

igus[®] easy chain[®]

Easy to fill and
very cost-effective



easy to fill and very cost-effective - easy chain®

easy chains® are available with exterior (version E) press fit access, as well as interior (version Z) access. The assembly time reductions are a primary reason to choose easy chains®. Their material, igumid NB, presents more application opportunities with: Optimal elasticity, UL94-V2 classification and excellent cleanroom qualities. Their one-piece design keeps the easy chain® very cost-effective

Typical industries and applications

- General machinery
- Cleanroom applications
- Electronic apparatus
- Office equipment
- Vending machines
- Packaging machines
- Machine tools



IPA Qualification Certificate - Report IG 0308-295:
ISO Class 2, according to DIN EN ISO 14644-1
for easy chain®, Series E14.3.038 at v = 1,0 m/s

 Electrically conductive
ESD/ATEX versions upon request

 42 dB(A) - Value determined at the igus® test-lab: v= 1,0 m/s unsupported, Series E06.10.038.0

 UL94-V2
classification

 With easy chain® rotatory and
torsional motions are possible



Machinery of all kinds feature igus® easy chains® - reduces assembly times



Series E14 on server unit, removable for maintenance purposes Cleanroom Class 2 ISO is standard



easy chain® on adjustable office furniture with UL94 - V2 Classification



Assembly time: Insert of 2 cables Ø 6 and 10 mm.
We can present you with more details about this
and other tests



Just push the cables into the e-chain® with your thumb
- and it's ready. Pull out cable by hand.

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bending radius <i>R</i> [mm]	Unsupported length max. [m]	Page
 easy chain® - Version "E" Split crossbar along outer radius 1 / 2 / 3 / 4- chamber system							
1-chamber 	E03	5	5 - 10	8,7 - 13,7	8	10 - 28	0,40
	E04	7	7	13	10	15 - 48	0,55
	E045	9,4	10 - 16	16 - 23	12,5	18 - 38	0,40
	E06	10,7	10 - 20	16,5 - 26,5	15	18 - 38	0,55
	E065	11,3	16	24,8	15	18 - 38	0,60
	E08	14,6	10 - 50	18,2 - 58,2	19,3	28 - 48	1,00
	E14	19	15 - 50	27 - 62	25	28 - 125	0,65
	E200	24,3	57	74,4	35	55 - 200	1,75
	E16	32	23 - 100	37,5 - 115,3	39	60 - 100	1,00
	E26	36,5	75	92	50	63 - 250	2,00
2-chamber 	E300	48,5	75	95	64	75 - 300	2,25
	E045.2	9,4	7 - 9	23 - 27	12,5	18 - 38	0,40
	E065.2	11,3	9	29,3	15	18 - 38	0,60
	E200.2	24,3	37 - 50	94,4 - 120,4	35	55 - 200	1,75
	E26.2	37,1	48	117	50	63 - 250	2,00
3-chamber 	E300.2	48,5	48	120	64	75 - 300	2,25
	E045.3	9,4	9	37	12,5	18 - 38	0,40
	E065.3	11,3	9	39,3	15	18 - 38	0,60
	E26.3	37,1	47	167	50	63 - 250	2,00
4-chamber 	E300.3	48,5	46	170	64	75 - 300	2,25
	E065.4	11,3	9	49,3	15	18 - 38	0,60

 easy chain® - Version "Z" Split crossbar along inner radius 1 / 2 / 3-chamber system							
1-chamber 	Z045	9,4	16	23	12,5	18 - 38	0,40
	Z06	10,5	10 - 20	16,5 - 26,5	15	18 - 38	0,55
	Z08	14,6	10 - 50	18,2 - 58,2	19,3	28 - 48	1,00
	Z14	19	15 - 50	27 - 62	25	28 - 125	0,65
	Z200	24,3	57	74,4	35	55 - 200	1,75
	Z16	32	23 - 100	37,5 - 115,3	39	40 - 100	1,00
	Z26	36,5	75	92	50	63 - 250	2,00
	Z300	48,5	75	95	64	75 - 300	2,25
	Z045.2	9,4	16	23	12,5	18 - 38	0,40
	Z200.2	24,3	37 - 50	94,4 - 120,4	35	55 - 200	1,75
2-chamber 	Z26.2	37,1	48	117	50	63 - 250	2,00
	Z300.2	48,5	48	120	64	75 - 300	2,25
	Z045.3	9,4	9	37	12,5	18 - 38	0,40
	Z065.3	11,3	9	39,3	15	18 - 38	0,60
3-chamber 	Z26.3	37,1	47	167	50	63 - 250	2,00
	E300.3	48,5	46	170	64	75 - 300	2,25



Push and click, snap in pin



Release side link, twist and pull apart



Press in cable



Pull out cable

 **Technical data, overview** ► page 152

 **e-chain® links as single parts, overview** ► page 153

 **Configuration options and order keys, overview** ► page 154

 **Available from stock. Delivery time* in 24h or today!**
*Delivery time means time until shipping of goods (after technical release)

 You can find an assembly video on the web ► www.igus.eu/eu/video

Technical Data - easy chain®



Gliding speed / acceleration (maximum) max. 3 [m/s] / max. 10 [m/s²]



Speed / acceleration FL_G max. max. 20 [m/s] / max. 200 [m/s²]

Speed / acceleration FL_B max. max. 3 [m/s] / max. 6 [m/s²]



e-chain® material - permitted temperature °C, igumid NB -40° up to +80° C

Mounting brackets* material - permitted temperature °C, igumid G -40° up to +120° C



Flammability class: igumid NB = VDE 0304 IIC UL94-V2 / igumid G = VDE 0304 IIC UL94-HB

■ FL_G = with straight upper run ■ FL_B = with permitted sag

*Also available in igumid NB. Delivery time upon request!

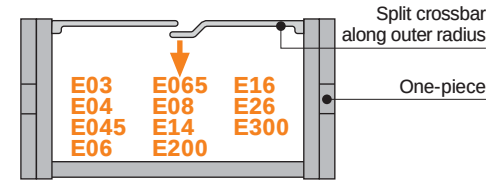
Installation methods overview, maximum travels - easy chain®

e-chain® Series	Unsupported application	Vertical hanging	Vertical standing	Side mounted unsupported	Rotary application	Zig-zag application
E03	≤ 0,40 m	upon request	upon request	upon request	with rework	upon request
E04	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
E045/Z045	≤ 0,40 m	upon request	upon request	upon request	with rework	upon request
E06/Z06	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
E065/Z065	≤ 0,60 m	upon request	upon request	upon request	with rework	upon request
E08/Z08	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request
E14/Z14	≤ 0,65 m	upon request	upon request	upon request	with rework	upon request
E200/Z200	≤ 1,75 m	≤ 10,00 m	≤ 1,50 m	≤ 0,50 m	with rework	upon request
E16/Z16	≤ 2,00 m	≤ 10,00 m	≤ 1,50 m	≤ 0,50 m	with rework	upon request
E26/Z26	≤ 2,00 m	≤ 10,00 m	≤ 1,50 m	≤ 0,50 m	with rework	upon request
E300/Z300	≤ 2,25 m	≤ 10,00 m	≤ 1,50 m	≤ 0,50 m	with rework	upon request



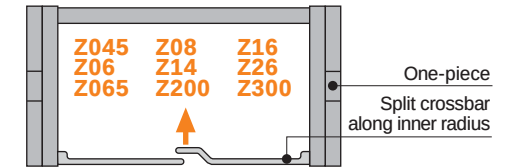
Part No. one- and two-piece e-chain® links as single parts - easy chain®

Version "E" - one-piece, split crossbar along outer radius



Supplement Part No. with required width index (*Bi*) and radius (*R*) e.g. E045.16.18.0

Version "Z" - one-piece, split crossbar along outer radius



Supplement Part No. with required width index (*Bi*) and radius (*R*) e.g. Z045.16.18.0



e-chain® Series One-piece e-chain® link Part No. e-chain® link

E03	Split crossbar along outer radius	E03. <i>Bi</i> . <i>R</i>
E04	Split crossbar along outer radius	E04. <i>Bi</i> . <i>R</i>
E045	Split crossbar along outer radius	E045. <i>Bi</i> . <i>R</i>
E06	Split crossbar along outer radius	E06. <i>Bi</i> . <i>R</i>
E065	Split crossbar along outer radius	E065. <i>Bi</i> . <i>R</i>
E08	Split crossbar along outer radius	E08. <i>Bi</i> . <i>R</i>
E14	Split crossbar along outer radius	E14. <i>Bi</i> . <i>R</i>
E200	Split crossbar along outer radius	E200. <i>Bi</i> . <i>R</i>
E16	Split crossbar along outer radius	E16. <i>Bi</i> . <i>R</i>
E26	Split crossbar along outer radius	E26. <i>Bi</i> . <i>R</i>
E300	Split crossbar along outer radius	E300. <i>Bi</i> . <i>R</i>



e-chain® Series One-piece e-chain® link Part No. e-chain® link

—	—	—
Z045	Split crossbar along inner radius	Z045. <i>Bi</i> . <i>R</i>
Z06	Split crossbar along inner radius	Z06. <i>Bi</i> . <i>R</i>
Z065	Split crossbar along inner radius	Z065. <i>Bi</i> . <i>R</i>
Z08	Split crossbar along inner radius	Z08. <i>Bi</i> . <i>R</i>
Z14	Split crossbar along inner radius	Z14. <i>Bi</i> . <i>R</i>
Z200	Split crossbar along inner radius	Z200. <i>Bi</i> . <i>R</i>
Z16	Split crossbar along inner radius	Z16. <i>Bi</i> . <i>R</i>
Z26	Split crossbar along inner radius	Z26. <i>Bi</i> . <i>R</i>
Z300	Split crossbar along inner radius	Z300. <i>Bi</i> . <i>R</i>



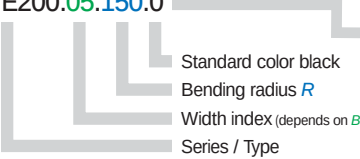
Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

	Standard	NC-Version - (no camber) without pretension	Reverse bending radius for circular movements	ESD / ATEX classified e-chains® 
Part No. Standard e-chains® 	Part No. NC-Version e-chains®  	Part No. RBR e-chains® 	Part No. ESD-Material e-chains® 	
 E200.05.R.0	E200.05.R.0.NC	E200.05.R1/R2.0	E200.05.R.0.ESD	
 Delivery time* 24h or today!	Delivery time* 2-5 work days	Delivery time* 5-10 work days	Delivery time* 10 work days	
*Delivery time means time until shipping of goods (after technical release)		(2-5 work days with express surcharge)		

Order example | Order key and color options

	Order example for complete e-chain® Series E200 (1,0 m), color black, with mounting brackets:		
e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 22 links	E200.05.150.0	
+ Mounting brackets	1 set (+ tiewrap plates)	2050.34PZ	
Order text: 1,0 m E200.05.150.0 + 2050.34PZ			

	Order key E200.05.150.0	General igus® color options for e-chains® and e-tubes			
		Color	Order index	Color	Order index
		Black Standard, from stock!	.0	White special color	.1
		Slate grey only ESD material	.ESD	Gray white special color	.1S
		Gray brown only HT material	.HT	Orange special color	.2
		Gray special color only e-chains®	.3	Yellow special color	.4
		Dusty grey special color only e-tubes	.31	Light grey special color	.14
Black e-chains® available from stock!					
Delivery time* for special colors: from 5 work days					

 Available from stock. Delivery time* in 24h or today!
*Delivery time means time until shipping of goods (after technical release)



Data glove with easy chain® Series E03 - Protect the sensors which makes it easier to take off an put on the gloves. Inner height of only 5 mm

Quick assembly with ESD!

easy chain® also available as ESD version ● Easy to fill on the outer-/inner radius ● Access to the cables without opening and closing of lids ● Cost-effective one piece design e-chain® ● Interior separation available ● Mounting brackets with integrated strain relief. More information ► www.igus.eu/eu/esd



Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

Save time:
Simply press
cables in

Cost effective:
Low price with
one-piece design

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Secure:
"Push-button principle"
for better stability



Original size 1:1
Outer height 8 mm

+ Simply press cables in, for smallest spaces

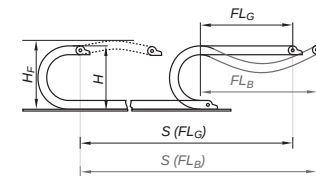
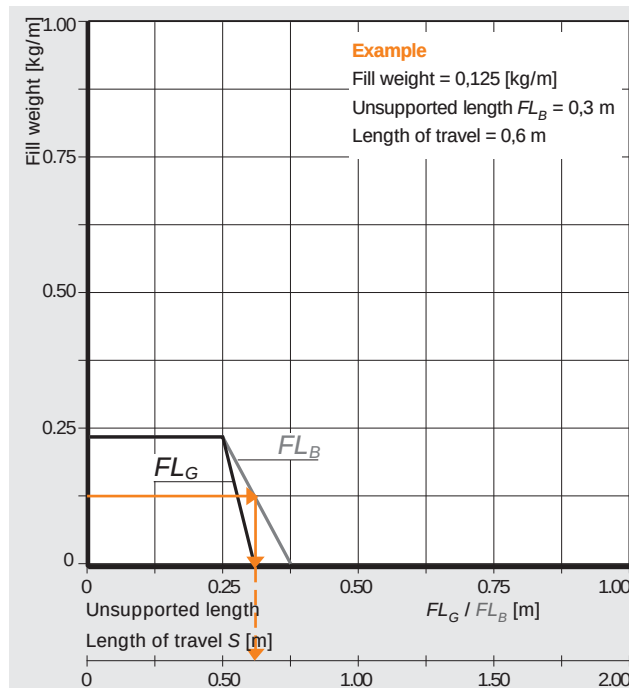
When to use Series E03:

- igus® smallest e-chain® - inner dimensions: 5 x 5 mm
- If a very small e-chain® with an inner height of 5 mm and smallest bending radii are required
- For inner widths up to 10 mm
- For unsupported lengths up to 0,40 m and fill weights up to 0,24 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required



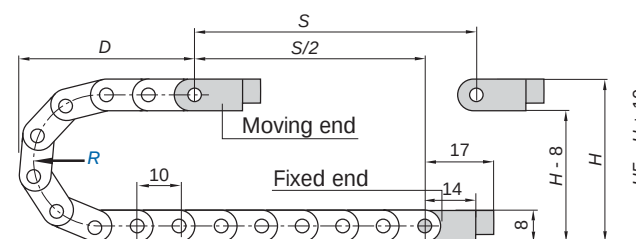
When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- ▶ Series 04 E2 micro, page 306
- If a non-opening e-chain® is required
- ▶ Series 03 E2 micro, page 302



Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ▶ Design, page 95



Technical Data

Speed, material, temperature and flammability class ▶ page 152

Pitch = 10 mm/link
Links/m = 100 (1000 mm)
Chain length = $\frac{S}{2} + K$

R	010	012	015	018	028
H	28	32	38	44	64
D	29	31	34	37	47
K	55	60	70	80	110

The required clearance height: $H_F = H + 10$ mm (with 0,1 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

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3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/E03



Series E03 | Split crossbar along outer radius

Split crossbar along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
E03.05. <i>R</i> .0 ¹⁾	5	8,7	010 012 015 018 028	≈ 0,03
E03.07. <i>R</i> .0 ²⁾	7	10,7	010 012 015 018 028	≈ 0,04
E03.10. <i>R</i> .0 ²⁾	10	13,7	010 012 015 018 028	≈ 0,05

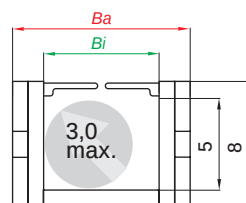
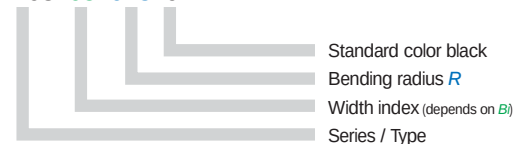
1) **Crossbars do not overlap!** Gap = 1 mm 2) **Crossbars do not overlap!** Gap = 2 mm

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

Supplement Part No. with required radius (*R*) Example: E03.05.028.0



Order key
E03. 05. 028. 0

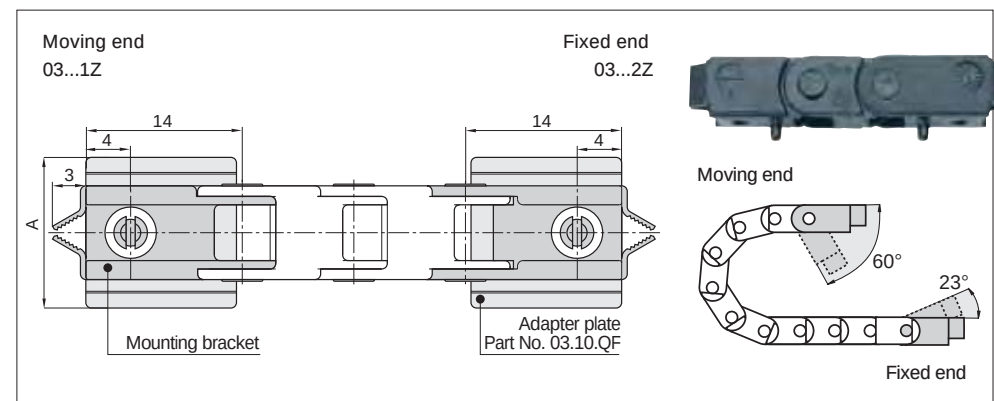


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

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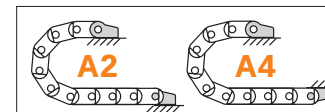
Polymer pivoting, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set	Dim. A [mm]
.05. ►	03.05. 12Z	8,7
.07. ►	03.07. 12Z	10,7
.10. ►	03.10. 12Z	13,7

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



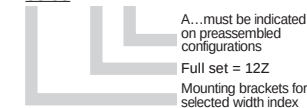
- One-piece mounting bracket
- With integrated strain relief
- Corrosion-resistant
- Adapter plate for rapid installation



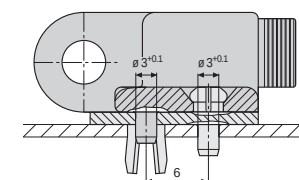
Possible installation conditions:
For the preassembled mode
please add index **A2** or **A4**
► e.g. 03.05.1Z**A2**

Part No. structure

03.05. 12Z **A2**



Additional Features



Adapter plate for rapid installation: for all sizes of Part No. 03.10.QF

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

Single-part order

Mounting bracket Moving end

03.05. 1Z **A2** (preassembled)

Mounting bracket Fixed end

03.05. 2Z **A2** (preassembled)

Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

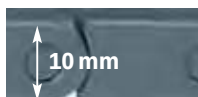
Save time:
Simply press
cables in

Cost-effective:
Low price with
one-piece design

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Secure:
"Push-button principle"
for better stability



Original size 1:1
Outer height 10 mm

+ Simply press cables in, low weight

When to use Series E04:

- Small igus® e-chain® -
Inner dimensions: 7 x 7 mm
- If a small e-chain® with an inner height
of 7,0 mm and small bending radii
is required
- For unsupported lengths up to 0,55 m
and fill weights up to 0,35 kg/m
- If easy filling without opening
and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective
e-chain® is required
- For high accelerations

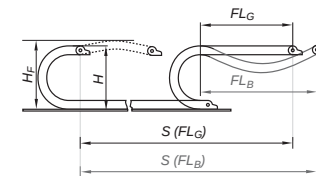
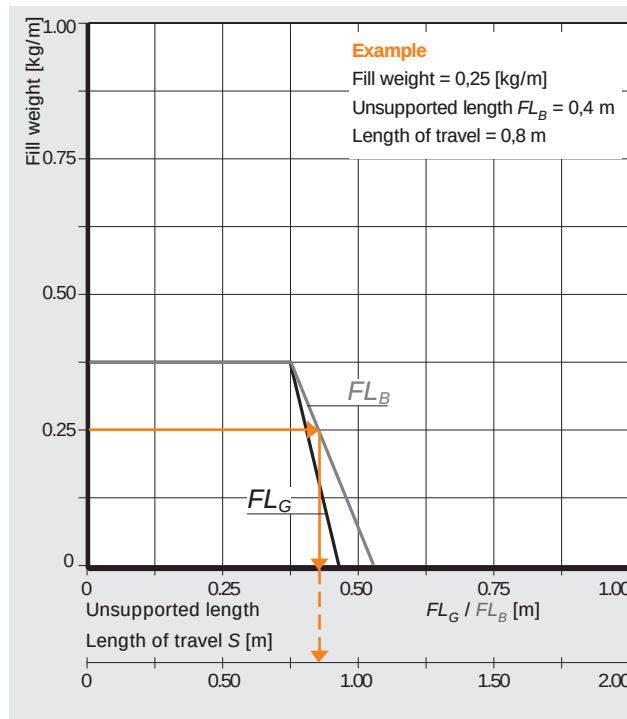


When to use a different igus® Series:

- If very high loads and long
unsupported travels occur
► Series 06 E2 micro, page 318
- If a non-opening e-chain® is required
► Series 04 E2 micro, page 306



Special solution with opening gap 0,8 mm:
Part No. E04.07.015.0.S



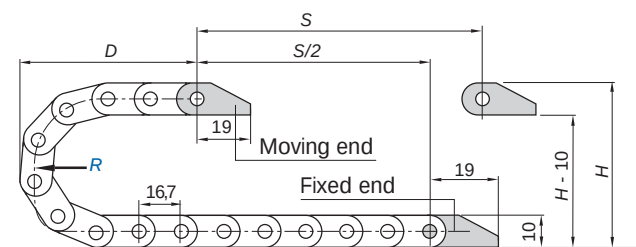
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 16,7 mm/link
Links/m = 60 (1002 mm)
Chain length = $\frac{S}{2} + K$



R	015	018	028	038	048
H	40	46	66	86	106
D	45	48	58	68	78
K	85	90	125	155	185

The required clearance height: $H_F = H + 10$ mm (with 0,1 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!
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3D-CAD files, configurators, PDF ► www.igus.eu/eu/E04



Series E04 | Split crossbar along outer radius

Split crossbar along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
E04.07. <i>R</i> .0 ¹⁾	7	13	015 018 028 038 048	~ 0,08

1) **Crossbars do not overlap!** Gap = 2,5 mm

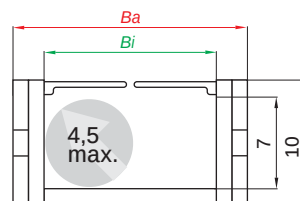
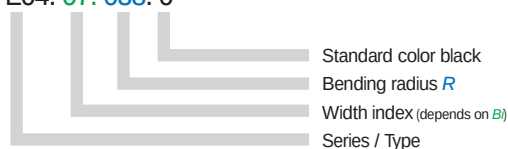
Special solution with opening gap 0,8 mm: Part No. E04.07.015.0.S available

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

Supplement Part No. with required radius (*R*) Example: E04.07.038.0



Order key
E04. 07. 038. 0

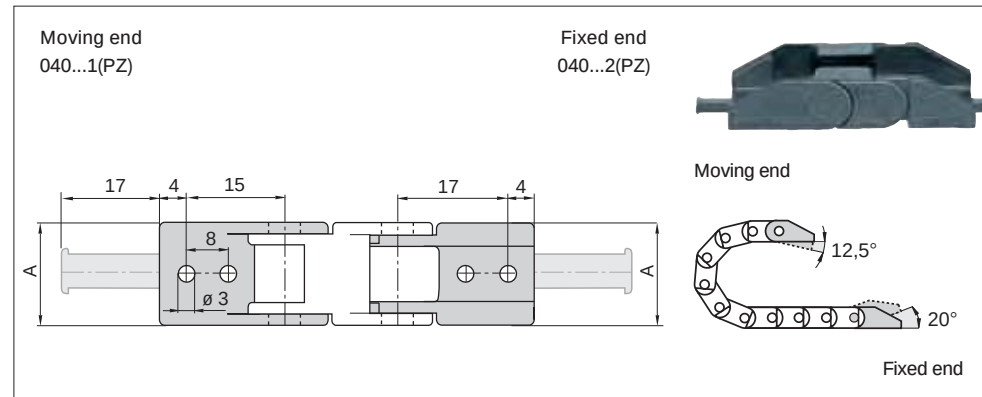


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

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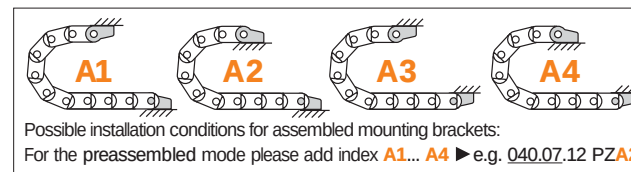
Polymer pivoting, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Number of teeth
.07. ►	040.07.12PZ	040.07.12	12	1

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Additional Features



Quicksnap - the complete, detachable mounting unit. Part No. 040.07.QS
available from stock



Quickfix - mounting bracket with dowel, available from stock

Part No. structure

040.07.12 PZ **A2**



Single-part order

Mounting bracket Moving end

040.07.1 PZ **A2** (preass. + tiewrap plate)

Mounting bracket Fixed end

040.07.2PZ **A2** (preass. + tiewrap plate)



Universal:
Mounting bracket with
strain relief option

Save time:
Simply press
cables in

Cleanroom:
Suitable for clean-
room applications

Cost-effective:
Low price with
one-piece design

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")



Original size 1:1
Outer height 12,5 mm

+ Simply press cables in, small pitch, smooth running

When to use Series E045·Z045:

- If a small e-chain® with an inner height of 9,4 mm and small pitch is required
- For inner widths up to 27 mm
- For unsupported lengths up to 0,4 m and fill weights up to 0,25 kg/m
- If easy filling without opening and closing of lids is required
- Small pitch for low-noise, smooth running
- If a lightweight and cost-effective e-chain® is required

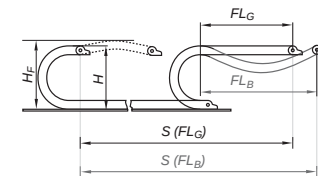
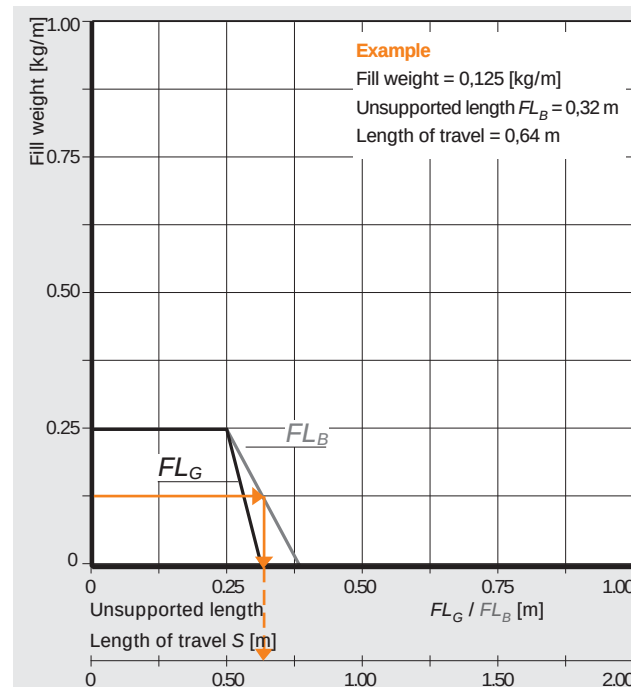


When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- Series 06 E2 micro, page 318
- If high stability is required
- Series 06 E2 micro, page 318



1-, 2- or 3- moulded-in
chamber system available



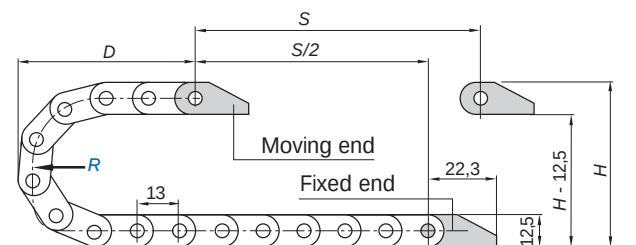
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 13 mm/link
Links/m = 77 (1001 mm)
Chain length = $\frac{S}{2} + K$



R	018	028	038
H	48,5	68,5	88,5
D	44	54	64
K	85	115	150

The required clearance height: $H_F = H + 10$ mm (with 0,1 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E045



Series E045 | Split crossbar along outer radius | 1 / 2 / 3- chamber system

Series Z045 | Split crossbar along inner radius | 1 / 2- chamber system

Chamber system	Split crossbar along outer radius	Split crossbar along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	Weight [kg/m]
1-chamber	E045.10.R.0 ¹⁾	Z045.10.R.0 ¹⁾ *	10	16	018 028 038	≈ 0,09
	E045.16.R.0	Z045.16.R.0	16	23	018 028 038	≈ 0,11



1) Crossbars do not overlap! Gap = 2 mm

2-chamber	E045.2/7.R.0 ²⁾	Z045.2/7.R.0 ²⁾	7 / 7	23	018 028 038	≈ 0,13
	E045.2/9.R.0 ²⁾	Z045.2/9.R.0 ²⁾ *	9 / 9	27	018 028 038	≈ 0,14



2) Crossbars do not overlap! Gap = 2,25 mm

3-chamber	E045.3/9.R.0 ³⁾	Z045.3/9.R.0 ³⁾ *	9 / 9 / 9	37	018 028 038	≈ 0,17
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3) Crossbars do not overlap! Gap = 2,25 mm

Ba: pin dimension approx. 0,1 - 0,3 mm wider! *Width available upon request, please consult igus® for delivery time.

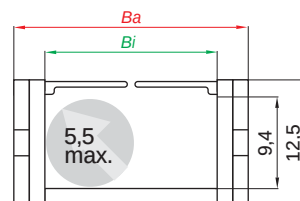
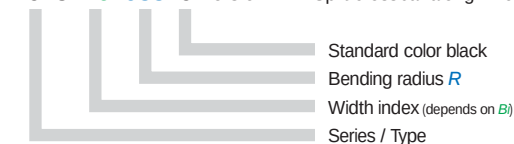
Supplement Part No. with required radius (R) Example: E045.16.038.0



Order key

E045. 16. 038. 0 Version "E"- Split crossbar along outer radius

Z045. 16. 038. 0 Version "Z"- Split crossbar along inner radius

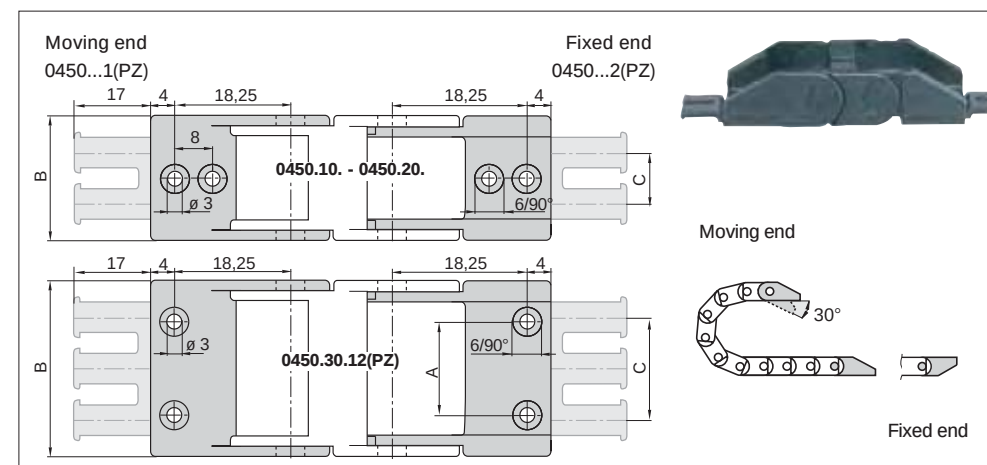


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



Polymer one-piece, one side pivoting | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Number of teeth
.10. ►	0450.10.12PZ	0450.10.12	—	16	—	1
.16. ►	0450.16.12PZ	0450.16.12	—	22	10	2
.2/7. ►	0450.16.12PZ	0450.16.12	—	22	10	2
.2/9. ►	0450.20.12PZ	0450.20.12	—	26	10	2
.3/7. ►	0450.30.12PZ	0450.30.12	22	36	20	3

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB

0450.10. - 0450.20. center bores only / 0450.30. outer bores only

Mounting bracket with strain relief tiewrap plate has reductions of ø 3 mm / ø 6 mm, 90°.

Mounting bracket without strain relief tiewrap plate only has holes of ø 3 mm.



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure

0450.10.12 PZ A2



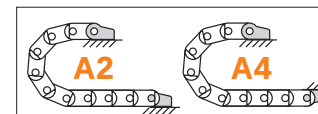
Single-part order

Mounting bracket Moving end

0450.10.1 PZ A2 (preass. + tiewrap plate)

Mounting bracket Fixed end

0450.10.2PZ A2 (preass. + tiewrap plate)



Possible installation conditions:
For the preassembled mode
please add index A2 or A4
► e.g. 045.10.12A2



Version E Version Z

Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

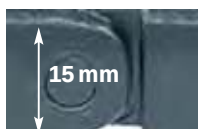
Cost-effective:
Low price with
one-piece design

Save time:
Simply press
cables in

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")



Original size 1:1
Outer height 15 mm

+ Simply press cables in, low weight

When to use Series E06·Z06:

- If a small e-chain® with an inner height of 10,7 mm (Version E) or 10,5 mm (Version Z) and small bending radii is required
- For inner widths up to 20 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,45 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required

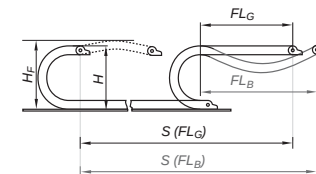
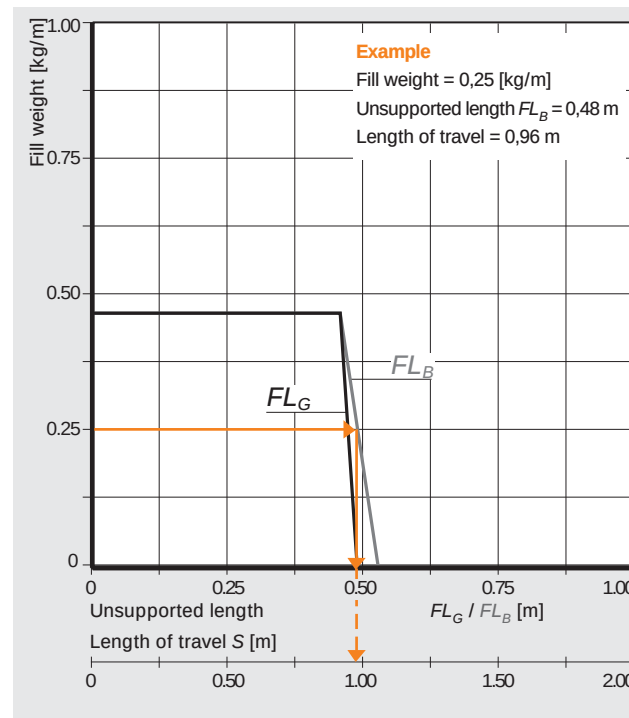


When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- Series 06 E2 micro, page 318
- If a non-opening e-chain® is required
- Series 04 E2 micro, page 306
- Version Z not suitable for gliding applications
- Series 07 zipper, page 242



Special solution with opening gap 3,5 mm
Part No. E06.10.018.0.S3



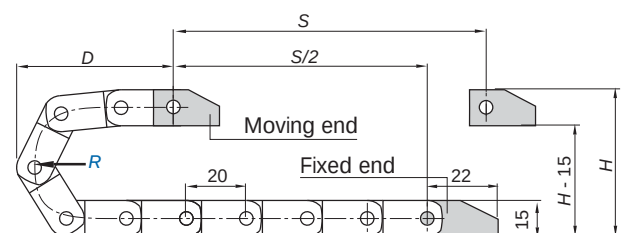
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $S/2 + K$



R	018	028	038
H	51	71	91
D	56	66	76
K	100	130	160

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius
H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E06



Series E06 | Split crossbar along outer radius

Series Z06 | Split crossbar along inner radius

 Split crossbar along outer radius	Split crossbar along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
E06.10 .R.0 ¹⁾	Z06.10 .R.0 ¹⁾	10	16,5	018 028 038	≈ 0,14
E06.16 .R.0 ¹⁾	Z06.16 .R.0 ¹⁾	16	22,5	018 028 038	≈ 0,16
E06.20 .R.0	Z06.20 .R.0	20	26,5	018 028 038	≈ 0,18

1) Crossbars do not overlap! Gap = 5,5 mm

Special solution with opening gap 3,5 mm Part No. E06.10.018.0.S3

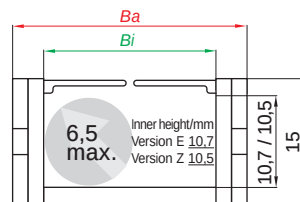
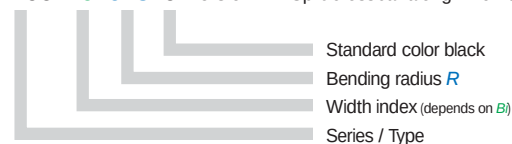
Ba: pin dimension approx. 0,2 - 0,4 mm wider!

Supplement Part No. with required radius (*R*) Example: E06.10.018.0



Order key

E06.10.018.0 Version "E" Split crossbar along outer radius
Z06.10.018.0 Version "Z" Split crossbar along inner radius

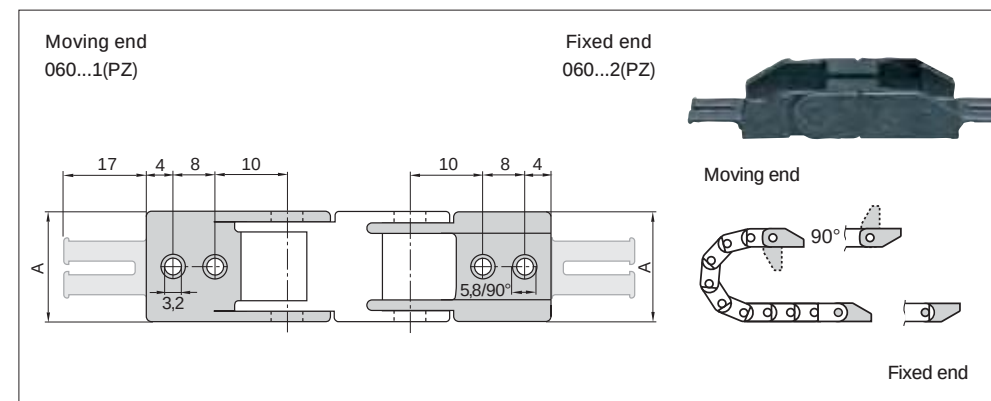


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



Polymer locking, one-piece | Universal for e-chains®

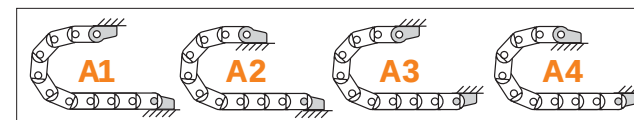
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Number of teeth
.10. ►	060.10.12PZ	060.10.12	16,5	1
.16. ►	060.16.12PZ	060.16.12	22,5	2
.20. ►	060.20.12PZ	060.20.12	27,0	2

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Possible installation conditions for assembled mounting brackets:
For the preassembled mode please add index **A1... A4** ► e.g. 060.10.12PZ**A1**

Additional Features



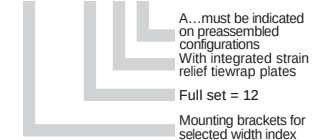
Quicksnap - the complete, detachable mounting unit. Part No. 060.10.QS, Part No. 060.16.QS, Part No. 060.20.QS, Part No. 060.40.QS available from stock



Quickfix - mounting bracket with dowel, available from stock

Part No. structure

060.10.12 PZ **A1**



Single-part order

Mounting bracket Moving end

060.10.1 PZ **A1** (preass. + tiewrap plate)

Mounting bracket Fixed end

060.10.2 PZ **A1** (preass. + tiewrap plate)



Universal:
Mounting bracket with
strain relief option

Save time:
Simply press
cables in

Cost-effective:
Low price with
one-piece design

Cleanroom:
Suitable for clean-
room applications

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")



Original size 1:1
Outer height 12,5 mm

+ Simply press cables in, very small pitch, smooth running

When to use Series E065-Z065:

- If a small e-chain® with an inner height of 11,3 mm and small pitch is required
- For inner widths up to 36 mm
- For unsupported lengths up to 0,6 m and fill weights up to 0,45 kg/m
- If easy filling without opening and closing of lids is required
- Small pitch for low-noise, smooth running
- If a lightweight and cost-effective e-chain® is required

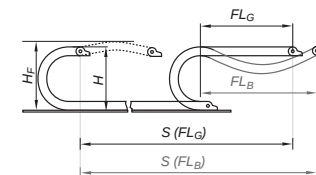
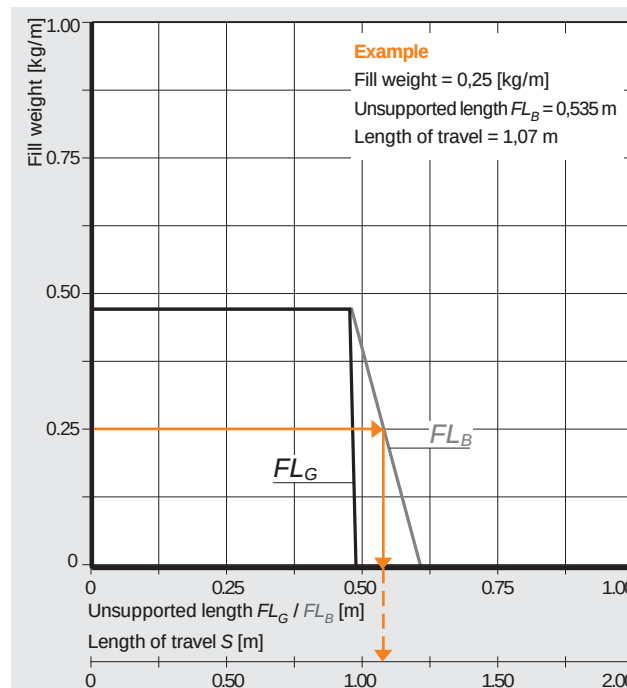


When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- Series 06 E2 micro, page 318
- If high stability is required
- Series 06 E2 micro, page 318



1-, 2-, 3- or 4- moulded-in
chamber system available



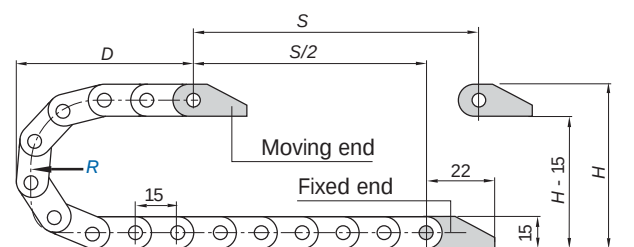
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 15 mm/link
Links/m = 67 (1005 mm)
Chain length = $S/2 + K$



R	018	028	038
H	51	71	91
D	48	58	68
K	90	120	150

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E065



Series E065 | Split crossbar along outer radius | 1 / 2 / 3 / 4- chamber system
 Series Z065 | Split crossbar along inner radius | 3-chamber system

Chamber system	Split crossbar along outer radius	Split crossbar along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	Weight [kg/m]
1-chamber	E065.16.R.0 ¹⁾	Z065.16.R.0 ¹⁾ *	16	24,8	018 028 038	≈ 0,17
2-chamber	E065.2/9.R.0 ²⁾	Z065.2/9.R.0 ²⁾ *	9 / 9	29,3	018 028 038	≈ 0,19
3-chamber	E065.3/9.R.0 ³⁾	Z065.3/9.R.0 ³⁾	9 / 9 / 9	39,3	018 028 038	≈ 0,22
4-chamber	E065.4/9.R.0 ⁴⁾	Z065.4/9.R.0 ⁴⁾ *	9 / 9 / 9 / 9	49,3	018 028 038	≈ 0,25

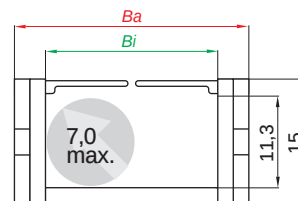
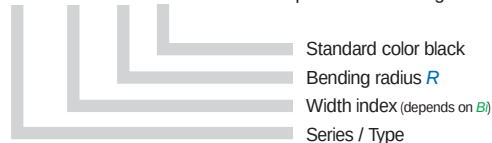
Ba: pin dimension approx. 0,2 - 0,4 mm wider! *Width available upon request, please consult igus® for delivery time.

Supplement Part No. with required radius (R) Example: E065.16.038.0



Order key

E065. 16. 038. 0 Version "E" Split crossbar along outer radius
 Z065. 16. 038. 0 Version "Z" Split crossbar along inner radius

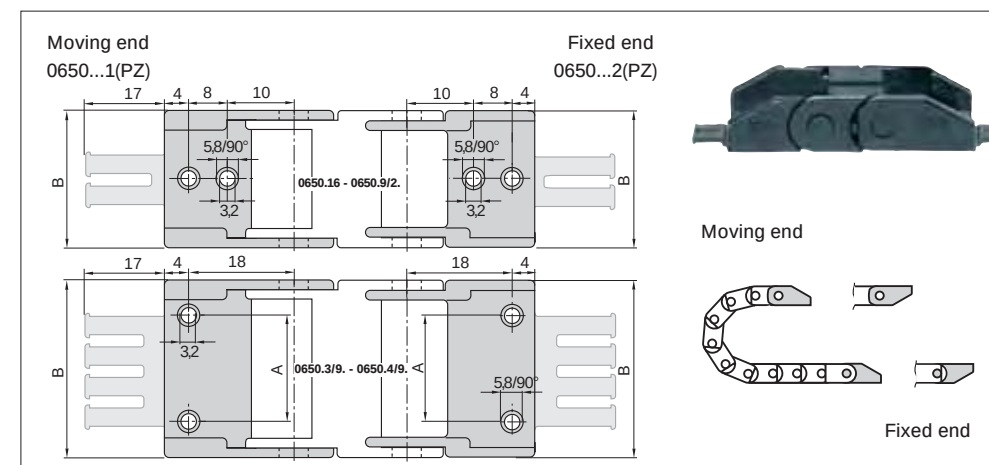


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

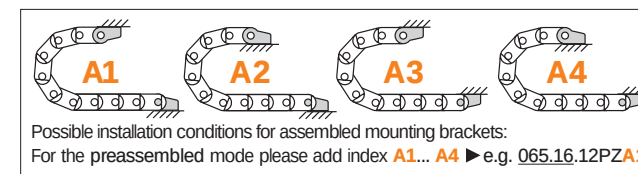


Polymer locking, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.16. ►	0650.16.12PZ	0650.16.12	—	22,5	2
.2/9. ►	0650.2/9.12PZ	0650.2/9.12	—	27	2
.3/9. ►	0650.3/9.12PZ	0650.3/9.12	22	37	3
.4/9. ►	0650.4/9.12PZ	0650.4/9.12	32	47	4

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB

0650.16 - 0650.9/2. center bores only / 0650.3/9. - 0650.4/9. outer bores only



Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index A1... A4 ► e.g. 065.16.12PZA1



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure

0650.16.12 PZ A2

A...must be indicated on preassembled configurations
 With integrated strain relief tiewrap plates
 Full set = 12
 Mounting brackets for selected width index

Single-part order

Mounting bracket Moving end

0650.16.1 PZ A2 (preass. + tiewrap plate)

Mounting bracket Fixed end

0650.16.2PZ A2 (preass. + tiewrap plate)

Additional Features



Quicksnap - the complete, detachable mounting unit, available from stock



Quickfix - mounting bracket with dowel, available from stock



Version E Version Z

Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

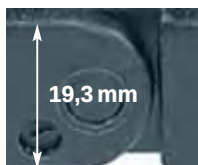
Cost-effective:
Low price with
one-piece design

Save time:
Simply press
cables in

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")



Original size 1:1
Outer height 19,3 mm

+ Simply press cables in, small pitch

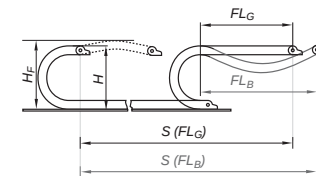
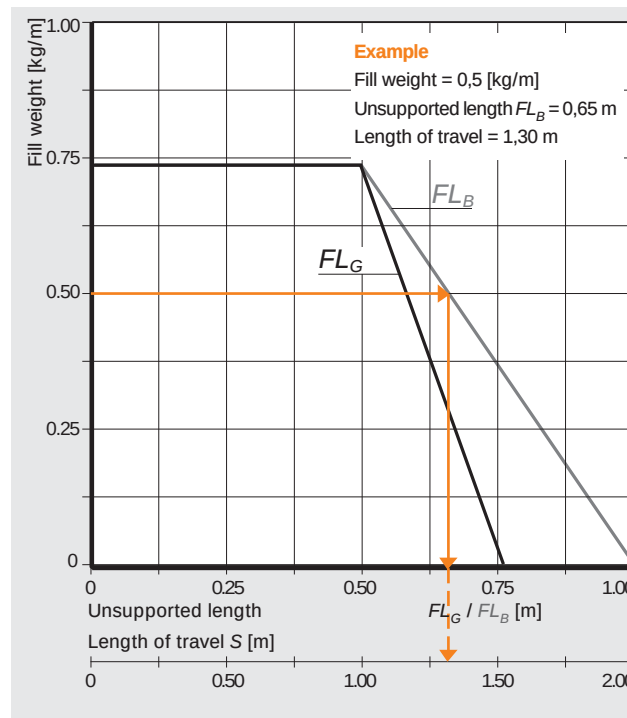
When to use Series E08·Z08:

- If a small e-chain® with an inner height of 14,6 mm (Version E) or 14,7 mm (Version Z) and small bending radii is required
- For inner widths up to 50 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required



When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- Series 09 zipper, page 250
- Version Z not suitable for gliding applications
- Series 09 zipper, page 250



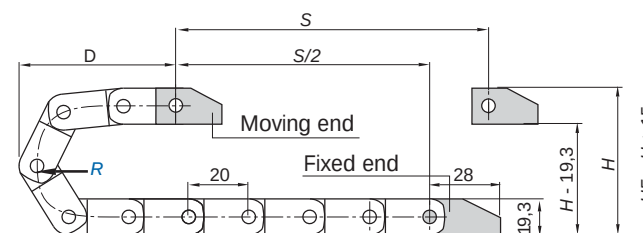
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $S/2 + K$



R	025*	028	038	048
H	69	75	95	115
D	65	68	78	88
K	120	130	160	195

The required clearance height: $H_F = H + 15$ mm (with 0,3 kg/m fill weight)

*Radius available upon request, please consult igus® for delivery time.



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius
H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"

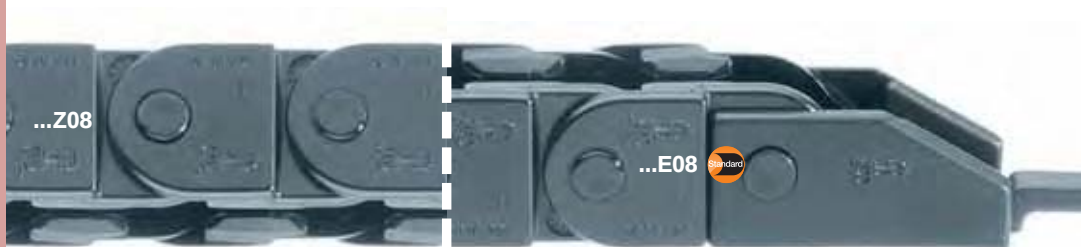


Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E08



Series E08 | Split crossbar along outer radius

Series Z08 | Split crossbar along inner radius

Split crossbar along outer radius	Split crossbar along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
E08.10. <i>R</i> .0 ¹⁾	Z08.10. <i>R</i> .0 ¹⁾	10	18,2	025* 028 038 048	≈ 0,21
E08.16. <i>R</i> .0 ²⁾	Z08.16. <i>R</i> .0 ²⁾	16	24,2	025* 028 038 048	≈ 0,24
E08.20. <i>R</i> .0	Z08.20. <i>R</i> .0	20	28,2	025* 028 038 048	≈ 0,25
E08.30. <i>R</i> .0	Z08.30. <i>R</i> .0	30	38,2	025* 028 038 048	≈ 0,28
E08.40. <i>R</i> .0	Z08.40. <i>R</i> .0	40	48,2	025* 028 038 048	≈ 0,31
E08.50. <i>R</i> .0	Z08.50. <i>R</i> .0	50	58,2	025* 028 038 048	≈ 0,37

1) Crossbars do not overlap! Gap = 5,5 mm 2) Crossbars do not overlap! Gap = 4 mm

Ba: pin dimension approx. 0,3 - 0,5 mm wider!

*Radius available upon request, please consult igus® for delivery time.

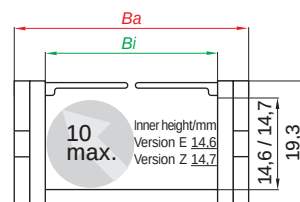
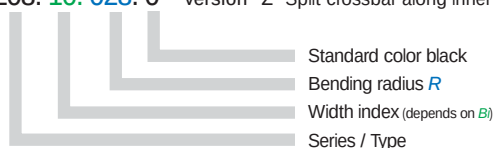
Supplement Part No. with required radius (*R*) Example: E08.10.028.0



Order key

E08. 10. 028. 0 Version "E" Split crossbar along outer radius

Z08. 10. 028. 0 Version "Z" Split crossbar along inner radius

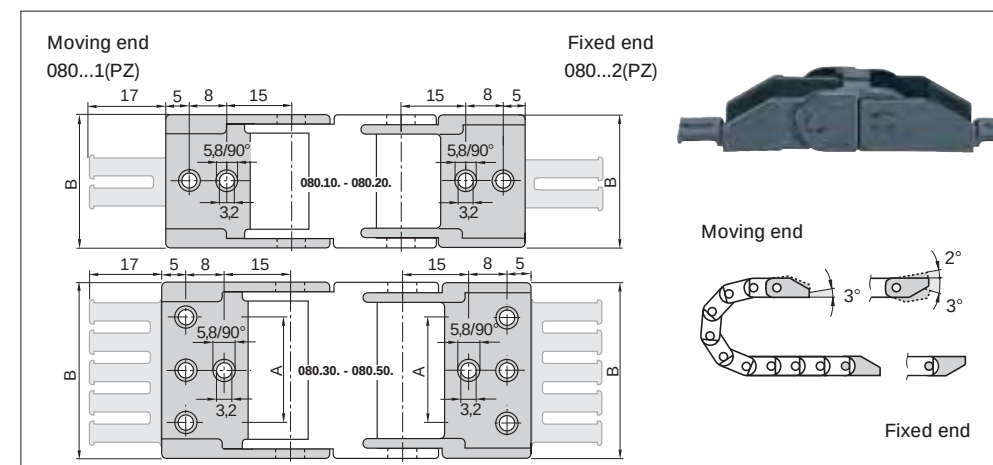


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



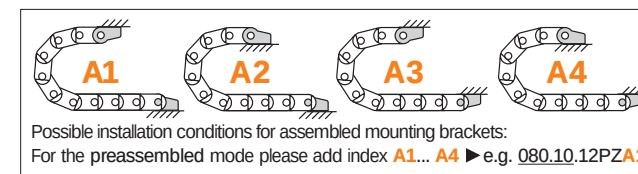
Polymer locking, one-piece | Universal for e-chains®

Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.10. ►	080.10. 12PZ	080.10. 12	—	18,2	1
.16. ►	080.16. 12PZ	080.16. 12	—	24,2	2
.20. ►	080.20. 12PZ	080.20. 12	—	28,2	2
.30. ►	080.30. 12PZ	080.30. 12	22	38,2	3
.40. ►	080.40. 12PZ	080.40. 12	32	48,2	4
.50. ►	080.50. 12PZ	080.50. 12	42	58,2	5

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB

080.10. - 080.20. center bores only / 080.30. - 080.50. all bores



Additional Features



Quicksnap - the complete, detachable mounting unit, available from stock

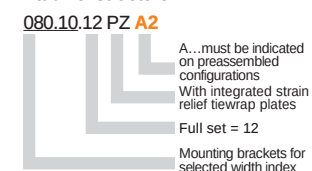


Quickfix - mounting bracket with dowel, available from stock



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure



Single-part order

Mounting bracket Moving end

080.10.1 PZ **A2** (preass. + tiewrap plate)

Mounting bracket Fixed end

080.10.2PZ **A2** (preass. + tiewrap plate)

Universal:
Mounting bracket with
strain relief option

Cleanroom ISO Class 2¹⁾:
Suitable for clean-
room applications

Cost-effective:
Low price with
one-piece design

Save time:
Simply press
cables in

Flexible:
Torsional motions
possible

Clean:
Dirt-repellent
exterior

Cable-friendly:
Cable conserving
interior

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")

+ Simply press cables in, cost-effective

When to use Series E14-Z14:

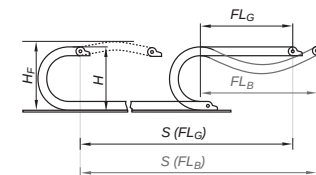
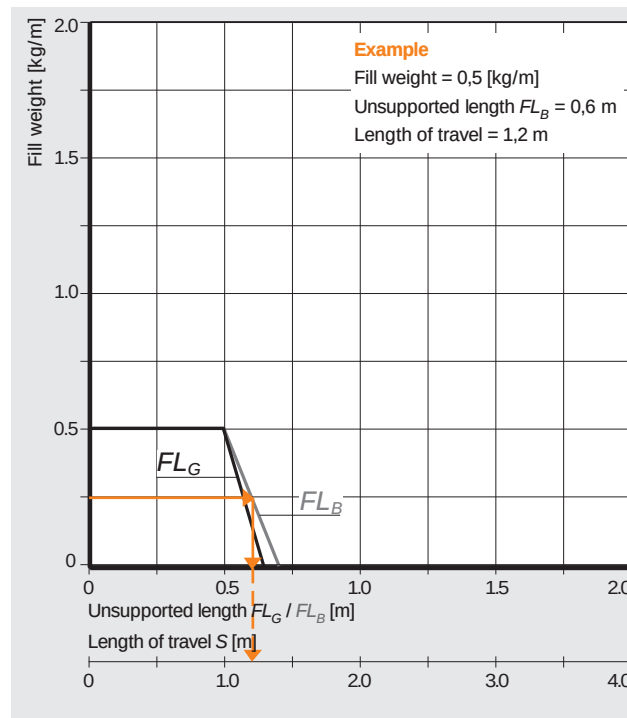
- If an e-chain® with an inner height of 19 mm and small bending radii is required
- For inner widths up to 50 mm
- For unsupported lengths up to 0,65 m and fill weights up to 0,5 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required

1) Cleanroom - Series E14.3.038.0, more details ► page 132



When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- Series B15 E2 mini, page 380
- Version Z not suitable for gliding applications
- Series B15 E2 mini, page 380



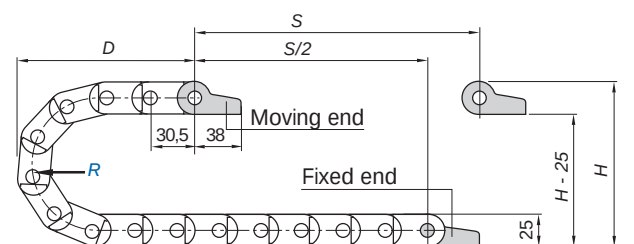
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 30,5 mm/link
Links/m = 33 (1.006,5 mm)
Chain length = $\frac{S}{2} + K$



R	028	038	048	075	100	125
H	81	101	121	175	225	275
D	86	96	106	133	158	183
K	150	185	215	300	380	455

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius
H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain, radius in final position
K = $\pi \cdot R$ + "safety"



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E14

Series E14 | Split crossbar along outer radiusSeries Z14 | Split crossbar along inner radius

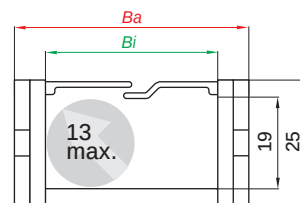
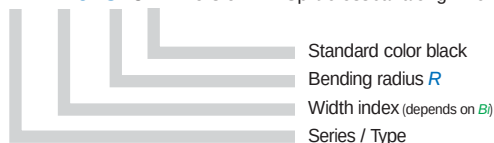
Split crossbar along outer radius	Split crossbar along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	Weight [kg/m]
E14.1.R.0	Z14.1.R.0	15	27	028 038 048 075 100 125	≈ 0,31
E14.2.R.0	Z14.2.R.0	25	37	028 038 048 075 100 125	≈ 0,32
E14.3.R.0	Z14.3.R.0	38	50	028 038 048 075 100 125	≈ 0,40
E14.4.R.0	Z14.4.R.0	50	62	028 038 048 075 100 125	≈ 0,44

Ba: pin dimension approx. 0,3 - 0,5 mm wider!

Supplement Part No. with required radius (R) Example: E14.1.028.0



Order key

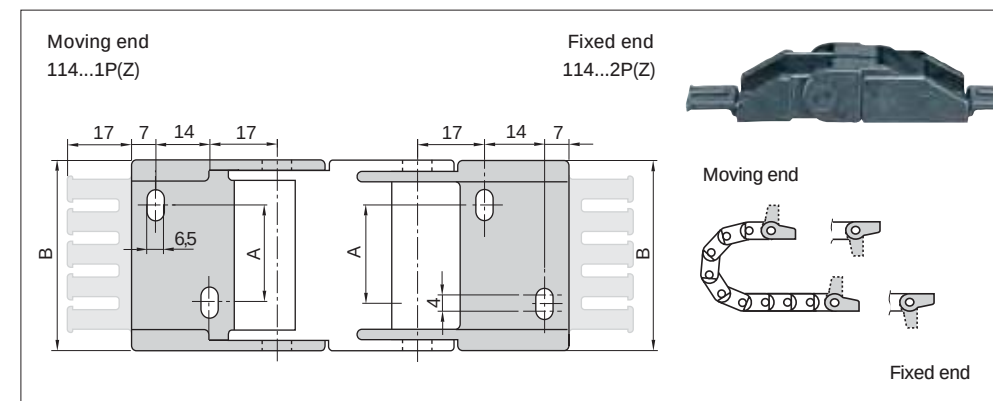
E14. 1. 028. 0
Z14. 1. 028. 0Version "E" Split crossbar along outer radius
Version "Z" Split crossbar along inner radius

Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

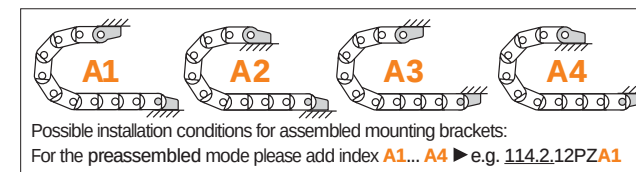
Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
1.	► 114.1.12PZ	114.1.12P	—	26,3	2
2.	► 114.2.12PZ	114.2.12P	10	36,3	3
3.	► 114.3.12PZ	114.3.12P	23	49,3	4
4.	► 114.4.12PZ	114.4.12P	35	61,3	5

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB

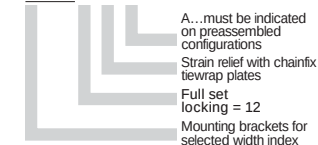


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Various installation options on the fixed end and/or the moving end
- Inner and outer attachment possible



Part No. structure

114.2.12PZA1



Single-part order

Mounting bracket Moving end

114.2.12PZA1 (preass. + tiewrap plate)

Mounting bracket Fixed end

114.2.12PZA1 (preass. + tiewrap plate)

Additional Features



Quicksnap - the complete, detachable mounting unit, available from stock



Quickfix - mounting bracket with dowel, available from stock

Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

Cost-effective:
Low price with
one-piece design

Save time:
Simply press cables in

Flexible:
Torsional motions
possible

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")

Cable-friendly:
Cable conserving
interior

Clean:
Dirt-repellent
exterior

+ Simply press cables in, medium size

When to use Series E200·Z200:

- If a medium-sized e-chain® with an inner height of 24,3 mm is required
- For inner widths up to 100 mm
- For unsupported lengths up to 1,75 m and fill weights up to 2,0 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required

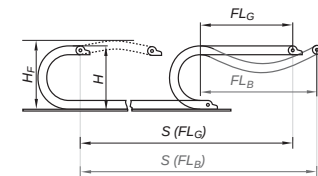
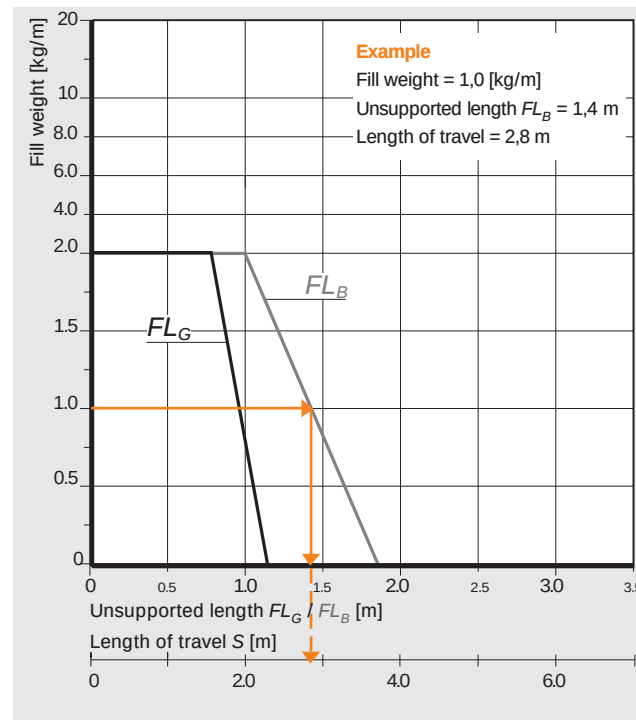


When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- E2/000 Series 2400/2450/2480/2500, page 426
- If single-extrusion crossbars are required
- E2/000 Series 2400/2450/2480/2500, page 426



1- or 2- moulded-in
chamber system available



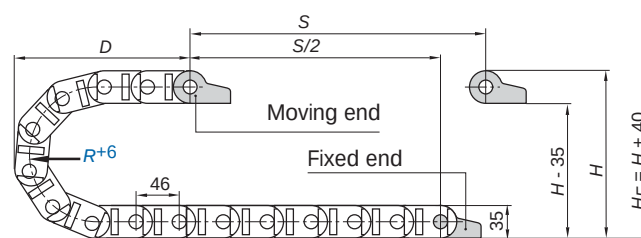
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 46 mm/link
Links/m = 22 (1012 mm)
Chain length = $\frac{S}{2} + K$



R	055	075	100	150	200
H +4	145	185	235	335	435
D	142	162	187	237	287
K	265	330	410	565	725

The required clearance height: $H_F = H + 40$ mm (with 2,0 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius
H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$

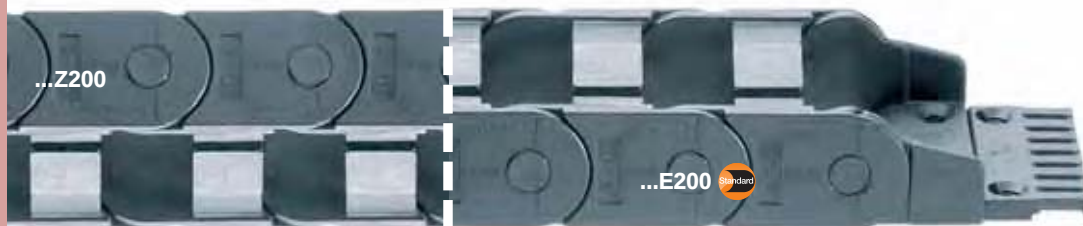


Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E200



Series E200 | Split crossbar along outer radius | 1 / 2 - chamber system

Series Z200 | Split crossbar along inner radius | 1 / 2 - chamber system

Chamber system	Split crossbar along outer radius	Split crossbar along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
1-chamber	E200.05. <i>R</i> .0	Z200.05. <i>R</i> .0	57	74,4	055 075 100 150 200	≈ 0,70
2-chamber	E200.2/35. <i>R</i> .0	Z200.2/35. <i>R</i> .0	37/37	94,4	055 075 100 150 200	≈ 0,79
	E200.2/50. <i>R</i> .0	Z200.2/50. <i>R</i> .0	50/50	120,4	055 075 100 150 200	≈ 0,82



Ba: pin dimension approx. 0,1 - 0,3 mm wider!

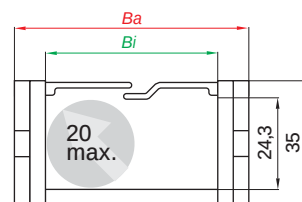
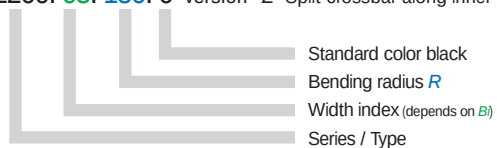
Supplement Part No. with required radius (*R*) Example: E200.05.150.0



Order key

E200. 05. 150. 0 Version "E" Split crossbar along outer radius

Z200. 05. 150. 0 Version "Z" Split crossbar along inner radius



Configuration options and order keys, overview ► page 154

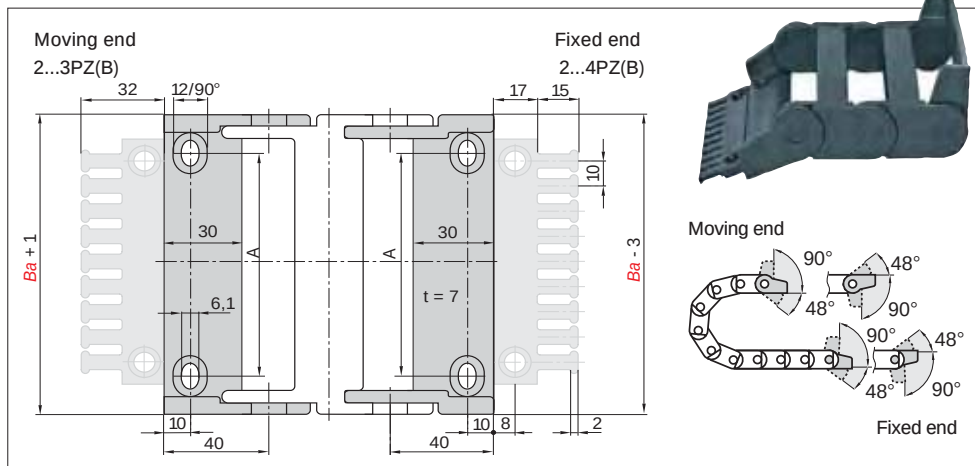


Available from stock. **Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)



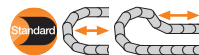
Machinery of all kinds feature igus® easy chains® - reduces assembly times



Polymer pivoting, one-piece | Standard | Universal for e-chains® Recommended for unsupported and gliding applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Part No. full set with tiewrap plate + 10 cable tiewraps	Dim. A [mm]	Number of teeth
.05. ▶	2050.34PZB	2050.34PZ	2050.34PZK1	44	6
.2/35. ▶	2070.34PZB	2070.34PZ	2070.34PZK1	64	8
.2/50. ▶	2100.34PZB	2100.34PZ	2100.34PZK1	90	10

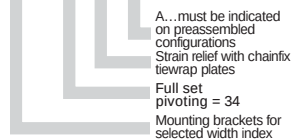
Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- Standard
- For tight installation conditions
- Strain relief with detachable tiewrap plates
- Corrosion-resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure

2050. 34 PZB **A1**



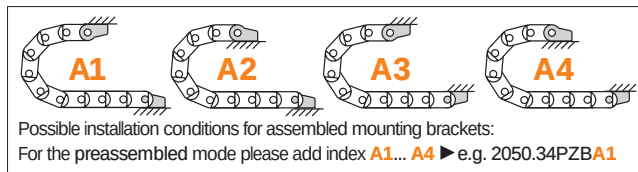
Single-part order

Mounting bracket Moving end

2050. 3 PZB+ **A1** (preass. + tiewrap plate)

Mounting bracket Fixed end

2050. 4 PZB **A1** (preass. + tiewrap plate)

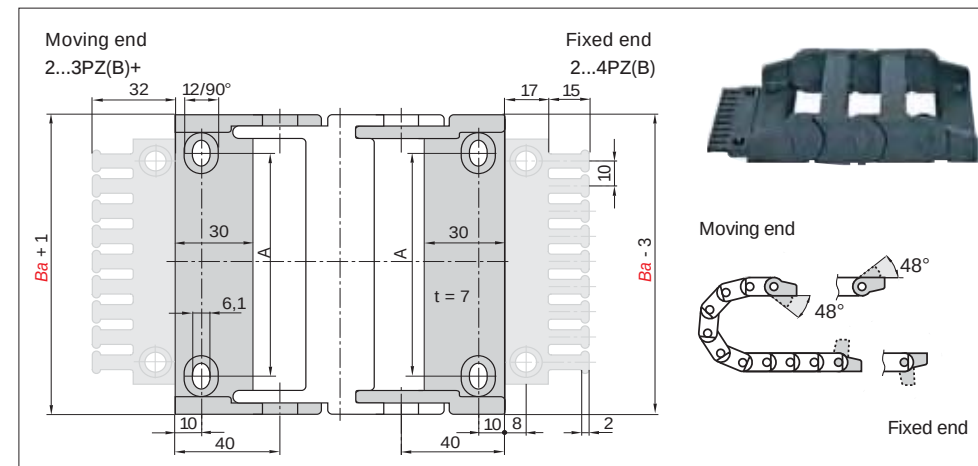


Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index **A1... A4** ▶ e.g. 2050.34PZB**A1**



Strain relief, e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 1148



Polymer locking | Universal for e-chains® Recommended for vertical hanging and standing applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Part No. full set with tiewrap plate + 10 cable tiewraps	Dim. A [mm]	Number of teeth
.05. ▶	2050.12PZB	2050.12PZ	2050.12PZK1	44	6
.2/35. ▶	2070.12PZB	2070.12PZ	2070.12PZK1	64	8
.2/50. ▶	2100.12PZB	2100.12PZ	2100.12PZK1	90	10

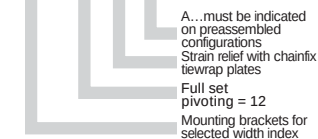
Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure

2050. 12 PZB **A1**



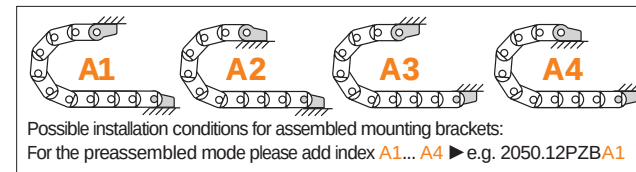
Single-part order

Mounting bracket Moving end

2050. 1 PZB **A1** (preass. + tiewrap plate)

Mounting bracket Fixed end

2050. 2 PZB **A1** (preass. + tiewrap plate)



Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index **A1... A4** ▶ e.g. 2050.12PZB**A1**



Strain relief, e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 1148



Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

Cost-effective:
Low price with
one-piece design

Save time:
Simply press
cables in

Flexible:
Torsional motions
possible

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")

Cable-friendly:
Cable conserving
interior

Clean:
Dirt-repellent
exterior

+ Simply press cables in, medium size

When to use Series E16-Z16:

- If a medium-sized e-chain® with an inner height of 32 mm is required
- For inner widths up to 100 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required



When to use a different igus® Series:

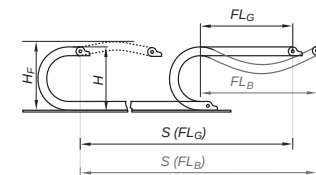
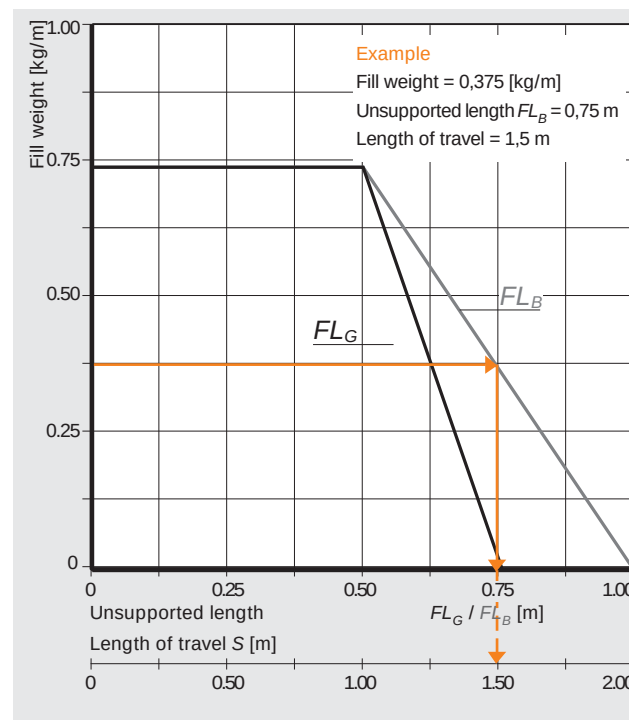
- If very high loads and long unsupported travels occur
- E2/000 Series 2600/2650/2680/2700, page 444
- If single-extrusion crossbars are required
- E2/000 Series 2600/2650/2680/2700, page 444



Special solution with opening gap 3 mm
Part No. E16.2.100.0N3 .0

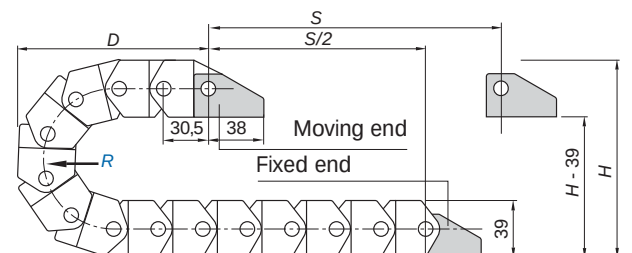


Special solution with opening gap 3 mm
Part No. Z16.2.075.0N3 .0



Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95



Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 30,5 mm/link
Links/m = 33 (1006,5mm)
Chain length = $\frac{S}{2} + K$

R	040 ¹⁾	060	075	100	125*
H	119	159	189	239	289
D	105	125	140	165	190
K	190	250	300	380	455

The required clearance height: $H_F = H + 15$ mm (with 0,3 kg/m fill weight)

1) Radius 040 available only for E16.2. / Z16.3 / Z16.4 *Radius available upon request, please consult igus® for delivery time.



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E16

Series E16 | Split crossbar along outer radiusSeries Z16 | Split crossbar along inner radius

Split crossbar along outer radius	Split crossbar along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
E16.2. <i>R</i> .0 ¹⁾	Z16.2. <i>R</i> .0	23	37,5	040 ¹⁾ 060 075 100 125*	≈ 0,51
E16.3. <i>R</i> .0	Z16.3. <i>R</i> .0 ¹⁾	36	50,5	040 ¹⁾ 060 075 100 125*	≈ 0,57
E16.4. <i>R</i> .0	Z16.4. <i>R</i> .0 ¹⁾	48	62,5	040 ¹⁾ 060 075 100 125*	≈ 0,62
E16.5. <i>R</i> .0	Z16.5. <i>R</i> .0	63	78,5	040* 060 075 100 125*	≈ 0,75
E16.6. <i>R</i> .0	Z16.6. <i>R</i> .0	80	95,5	040* 060 075 100 125*	≈ 0,83
E16.7. <i>R</i> .0	Z16.7. <i>R</i> .0	100	115,3	040* 060 075 100 125*	≈ 0,91

Special solution with opening gap 3 mm Part No. E16.2.100.0.N3, with opening gap 3 mm Part No. Z16.2.075.0.N3

Ba: pin dimension approx. 0,3 - 0,7 mm wider! 1) Radius 040 available only for E16.2. / Z16.3 / Z16.4

*Radius available upon request, please consult igus® for delivery time.

Supplement Part No. with required radius (*R*) Example: E16.3.060.0

Order key

E16.3.060.0

Version "E" Split crossbar along outer radius

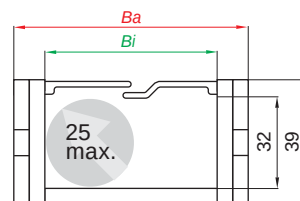
Z16.3.060.0

Version "Z" Split crossbar along inner radius

Standard color black

Bending radius *R*Width index (depends on *Bi*)

Series / Type

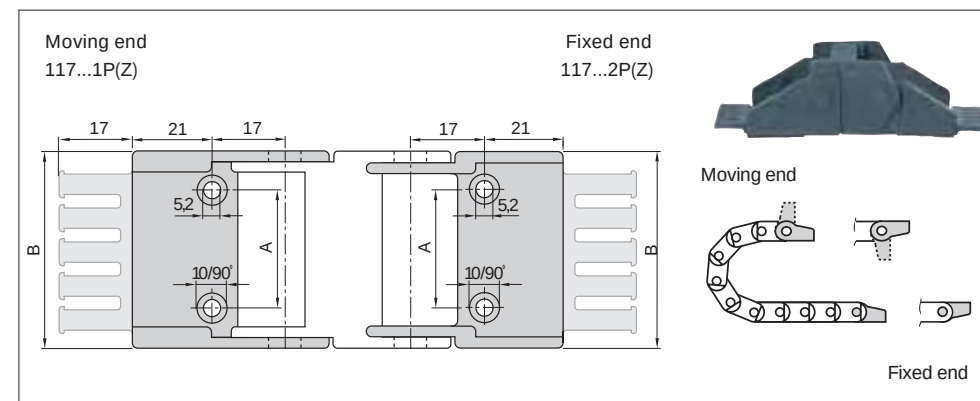


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

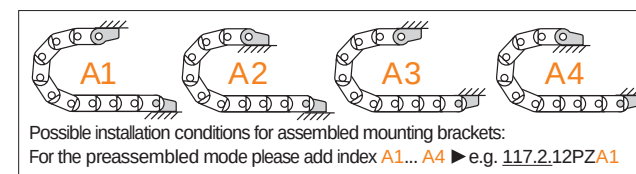
Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.2.	► 117.2.12PZ	117.2.12P	12	35,5	3
.3.	► 117.3.12PZ	117.3.12P	25	48,5	4
.4.	► 117.4.12PZ	117.4.12P	37	60,5	5
.5.	► 117.5.12PZ	117.5.12P	48	76,0	6
.6.	► 117.6.12PZ	117.6.12P	65	93,0	8
.7.	► 117.7.12PZ	117.7.12P	85	113,0	10

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Various installation options on the fixed end and/or the moving end
- Inner and outer attachment possible

Possible installation conditions for assembled mounting brackets:
For the preassembled mode please add index A1... A4 ► e.g. 117.2.12PZA1

Part No. structure

117.2.12PZA1

A... must be indicated on preassembled configurations
Strain relief with chainfix tiewrap plates
Full set locking = 12
Mounting brackets for selected width index

Single-part order

Mounting bracket Moving end

117.2.12PZA1 (preass. + tiewrap plate)

Mounting bracket Fixed end

117.2.12PZA1 (preass. + tiewrap plate)

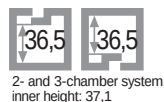
Additional Features



Quicksnap - the complete, detachable mounting unit, available from stock



Quickfix - mounting bracket with dowel, available from stock



Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

Cost-effective:
Low price with
one-piece design

Save time:
Simply press
cables in

Flexible:
Torsional motions
possible

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")

Cable-friendly:
Cable conserving
interior

Clean:
Dirt-repellent
exterior

✚ Simply press cables in, medium size

When to use Series E200-Z200:

- If a medium-sized e-chain® with an inner height of 36,5 mm is required
- For inner widths up to 75 mm
- For unsupported lengths up to 2,0 m and fill weights up to 4,0 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required

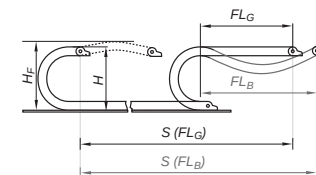
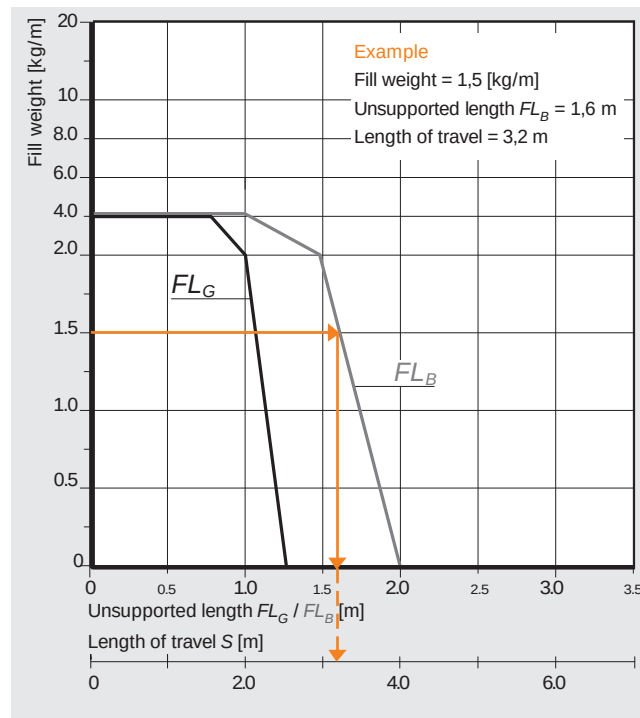


When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- E2/000 Series 2600/2650/2680/2700, page 444
- If single-extrusion crossbars are required
- E2/000 Series 2600/2650/2680/2700, page 444



1-, 2-, or 3-moulded-in
chamber system available



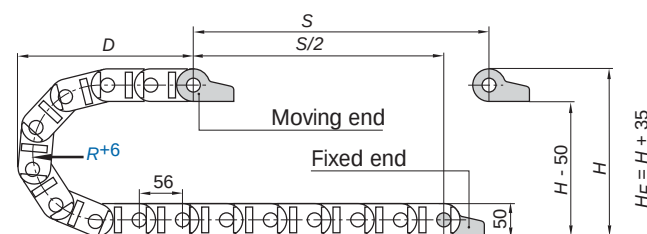
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 56 mm/link
Links/m = 18 (1.008 mm)
Chain length = $\frac{S}{2} + K$



R	063	075	100	125	150	175	200	250
H +5	176	200	250	300	350	400	450	550
D	172	184	209	234	259	284	309	359
K	310	350	430	505	585	665	745	900

The required clearance height: $H_F = H + 35$ mm (with 2,0 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E26



Series E26 | Split crossbar along outer radius | 1 / 2 / 3- chamber system

Series Z26 | Split crossbar along inner radius | 1 / 2 / 3- chamber system

Chamber system	Split crossbar along outer radius	Split crossbar along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
1-chamber	E26.07. <i>R</i> .0	Z26.07. <i>R</i> .0	75	92	063 075 100 125 150 175 200 250	≈ 0,96
2-chamber	E26.2/45. <i>R</i> .0	Z26.2/45. <i>R</i> .0	48/48	117	063 075 100 125 150 175 200 250	≈ 1,14
3-chamber	E26.3/45. <i>R</i> .0	Z26.3/45. <i>R</i> .0	47/48/47	167	063 075 100 125 150 175 200 250	≈ 1,30



Ba: pin dimension approx. 0,3 - 0,5 mm wider!

Supplement Part No. with required radius (*R*) Example: E26.07.150.0

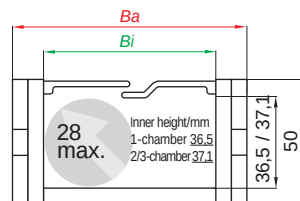


Order key

E26. 07. 150. 0 Version "E" Split crossbar along outer radius

Z26. 07. 150. 0 Version "Z" Split crossbar along inner radius

- Standard color black
- Bending radius *R*
- Width index (depends on *Bi*)
- Series / Type



Configuration options and order keys, overview ► page 154

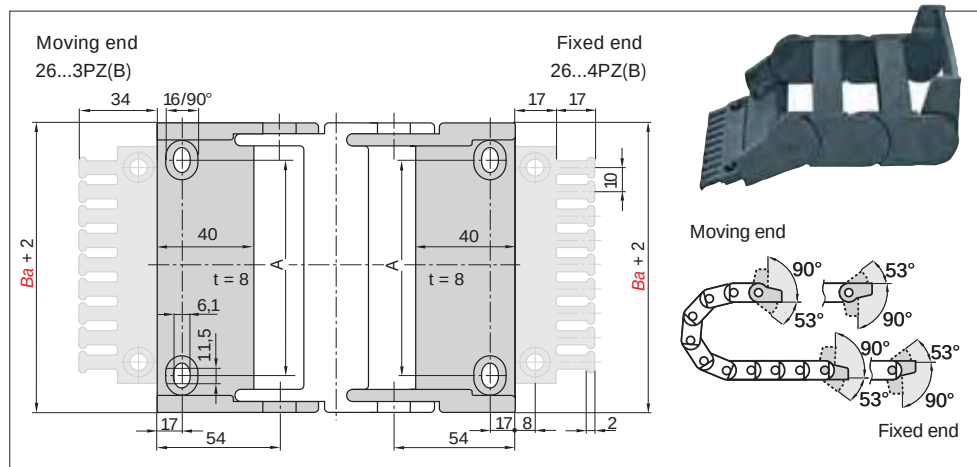


Available from stock. **Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)



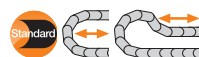
easy chain® on a 2 stage telescopic work platform



Polymer pivoting, one-piece | Standard | Universal for e-chains®
Recommended for unsupported and gliding applications

Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	Full set with tie-wrap plate + 10 cable tie-wraps	Dim. A [mm]	Number of teeth
07. ▶	2607.34PZB	2607.34PZ	2607.34PZK1	55	7
2/45. ▶	2610.34PZB	2610.34PZ	2610.34PZK1	80	10
3/45. ▶	2615.34PZB	2615.34PZ	2615.34PZK1	130	15

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- Standard
- For tight installation conditions
- Strain relief with detachable tie-wrap plates
- Corrosion-resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure

2607.34 PZ **A2**



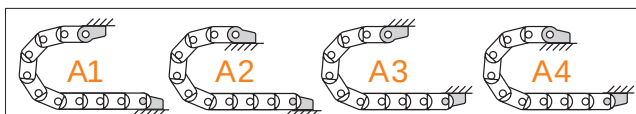
Single-part order

Mounting bracket Moving end

2607.3 PZ **A2** (preass. + tie-wrap plate)

Mounting bracket Fixed end

2607.4PZ **A2** (preass. + tie-wrap plate)

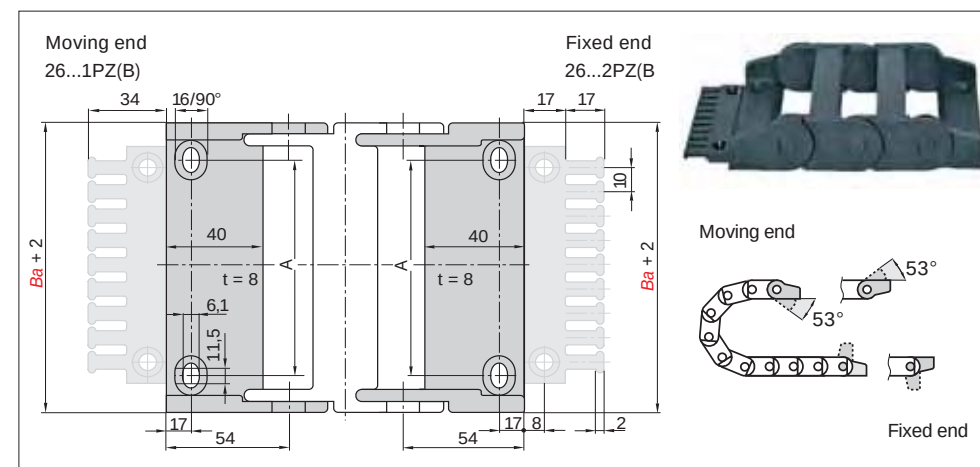


Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index **A1... A4** ▶ e.g. 2607.34PZ**A1**



Strain relief, e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 1148



Polymer locking | Universal for e-chains®
Recommended for vertical hanging and standing applications

Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	Full set with tie-wrap plate + 10 cable tie-wraps	Dim. A [mm]	Number of teeth
07. ▶	2607.12PZB	2607.12PZ	2607.12PZK1	55	7
2/45. ▶	2610.12PZB	2610.12PZ	2610.12PZK1	80	10
3/45. ▶	2615.12PZB	2615.12PZ	2615.12PZK1	130	15

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB



- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure

2607.12 PZB **A1**



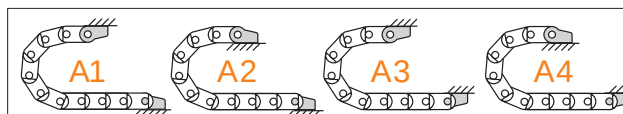
Single-part order

Mounting bracket Moving end

2607.1 PZB **A1** (preass. + tie-wrap plate)

Mounting bracket Fixed end

2607.2 PZB **A1** (preass. + tie-wrap plate)



Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index **A1... A4** ▶ e.g. 2607.12PZB**A1**



Strain relief, e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 1148

Universal:
Mounting bracket with
strain relief option

Cleanroom:
Suitable for clean-
room applications

Cost-effective:
Low price with
one-piece design

Save time:
Simply press
cables in

Flexible:
Torsional motions
possible

Cable-friendly:
Cable conserving
interior

Clean:
Dirt-repellent
exterior

Rapid installation:
easy to fill from the
inner radius (Version "Z") or
outer radius (Version "E")

Secure:
Interior separation
with shelves possible

✚ Simply press cables in, large inner height

When to use Series E300-Z300:

- If a medium-sized e-chain® with an inner height of 48,5 mm is required
- For inner widths up to 75 mm
- For unsupported lengths up to 2,25 m and fill weights up to 8,0 kg/m
- If easy filling without opening and closing of lids is required
- If smooth running is required
- If a lightweight and cost-effective e-chain® is required



When to use a different igus® Series:

- If very high loads and long unsupported travels occur
- E2/000 Series 3400/3450/3480/3500, page 462
- If single-extrusion crossbars are required
- E2/000 Series 3400/3450/3480/3500, page 462



1-, 2- or 3- moulded-in
chamber system available

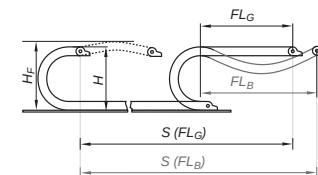
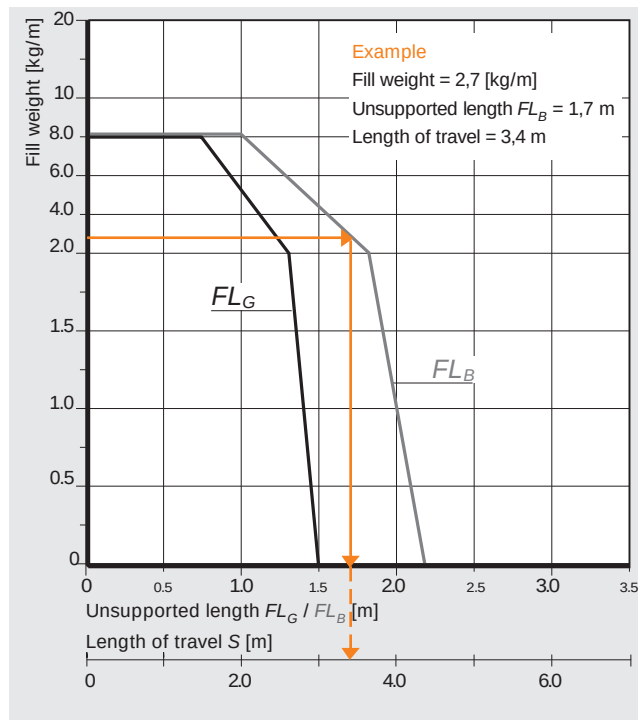


Available from stock. **Delivery time*** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/E300



Standard Unsupported applications

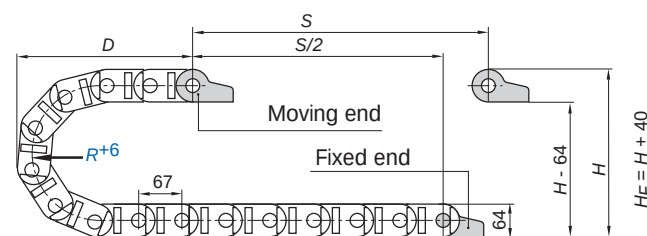
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95



Technical Data

Speed, material, temperature and flammability class ► page 152

Pitch = 67 mm/link
Links/m = 15 (1.005 mm)
Chain length = $\frac{S}{2} + K$



R	075	100	125	150	200	250	300
H ⁺⁵	214	264	314	364	464	564	664
D	208	233	258	283	333	383	433
K	370	450	530	610	765	920	1080

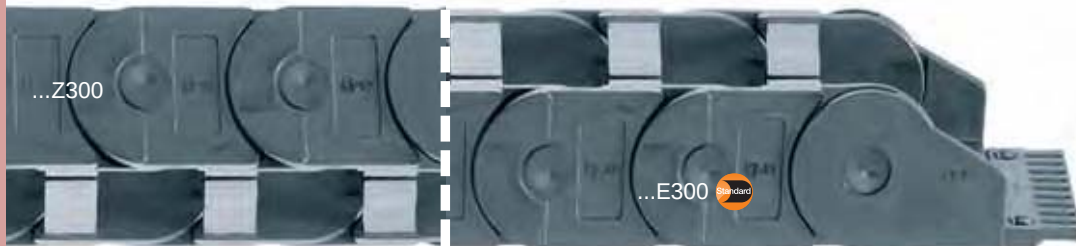
The required clearance height: $H_F = H + 40$ mm (with 2,5 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius
H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"



Series E300 | Split crossbar along outer radius | 1 / 2 / 3- chamber system

Series Z300 | Split crossbar along inner radius | 1 / 2 / 3- chamber system

Chamber system	Split crossbar along outer radius	Split crossbar along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	Weight [kg/m]
1-chamber	E300.075.R.0	Z300.075.R.0	75	95	075 100 125 150 200 250 300	≈ 1,60
2-chamber	E300.2/45.R.0	Z300.2/45.R.0	48/48	120	075 100 125 150 200 250 300	≈ 1,78
3-chamber	E300.3/45.R.0	Z300.3/45.R.0	47/46/47	170	075 100 125 150 200 250 300	≈ 1,92

Ba: pin dimension approx. 0,3 - 0,5 mm wider!

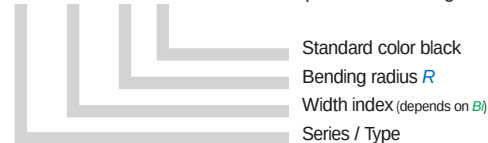
Supplement Part No. with required radius (R) Example: E300.075.150.0



Order key

E300. 075. 150. 0 Version "E" Split crossbar along outer radius

Z300. 075. 150. 0 Version "Z" Split crossbar along inner radius

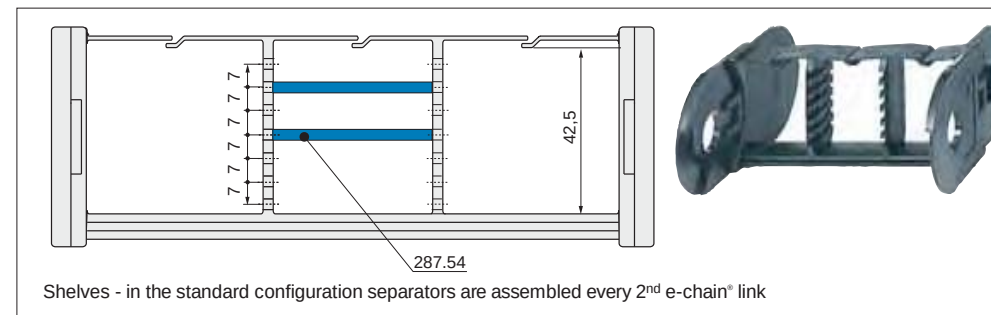


Configuration options and order keys, overview ► page 154



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



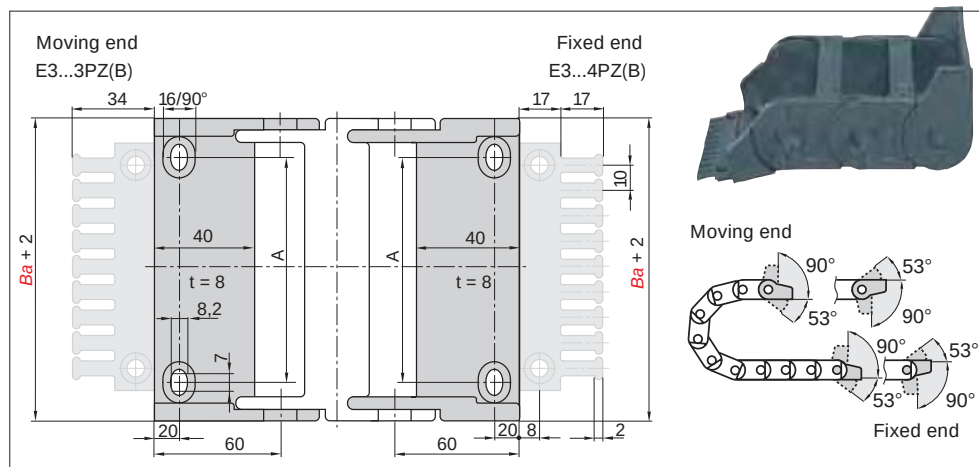
Shelves - in the standard configuration separators are assembled every 2nd e-chain® link

Shelf for e-chains®	
unassembled	386.54
assembled	387.54

Optional shelving for

Series E300.3/45 · Z300.3/45

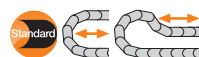
Shelving enables subdivision of the inner space of the e-chain® Series E300.3/45 and Z300.3/45. This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 7 different heights (in 7 mm increments).



Polymer pivoting, one-piece | Standard | Universal for e-chains®
Recommended for unsupported and gliding applications

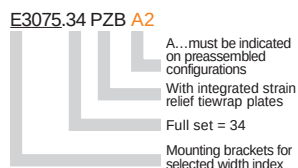
Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	Full set with tie-wrap plate + 10 cable tie-wraps	Dim. A [mm]	Number of teeth
.075. ▶	E3075.34PZB	E3075.34PZ	E3075.34PZK1	53	7
.2/45. ▶	E3100.34PZB	E3100.34PZ	E3100.34PZK1	78	10
.3/45. ▶	E3150.34PZB	E3150.34PZ	E3150.34PZK1	128	15

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB

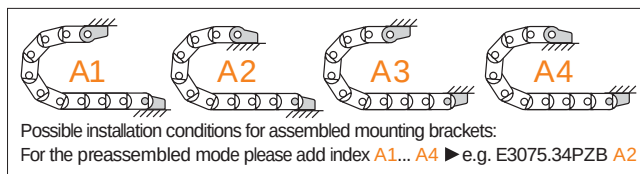


- Standard
- For tight installation conditions
- Strain relief with detachable tie-wrap plates
- Corrosion-resistant
- Variable traverse angle
- Various installation options on the fixed end and/or the moving end

Part No. structure



Single-part order
Mounting bracket Moving end
E3075.3 PZB A2 (preass. + tie-wrap plate)
Mounting bracket Fixed end
E3075.4PZB A2 (preass. + tie-wrap plate)

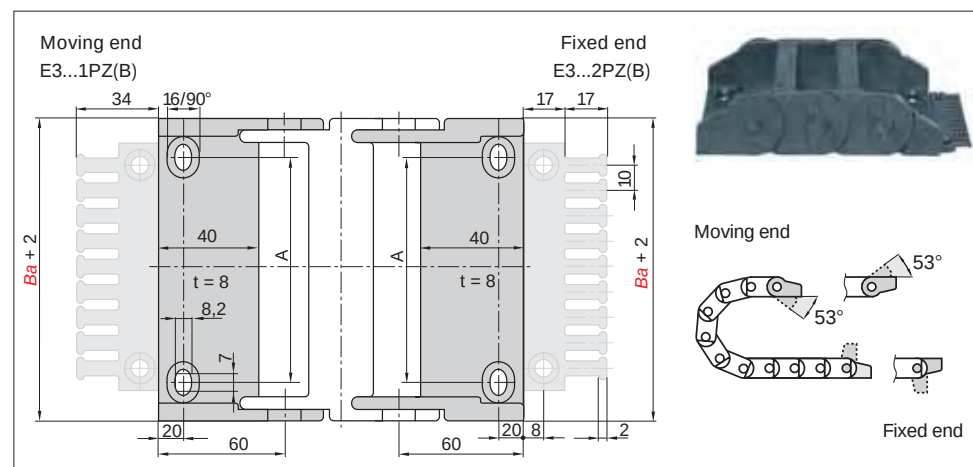


Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index A1... A4 ▶ e.g. E3075.34PZB A2



Strain relief, e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 1148



Polymer locking | Universal for e-chains®
Recommended for vertical hanging and standing applications

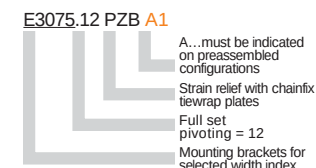
Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	Full set with tie-wrap plate + 10 cable tie-wraps	Dim. A [mm]	Number of teeth
.075. ▶	E3075.12PZB	E3075.12PZ	E3075.12PZK1	53	7
.2/45. ▶	E3100.12PZB	E3100.12PZ	E3100.12PZK1	78	10
.3/45. ▶	E3150.12PZB	E3150.12PZ	E3150.12PZK1	128	15

Material mounting bracket- igumid G, permitted temp. -40° up to +120° C, VDE 0304 IIC UL94-HB

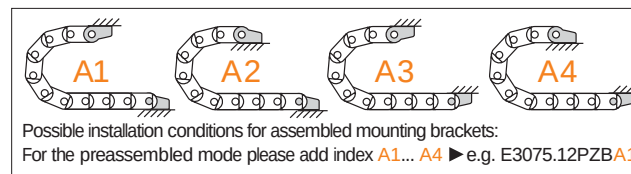


- Locked connections
- At very high speed and/or acceleration
- If space is limited for height (the H_F measurement)
- Various installation options on the fixed end and/or the moving end

Part No. structure



Single-part order
Mounting bracket Moving end
E3075. 1 PZB A1 (preass. + tie-wrap plate)
Mounting bracket Fixed end
E3075. 2 PZB A1 (preass. + tie-wrap plate)



Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index A1... A4 ▶ e.g. E3075.12PZB A1



Strain relief, e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 1148