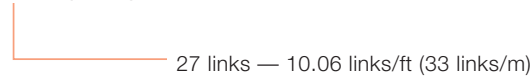
2. Mounting brackets:

114-3-12 PZ - With strain relief tie-wrap plate



For 2.62 ft (0.8 m) chain, color black, with mounting brackets:

2.62 ft (0.8 m) E14-3-038-0 and 114-3-12PZ


[Click Here for
Specs &
CAD Files](#)

Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E14-1/Z14-1	0.032	(≈ 0.93)	0.208	(≈ 0.31)
E14.2/Z14-2	0.033	(≈ 0.96)	0.215	(≈ 0.32)
E14-3/Z14-3	0.042	(≈ 1.20)	0.269	(≈ 0.40)
E14-4/Z14-4	0.047	(≈ 1.33)	0.296	(≈ 0.44)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



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Price Index



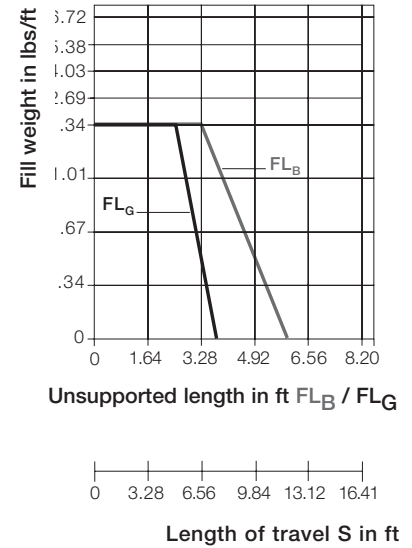
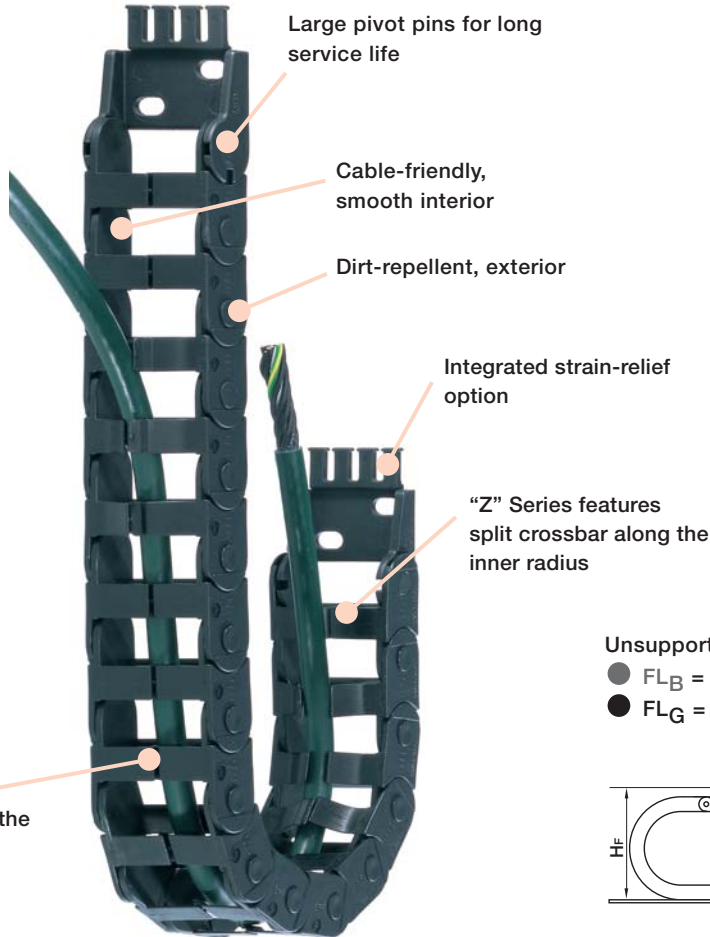
3 Widths and
5 Bending Radii



2 types of mounting
brackets

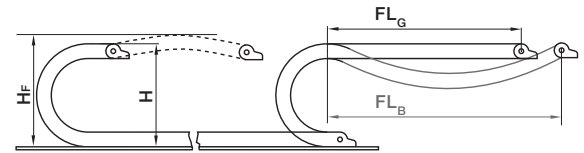


"E" Series features
split crossbar along the
outer radius



Unsupported length

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



Product range:

Inner Widths (Bi) inches (mm):	1x2.24 (1x57), 2x1.46 (2x37), 2x1.97 (2x50)
Bending Radii (R) inches (mm):	2.17 (55), 2.95 (75), 3.94 (100), 5.91 (150), 7.87 (200),
Pitch:	1.81 (46 mm)/link= 6.71 links/ft (22 link/m) 40 in. (1012 mm)



When to use the Series E200/Z200:

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance are required
- If very quiet operation is required

- Further information
- ▶ Design, Chapter 1



When not to use the Series E200/Z200:

- If a long unsupported length is required
▶ Series 200/240/250, Chapter 4
- If single-extrusion crossbars are required
▶ Series 200/240/250, Chapter 4
- "Z" Series is unsuitable for gliding applications
▶ Series B15, Chapter

Unsupported Energy Chain®

▶ **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 more details.

If the unsupported length is exceeded, the Energy Chain® must glide on itself. This requires a guide trough. ▶ **Design, Chapter 1**.

The "E" Series is conditionally suitable for gliding applications. The "Z" Series is not suitable.

Other Installation Methods:

Vertical, hanging	= max. 32.8 ft (10 m)
Vertical standing	= max. 4.92 ft (1.5 m)
Side-mounted, unsupported	= max. 1.64 ft (0.5 m)
Rotary	= requires further calculation

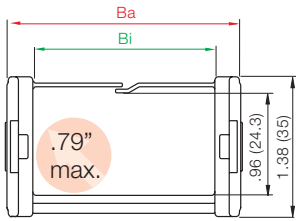


Series E200/Z200 "E-Z Chain"



E200
Z200

E200 (split crossbar along outer radius)



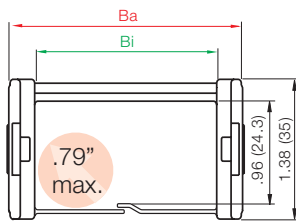
Part No.	Bi	Ba
E200-05	2.24 (57)	2.93 (74.4)

Bending Radii
for ALL Widths
2.17 (055)
2.95 (075)
3.94 (100)
5.91 (150)
7.87 (200)

Supplement part number with required radius
for example, E200-05-100-0



Z200 (split crossbar along inner radius)

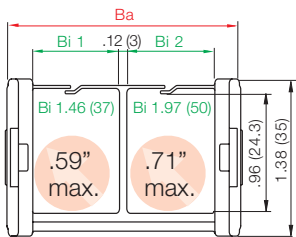


Part No.	Bi	Ba
Z200-05	2.24 (57)	2.93 (74.4)

Bending Radii
for ALL Widths
2.17 (055)
2.95 (075)
3.94 (100)
5.91 (150)
7.87 (200)

Supplement part number with required radius
for example, Z200-05-100-0

E200 (with 2 chamber system)



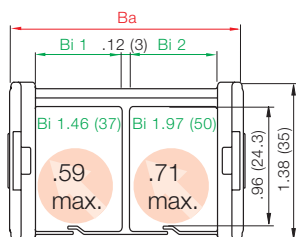
Part No.	Bi1	Bi2	Ba
E200-2/35	1.46 (37)	1.46 (37)	3.74 (94.4)
E200-2/50	1.97 (50)	1.97 (50)	4.74 (120.4)

Bending Radii
for ALL Widths
2.17 (055)
2.95 (075)
3.94 (100)
5.91 (150)
7.87 (200)

Inner widths of chambers
Number of chambers

Supplement part number with required radius
for example, E200-2/35-100-0

Z200 (with 2 chamber system)



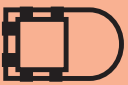
Part No.	Bi1	Bi2	Ba
E200-2/35	1.46 (37)	1.46 (37)	3.74 (94.4)
E200-2/50	1.97 (50)	1.97 (50)	4.74 (120.4)

Bending Radii
for ALL Widths
2.17 (055)
2.95 (075)
3.94 (100)
5.91 (150)
7.87 (200)

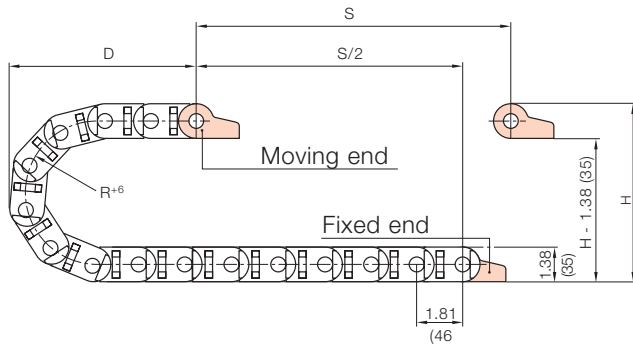
Inner widths of chambers
Number of chambers

Supplement part number with required radius
for example, Z200-2/35-100-0

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



Installation Dimensions



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

R	2.16 (55)	2.95 (75)	3.94 (100)
H ₀ ⁺⁴	5.71 (145)	7.28 (185)	9.25 (235)
D	4.92 (125)	5.91 (150)	6.69 (170)
K	10.87 (276)	13.62 (346)	16.30 (414)

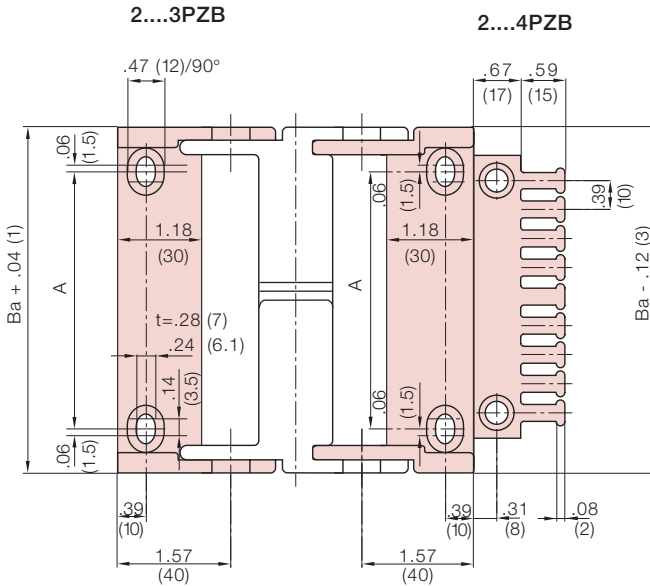
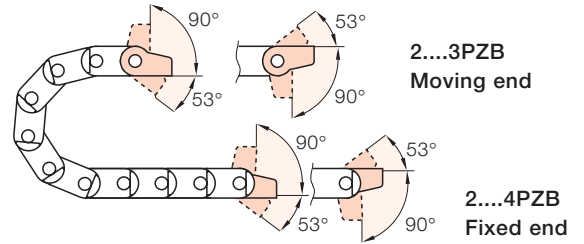
R	5.91 (150)	7.87 (200)	
H ₀ ⁺⁴	13.19 (335)	17.12 (435)	
D	8.66 (220)	10.63 (270)	
K	22.76 (578)	29.21 (742)	

*The required clearance height HF = H + 1.57 (40 mm) with 1.68 lbs/ft (2.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Mounting Brackets

Option 1: polymer pivoting

- Standard
- Pivoting
- Short and long travels
- Space-restricted conditions
- Corrosion-resistant



* Photograph shows chain link of Series 250 with identical mounting brackets

[Click Here for Specs & CAD Files](#)

Chain Type	Part No. Full Set with Tiewrap Plate	Part No. with Tiewrap Plate and 10 Cable Tiewraps	Part No. Mounting Brackets	Dimension A in. (mm)
E200-05	2050-34PZB	2050-34PZBK1	2050-34PZ	1.73 (44)
E200-2/35	2070-34PZB	2070-34PZBK1	2070-34PZ	2.52 (64)
E200-2/50	2100-34PZB	2100-34PZBK1	2100-34PZ	3.54 (90)

- 2...34 PZB = Full set, each part with pin, including tiewrap plate / bore, including tiewrap plate
- 2...3 PZB = Mounting bracket with bore, including tiewrap plate
- 2...4 PZB = Mounting bracket with pin, including tiewrap plate

Series E200/Z200 "E-Z Chain"

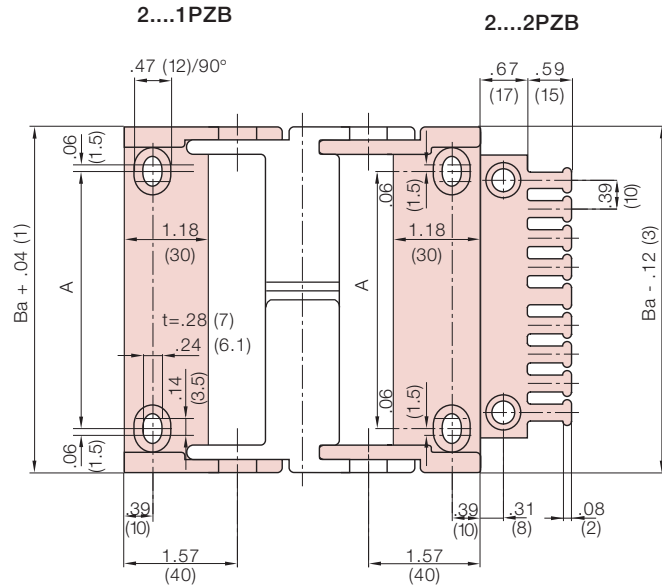
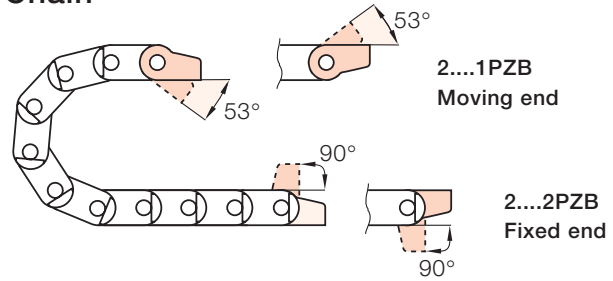


E200
Z200

Mounting Brackets: Series E200/Z200 "E-Z Chain"

Option 2: polymer locking

- Locked connections
- Vertical hanging / standing travel
- High accelerations
- Corrosion-resistant



* Photograph shows chain link of Series 250 with identical mounting brackets

Click Here for Specs & CAD Files

Chain Type	Part Number Full set with Tiewrap Plate Strain Relief	Part Number with Tiewrap Plate and 10 Cable Tiewraps	Part No. Mounting Brackets	Dimension A in. (mm)
Z200-05	2050-12PZB	2050-12PZBK1	2050-12PZ	1.73 (44)
Z200-2/35	2070-12PZB	2070-12PZBK1	2070-12PZ	2.52 (64)
Z200-2/50	2100-12PZB	2100-12PZBK1	2100-12PZ	3.54 (90)

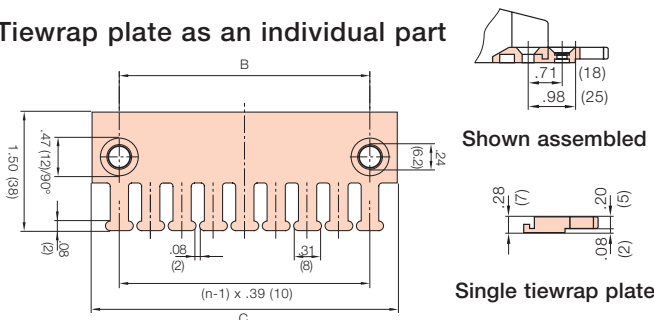
- 2...12 PZB = Full set, each part with pin, including tiewrap plate / bore, including tiewrap plate
- 2...1 PZB = Mounting bracket with bore, including tiewrap plate
- 2...2 PZB = Mounting bracket with pin, including tiewrap plate

Strain Relief for Polymer Mounting Brackets (pivoting or locking)

The strain relief tiewrap plates can be directly snapped onto the mounting bracket. After bolting the mounting brackets to the machine, the strain relief tiewrap plates are also firmly connected to the base. They do not need to be bolted on separately. Cable tiewraps secured around the tiewrap plate "teeth" and the cable provide proper strain relief and save time.



Tiewrap plate as an individual part



Tiewrap Plate	n Number of Teeth	C Total Width in. (mm)	B Hole Spacing in. (mm)
2020-ZB	3	1.18 (30)	.59 (15)
2030-ZB	4	1.57 (40)	.79 (20)
2040-ZB	5	1.97 (50)	1.18 (30)
2050-ZB	6	2.36 (60)	1.57 (40)
2070-ZB	8	3.15 (80)	2.36 (60)
2090-ZB	9	3.54 (90)	2.75 (70)
2100-ZB	10	3.94 (100)	3.15 (80)
2120-ZB	12	4.72 (120)	3.94 (100)

Cable tiewraps as individual parts

Cable tiewraps	Width x Length in. (mm)	Maximum Ø in. (mm)	Tensile Strength lbs (N)
100 pieces/bag			
CFB-001	.19 x 5.91 (4.8 x 150)	1.42 (36)	50 (222)

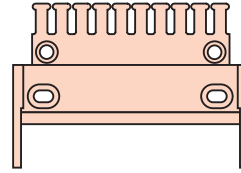
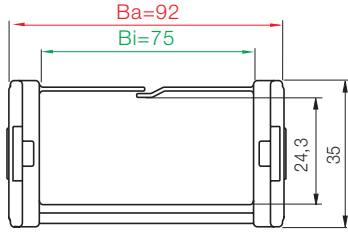
- Other strain relief elements
- ▶ Strain Relief, Chapter 10

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



Order example

E200-05-



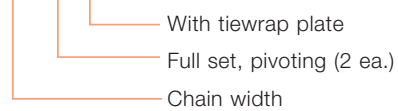
1. Chain selection:

E200-05-100-0



2. Mounting brackets

2050-34-PZ



For 6.56 ft (2m) chain, color black,
with pivoting mounting brackets:

6.56 ft (2m) E200-00-100-0 and 2050-34PZ



Technical data

Please consult igus for weight information

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



igus® Energy Chain
System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

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

Price Index



6 Widths and
3 Bending Radii



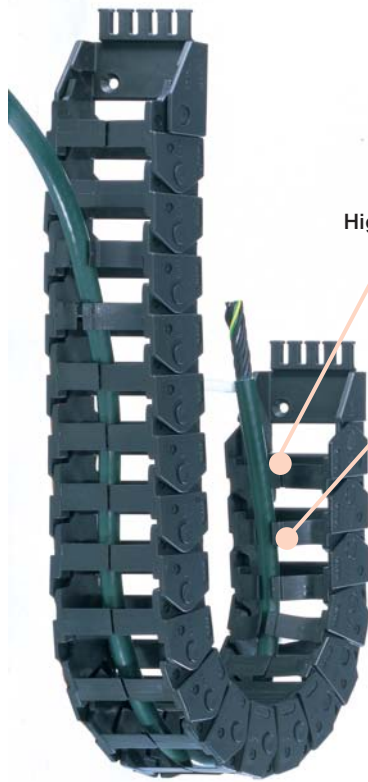
Mounting brackets with
and without integrated
strain relief



Quickfix: mounting
bracket with dowel
Call for availability

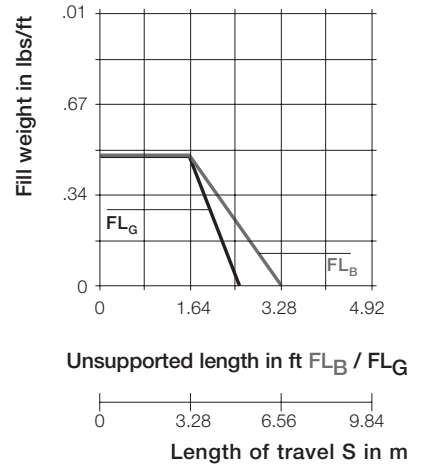


Quicksnap: the
complete unit, detach-
able by hand
Call for availability



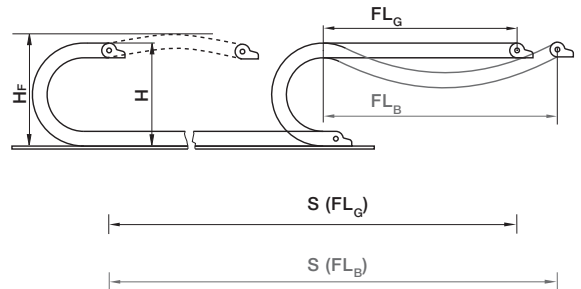
High torsional rigidity

Small pitch for very
smooth operation



Unsupported length

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



Product range:

Inner Widths (Bi) inches (mm):	.91 (23), 1.42 (36), 1.89 (48), 2.48 (63), 3.15 (80), 3.94 (100)
Bending Radii (R) inches (mm):	2.36 (60), 2.95 (75), 3.94 (100)
Pitch:	1.20 (30.5 mm)/link = 10.06 links/ft (33 links/m) 39.63 (1006.5mm)



When to use the Series E16/Z16:

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance are required
- If very quiet operation is required



When not to use the Series E16/Z16:

- If a long unsupported length is required
▶ Series 26/27/27i,
Chapter 4
- If single-extrusion crossbars are required
▶ Series 26/27/27i,
Chapter 4

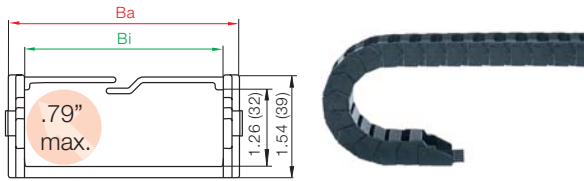
**Click Here for
Specs &
CAD Files**

Series E16/Z16 "E-Z Chain"



E16
Z16

E16 (split crossbar along outer radius)

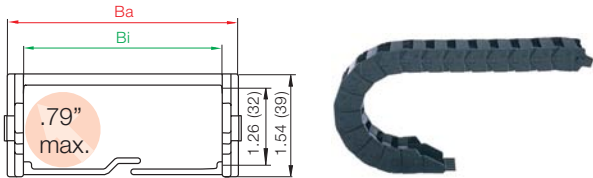


Part No.	Bi	Ba
E16-2-	.91 (23)	1.48 (37.5)
E16-3-	1.42 (36)	1.99 (50.5)
E16-4-	1.89 (48)	2.46 (62.5)
E16-5-	2.48 (63)	3.08 (78.3)
E16-6-	3.15 (80)	3.75 (95.3)
E16-7-	3.94 (100)	4.54 (115.3)

Bending Radii
for ALL Widths
2.36 (60)
2.95 (075)
3.94 (100)

Supplement part number with required radius
for example, E16-2-060-0

Z16 (split crossbar along inner radius)

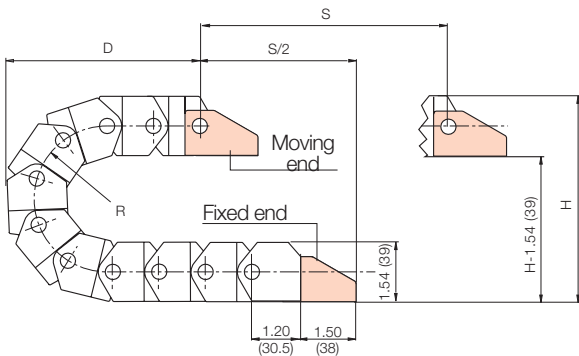


Part No.	Bi	Ba
Z16-2-	.91 (23)	1.48 (37.5)
Z16-3-	1.42 (36)	1.99 (50.5)
Z16-4-	1.89 (48)	2.46 (62.5)
Z16-5-	2.48 (63)	3.08 (78.3)
Z16-6-	3.15 (80)	3.75 (95.3)
Z16-7-	3.94 (100)	4.54 (115.3)

Bending Radii
for ALL Widths
2.36 (60)
2.95 (075)
3.94 (100)

Supplement part number with required radius
for example, Z16-2-060-0

Installation Dimensions



R	1.57 (040)**	2.36 (060)	2.95 (075)	3.94 (100)
H*	4.69 (119)	6.26 (159)	7.44 (189)	9.41 (239)
D	3.35 (85)	4.33 (110)	5.12 (130)	6.10 (155)
K	8.27 (210)	10.63 (270)	12.00 (305)	15.55 (395)

*The required clearance height is $HF = H + .59$ (15) with .20 lbs/ft (0.3 kg/m) fill weight. Please consult igus® if space is particularly restricted. **only for part number Z16-3

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

Mounting Brackets

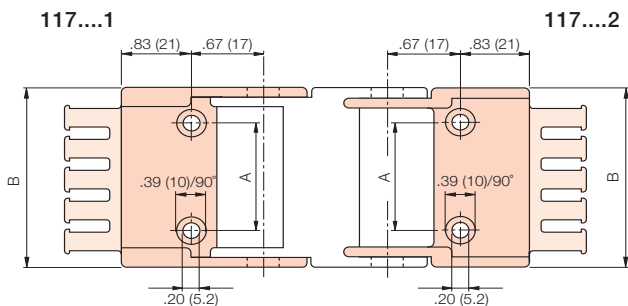
Option 1:

- Without integrated strain relief



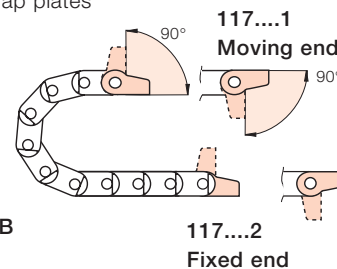
Option 2:

- With integrated strain relief



Standard mounting brackets

- One-piece, locking mounting bracket
- Corrosion-resistant
- Available pre-assembled
- Inner and outer attachment possible
- Available with integrated strain relief tiewrap plates



Chain Type	Part No. Full set with Tiewrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimension A in. (mm)	Dimensions B in. (mm)
E16/Z16-2	117-2-12 PZ	117-2-12 P	3	.47 (12)	1.40 (35.5)
E16/Z16-3	117-3-12 PZ	117-3-12 P	4	.98 (25)	1.91 (48.5)
E16/Z16-4	117-4-12 PZ	117-4-12 P	5	1.46 (37)	2.38 (60.5)
E16/Z16-5	117-5-12 PZ	117-5-12 P	6	1.89 (48)	2.99 (76)
E16/Z16-6	117-6-12 PZ	117-6-12 P	8	2.56 (65)	3.66 (93)
E16/Z16-7	117-7-12 PZ	117-7-12 P	10	3.35 (85)	4.45 (113)

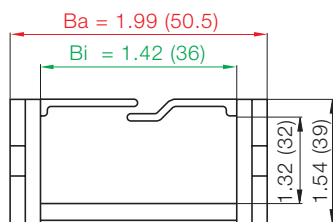
117...12 = Full set, each part with pin/bore
117... 1 = Mounting bracket with bore
117... 2 = Mounting bracket with pin

Click Here for
Specs &
CAD Files

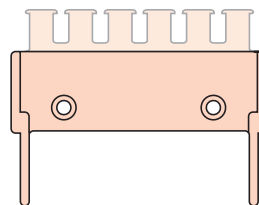
PDF: www.igus.com/echainpdf.asp
Specs/CAD/RFQ: www.igus.com/echain.asp
RoHS info: www.igus.com/RoHS.asp



Order example



E16-3



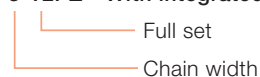
1. Chain selection:

E16-3-038-0



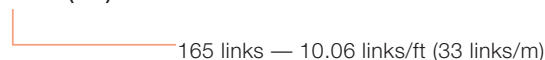
2. Mounting brackets:

117-3-12PZ - With integrated strain relief tiewrap plate



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

16.4 ft (5m) E16-3-038-0 and 117-3-12PZ


[Click Here for
Specs &
CAD Files](#)

Technical data

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E16/Z16-2	0.54	(≈ 15.5)	0.343	(≈ 0.51)
E16/Z16-3	0.61	(≈ 17.3)	0.383	(≈ 0.57)
E16/Z16-4	0.66	(≈ 18.8)	0.417	(≈ 0.62)
E16/Z16-5	0.79	(≈ 22.7)	0.504	(≈ 0.75)
E16/Z16-6	0.88	(≈ 25.1)	0.558	(≈ 0.83)
E16/Z16-7	0.97	(≈ 27.6)	0.612	(≈ 0.91)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



igus® Energy Chain
System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

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



Price Index



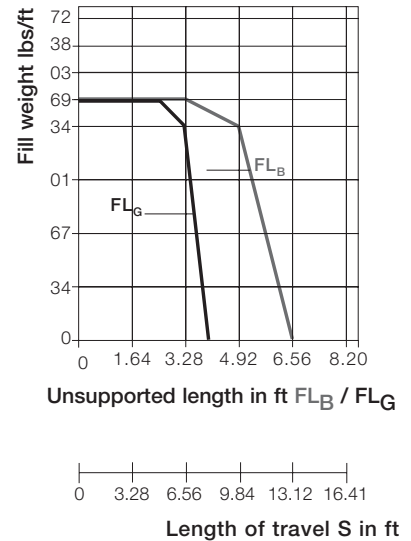
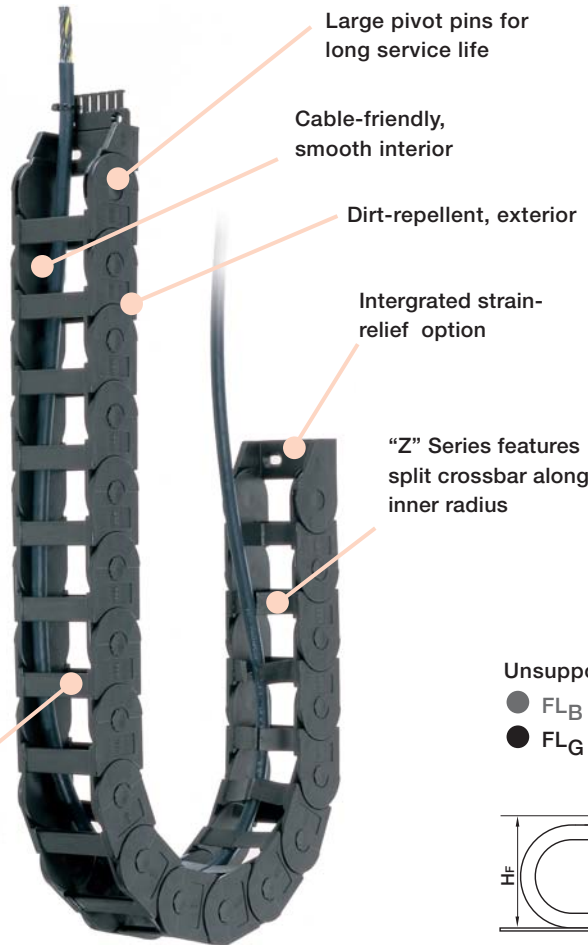
3 Widths
8 Bending Radii



3 options for mounting brackets

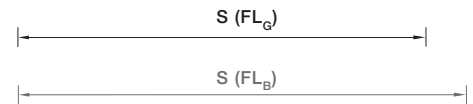
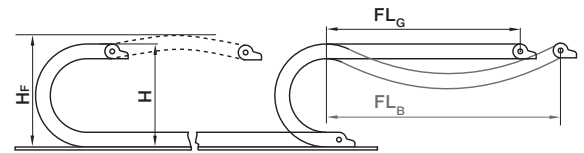


"E" Series features split crossbar along the outer radius



Unsupported length

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



Product range:

Inner Widths (Bi) inches (mm):	1x2.95 (1x75), 2x1.89 (2x48), 3x1.85 (3x47)
Bending Radii (R) inches (mm):	2.48 (63), 2.95 (75), 3.94 (100), 4.92 (125), 5.91 (150), 6.89 (175), 7.87 (200), 9.84 (250)
Pitch:	2.20 (56 mm)/link = 5.49 links/ft (18 links/m) 39.7 in. (1008mm)



When to use the Series E26/Z26:

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance is required
- If very quiet operation is required

- Further information
- ▶ Design, Chapter 1



When not to use the Series E26/Z26:

- If a long unsupported length is required
 - ▶ Series 26/27/27i, Chapter 4
- If single-extrusion crossbars are required
 - ▶ Series 26/27/27i, Chapter 4
- "Z" Series is unsuitable for gliding applications
 - ▶ Series B15, Chapter 1

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 the **Installation dimensions** section for further details.

If the unsupported length is exceeded, the Energy Chain® must glide on itself. This requires a guide trough. ▶ **Design, Chapter 1**. The "E" Series is conditionally suitable for gliding applications. The "Z" Series is not suitable

Other Installation Methods:

Vertical, hanging	= max. 32.8 ft (10m)
Vertical, standing	= max. 4.92 ft (1.5m)
Side-mounted, unsupported	= max. 1.64 ft (0.5m)
Rotary	= requires further calculation

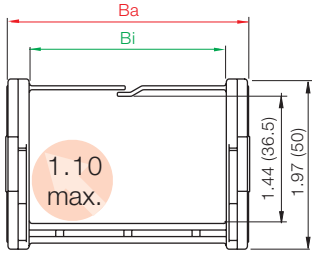


Series E26/Z26 "E-Z Chain"



E26
Z26

E26 (split crossbar along outer radius)



Click Here for Specs & CAD Files

Part No.	Bi	Ba
E26-07	2.95 (75)	3.62 (92)

Supplement part number with required radius for example, E26-07-150-0

- Bending Radii for ALL Widths
- 2.48 (063)
 - 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 6.89 (175)
 - 9.84 (250)

Z26 (split crossbar along inner radius)

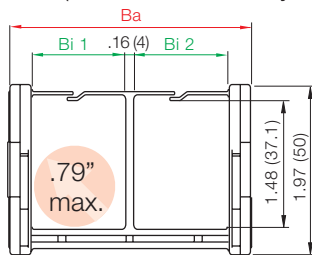


Part No.	Bi	Ba
Z26-07	2.95 (75)	3.62 (92)

Supplement part number with required radius for example, Z26-07-150-0

- Bending Radii for ALL Widths
- 2.48 (063)
 - 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 6.89 (175)
 - 9.84 (250)

E26 (with 2 chamber system)



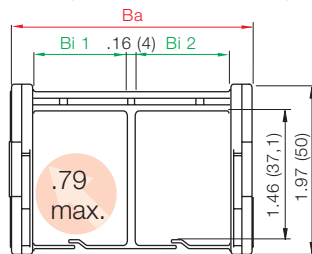
Part No.	Bi1	Bi2	Ba
E26-2/45	1.89 (48)	1.89 (48)	4.61 (117)

Inner widths of chambers
Number of chambers

Supplement part number with required radius for example E26-2/45-150-0

- Bending Radii for ALL Widths
- 2.48 (063)
 - 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)

Z26 (with 2 chamber system)



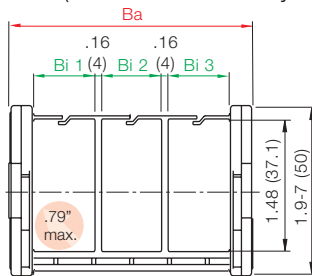
Part No.	Bi1	Bi2	Ba
Z26-2/45	1.89 (48)	1.89 (48)	4.61 (117)

Inner widths of chambers
Number of chambers

Supplement part number with required radius for example Z26-2/45-150-0

- Bending Radii for ALL Widths
- 2.48 (063)
 - 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)

E26 (with 3 chamber system)



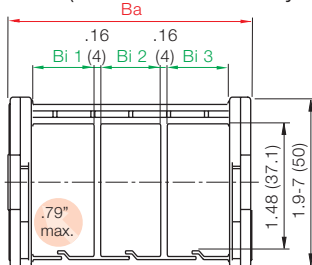
Part No.	Bi1	Bi2	Bi3	Ba
E26-3/45	1.85 (47)	1.89 (48)	1.85 (47)	6.57 (167)

Inner widths of chambers
Number of chambers

Supplement part number with required radius for example, E26-3/45-150-0

- Bending Radii for ALL Widths
- 2.48 (063)
 - 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 6.89 (175)
 - 9.84 (250)

Z26 (with 3 chamber system)



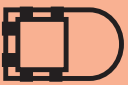
Part No.	Bi1	Bi2	Bi3	Ba
Z26-3/45	1.85 (47)	1.89 (48)	1.85 (47)	6.57 (167)

Inner widths of chambers
Number of chambers

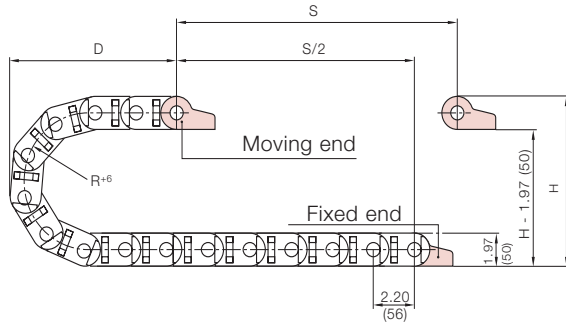
Supplement part number with required radius for example, Z26-3/45-150-0

- Bending Radii for ALL Widths
- 2.48 (063)
 - 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 6.89 (175)
 - 9.84 (250)

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



Installation Dimensions



R	2.48 (063)	2.95 (075)	3.94 (100)	4.92 (125)
H* ⁺⁵ ₀	7.09 (180)	7.87 (200)	9.84 (250)	11.81 (300)
D	5.51 (140)	5.91 (150)	6.89 (175)	7.87 (200)
K	13.19 (335)	14.76 (375)	18.70 (475)	21.65 (550)

R	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)
H* ⁺⁵ ₀	13.78 (350)	15.75 (400)	17.72 (450)	21.65 (550)
D	8.86 (225)	9.84 (250)	10.83 (275)	12.79 (325)
K	25.59 (650)	29.53 (750)	32.48 (825)	36.42 (925)

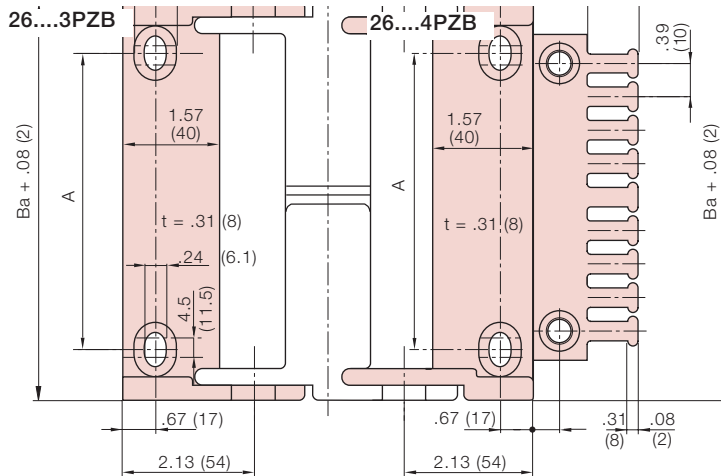
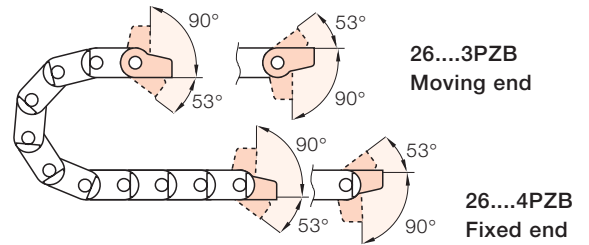
Pitch: = 2.20 (56 mm) per link
 Links per ft (m): = 4.57 (15)
 Chain length: = $\frac{S}{2} + K$

*The required clearance height is HF = H + 1.37 (35mm) with 1.34 lbs/ft (2 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Mounting Brackets

Option 1: polymer pivoting

- Standard
- Pivoting
- Short and long travels
- Space-restricted conditions
- Corrosion-resistant



* Photograph shows chain link of Series 27 with identical mounting brackets

[Click Here for Specs & CAD Files](#)

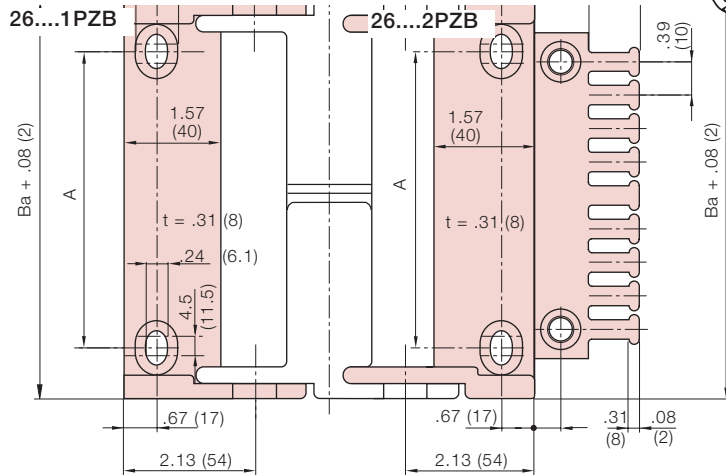
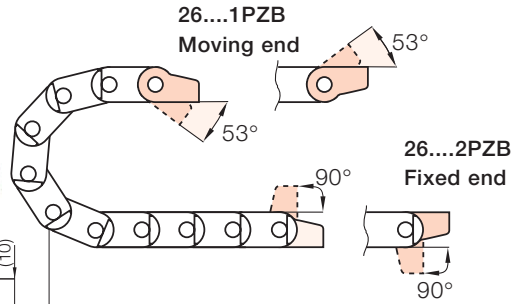
Chain Type	Part No. Full Set with Tiewrap Plate	Part No. with Tiewrap Plate and 10 Cable Tiewraps	Part No. Mounting Brackets	Dimension A in. (mm)
E/Z26-07	2607-34PZB	2607-34PZBK1	2607-34PZ	2.17 (55)
E/Z26-2/45	2610-34PZB	2610-34PZBK1	2610-34PZ	3.15 (80)
E/Z26-3/45	2615-34PZB	2615-34PZBK1	2615-34PZ	5.12 (130)

26...34 PZB = Full set, each part with pin, including tiewrap plate / bore, including tiewrap plate
 26...3 PZB = Mounting bracket with bore, including tiewrap plate
 26...4 PZB = Mounting bracket with pin, including tiewrap plate

Mounting Brackets: Series E26/Z26 “E-Z Chain”

Option 2: polymer locking

- Locked connections
- Vertical hanging / standing travel
- High accelerations
- Corrosion-resistant



* Photograph shows chain link of Series 27 with identical mounting brackets

Click Here for Specs & CAD Files

Chain Type	Part No. Full Set with Tiewrap Plate	Part No. with Tiewrap Plate and 10 Cable Tiewraps	Part No. Mounting Brackets	Dimension A	
				in.	(mm)
E/Z26-07	2607-12PZB	2607-12PZBK1	2607-12PZ	2.17	(55)
E/Z26-2/45	2610-12PZB	2610-12PZBK1	2610-12PZ	3.15	(80)
E/Z26-3/45	2615-12PZB	2615-12PZBK1	2615-12PZ	5.12	(130)

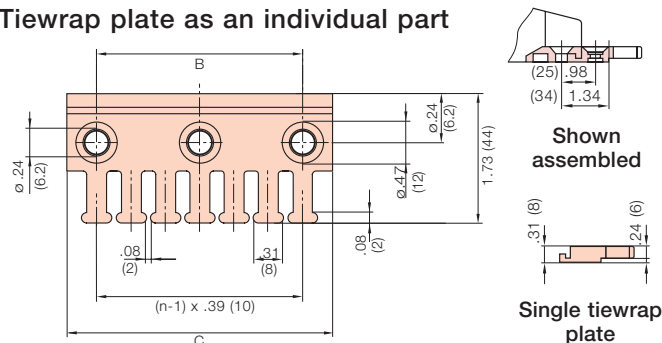
- 26...12 PZB = Full set, each part with pin, including tiewrap plate / bore, including tiewrap plate
- 26...1 PZB = Mounting bracket with bore, including tiewrap plate
- 26...2 PZB = Mounting bracket with pin, including tiewrap plate

Strain Relief for Polymer Mounting Brackets (pivoting or locking)

The strain relief tiewrap plates can be directly snapped onto the mounting bracket. After bolting the mounting brackets to the machine, the strain relief tiewrap plates are also firmly connected to the base. They do not need to be bolted on separately. Cable tiewraps secured around the tiewrap plate “teeth” and the cable provide proper strain relief and save time.



Tiewrap plate as an individual part



Tiewrap Plate	n # of Teeth	C Total Width in. (mm)	B Hole Spacing in. (mm)	Center Bore
3050-ZB	5	1.97 (50)	1.18 (30)	no
3075-ZB	7	2.95 (75)	2.17 (55)	no
3100-ZB	10	3.94 (100)	3.15 (80)	no
3125-ZB	12	4.92 (125)	4.13 (105)	no
3150-ZB	15	5.91 (150)	5.12 (130)	no
3175-ZB	17	6.89 (175)	6.10 (155)	no
3200-ZB	20	7.87 (200)	7.09 (180)	yes

Cable tiewraps as individual parts

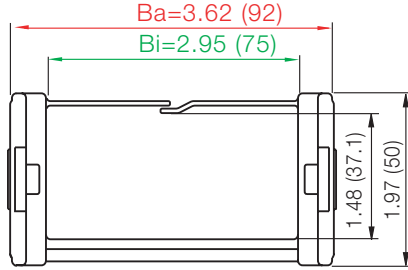
Cable tiewraps 100 pieces/bag	Width x Length		Maximum Ø		Tensile Strength	
	in.	(mm)	in.	(mm)	lbs	(N)
CFB-001	.19 x 5.91	(4.8 x 150)	1.42	(36)	50	(222)

- Other strain relief elements
- ▶ Strain Relief, Chapter 10

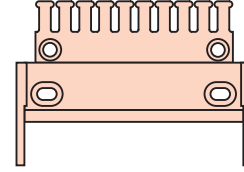
PDF: www.igus.com/echainpdf.asp
 Specs/CAD/RFQ: www.igus.com/echain.asp
 RoHS info: www.igus.com/RoHS.asp



Order example



E16-3



1. Chain selection:

E26-07-150-0

- Color black
- Radius
- Width
- Chain type

2. Mounting brackets:

2607-34-PZB

- With tiewrap plates
- Full set, pivoting (2 ea.)
- Chain width

For 6.56 ft (2 m) chain, color black,
with mounting brackets:
6.56 ft (2 m) E26-07-150-0 and 2607-34PZ

44 links — 6.71 links/ft (22 links/m)



Technical data

Please consult igus® for weight information

Chain Type	Weight Per Link		Weight	
	(oz.)	(g)	(lbs/ft)	(kg/m)
E26/Z26-07	1.85	(≈ 52.75)	0.645	(≈ 0.96)
E26/Z26-2/45	2.22	(≈ 63.30)	0.766	(≈ 1.14)
E26/Z26-3/45	2.48	(≈ 70.75)	0.874	(≈ 1.30)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1



igus® Energy Chain
System®

Telephone 1-800-521-2747
Fax 1-401-438-7270

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

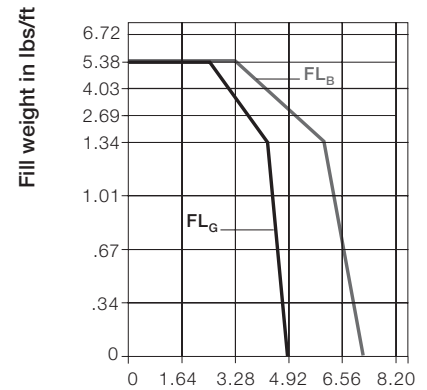
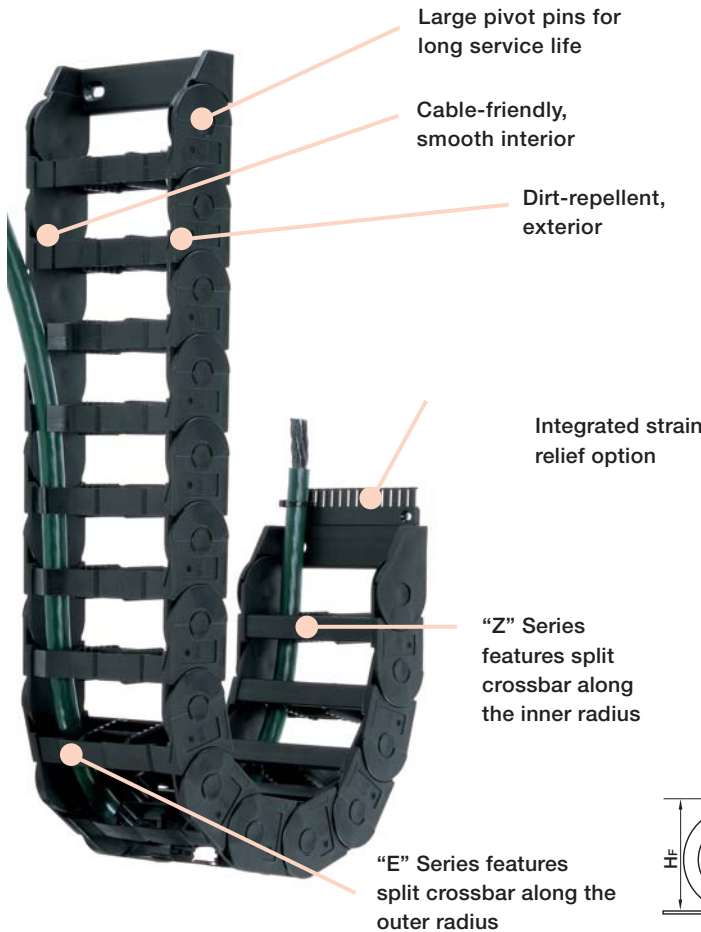
Price Index



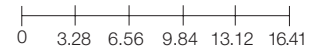
3 Widths
7 Bending Radii



3 options for mounting brackets



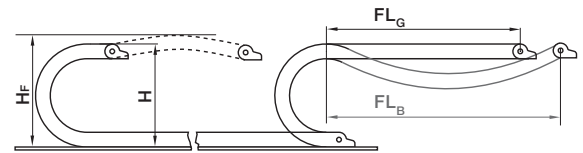
Unsupported length in ft FL_B / FL_G



Length of travel S in ft

Unsupported length

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



Product Range

Inner Widths (Bi) inches (mm):	2.95 (75), 2x1.89 (2x48), 3x1.81 (3x46),
Bending Radii (R) inches (mm):	2.48 (075)*, 2.95 (100)*, 3.94 (125)*, 5.91 (150), 7.87 (200), 9.84 (250), 11.81 (300)
Pitch:	2.64 (67 mm)/link = 4.57 links/ft (15 links/m) 39.6 in.(1005mm)



When to use the Series E300/Z300

- If price is an issue
- If fast and easy cable and hose accessibility is required
- If torsional rigidity and torque resistance are required
- If very quiet operation is required

● Further information
▶ Design, Chapter 1



When not to use the Series E300/Z300

- If a long unsupported length is required
▶ Series 340/350, Chapter 4
- If single-extrusion crossbars are required
▶ Series 340/350, Chapter 4
- "Z" Series is unsuitable for gliding applications
▶ Series B15, Chapter

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

If the unsupported length is exceeded the Energy Chain® must glide on itself. This requires a guide trough. ▶ Design, Chapter 1. "E" Series is conditionally suitable for gliding applications. "Z" Series is not suitable.

Other Installation Methods

Vertical, hanging	= max. 32.8 ft (10m)
Vertical, standing	= max. 4.92 ft (1.5m)
Side-mounted, unsupported	= max. 1.64 ft (0.5m)
Rotary	= requires further calculation

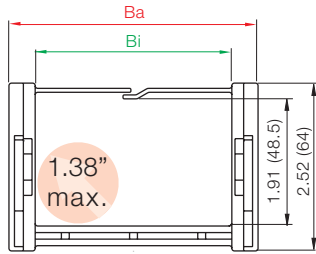
[Click Here for Specs & CAD Files](#)

Series E300/Z300 "E-Z Chain"



E300
Z300

E300 (split crossbar along outer radius)

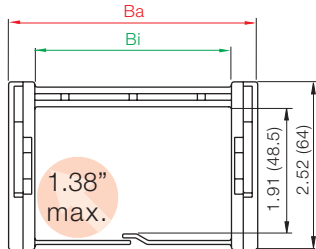


Part No.	Bi	Ba
E300-075	2.95 (75)	3.74 (95)

Supplement part number with required radius
for example, E300-075-150-0

- Bending Radii
for ALL Widths
- 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)
 - 9.84 (250)
 - 11.81 (300)

Z300 (split crossbar along inner radius)



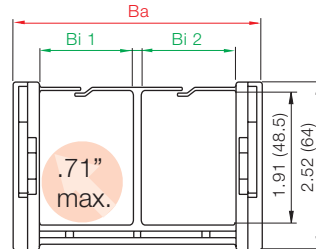
Part No.	Bi	Ba
Z300-075	2.95 (75)	3.74 (95)

Supplement part number with required radius
for example, Z300-075-150-0

- Bending Radii
for ALL Widths
- 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)
 - 9.84 (250)
 - 11.81 (300)

[Click Here for Specs & CAD Files](#)

E300 (with 2 chamber system)



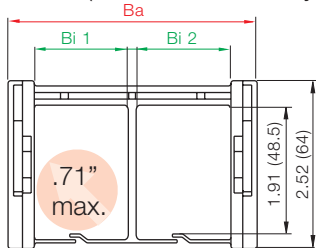
Part No.	Bi1	Bi2	Ba
E300-2/45	1.89 (48)	1.89 (48)	4.72 (120)

Inner widths of chambers
Number of chambers

Supplement part number with required radius
for example E300-2/45-150-0

- Bending Radii
for ALL Widths
- 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)
 - 9.84 (250)
 - 11.81 (300)

Z300 (with 2 chamber system)



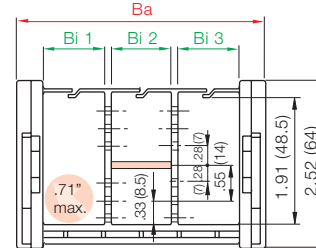
Part No.	Bi1	Bi2	Ba
Z300-2/45	1.89 (48)	1.89 (48)	4.72 (120)

Inner widths of chambers
Number of chambers

Supplement part number with required radius
for example Z300-2/45-150-0

- Bending Radii
for ALL Widths
- 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)
 - 9.84 (250)
 - 11.81 (300)

E300 (with 3 chamber system and optional interior shelving)



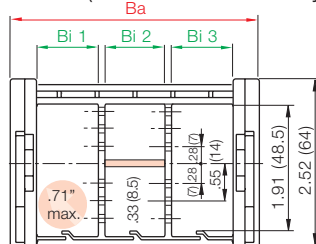
Part No.	Bi1	Bi2	Bi3	Ba
E300-3/45	1.85 (47)	1.81 (46)	1.85 (47)	6.69 (170)

Inner widths of chambers
Number of chambers

Supplement part number with required radius
for example, E300-3/45-150-0

- Bending Radii
for ALL Widths
- 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)
 - 9.84 (250)
 - 11.81 (300)

Z300 (with 3 chamber system and optional interior shelving)



Part No.	Bi1	Bi2	Bi3	Ba
Z300-3/45	1.85 (47)	1.81 (46)	1.85 (47)	6.69 (170)

Inner widths of chambers
Number of chambers

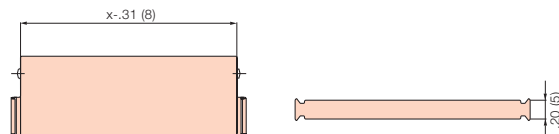
Supplement part number with required radius
for example, Z300-3/45-150-0

- Bending Radii
for ALL Widths
- 2.95 (075)
 - 3.94 (100)
 - 4.92 (125)
 - 5.91 (150)
 - 7.87 (200)
 - 9.84 (250)
 - 11.81 (300)

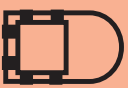
Shelving

Unassembled
Part number 386-54

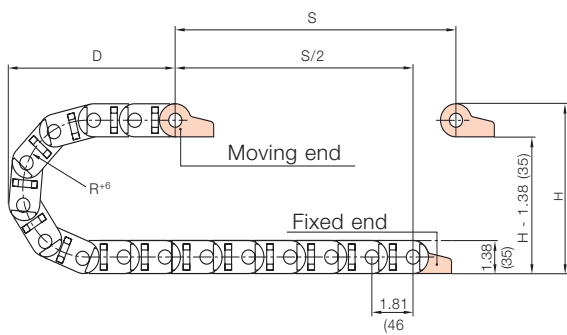
Assembled
Part number 387-54



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



Installation Dimensions



R	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)
H [*] ₀ ⁺⁵	8.46 (215)	10.43 (265)	12.40 (315)	14.37 (365)
D	5.91 (150)	7.87 (200)	6.89 (225)	9.84 (250)
K	15.75 (400)	19.68 (500)	25.59 (650)	28.54 (725)

R	7.87 (200)	9.84 (250)	11.81 (300)	
H [*] ₀ ⁺⁵	18.31 (465)	22.24 (565)	26.18 (665)	
D	11.81 (300)	13.78 (350)	15.75 (400)	
K	34.45 (875)	41.34 (1050)	48.23 (1225)	

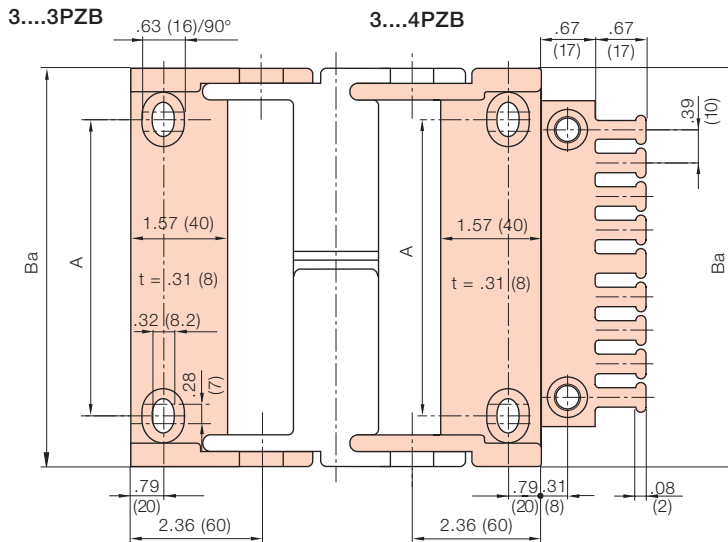
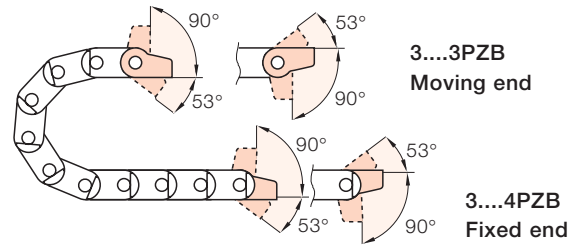
Pitch: = 2.64 (67 mm) per link
 Links per ft (m): = 4.57 (15)
 Chain length = $\frac{S}{2} + K$

*The required clearance height is HF = H + 1.57 (40mm) with 1.68 lbs/ft (2.5 kg/m) fill weight Please consult igus® if space is particularly restricted.

Mounting Brackets

Option 1: polymer pivoting

- Standard
- Pivoting
- Short and long travels
- Space-restricted conditions
- Corrosion-resistant



* Photograph shows chain link of Series 350 with identical mounting brackets



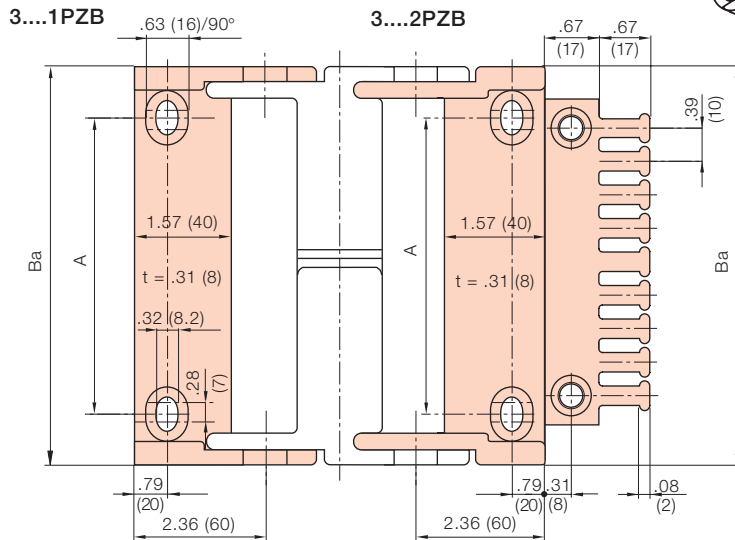
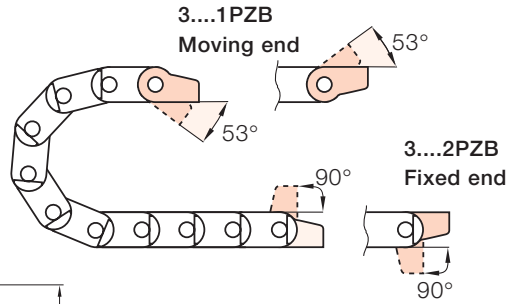
Chain Type	Part No. Full Set with Tiewrap Plate	Part No. with Tiewrap Plate and 10 Cable Tiewraps	Part No. Mounting Brackets	Dimension A in. (mm)
E/Z300-075	3075-34PZB	3075-34PZBK1	3075-34PZ	2.09 (53)
E/Z300-2/45	3100-34PZB	3100-34PZBK1	3100-34PZ	3.07 (78)
E/Z300-3/45	3150-34PZB	3150-34PZBK1	3150-34PZ	5.04 (128)

- 3...34 PZB = Full set, each part with pin, including tiewrap plate / bore, including tiewrap plate
- 3...3 PZB = Mounting bracket with bore, including tiewrap plate
- 3...4 PZB = Mounting bracket with pin, including tiewrap plate

Mounting Brackets: Series E300/Z300 “E-Z Chain”

Option 2: polymer locking

- Locked connections
- Vertical hanging / standing travel
- High accelerations
- Corrosion-resistant



* Photograph shows chain link of Series 350 with identical mounting brackets

Chain Type	Part No. Full Set with Tiewrap Plate	Part No. with Tiewrap Plate and 10 Cable Tiewraps	Part No. Mounting Brackets	Dimension A	
				in.	(mm)
E/Z300-075	3075-12PZB	3075-12PZBK1	3075-12PZ	2.09	(53)
E/Z300-2/45	3100-12PZB	3100-12PZBK1	3100-12PZ	3.07	(78)
E/Z300-3/45	3150-12PZB	3150-12PZBK1	3150-12PZ	5.04	(128)



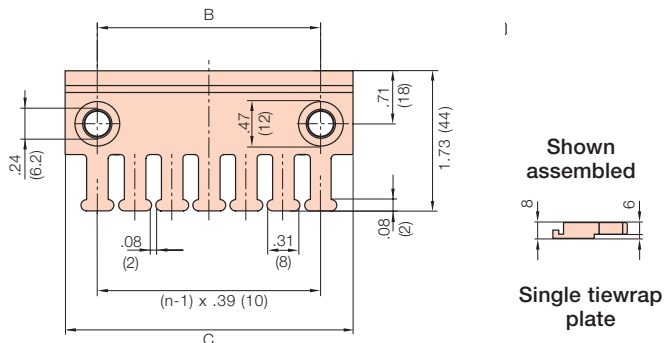
- 3...12 PZB = Full set, each part with pin, including tiewrap plate / bore, including tiewrap plate
- 3...1 PZB = Mounting bracket with bore, including tiewrap plate
- 3...2 PZB = Mounting bracket with pin, including tiewrap plate

Strain Relief for Polymer Mounting Brackets (pivoting or locking)

The strain relief tiewrap plates can be directly snapped onto the mounting bracket. After bolting the mounting brackets to the machine, the strain relief tiewrap plates are also firmly connected to the base. They do not need to be bolted on separately. Cable tiewraps secured around the tiewrap plate “teeth” and the cable provide proper strain relief and save time.



Tiewrap plate as an individual part



Tiewrap Plate	n # of Teeth	C Total Width in. (mm)	B Hole Spacing in. (mm)	Center Bore
3075-ZB	7	2.95 (75)	2.17 (55)	no
3100-ZB	10	3.94 (100)	3.15 (80)	no
3150-ZB	15	5.91 (150)	5.12 (130)	no

Cable tiewraps as individual parts

Cable tiewraps 100 pieces/bag	Width x Length		Maximum Ø		Tensile Strength	
	in.	(mm)	in.	(mm)	lbs	(N)
CFB-001	.19 x 5.91	(4.8 x 150)	1.42	(36)	50	(222)

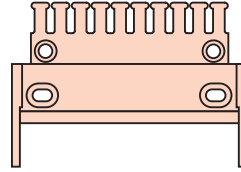
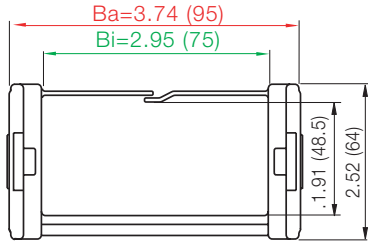
- Other strain relief elements
- ▶ Strain Relief, Chapter 10

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



Order example

E300-075



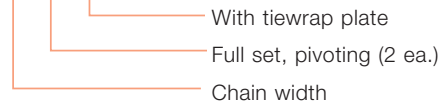
1. Chain selection:

E300-075-100-0



2. Mounting brackets:

3075-34PZB



For 6.56 ft (2 m) chain, color black,
with mounting brackets, pivoting
6.56 ft (2 m) E300-075-100-0 and 3075-34PZ

30 links — 4.57 links/ft (15 links/m)



Technical data

Chain Type	Weight Per Link		Weight Per Meter	
	(oz.)	(g)	(lbs/ft)	(kg/ft)
E/Z300-075	3.745	(107.0)	1.08	(1.603)
E/Z300-2/48	4.165	(119.0)	1.19	(1.778)
E/Z300-3/47	4.480	(128.0)	1.29	(1.925)

Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	-22°F/212°F (-30°C/+100°C)
Gliding speed max.	Conditionally suitable
Unsupported v max.	32.8 ft/s (10m/s)
Flammability class (chain)	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

- Details of material properties
- ▶ Design, Chapter 1