

Price Index



2 Widths
3 Bending Radii



Product Range:

Inner Widths (Bi) in mm:	10, 16
Bending Radii (R) in mm:	018, 028, 038
Pitch:	20 mm/link = 50 links/m

Unsupported length

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

Mounting brackets with and without tie-wrap plates



Quickfix: mounting bracket with dowel



The diagram shows the chain's U-shaped link with dimensions H_F and H . It illustrates two unsupported length scenarios: FL_B (with permitted sag) and FL_G (with straight upper run). The travel length S is shown for both cases, with $S(FL_G)$ being longer than $S(FL_B)$.

The graph plots Fill weight in kg/m (y-axis, 0 to 0.75) against Unsupported length in m FL_B/FL_G (x-axis, 0 to 0.75). The weight is constant at approximately 0.45 kg/m for FL_B up to 0.45 m, then drops to 0. For FL_G , the weight is constant at approximately 0.45 kg/m up to 0.45 m, then drops to 0. The travel length S in m is shown on a secondary x-axis (0 to 1.5).

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



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



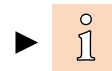
When not to use them:

- If a long unsupported length is required
 - ▶ Series 08, Page 5.24
- "Z" Series is unsuitable for gliding applications
 - ▶ Series 07, Page 4.8

Product Range

E06 (split crossbar along the outer radius)

Order Example

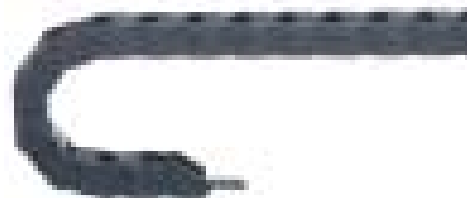
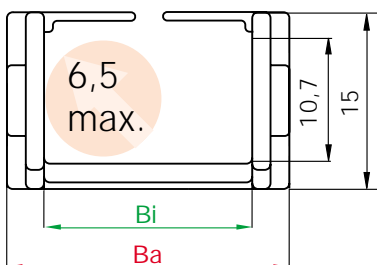


E06.10.038.0

Standard color
0 = Black

● Other colors
▶ Design,
Page 1.62

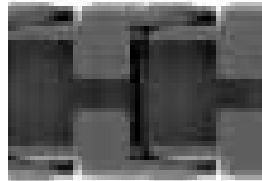
Easy Chain®



Part No.		Bi	Ba	Bending Radii for All Chain Widths
E06.10.	Radius	10	16,5	018 028 038
E06.16.	Radius	16	22,5	018 028 038

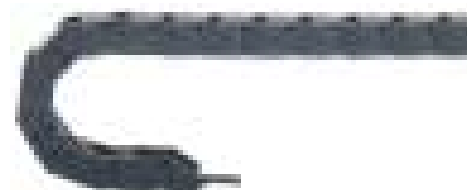
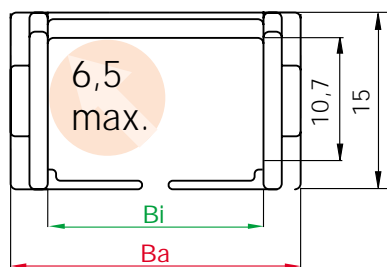
Supplement part no. with required radius
for example, E06.16.028.0

Special solution,
Opening gap 3.5 mm
Part No. E06.10.018S3



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Fax +49- (0) 22 03 96 49-222

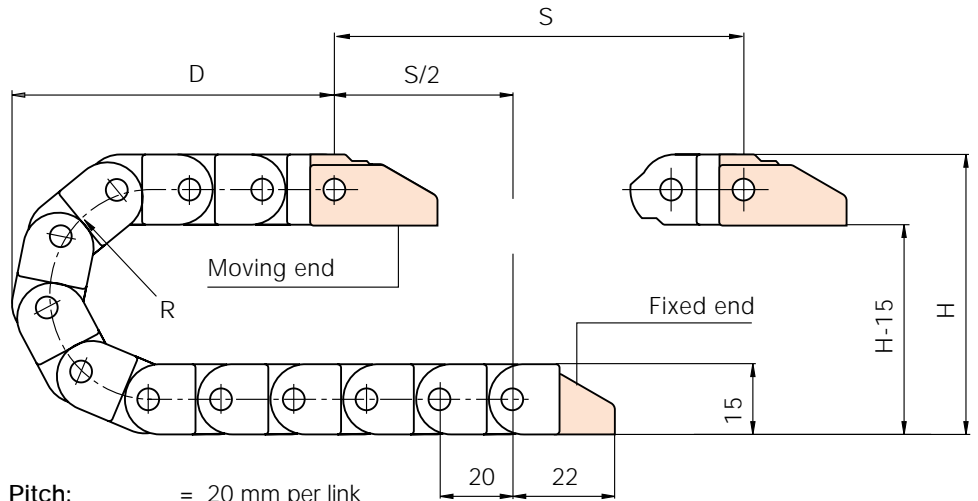
Z06 (split crossbar along inner radius)



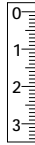
Part No.		Bi	Ba	Bending Radii for All Chain Widths
Z06.10.	Radius	10	16,5	018 028 038
Z06.16.	Radius	16	22,5	018 028 038

Supplement part no. with required radius
for example, Z06.16.028.0





Pitch: = 20 mm per link
 Links per m: = 50
 Chain length: = $\frac{S}{2} + K$



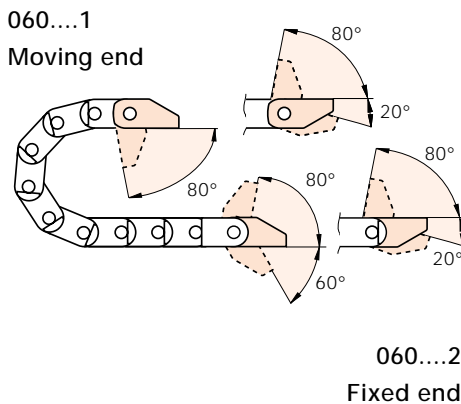
R	18	28	38
H*	52	70	90
D	40	50	60
K	95	120	145

*The required clearance height is HF = H + 10 (with 0,2 kg/m fill weight).
 Please consult igus® if space is particularly restricted.

Mounting Brackets: Series E06/Z06 "Easy Chain™"

Polymer, One-Piece

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



2 options for all applications

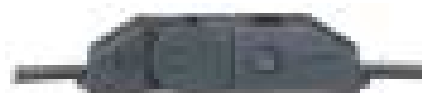
Option 2:

- Without tiewrap plate



Option 2:

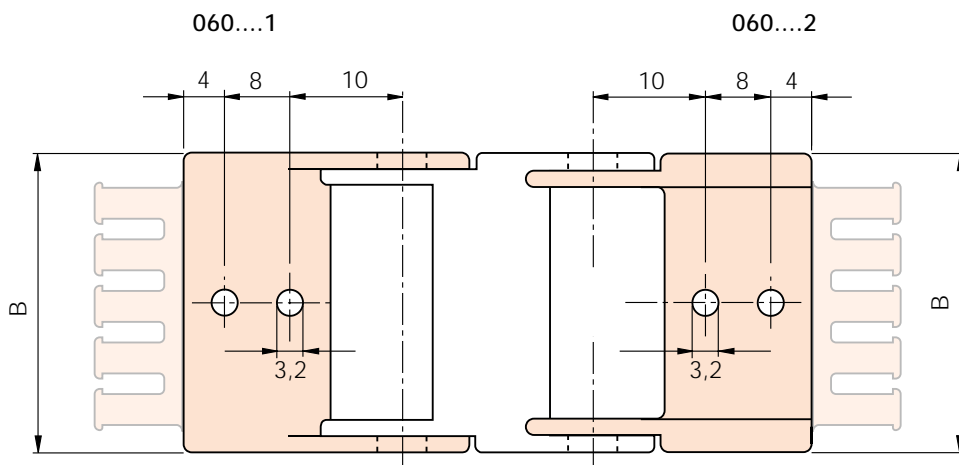
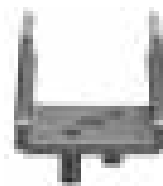
- With tiewrap plate



- Quicksnap: available upon request

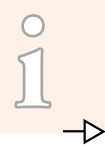
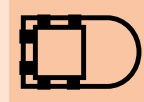
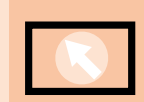


- Quickfix: with dowel for fast mounting, available upon request



Chain Type	Part No. Full Set with Strain Relief Tiewrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimension B in mm
E06/Z06.10	060.10.12 PZ	060.10.12	1	16,5
E06/Z06.16	060.16.12 PZ	060.16.12	1	22,5

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

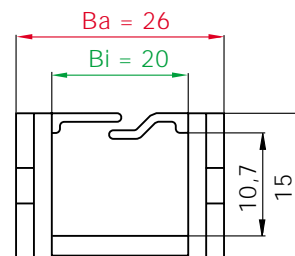


Order Example

E06.20...

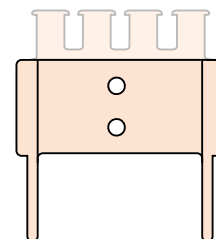
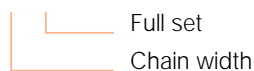
1. Chain selection:

E06.10.038.0



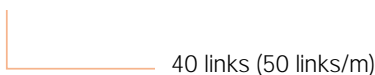
2. Mounting brackets:

060.10.12



For 0,8 m chain, color black, with mounting brackets:

0,8 m E06.10.038.0 and 060.10.12PZ

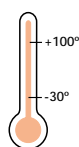


Technical Data



Chain Type	Weight Per Link (g)	Weight Per Meter (kg)
E06/Z06.06.10	≈ 2,8	≈ 0,14
E06/Z06.06.16	≈ 3,2	≈ 0,16

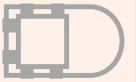
The following applies to all series listed here:



Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature °C	-30/+100
Gliding speed (maximum) m/s	Conditionally suitable
Unsupported v (maximum) m/s	10
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, Page 1.61



igus® Energy Chain
Systems®

Price Index



6 Widths
3 Bending Radii



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Mounting bracket
with and without
tiewrap plate

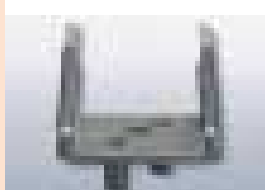


Quicksnap: the
complete, detach-
able mounting unit



igus® GmbH
51127 Cologne

Quickfix: mounting
bracket with dowel

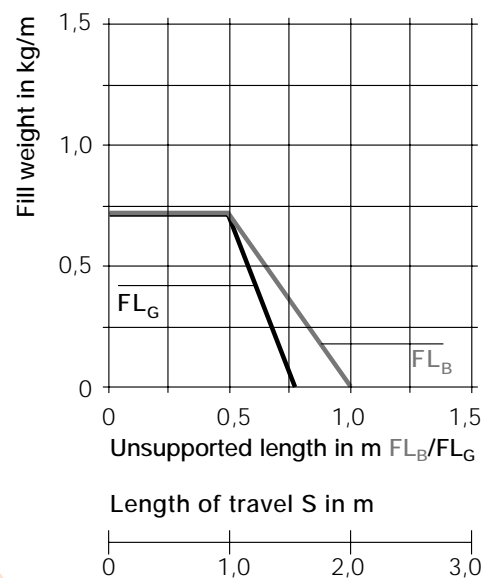
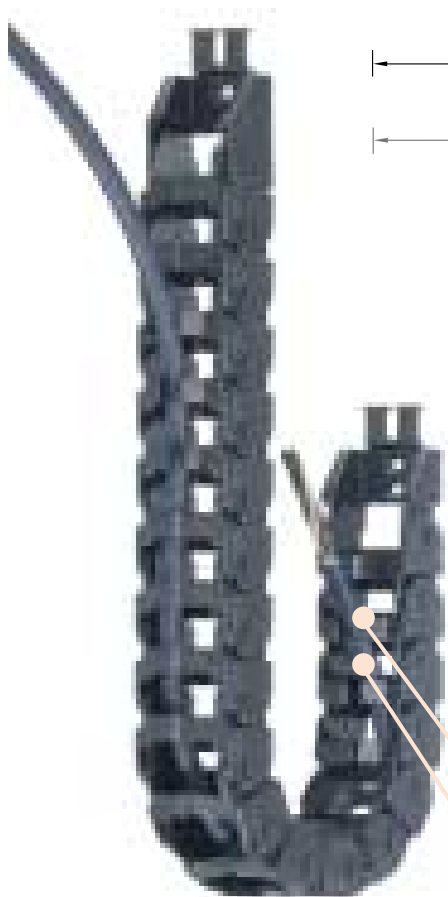
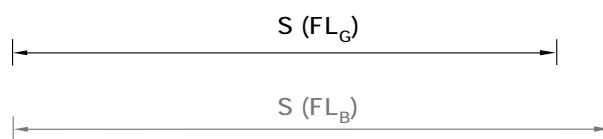
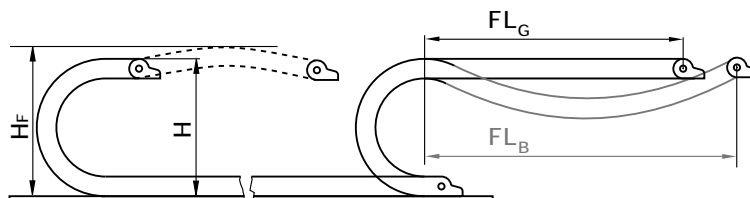


Product Range:

Inner Widths (B) in mm:	10, 16, 20, 30, 40, 50
Bending Radii (R) in mm:	028, 038, 048
Pitch:	20 mm/link = 50 links/m

Unsupported length

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



High torsional rigidity

Small pitch for very smooth operation
(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

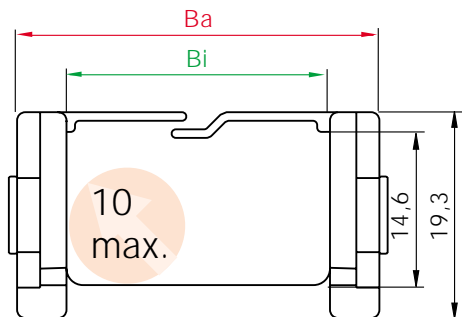


When not to use them:

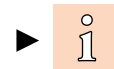
- If a long unsupported length is required
▶ Series 09, Page 4.12
- "Z" Series unsuitable for gliding applications
▶ Series 09, Page 4.12

Product Range

E08 (split crossbar along the outer radius)



Order Example



E08.20.038.0

Standard color
0 = Black

● Other colors
▶ Design,
Page 1.62

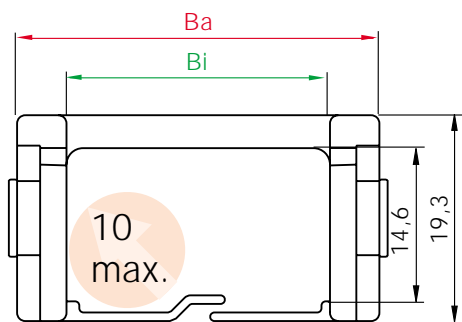
Easy Chain®

Part No.		Bi	Ba	Bending Radii for All Chain Widths
E08.10.	Radius	10	18,2	028 038 048
E08.16.	Radius	16	24,2	028 038 048
E08.20.	Radius	20	28,2	028 038 048
E08.30.	Radius	30	38,2	028 038 048
E08.40.	Radius	40	48,2	028 038 048
E08.50.	Radius	50	58,2	028 038 048

Supplement part no. with required radius
for example, E08.20.038.0

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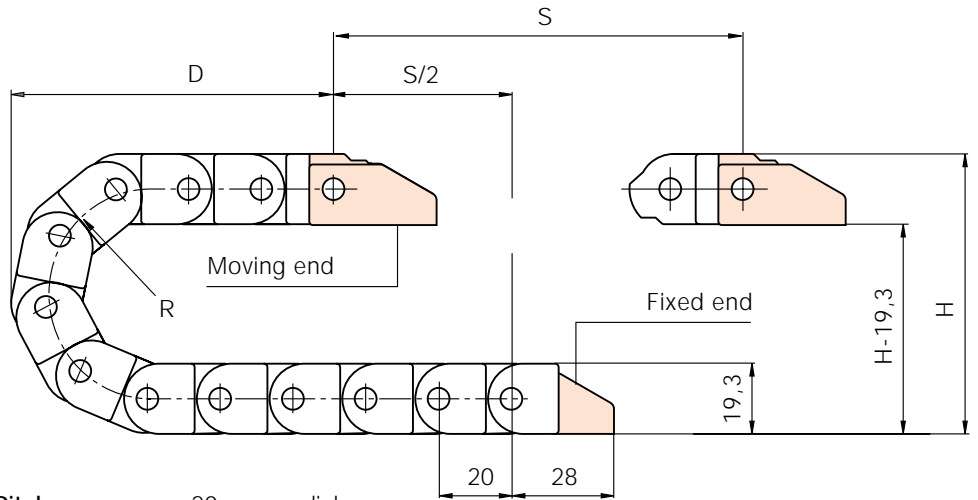
Z08 (split crossbar along inner radius)



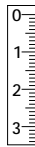
Part No.		Bi	Ba	Bending Radii for All Chain Widths
Z08.10.	Radius	10	18,2	028 038 048
Z08.16.	Radius	16	24,2	028 038 048
Z08.20.	Radius	20	28,2	028 038 048
Z08.30.	Radius	30	38,2	028 038 048
Z08.40.	Radius	40	48,2	028 038 048
Z08.50.	Radius	50	58,2	028 038 048

Supplement part no. with required radius
for example, Z08.20.038.0





Pitch: = 20 mm per link
 Links per m: = 50
 Chain length: = $\frac{S}{2} + K$



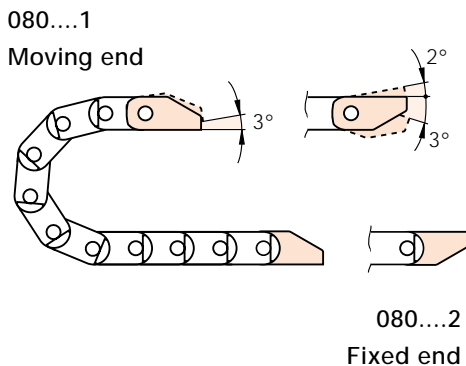
	028	038	048
R			
H*	76	96	116
D	60	70	80
K	130	160	190

*The required clearance height is HF = H + 15 (with 0,3 kg/m fill weight).
 Please consult igus® if space is particularly restricted.

Mounting Brackets: Series E08/Z08 "Easy Chain"

Polymer, One-Piece

- Standard
- One-piece mounting bracket
- Corrosion-resistant
- Available pre-assembled
- Available with integrated tiewrap plates
- Inner and outer attachment possible



2 options for all applications

Option 1:

- Without tiewrap plate



Option 2:

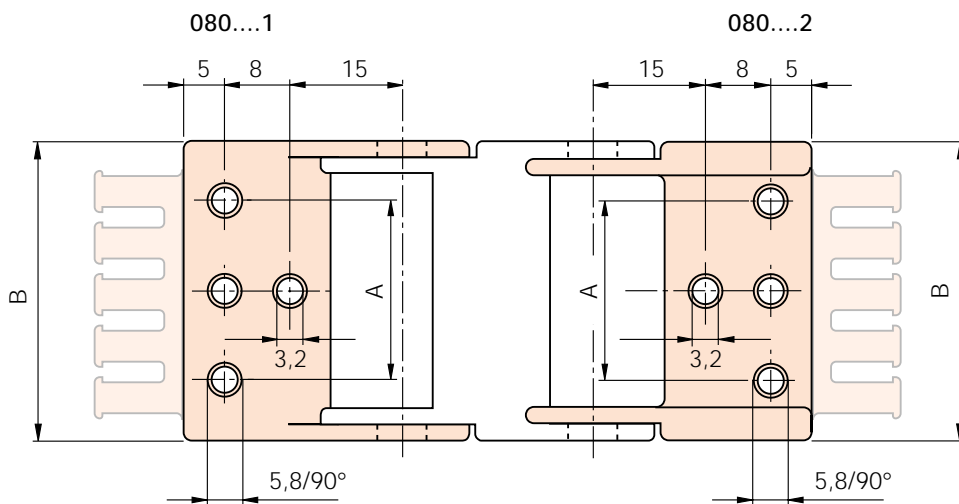
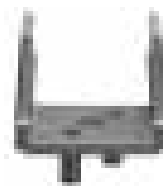
- With tiewrap plate



- Quicksnap: available upon request



- Quickfix: With dowel for fast mounting, available upon request



080.06.12 - 080.20.12: Center bores only
080.30.12 - 080.50.12: All bores

Chain Type	Part No. Full Set with Tiewrap Plate	Part No. Mounting Bracket Set	Number of Teeth	Dimension A in mm	Dimension B in mm
E08/Z08.10	080.10.12 PZ	080.10.12	1	-	18,2
E08/Z08.16	080.16.12 PZ	080.16.12	2	-	24,2
E08/Z08.20	080.20.12 PZ	080.20.12	2	-	28,2
E08/Z08.30	080.30.12 PZ	080.30.12	3	22	38,2
E08/Z08.40	080.40.12 PZ	080.40.12	4	32	48,2
E08/Z08.50	080.50.12 PZ	080.50.12	5	42	58,2

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

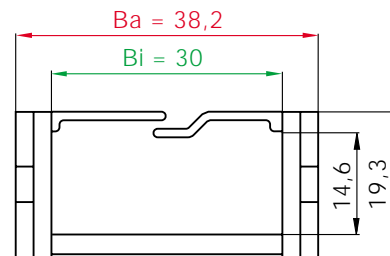


Order Example

E08.30...

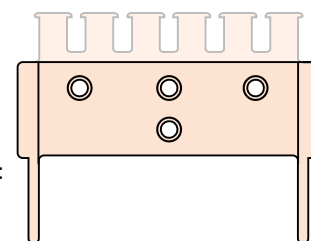
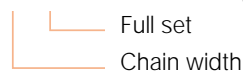
1. Chain selection:

E08.30.038.0



2. Mounting brackets:

E080.30.12 PZ - with tiewrap plate



For 5 m chain, color black, with mounting brackets:
5 m E08.30.038.0 and 080.30.12 PZ



250 links (50 links/m)

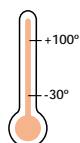
Technical Data

Chain Type	Weight Per Link (g)	Weight Per Meter (kg)
E08/Z08.06	≈ 2,2	≈ 0,17
E08/Z08.10	≈ 2,7	≈ 0,21
E08/Z08.16	≈ 3,1	≈ 0,24
E08/Z08.20	≈ 3,2	≈ 0,25
E08/Z08.30	≈ 3,6	≈ 0,28
E08/Z08.40	≈ 4,0	≈ 0,31
E08/Z08.50	≈ 4,8	≈ 0,37



The following applies to all series listed here:

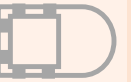
Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature	°C -30/+100
Gliding speed (maximum)	m/s Conditionally suitable
Unsupported v (maximum)	m/s 10
Flammability class chain	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)*	VDE 0304 IIC UL94 HB



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

● Details of material properties,

▶ Design, Page 1.61





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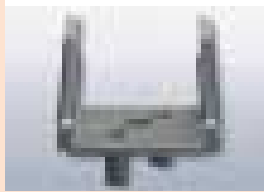
4 Widths
6 Bending Radii



Mounting bracket
Series E14/S14



Quickfix: mounting
bracket with dowel

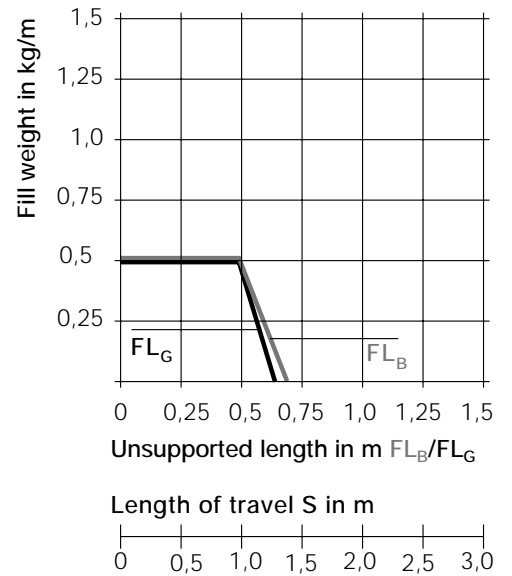
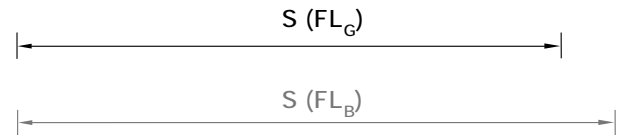
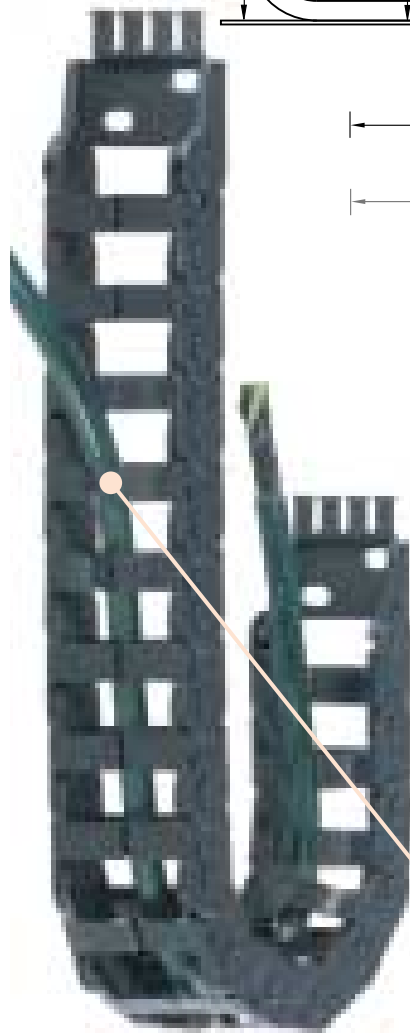
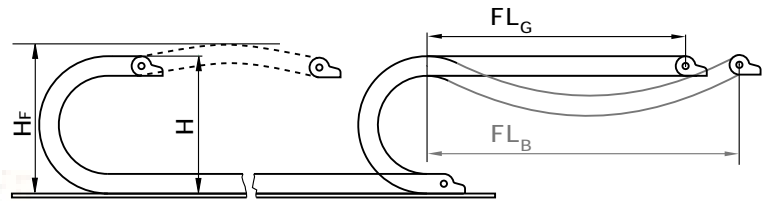


Product Range:

Inner Widths (Bi) in mm:	15, 25, 38, 50
Bending Radii (R) in mm:	028, 038, 048, 075, 100, 125
Pitch:	30,5 mm/link = 33 links/m (1006,5 mm)

Unsupported length

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



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



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 them:

- If a long unsupported length is required
 - ▶ Series B15 New, Page 5.52
- "Z" Series is unsuitable for gliding applications
 - ▶ Series B15 New, Page 5.52

Product Range

E14 (split crossbar along the outer radius)

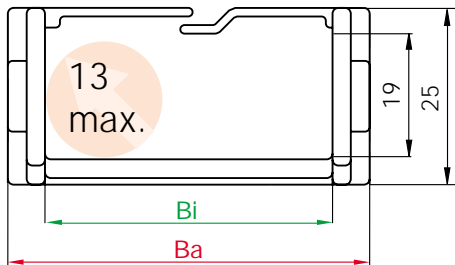
Order Example



E14.2.028.0

Standard color
0 = Black

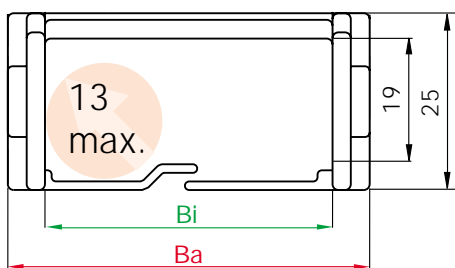
Other colors
Design,
Page 1.62



Part No.		Bi	Ba	Bending Radii for All Chain Widths
E14.1	Radius	15	27	028 038 048 075 100 125
E14.2	Radius	25	37	028 038 048 075 100 125
E14.3	Radius	38	50	028 038 048 075 100 125
E14.4	Radius	50	62	028 038 048 075 100 125

Supplement part no. with required radius
for example, E14.2.028.0

Z14 (split crossbar along inner radius)

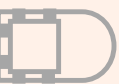


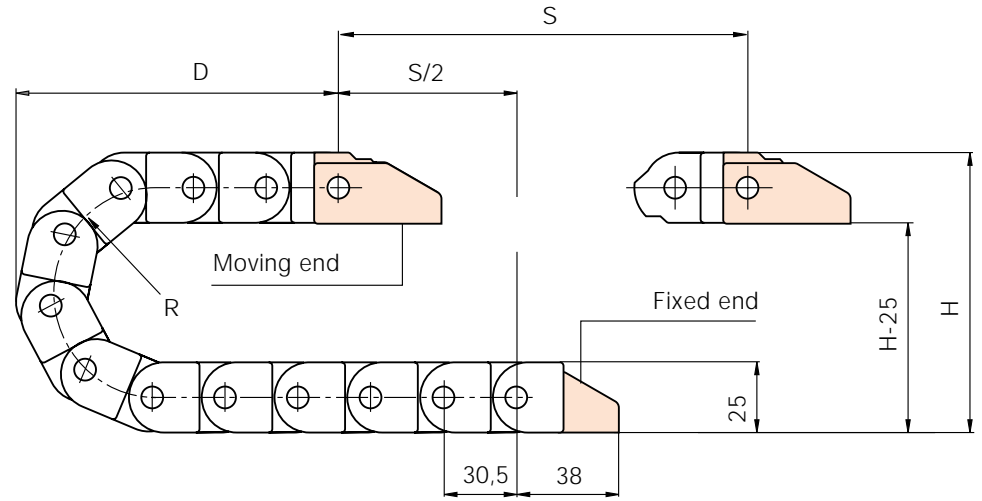
Part No.		Bi	Ba	Bending Radii for All Chain Widths
Z14.1	Radius	15	27	028 038 048 075 100 125
Z14.2	Radius	25	37	028 038 048 075 100 125
Z14.3	Radius	38	50	028 038 048 075 100 125
Z14.4	Radius	50	62	028 038 048 075 100 125

Supplement part no. with required radius
for example, Z14.2.028.0

Easy Chain®

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Pitch: = 30,5 mm per link

Links per m: = 33

Chain length: = $\frac{S}{2} + K$



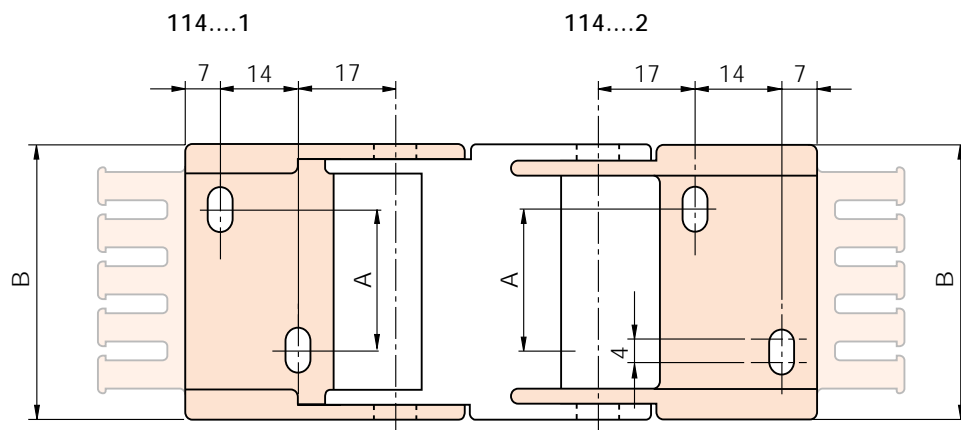
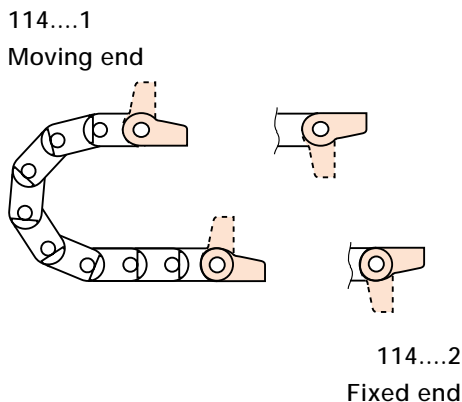
R	28	38	48	75	100	125
H	82	102	122	177	227	277
D	71	81	91	120	145	170
K	150	185	215	300	375	455

*The required clearance height is $HF = H + 10$ (with 0,2 kg/m fill weight).
Please consult igus® if space is particularly restricted.

Mounting Brackets: Series E14/Z14 "Easy Chain"

Polymer, One-Piece

- Standard
- One-piece mounting bracket
- Corrosion-resistant
- Available pre-assembled
- Inner and outer attachment possible
- Available with integrated strain relief tiwrap plate



Chain Type	Part No. Full Set with Tiewrap Plate	Part No. Mounting Bracket Set	Dimension A in mm	Dimension B in mm
E14/Z14.1	114.1.12PZ	114.1.12P	0	26,3
E14/Z14.2	114.2.12PZ	114.2.12P	10	36,3
E14/Z14.3	114.3.12PZ	114.3.12P	23	49,3
E14/Z14.4	114.4.12PZ	114.4.12P	35	62,3

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

Option 1:

- Without strain relief tiwrap plate



Option 2:

- With strain relief tiwrap plate

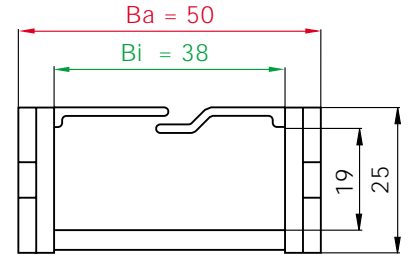


Order Example

E14.3

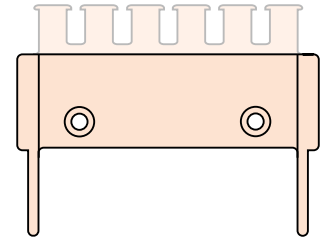
1. Chain selection:

E14.3.038.0



2. Mounting brackets:

114.3.12 PZ - with tiwrap plate



For 0,8 m chain, color black, with mounting brackets:
0,8 m E14.3.038.0 and 114.3.12PZ

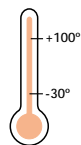


Technical Data



Chain Type	Weight Per Link (g)	Weight Per Meter (kg)
E14.1/Z14.1	≈ 9,3	≈ 0,31
E14.2/Z14.2	≈ 9,6	≈ 0,32
E14.3/Z14.3	≈ 12,0	≈ 0,40
E14.4/Z14.4	≈ 13,3	≈ 0,44

The following applies to all series listed here:



Material (chain)	igumid NB
Material (mounting brackets)*	igumid G
Permitted temperature °C	-30/+100
Gliding speed (maximum) m/s	Conditionally suitable
Unsupported v (maximum) m/s	10
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, Page 1.61