



CHAINFLEX

igus

igus

# zipper

Fast opening and  
closing with "zipper"



# zipper - zip fastening e-chains®

"zipper" e-chains® convince in practicality and performance. The "zipper" function makes them a very useful product to reduce assembly time. The small pitch, the tough-elastic zipper-band, and the sturdy link work well in high-acceleration environments. The "zipper" Series is one of the most popular e-chain® Series in demanding applications.

- zipper-like design for quick opening and closing of lids
- zipper lids can be separated and joined at each chain link
- Small pitch for low noise and smooth operation
- High accelerations: 100 m/s<sup>2</sup> and more are possible
- Interior separation possible for larger versions (Series 09,15, 17)

## Typical industries and applications

- Pick & place robots
- Semi-conductor machines
- Linear motors, actuators
- Measuring equipment
- Machine tools (zipper e-tube)



Cleanroom Class 1 (ISO class 3) for zipper Series 15, tested by the Dryden Engineering Company, California



iF-Design  
Award Winner



58 dB(A) tested in igus® lab,  
v = 1,0 m/s unsupported, Series 09.50.028.0



UL94 - V2 classifications  
upon request

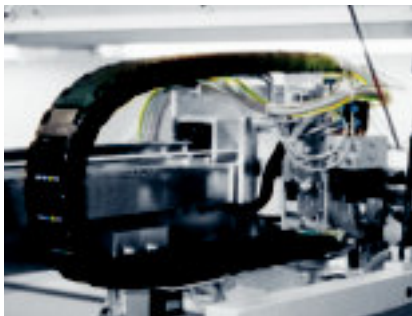


Fast Opening and Closing  
with "zipper"

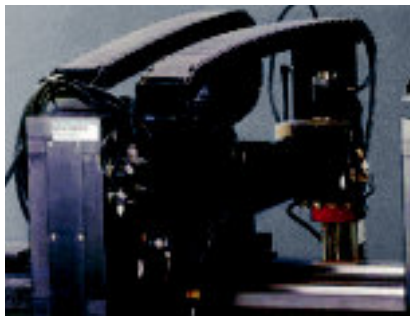




igus® e-chain® Series 17 on an X-Y table. Acceleration:  $100 \text{ m/s}^2$



igus® e-chains® zipper Series 15 in automatic equipment - reduce assembly time



Series 15 with acceleration of  $100 \text{ m/s}^2$  on pick-and-place robots, low noise

# zipper | Contents | Selection Table

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
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**zipper -  
two-piece e-chains®**  
zip-open along outer radius

047	9,0	10 - 16	16,0 - 22,0	12,5	18 - 38	0,40	4.8
07	10,3	6 - 64	12,5 - 71,0	15,0	18 - 48	0,55	4.14
09	15,0	10 - 50	18,2 - 58,2	19,3	28 - 48	1,00	4.26
15	17,0	15 - 100	26,0 - 113,0	24,0	38 - 180	1,20	4.38
17	32,0	15 - 100	26,0 - 113,0	39,0	63 - 125	1,00	4.54



**zipper -  
two-piece e-tubes**  
Protection against dirt and chips,  
zip-open along outer radius

R07	10,3	10 - 50	16,5 - 57,0	15,0	38 - 48	0,55	4.20
R09	15,0	10 - 50	18,2 - 58,2	19,3	48 - 100	1,00	4.32
R15	17,0	25 - 80	36,0 - 94,0	24,0	63 - 180	1,20	4.46
R17	32,0	15 - 63	26,0 - 76,0	39,0	63 - 125	1,20	4.60





Push and click



Snap lids together, position, push and snap




For separating release side link, then twist and pull apart



Simple opening and closing - all lids fit like a "zipper"

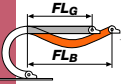
 **Technical Data overview** ► next page

 **Part No. of e-chain® links as single parts** ► next page

 **Assembly video available online at** ► [www.igus.de/en/zipper\\_assembly](http://www.igus.de/en/zipper_assembly)

**Technical Data - zipper**

Gliding speed / acceleration (maximum)

max. 10 [m/s] / max. 50 [m/s<sup>2</sup>]Speed / acceleration  $FL_G$  max.max. 20 [m/s] / max. 200 [m/s<sup>2</sup>]Speed / acceleration  $FL_B$  max.max. 3 [m/s] / max. 6 [m/s<sup>2</sup>]

Material - lower part (e-chains® / e-tubes) - permitted temperature °C

igumid G / -40° up to +120° C

Material - lid (e-chains® / e-tubes) - permitted temperature °C





igumid TE / -40° up to +70° C



Flammability class, igumid G

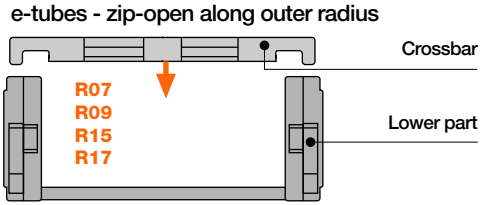
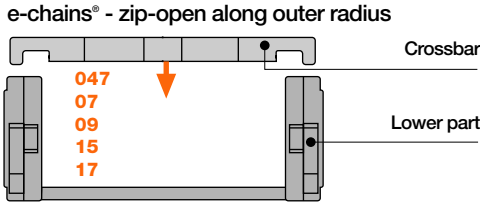
VDE 0304 IIC UL94 HB



■  $FL_G$  = with straight upper run ■  $FL_B$  = with permitted sag**Installation methods overview, maximum travels - zipper**

Series e-chain® / e-tube	 Unsupported application	 Vertical hanging	 Vertical standing	 Side mounted unsupported
047	≤ 0,40 m	upon request	upon request	upon request
07	≤ 0,55 m	upon request	upon request	upon request
09	≤ 1,0 m	upon request	upon request	upon request
15	≤ 1,2 m	upon request	upon request	upon request
17	≤ 1,0 m	upon request	upon request	upon request
R07	≤ 0,55 m	upon request	upon request	upon request
R09	≤ 1,0 m	upon request	upon request	upon request
R15	≤ 1,2 m	upon request	upon request	upon request
R17	≤ 1,0 m	upon request	upon request	upon request



Part No. two-piece e-chain® links as single parts - zipper



 e-chain® Series	e-chain® lid	e-chain® lower parts**	 e-tube Series	e-tube lid	e-tube lower parts**
047	0471. <i>Bi</i>	047. <i>Bi</i> 00. <i>R</i>	–	–	–
07	071. <i>Bi</i>	07. <i>Bi</i> 00. <i>R</i>	R07	095. <i>Bi</i>	R07. <i>Bi</i> 00. <i>R</i>
09	071. <i>Bi</i>	09. <i>Bi</i> 00. <i>R</i>	R09	095. <i>Bi</i>	R09. <i>Bi</i> 00. <i>R</i>
15	150. <i>Bi</i>	15. <i>Bi</i> 00. <i>R</i>	R15	155. <i>Bi</i>	R15. <i>Bi</i> 00. <i>R</i>
17	150. <i>Bi</i>	17. <i>Bi</i> 00. <i>R</i>	R17	155. <i>Bi</i>	R17. <i>Bi</i> 00. <i>R</i>

\* Lids: supplement Part No. with required width index (*Bi*) Example: 071.40

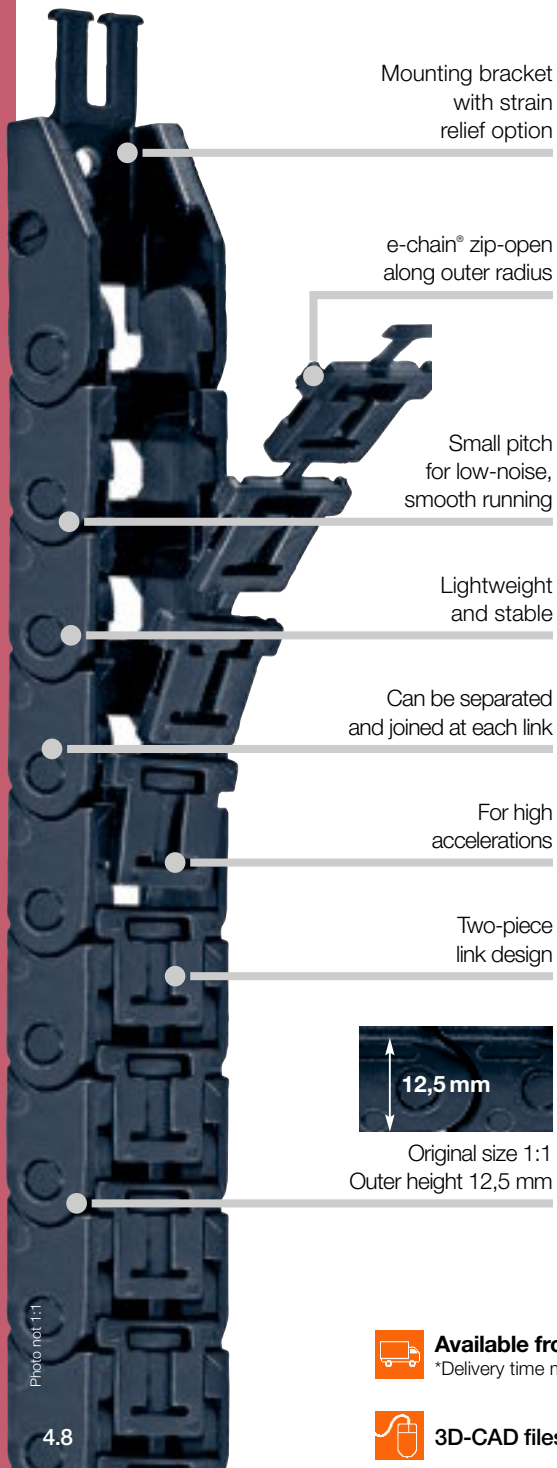
\*\* Lower parts: supplement Part No. with required width index (*Bi*) + 00 and radius (*R*) Example: 07.4000.038



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

\*Delivery time means time until shipping of goods





Mounting bracket  
with strain  
relief option

e-chain® zip-open  
along outer radius

Small pitch  
for low-noise,  
smooth running

Lightweight  
and stable

Can be separated  
and joined at each link

For high  
accelerations

Two-piece  
link design



Original size 1:1  
Outer height 12,5 mm

## ⊕ Fast opening, small pitch, smooth running

### When to use Series 047:

- If a very small e-chain® with an inner height of 9 mm and smallest bending radii are required
- For inner widths up to 16 mm
- For unsupported lengths up to 0,40 m and fill weights up to 0,25 kg/m
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required
- If quick insertion of cables with preassembled connectors is required



### When to use a different igus® Series:

- If easy filling without opening and closing is required
- ▶ **Series E04 easy chain®**, page 3.10

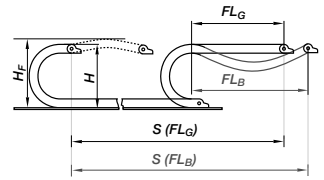
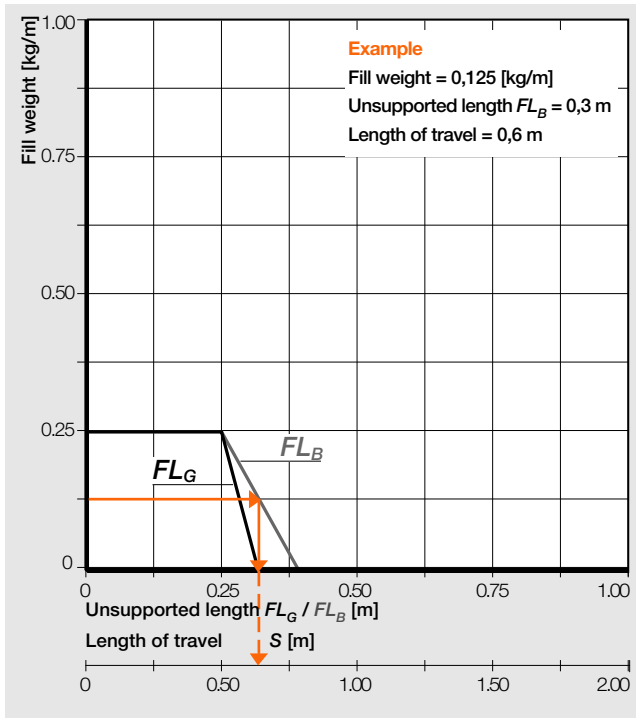


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

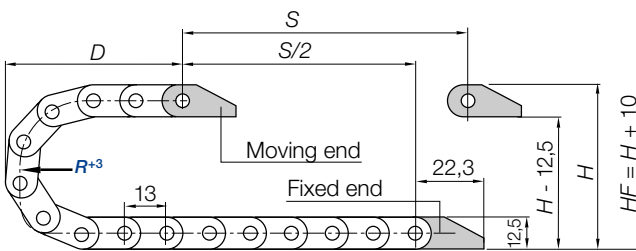


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/047](http://www.igus.de/en/047)



**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 1.8**



**Technical Data**

Speed, material, temperature and flammability class ► **page 4.6**

- Pitch** = 13 mm/link
- Links/m** = 77 (1001 mm)
- Chain length** =  $S/2 + K$

	018	028	038
<b>H</b>	48,5	68,5	88,5
<b>D</b>	44	54	64
<b>K</b>	85	115	150

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

**i**  $FL_G$  = 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"



## e-chain® | Series 047 | zip-open along outer radius

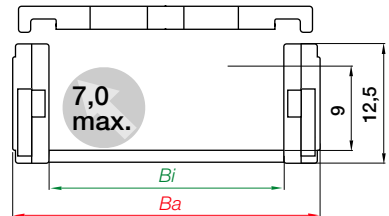
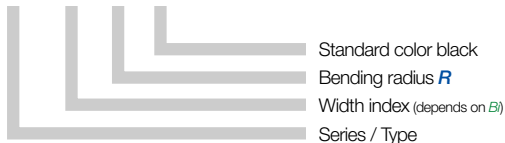
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
047. 10 . <i>R</i> .0	10	16	018   028   038	→ 0,10
047. 16 . <i>R</i> .0	16	22	018   028   038	→ 0,11

Supplement Part No. with required radius (*R*) Example: 047.10.038.0



### Order key

047. 10. 038. 0 e-chain®



047.10.038.0 = e-chain® zip-open along outer radius, *Bi* 10 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 4.12

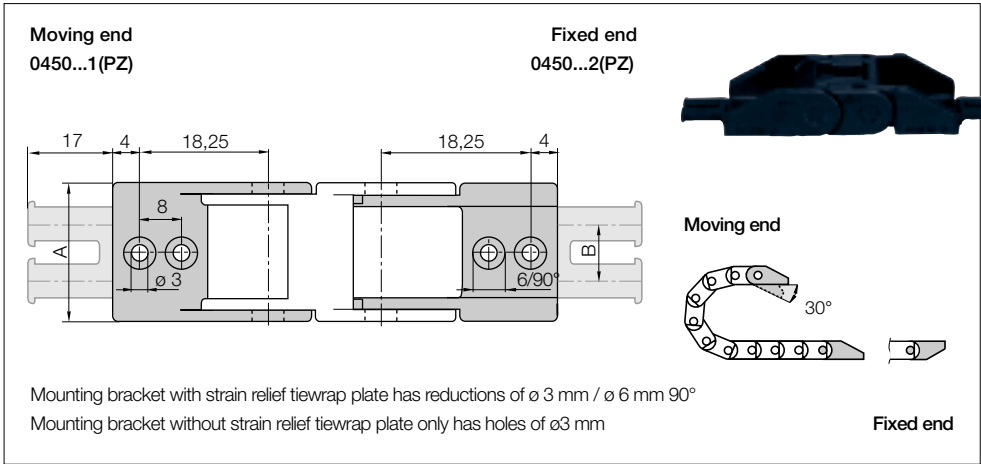


Part No. of e-chain® links as single parts ► page 4.7



Standard e-chains® available from stock. Delivery in 24h or today!\*

\*Delivery time means time until shipping of goods

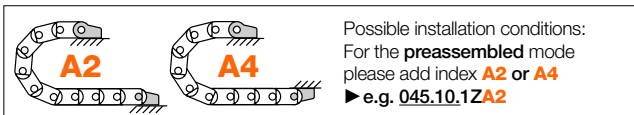


**Polymer one-piece, one side pivoting** | Universal for e-chains®  
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
10. ▶	0450.10.12PZ	0450.10.12	16	–	1
16. ▶	0450.16.12PZ	0450.16.12	22	10	2

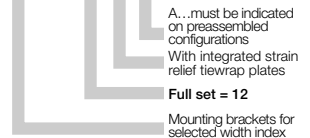


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



**Part No. structure**

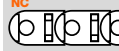
0450.10.12 PZ **A2**



**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)

 **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 10.1

**Standard****Part No.**  
**Standard**  
**e-chains®***NC-Version -  
(no camber)  
without pretension***Part No.**  
**NC-Material**  
**e-chains®***ATEX / ESD  
classified e-chains®  
II 2 GD***Part No.**  
**ESD-Material**  
**e-chains®****047.10.R.0****047.10.R.0.NC****047.10.R.0.ESD****Delivery time**  
**24h or today!\*****Delivery time**  
**3-5 work days****Delivery time**  
**5 work days**

## Order example | Order key and color options

**Order example for complete e-chain® (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 77 links **047.10.038.0****+ Mounting brackets** 1 set (with integrated strain relief) **0450.10.12PZ**

Order text: 1,0 m 047.10.038.0 + 0450.10.12PZ

**Order key**  
**047.10.038.0**

### Color options for e-chains® and e-tubes

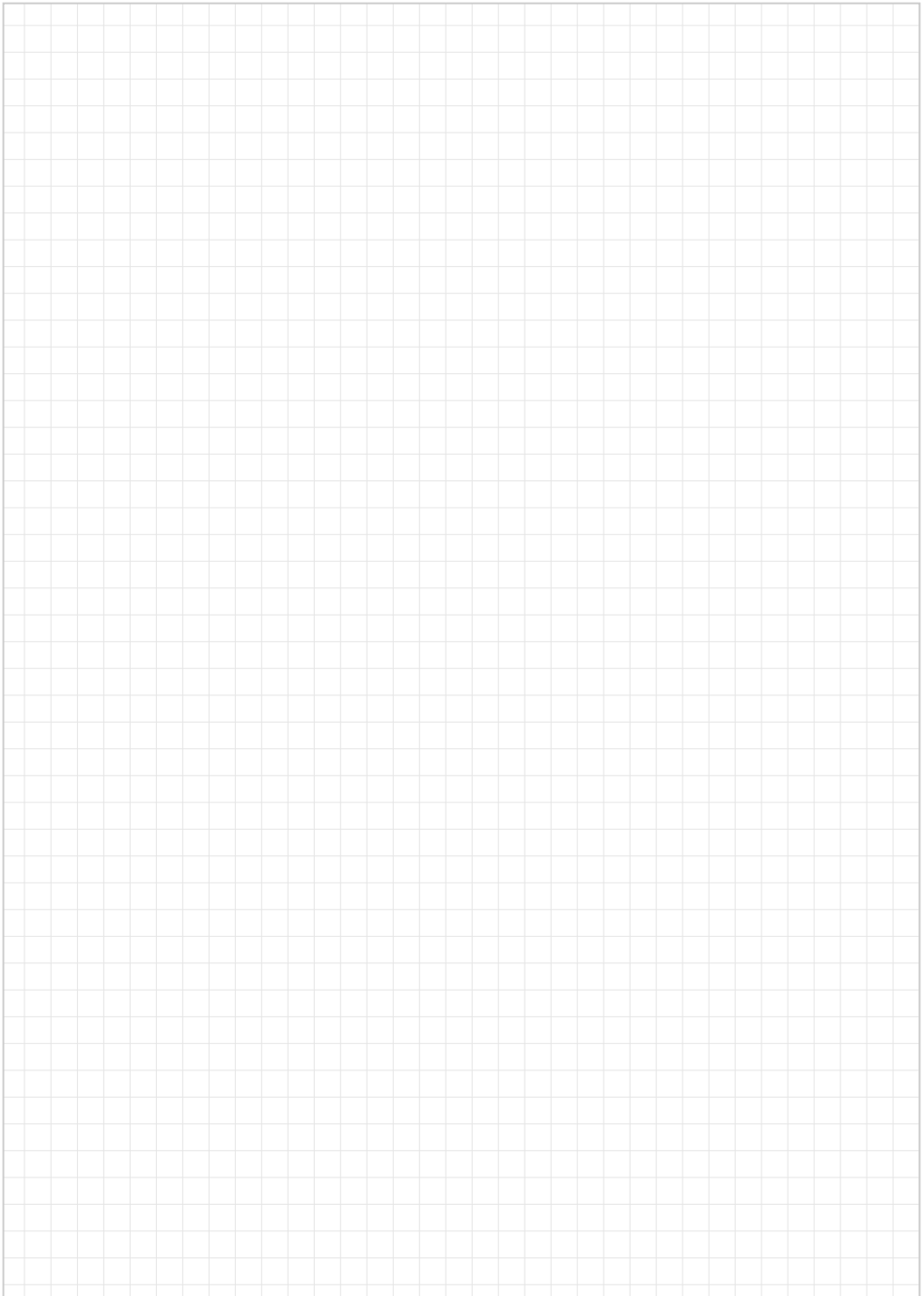
Color	Order index	Color	Order index
black	<b>.0 from stock!</b>	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

**Black e-chains® from stock!**

\*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

\*Delivery time means time until shipping of goods



Mounting bracket  
with strain  
relief option

e-chain® zip-open  
along outer radius

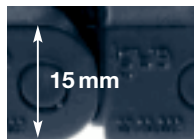
Lightweight  
and stable

For high  
accelerations

Can be separated  
and joined at each link

Small pitch for low-noise,  
smooth running

Two-piece  
link design



Original size 1:1  
Outer height 15 mm

## ⊕ Fast opening, for smallest spaces

### When to use Series 07:

- If a very small e-chain® with an inner height of 10,3 mm and smallest bending radii are required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,4 kg/m
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required
- If quick insertion of cables with preassembled connectors is required



### When to use a different igus® Series:

- If a fully enclosed e-tube with zipper opening mechanism is required
- ▶ **Series R07 zipper e-tube, page 4.20**
- If a cheaper, easy to open e-chain® is required
- ▶ **Series B07 E2 micro, page 5.42**
- If cable installation without opening of lids is required
- ▶ **Series E06 easy chain®, page 3.20**
- If opening of the links is not necessary
- ▶ **Series 06 E2 micro, page 5.36**

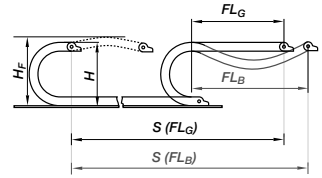
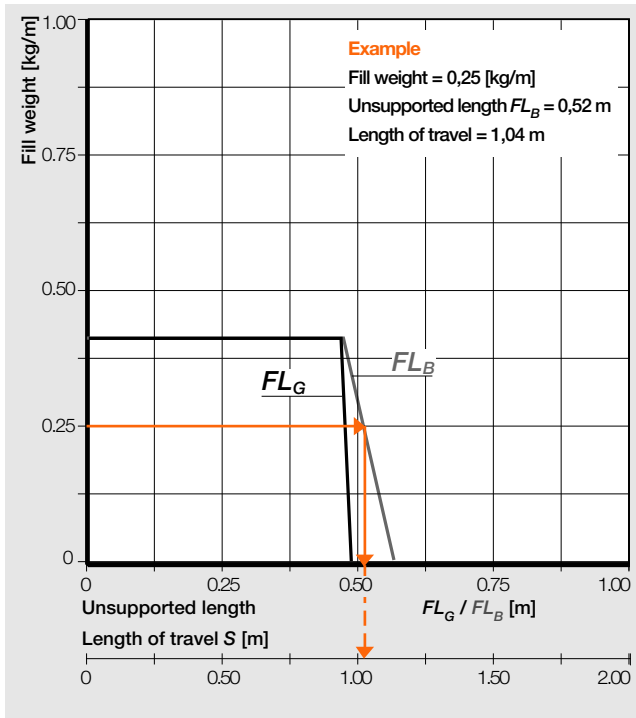


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

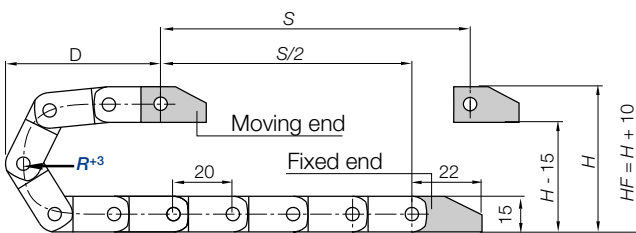


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/07](http://www.igus.de/en/07)



**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 1.8**



**Technical Data**

Speed, material, temperature and flammability class ► **page 4.6**

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

R	018	028	038	048*
H	51	71	91	111
D	56	66	76	86
K	100	130	160	195

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

\*Radius 048 only for Series 07.64 - more widths upon request!

- i**  $FL_G$  = 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"





## e-chain® | Series 07 | zip-open along outer radius

e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
07. 06 . <i>R</i> .0	06	12,5	018   028   038   048*	≈ 0,13
07. 10 . <i>R</i> .0	10	16,5	018   028   038   048*	≈ 0,14
07. 16 . <i>R</i> .0	16	22,5	018   028   038   048*	≈ 0,16
07. 20 . <i>R</i> .0	20	27	018   028   038   048*	≈ 0,17
07. 30 . <i>R</i> .0	30	37	018   028   038   048*	≈ 0,20
07. 40 . <i>R</i> .0	40	47	018   028   038   048*	≈ 0,23
07. 50 . <i>R</i> .0	50	57	018   028   038   048*	≈ 0,26
07. 64 . <i>R</i> .0	64	71	018   028   038   048	≈ 0,30

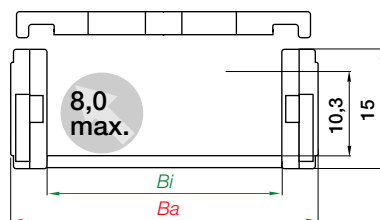
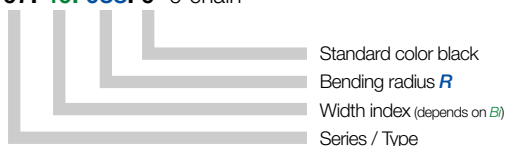
\*Radius 048 only for Series 07.64 - more widths upon request! Delivery time approx. 6-8 weeks after order.

Supplement Part No. with required radius (*R*) Example: 07.40.038.0



### Order key

07. 40. 038. 0 e-chain®



07.40.038.0 = e-chain® zip-open along outer radius, *Bi* 40 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 4.18

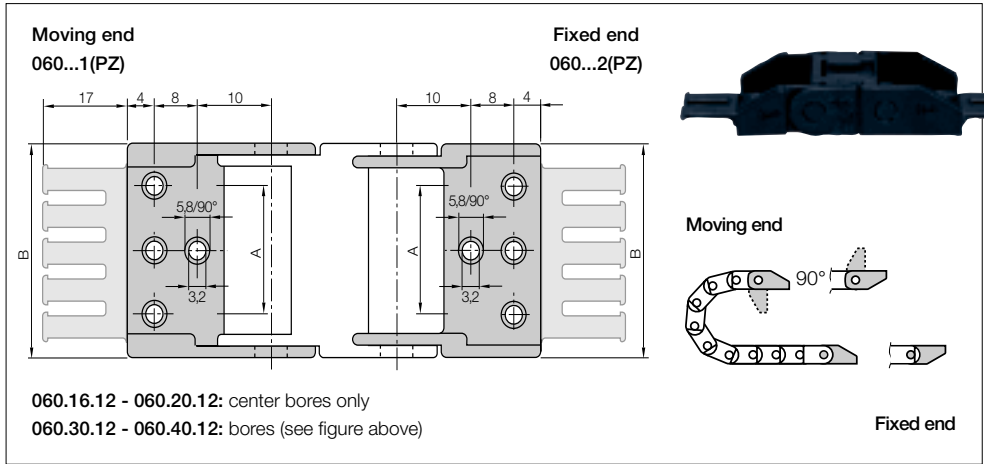


Part No. of e-chain® links as single parts ► page 4.7



Standard e-chains® available from stock. Delivery in 24h or today!\*

\*Delivery time means time until shipping of goods



**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
06. ▶	060.06. 12PZ	060.06. 12	–	12,5	1
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
30. ▶	060.30. 12PZ	060.30. 12	22	37,0	3
40. ▶	060.40. 12PZ	060.40. 12	32	47,0	4
50. ▶	060.50. 12PZ	060.50. 12	42	57,0	5
64. ▶	060.64. 12PZ	060.64. 12	56	71,0	6



- 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**

060.40.12 PZ A1

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

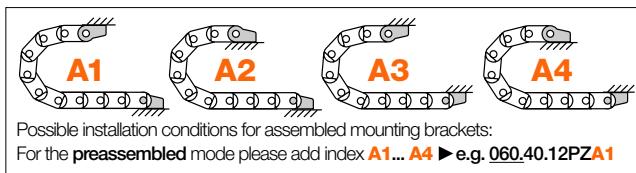
**Single-part order**

Mounting bracket **Moving end**

060.40.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

060.40.2PZ A1 (preass. + tiewrap plate)



**Additional Features**



**Quicksnap** - the complete, detachable mounting unit.  
Part Nos. 060.10.QS, 060.16.QS, 060.20.QS, 060.40.QS  
available from stock



**Quickfix** - mounting bracket with dowel,  
available upon request

**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 10.1

**Standard****Part No.  
Standard  
e-chains®***NC-Version -  
(no camber)  
without pretension***Part No.  
NC-Material  
e-chains®***ATEX / ESD  
classified e-chains®  
II 2 GD***Part No.  
ESD-Material  
e-chains®****07.40.R.0****07.40.R.0.NC****07.40.R.0.ESD****Delivery time  
24h or today!\*****Delivery time  
3-5 work days****Delivery time  
5 work days**

## Order example | Order key and color options

**Order example for complete e-chain® (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 50 links **07.40.038.0****+ Mounting brackets** 1 set (with integrated strain relief) **060.40.12PZ**

Order text: 1,0 m 07.40.038.0 + 060.40.12PZ

**Order key  
07.40.038.0**

### Color options for e-chains® and e-tubes

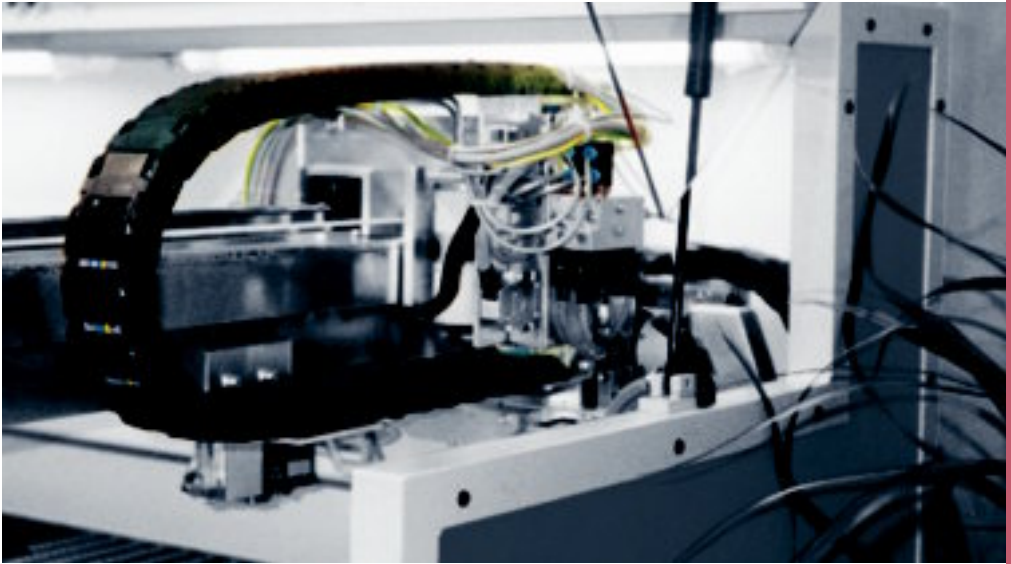
Color	Order index	Color	Order index
black	<b>.0 from stock!</b>	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

#### Black e-chains® from stock!

\*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

\*Delivery time means time until shipping of goods



zipper e-chains® e.g. in automatic equipment - reduce assembly time

Mounting bracket  
with strain  
relief option

e-tube zip-open  
along outer radius

Lightweight  
and stable

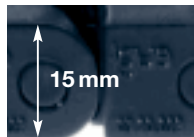
For high  
accelerations

Can be separated  
and joined at each link

Small pitch for low-noise,  
smooth running

Protection against  
dirt and chips

Two-piece  
link design



Original size 1:1  
Outer height 15 mm

## ⊕ **Fast opening, enclosed zipper-band**

### When to use Series R07:

- If a very small e-tube with an inner height of 10,3 mm and smallest bending radii are required
- For inner widths up to 50 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,4 kg/m
- If chip protection is required
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required
- If quick insertion of cables with preassembled connectors is required



### When to use a different igus® Series:

- If an e-chain® with zipper opening mechanism is required
- ▶ **Series 07 zipper e-chain®**, page 4.14
- If a cheaper, easy to open e-chain® is required
- ▶ **Series B07 E2 micro**, page 5.42
- If cable installation without opening of lids is required
- ▶ **Series E06 easy chain®**, page 3.20
- If opening of the links is not necessary
- ▶ **Series 06 E2 micro**, page 5.36

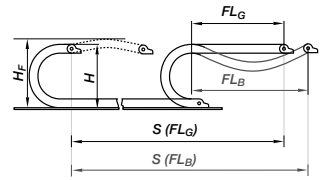
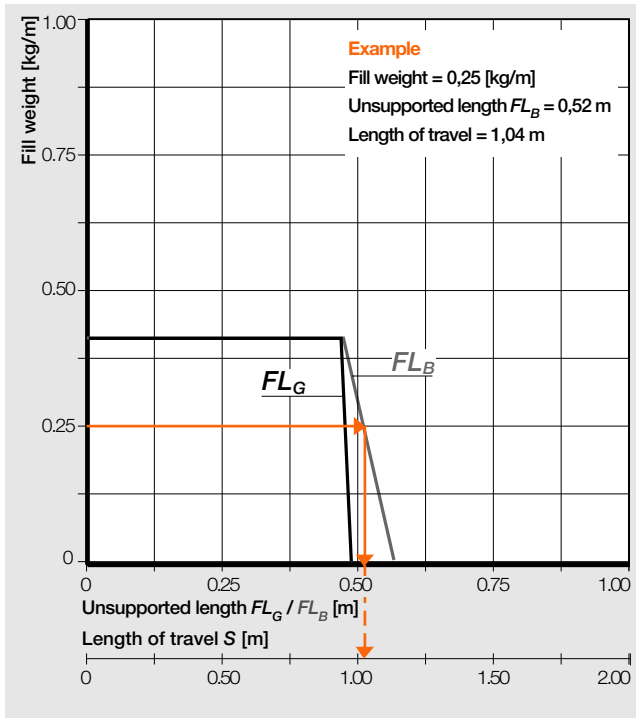


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

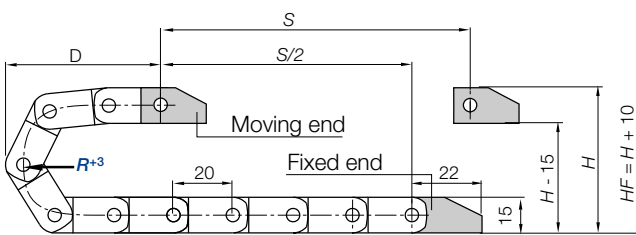


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/R07](http://www.igus.de/en/R07)



**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 1.8**



**Technical Data**

Speed, material, temperature and flammability class ► **page 4.6**

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

<b>R</b>	<b>038</b>	<b>048</b>
<b>H</b>	91	111
<b>D</b>	76	86
<b>K</b>	160	195

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

- i**  $FL_G$  = 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
- $K = \pi \cdot R + \text{"safety"}$



## e-tube | Series R07 | zip-open along outer radius

e-tube zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
R07. 06 . <i>R</i> .0*	06	12,5	038   048	≈ 0,15
R07. 10 . <i>R</i> .0	10	16,5	038   048	≈ 0,16
R07. 16 . <i>R</i> .0	16	22,5	038   048	≈ 0,18
R07. 20 . <i>R</i> .0	20	27	038   048	≈ 0,19
R07. 30 . <i>R</i> .0	30	37	038   048	≈ 0,22
R07. 40 . <i>R</i> .0	40	47	038   048	≈ 0,25
R07. 50 . <i>R</i> .0	50	57	038   048	≈ 0,28
R07. 64 . <i>R</i> .0*	64	71	038   048	≈ 0,32

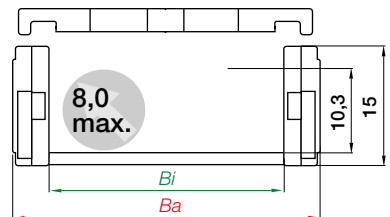
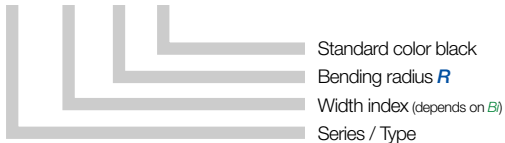
\*Width available upon request. Delivery time approx. 6-8 weeks after order.

Supplement Part No. with required radius (*R*) Example: **07.40.038.0**



### Order key

**R07. 40. 038. 0** e-tube



**R07.40.038.0** = e-tube zip-open along outer radius, *Bi* 40 mm inner width, *R* 038 mm radius, color black  
 More order examples and configuration options ► page 4.24

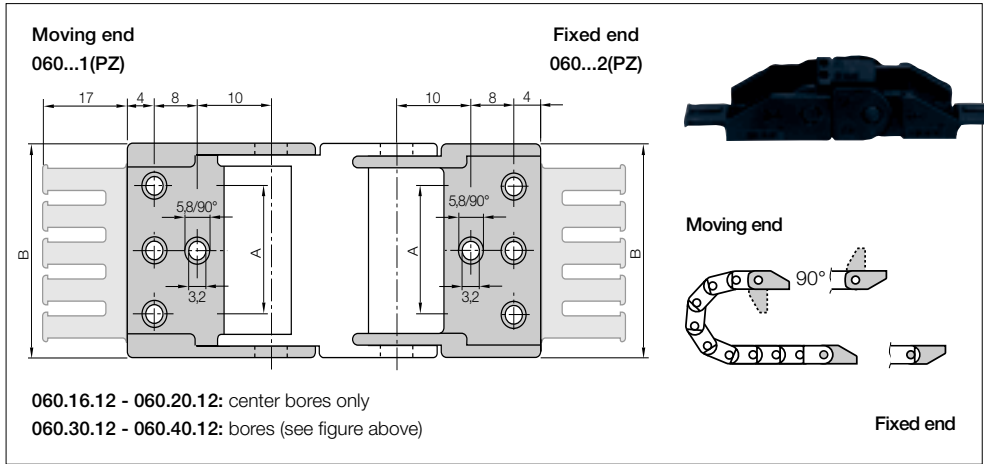


Part No. of e-chain® links as single parts ► page 4.7



Standard e-chains® available from stock. **Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



**Polymer locking, one-piece** | Universal for e-tubes  
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
06.* ▶	060.06. 12PZ	060.06. 12	–	12,5	1
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
30. ▶	060.30. 12PZ	060.30. 12	22	37,0	3
40. ▶	060.40. 12PZ	060.40. 12	32	47,0	4
50. ▶	060.50. 12PZ	060.50. 12	42	57,0	5
64.* ▶	060.64. 12PZ	060.64. 12	56	71,0	6

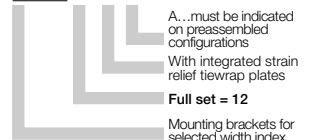
\*Width available upon request.



- 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**

060.40.12 PZ **A1**



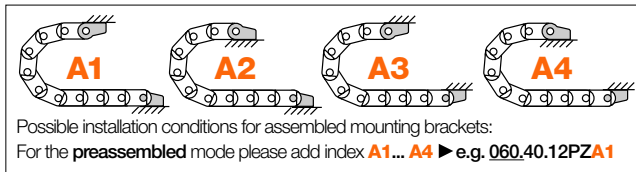
**Single-part order**

Mounting bracket **Moving end**

060.40.1 PZ **A1** (press. + tiewrap plate)

Mounting bracket **Fixed end**

060.40.2PZ **A1** (press. + tiewrap plate)



**Additional Features**



**Quicksnap** - the complete, detachable mounting unit.  
Part Nos. 060.10.QS, 060.16.QS, 060.20.QS, 060.40.QS  
available from stock

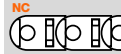


**Quickfix** - mounting bracket with dowel,  
available upon request



**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 10.1



**Standard****Part No.  
Standard  
e-tubes****NC-Version -  
(no camber)  
without pretension****Part No.  
NC-Material  
e-tubes****ATEX/ESD  
classified e-tubes -  
II 2 GD****Part No.  
ESD-Material  
e-tubes****R07.40.R.0****R07.40.R.0.NC****R07.40.R.0.ESD****Delivery time  
24h or today!\*****Delivery time  
3-5 work days****Delivery time  
5 work days**

## Order example | Order key and color options

**Order example for complete e-tube (1,0 m),  
color black, with mounting brackets:****e-tube (1,0 m)** Please indicate e-tube length or number of links: 1,0 m or 50 links **07.40.038.0****+ Mounting brackets** 1 set (with integrated strain relief) **060.40.12PZ**

Order text: 1,0 m R07.40.038.0 + 060.40.12PZ

**Order key****R07.40.038.0**

### Color options for e-chains® and e-tubes

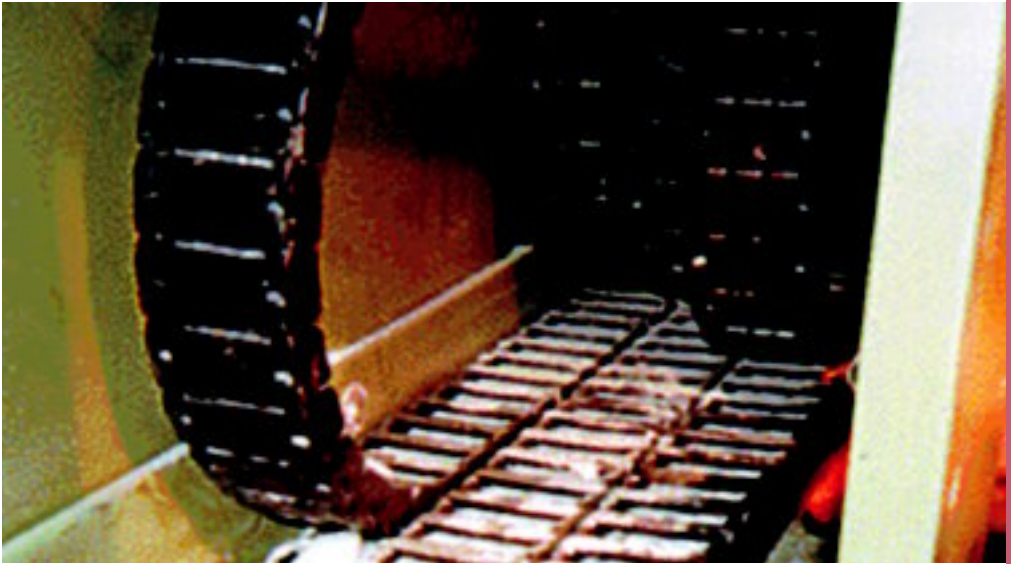
Color	Order index	Color	Order index
black	<b>.0 from stock!</b>	green*	.7
white*	.1	grey*	<b>.3 for e-chains*</b>
violet*	.5	dusty grey*	<b>.3 for e-tubes</b>
yellow*	.4	agate grey*	<b>.11</b>
orange*	.2	light grey*	<b>.14</b>
red*	.6	black grey*	<b>.13</b>
blue*	.8	yellow/black*	<b>.9</b>

#### Black e-chains\* from stock!

\*Colored e-chains\* delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

\*Delivery time means time until shipping of goods



e-chains® side by side as individual or "multiband" - Series zipper

Mounting bracket  
with strain  
relief option

e-chain® zip-open  
along outer radius

Lightweight  
and stable

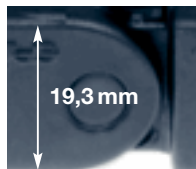
For high  
accelerations

Small pitch  
for low-noise,  
smooth running

Can be separated  
and joined at each link

Two-piece  
link design

Interior separation  
possible



Original size 1:1  
Outer height 19,3 mm

## ⊕ Fast opening, high accelerations

### When to use Series 09:

- If a very small e-chain® with an inner height of 15 mm and smallest bending radii are 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
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required
- If quick insertion of cables with preassembled connectors is required



### When to use a different igus® Series:

- If a fully enclosed e-tube with zipper opening mechanism is required
  - ▶ **Series R09 zipper e-tube, page 4.32**
- If a cheaper, easy to open e-chain® is required
  - ▶ **Series B09 E2 micro, page 5.66**
- If cable installation without opening of lids is required
  - ▶ **Series E08 easy chain®, page 3.28**
- If an e-chain® snap-open along inner radius with film-hinge is required
  - ▶ **Series 094 E2 micro, page 5.54**
- If opening of the links is not necessary
  - ▶ **Series 08 E2 micro, page 5.60**

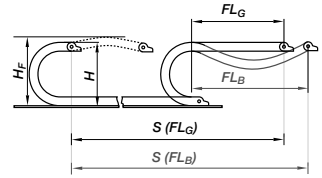
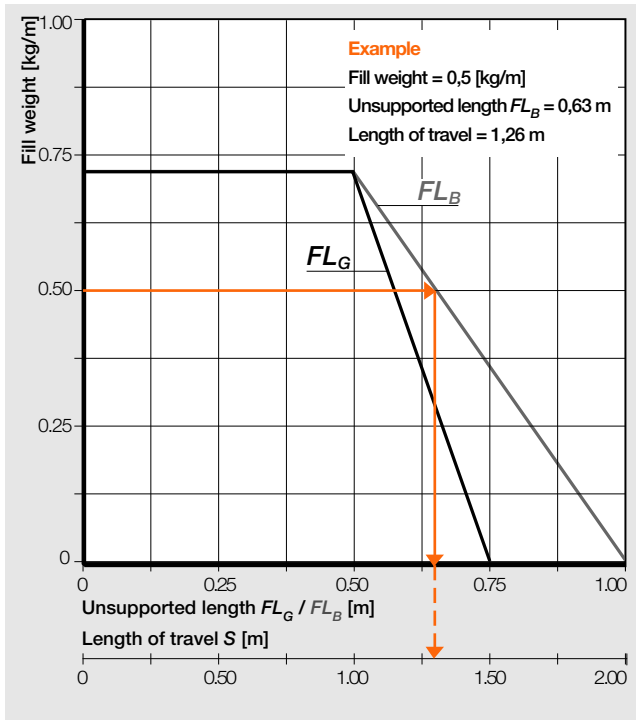


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

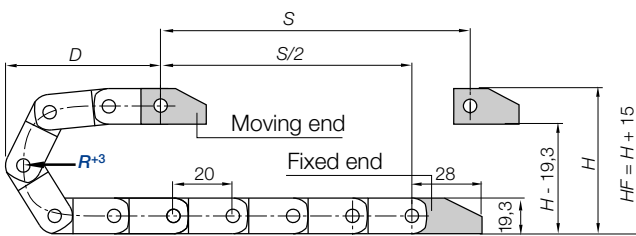


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/09](http://www.igus.de/en/09)



**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 1.8](#)



**Technical Data**

Speed, material, temperature and flammability class ► [page 4.6](#)

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

	028	038	048
<b>R</b>	75	95	115
<b>H</b>	68	78	88
<b>D</b>	130	160	195

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

- i**  $FL_G$  = 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"

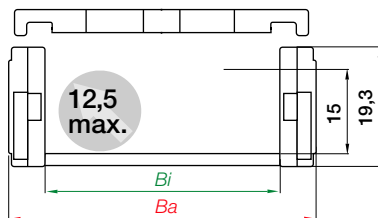
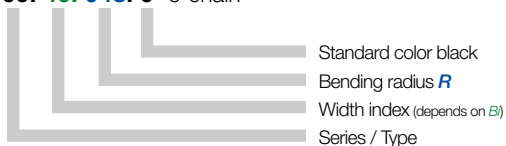



## e-chain® | Series 09 | zip-open along outer radius

e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
09. 10 . <i>R</i> .0	10	18,2	028   038   048	≈ 0,21
09. 16 . <i>R</i> .0	16	24,2	028   038   048	≈ 0,24
09. 20 . <i>R</i> .0	20	28,2	028   038   048	≈ 0,25
09. 30 . <i>R</i> .0	30	38,2	028   038   048	≈ 0,28
09. 40 . <i>R</i> .0	40	48,2	028   038   048	≈ 0,31
09. 50 . <i>R</i> .0	50	58,2	028   038   048	≈ 0,34

Supplement Part No. with required radius (*R*) Example: **09.40.048.0**

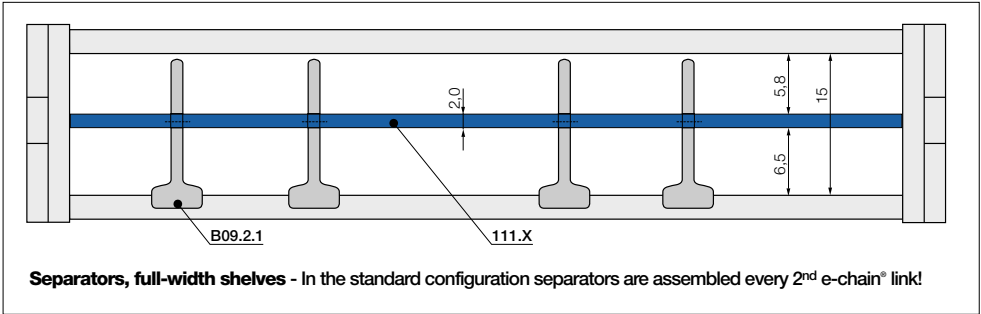
 **Order key**  
**09. 40. 048. 0** e-chain®



 **09.40.048.0** = e-chain® zip-open along outer radius, *Bi* 40 mm inner width, *R* 048 mm radius, color black  
More order examples and configuration options ► page 4.31

 **Part No. of e-chain® links as single parts** ► page 4.7

 **Standard e-chains® available from stock. Delivery in 24h or today!\***  
\*Delivery time means time until shipping of goods



	<p><b>Slotted separator for e-chains®</b>                  unassembled <b>B09.2</b>                  assembled <b>B09.2.1</b></p>
	<p><b>Full-width shelf for e-chains®</b>                  unassembled <b>110.X</b>                  assembled <b>111.X</b></p>

**Slotted separator B09.2**

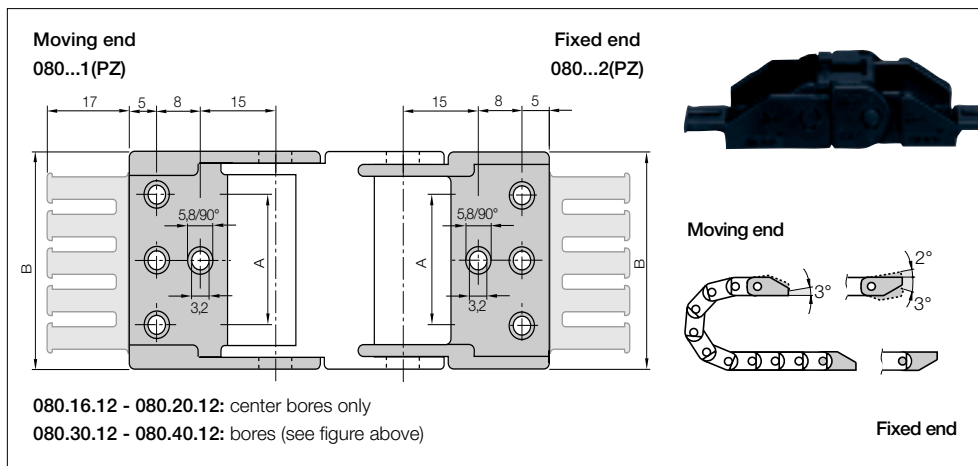
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Full-width shelf 110.X**

this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision.

**Full-width shelves**

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
010	<b>110.10</b>	<b>111.10</b>	020	<b>110.20</b>	<b>111.20</b>	050	<b>110.50</b>	<b>111.50</b>
013	<b>110.13</b>	<b>111.13</b>	030	<b>110.30</b>	<b>111.30</b>			
016	<b>110.16</b>	<b>111.16</b>	040	<b>110.40</b>	<b>111.40</b>			



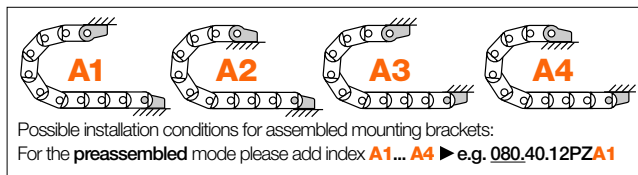
## Polymer locking, one-piece | Universal for e-chains®

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



- 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

080.40.12 PZ A1

- 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**

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

Mounting bracket **Fixed end**

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

### Additional Features



**Quicksnap** - the complete, detachable mounting unit. **Part Nos.** 080.20.QS, 080.30.QS available from stock



**Quickfix** - mounting bracket with dowel, available upon request

**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 10.1



Standard

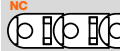
NC-Version -  
(no camber)  
without pretension

ATEX / ESD  
classified e-chains®  
● II 2 GD

Part No.  
Standard  
e-chains®



Part No.  
NC-Material  
e-chains®



Part No.  
ESD-Material  
e-chains®



09.40.R.0

09.40.R.0.NC

09.40.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
5 work days

### Order example | Order key and color options



Order example for complete e-chain® (1,0 m),  
color black, with mounting brackets and interior separation:

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 50 links **09.40.048.0**

+ Mounting brackets 1 set (with integrated strain relief) **080.40.12PZ**

+ Interior separation with 2 separators assembled every 2<sup>nd</sup> link **2 x B09.2.1**

Order text: 1,0 m 09.40.048.0 + 080.40.12PZ + 2 x B09.2.1



Order key  
**09.40.048.0**



### Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

Black e-chains® from stock!

\*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)



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

\*Delivery time means time until shipping of goods



Mounting bracket  
with strain  
relief option

e-tube zip-open  
along outer radius

Lightweight  
and stable

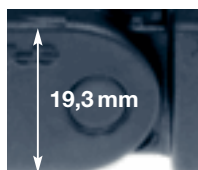
For high  
accelerations

Small pitch  
for low-noise,  
smooth running

Can be separated  
and joined at each link

Protection against  
dirt and chips

Two-piece  
link design



Original size 1:1  
Outer height 19,3 mm

## ⊕ Fast opening, enclosed zipper-band

### When to use Series R09:

- If a very small e-tube with an inner height of 15 mm and smallest bending radii are 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 chip protection is required
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required
- If quick insertion of cables with preassembled connectors is required



### When to use a different igus® Series:

- If an e-chain® with zipper opening mechanism is required
  - ▶ **Series 09 zipper e-chain®**, page 4.26
- If a cheaper, easy to open e-chain® is required
  - ▶ **Series B09 E2 micro**, page 5.66
- If cable installation without opening of lids is required
  - ▶ **Series E08 easy chain®**, page 3.28
- If an e-chain® snap-open along inner radius with film-hinge is required
  - ▶ **Series 094 E2 micro**, page 5.54
- If opening of the links is not necessary
  - ▶ **Series 08 E2 micro**, page 5.60

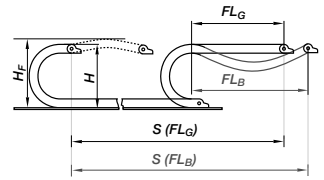
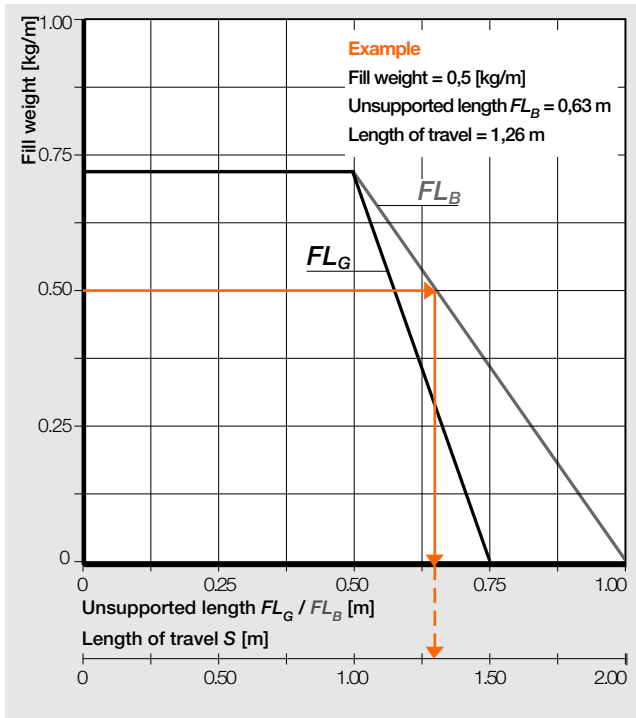


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

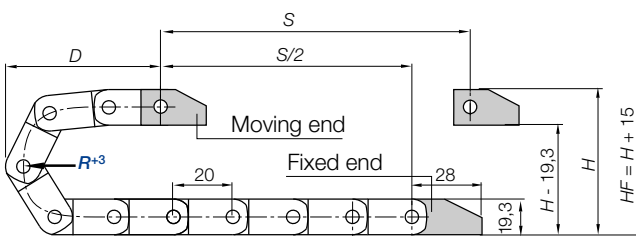


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/R09](http://www.igus.de/en/R09)



**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 1.8**



**Technical Data**

Speed, material, temperature and flammability class ► **page 4.6**

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

<b>R</b>	<b>048</b>	<b>075</b>	<b>100</b>
<b>H</b>	115	169	219
<b>D</b>	88	115	140
<b>K</b>	195	280	355

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

**i**  $FL_G$  = with straight upper run    **S** = Length of travel    **H** = Nominal clearance height    **D** = Overlength e-chain®, radius in final position  
 $FL_B$  = with permitted sag    **R** = Bending radius     $H_F$  = Required clearance height    **K** =  $\pi \cdot R +$  "safety"



## e-tube | Series R09 | zip-open along outer radius

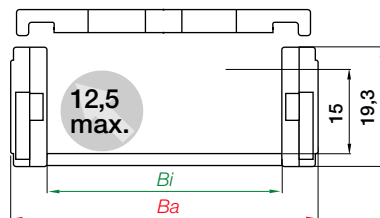
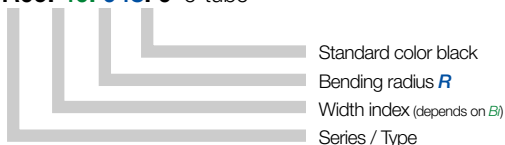
e-tube zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
R09. 10 .R.0	10	18,2	048   075   100	≈ 0,23
R09. 16 .R.0	16	24,2	048   075   100	≈ 0,26
R09. 20 .R.0	20	28,2	048   075   100	≈ 0,27
R09. 30 .R.0	30	38,2	048   075   100	≈ 0,30
R09. 40 .R.0	40	48,2	048   075   100	≈ 0,33
R09. 50 .R.0	50	58,2	048   075   100	≈ 0,36

Supplement Part No. with required radius (*R*) Example: **09.40.048.0**



### Order key

**R09. 40. 048. 0** e-tube



**R09.40.048.0** = e-tube zip-open along outer radius, *Bi* 40 mm inner width, *R* 048 mm radius, color black

More order examples and configuration options ► page 4.36

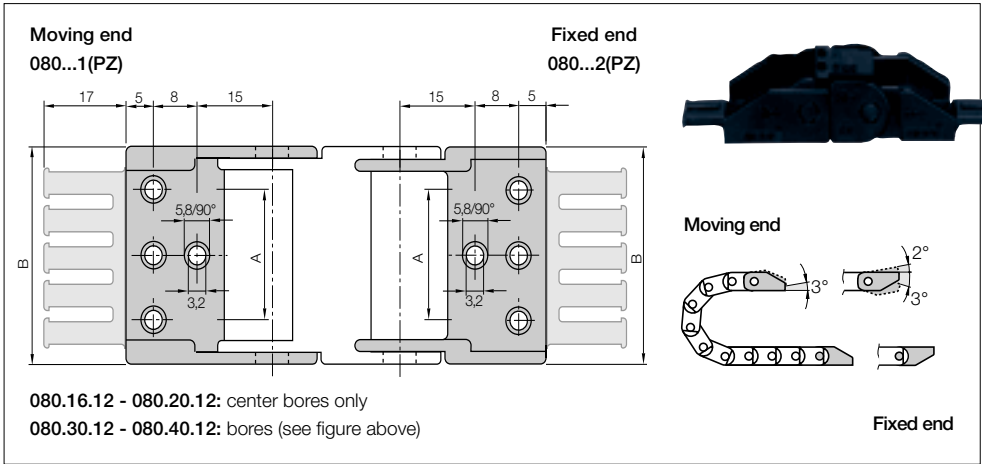


Part No. of e-chain® links as single parts ► page 4.7



Standard e-chains® available from stock. **Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

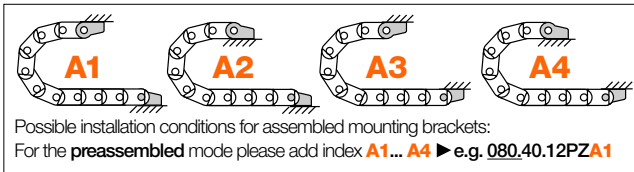


**Polymer locking, one-piece** | Universal for e-tubes  
Recommended for unsupported applications

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

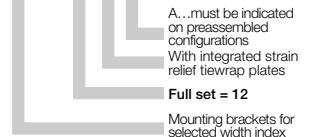


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



**Part No. structure**

080.40.12 PZ **A1**



**Single-part order**

- Mounting bracket **Moving end**  
**080.40.1 PZ A1** (preass. + tiewrap plate)  
Mounting bracket **Fixed end**  
**080.40.2 PZ A1** (preass. + tiewrap plate)

**Additional Features**



**Quicksnap** - the complete, detachable mounting unit. **Part Nos.** 080.20.QS, 080.30.QS available from stock



**Quickfix** - mounting bracket with dowel, available upon request



**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 10.1

**Standard****Part No.**  
**Standard**  
**e-tubes***NC-Version -  
(no camber)  
without pretension***Part No.**  
**NC-Material**  
**e-tubes***ATEX/ESD  
classified e-tubes -  
II 2 GD***Part No.**  
**ESD-Material**  
**e-tubes****R09.40.R.0****R09.40.R.0.NC****R09.40.R.0.ESD****Delivery time**  
**24h or today!\*****Delivery time**  
**3-5 work days****Delivery time**  
**5 work days**

## Order example | Order key and color options

**Order example for complete e-tube (1,0 m),  
color black, with mounting brackets:****e-tube** (1,0 m) Please indicate e-tube length or number of links: 1,0 m or 50 links **R09.40.048.0****+ Mounting brackets** 1 set (with integrated strain relief) **080.40.12PZ**

Order text: 1,0 m R09.40.048.0 + 080.40.12PZ

**Order key****R09.40.048.0**

### Color options for e-chains® and e-tubes

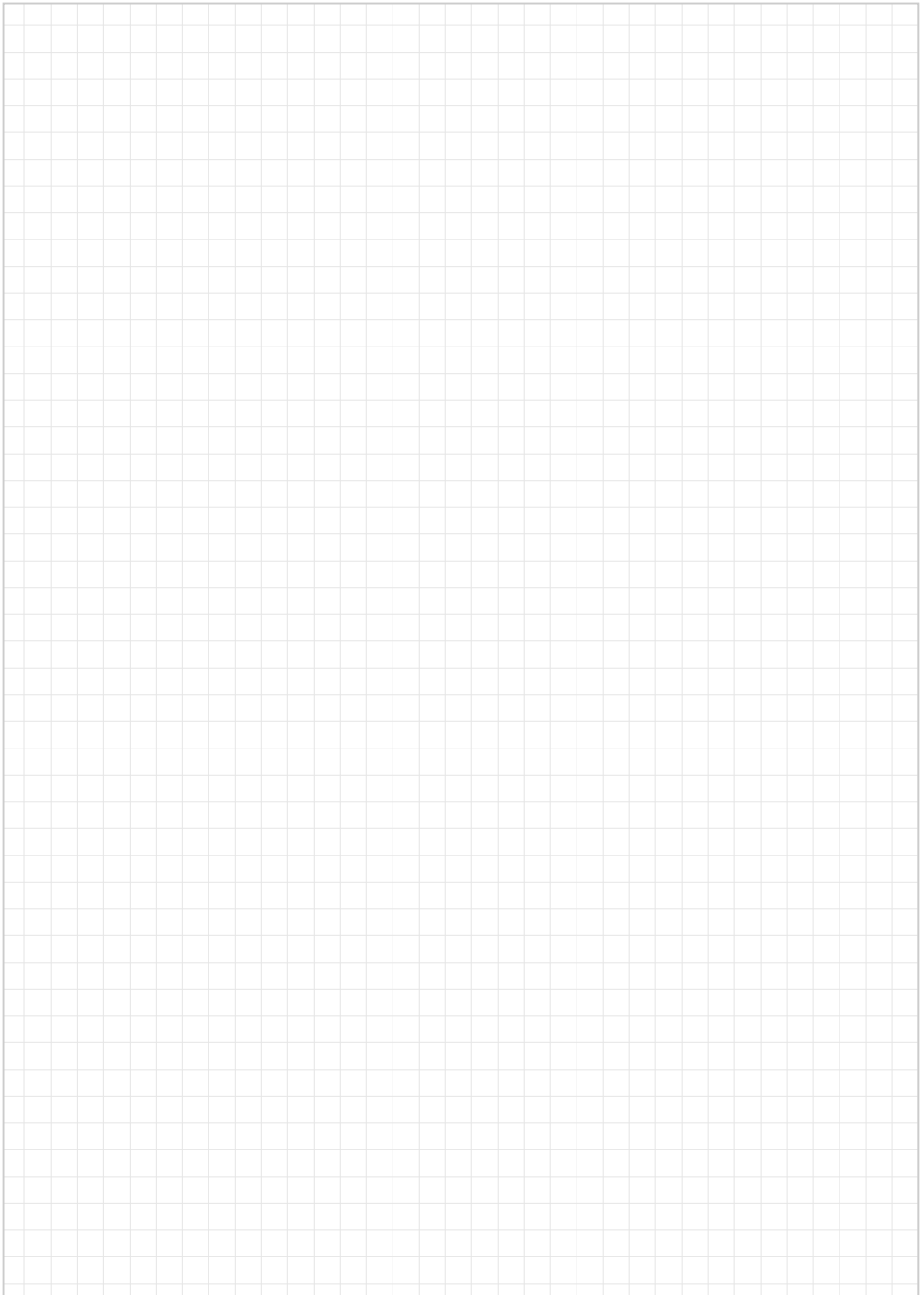
Color	Order index	Color	Order index
black	<b>.0 from stock!</b>	green*	.7
white*	.1	grey*	<b>.3 for e-chains*</b>
violet*	.5	dusty grey*	<b>.3 for e-tubes</b>
yellow*	.4	agate grey*	<b>.11</b>
orange*	.2	light grey*	<b>.14</b>
red*	.6	black grey*	<b>.13</b>
blue*	.8	yellow/black*	<b>.9</b>

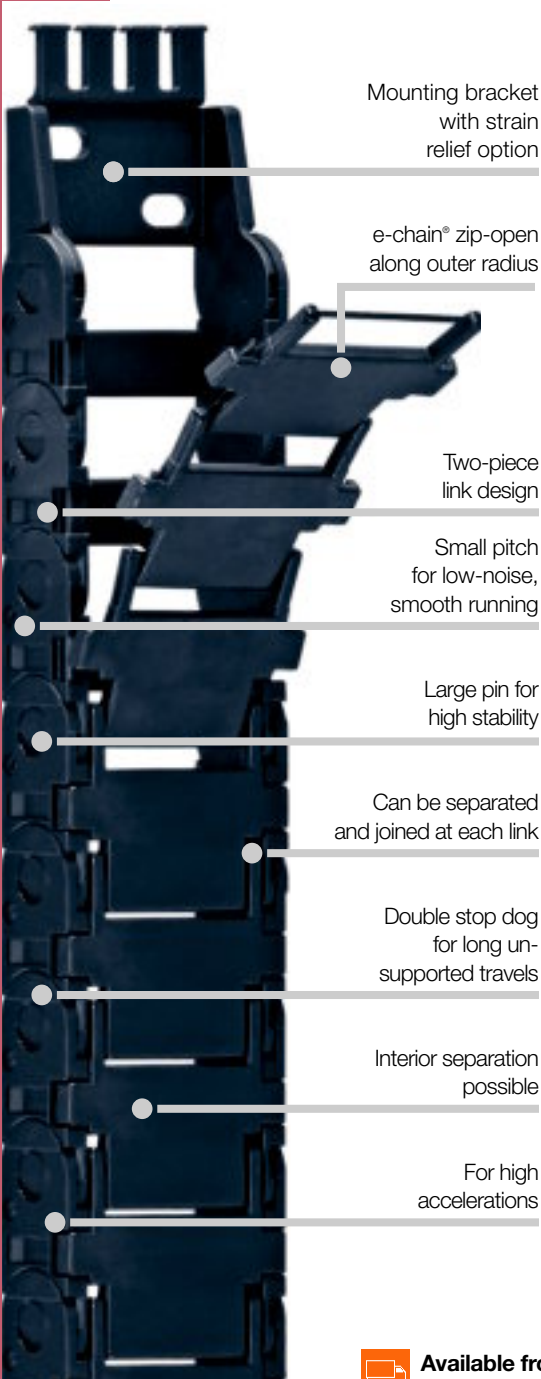
#### Black e-chains\* from stock!

\*Colored e-chains\* delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

\*Delivery time means time until shipping of goods





Mounting bracket  
with strain  
relief option

e-chain® zip-open  
along outer radius

Two-piece  
link design

Small pitch  
for low-noise,  
smooth running

Large pin for  
high stability

Can be separated  
and joined at each link

Double stop dog  
for long un-  
supported travels

Interior separation  
possible

For high  
accelerations

## ⊕ Fast opening, high stability

### When to use Series 15:

- If a very small e-chain® with an inner height of 17 mm and smallest bending radii are required
- For inner widths up to 100 mm
- For unsupported lengths up to 1,20 m and fill weights up to 1,5 kg/m
- If high stability and excellent service life is required
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required



### When to use a different igus® Series:

- If a fully enclosed e-tube with zipper opening mechanism is required
  - ▶ **Series R15 zipper e-tube, page 4.46**
- If snap-open accessibility along the inner radius is required
  - ▶ **Series B15i E2 mini, page 5.112**
- If snap-open links are not necessary
  - ▶ **Series 10 E2 mini, page 5.80**
- If torsion occurs
  - ▶ **Series E14 easy chain®, page 3.32**

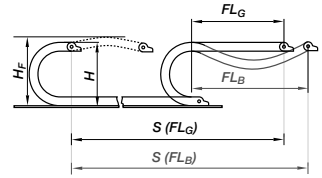
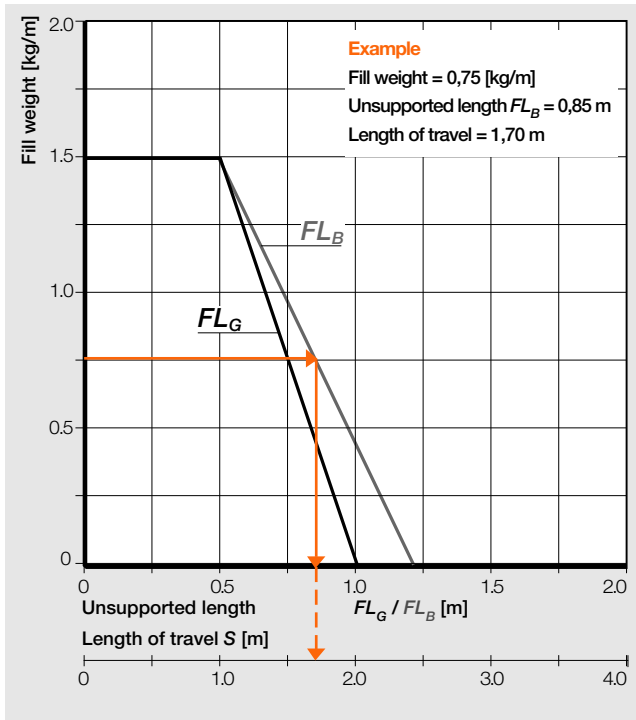


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/15](http://www.igus.de/en/15)



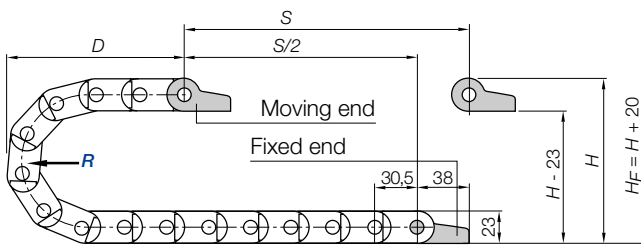
**Standard** **Unsupported applications**

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 1.8**

**Technical Data**

Speed, material, temperature and flammability class ► **page 4.6**

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1006,5 mm)
- Chain length** =  $S/2 + K$



	038	048	075	100	110	125	145	180
<b>R</b>	038	048	075	100	110	125	145	180
<b>H</b>	99	119	173	223	243	273	313	383
<b>D</b>	95	105	132	157	167	182	202	237
<b>K</b>	185	215	300	380	410	455	520	630

The required clearance height:  $H_F = H + 20$  mm (with 0,5 kg/m fill weight)

- i**  $FL_G$  = 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"





## e-chain® | Series 15 | zip-open along outer radius

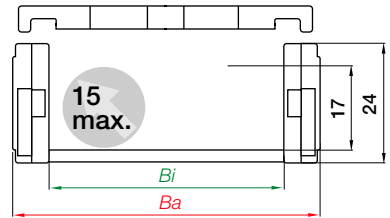
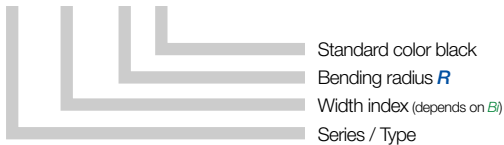
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
15. 015 . <i>R</i> .0	15	26	038   048   075   100   110   125   145   180	≈ 0,35
15. 025 . <i>R</i> .0	25	36	038   048   075   100   110   125   145   180	≈ 0,40
15. 038 . <i>R</i> .0	38	49	038   048   075   100   110   125   145   180	≈ 0,46
15. 050 . <i>R</i> .0	50	61	038   048   075   100   110   125   145   180	≈ 0,52
15. 5 . <i>R</i> .0	63	76	038   048   075   100   110   125   145   180	≈ 0,63
15. 6 . <i>R</i> .0	80	94	038   048   075   100   110   125   145   180	≈ 0,70
15. 7 . <i>R</i> .0	100	113	038   048   075   100   110   125   145   180	≈ 0,76

Supplement Part No. with required radius (*R*) Example: 15.025.038.0



### Order key

15. 025. 038. 0 e-chain®



15.025.038.0 = e-chain® zip-open along outer radius, *Bi* 25 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 4.45

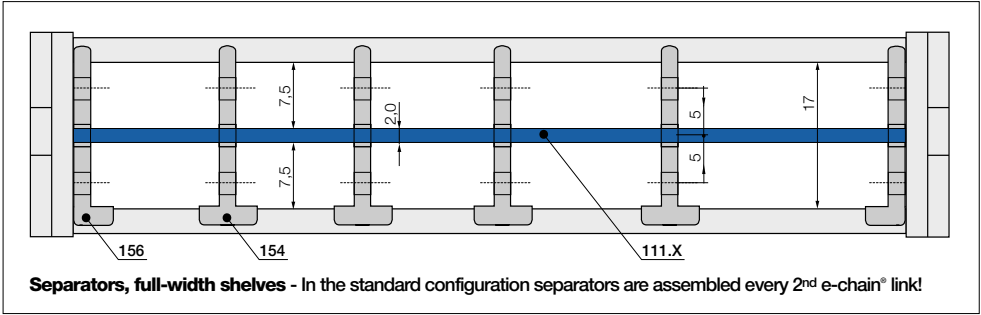


Part No. of e-chain® links as single parts ► page 4.7



Standard e-chains® available from stock. Delivery in 24h or today!\*

\*Delivery time means time until shipping of goods



**Slotted separator for e-chains®**

unassembled	<b>153</b>
assembled	<b>154</b>

**Slotted separator 153**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Side plate for e-chains®**

unassembled	<b>155</b>
assembled	<b>156</b>

**Side plate 155**

Side plate for use with full-width shelf 110.X and slotted separator 153.

**Full-width shelf for e-chains®**

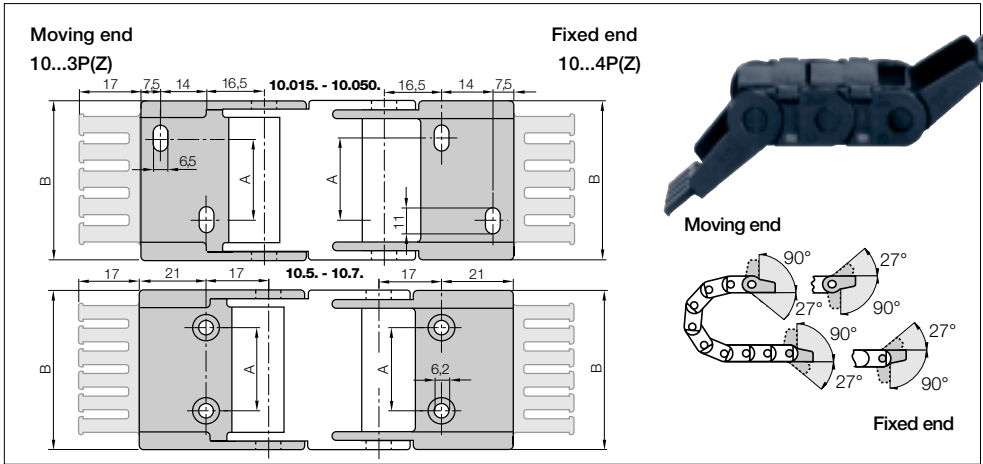
unassembled	<b>110.X</b>
assembled	<b>111.X</b>

**Full-width shelf 110.X**

this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

**Full-width shelves**

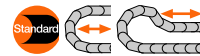
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	<b>110.15</b>	<b>111.15</b>	050	<b>110.50</b>	<b>111.50</b>	100	<b>110.100</b>	<b>111.100</b>
025	<b>110.25</b>	<b>111.25</b>	063	<b>110.63</b>	<b>111.63</b>			
038	<b>110.38</b>	<b>111.38</b>	080	<b>110.80</b>	<b>111.80</b>			



## Polymer pivoting, one-piece | Standard | Universal for e-chains®

Recommended for unsupported and gliding applications

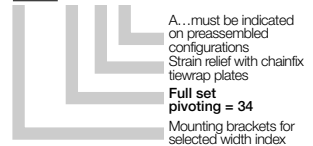
Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
015.	▶ 1015.34PZ	1015.34P	–	25,5	2
025.	▶ 1025.34PZ	1025.34P	10	35,5	3
038.	▶ 1038.34PZ	1038.34P	23	48,5	4
050.	▶ 1050.34PZ	1050.34P	35	60,5	5
5.	▶ 105. 34PZ	105. 34P	48	75,0	6
6.	▶ 106. 34PZ	106. 34P	65	92,0	8
7.	▶ 107. 34PZ	107. 34P	85	112,0	10



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

### Part No. structure

1025. 34 PZ A1



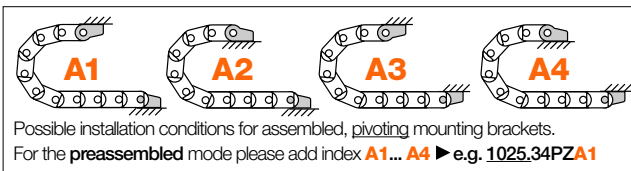
### Single-part order

Mounting bracket **Moving end**

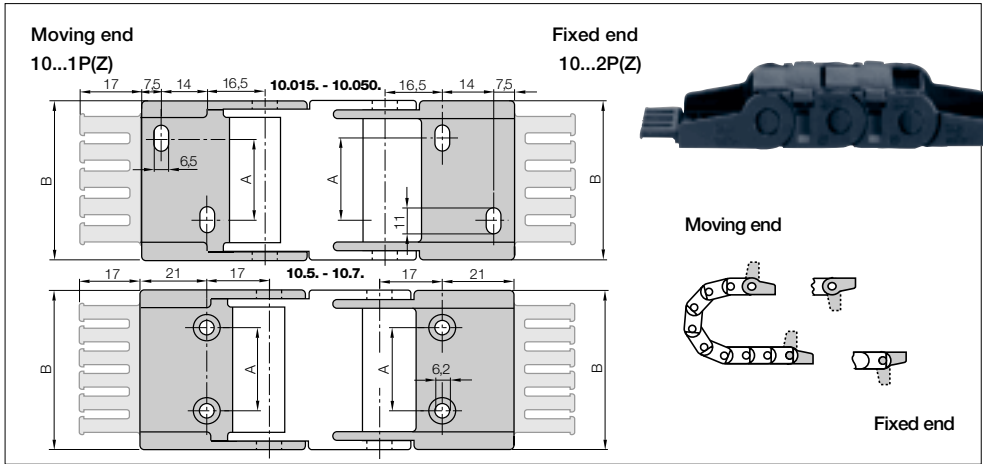
1025. 3 PZ A1 (press. + tiewrap plate)

Mounting bracket **Fixed end**

1025. 4 PZ A1 (press. + tiewrap plate)



**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 10.1



**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
015.	▶ 1015.12PZ	1015.12P	–	25,5	2
025.	▶ 1025.12PZ	1025.12P	10	35,5	3
038.	▶ 1038.12PZ	1038.12P	23	48,5	4
050.	▶ 1050.12PZ	1050.12P	35	60,5	5
5.	▶ 105. 12PZ	105. 12P	48	75,0	6
6.	▶ 106. 12PZ	106. 12P	65	92,0	8
7.	▶ 107. 12PZ	107. 12P	85	112,0	10



- 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 (locking)**

**1025. 12 PZ A1**



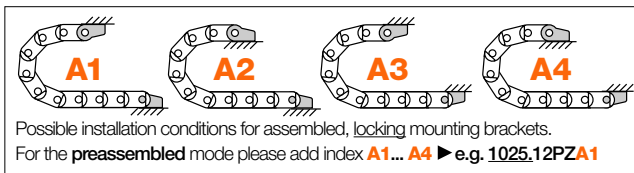
**Single-part order**

Mounting bracket **Moving end**

**1025. 1 PZ A1** (preass. + tiewrap plate)


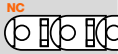




Mounting bracket **Fixed end**

**1025. 2 PZ A1** (preass. + tiewrap plate)




**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 10.1



<p><b>i</b> Standard</p> <p>Part No. Standard e-chains®</p> 	<p>NC-Version - (no camber) without pretension</p> <p>Part No. NC-Material e-chains®</p> 	<p>ATEX / ESD classified e-chains®</p> <p> II 2 GD</p> <p>Part No. ESD-Material e-chains®</p> 
<p> 15.025.R.0</p>	<p>15.025.R.0.NC</p>	<p>15.025.R.0.ESD</p>
<p> Delivery time 24h or today!*</p>	<p>Delivery time 3-5 work days</p>	<p>Delivery time 5 work days</p>

**Order example** | Order key and color options

 Order example for complete e-chain® (1,0 m), color black, with mounting brackets and interior separation:

e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 33 links	15.025.038.0
+ Mounting brackets	1 set (with integrated strain relief)	1025.34PZ
+ Interior separation	with 2 separators assembled every 2 <sup>nd</sup> link	2 x 154

Order text: 1,0 m 15.025.038.0 + 1025.34PZ + 2 x 154

 Order key  
15.025.038.0



Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

Black e-chains® from stock!

\*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

\*Delivery time means time until shipping of goods

Mounting bracket  
with strain  
relief option

e-tube zip-open along  
outer radius

Protection against  
dirt and chips

Large pin for  
high stability

Small pitch  
for low-noise,  
smooth running

Can be separated  
and joined at each link

Double stop dog  
for long un-  
supported travels

Interior separation  
possible

For high  
accelerations

Two-piece  
link design

## ⊕ **Fast opening, enclosed zipper-band**

### When to use Series R15:

- If a very small e-tube with an inner height of 17 mm and smallest bending radii are required
- For inner widths up to 80 mm
- For unsupported lengths up to 1,20 m and fill weights up to 1,5 kg/m
- If chip protection is required
- If high stability and excellent service life is required
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required



### When to use a different igus® Series:

- If an e-chain® with zipper opening mechanism is required
  - ▶ **Series 15 zipper e-chain®**, page 4.38
- If snap-open accessibility along the inner radius is required
  - ▶ **Series B15i E2 mini**, page 5.112
- If snap-open links are not necessary
  - ▶ **Series 10 E2 mini**, page 5.80
- If torsion occurs
  - ▶ **Series E14 easy chain®**, page 3.32

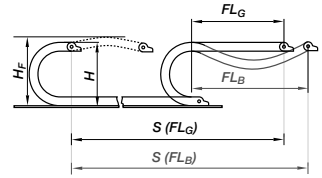
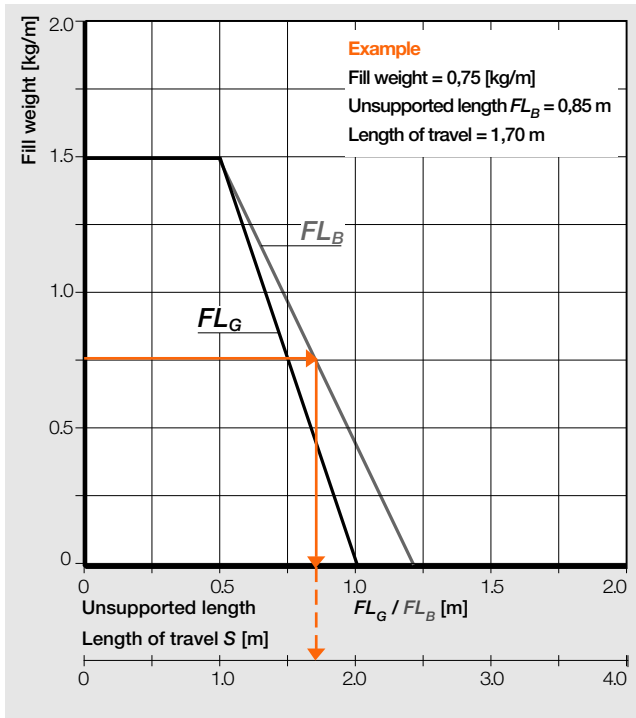


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/R15](http://www.igus.de/en/R15)



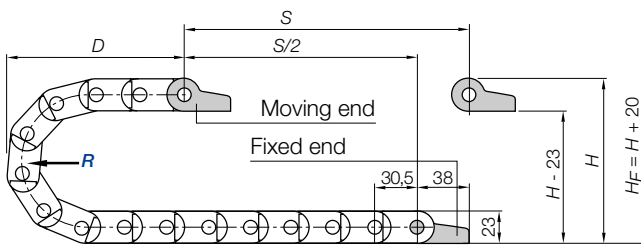
**Standard** **Unsupported applications**

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 1.8**

**Technical Data**

Speed, material, temperature and flammability class ► **page 4.6**

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1006,5 mm)
- Chain length** =  $S/2 + K$



<b>R</b>	063	075	100	110	125	145	180
<b>H</b>	149	173	223	243	273	313	383
<b>D</b>	120	132	157	167	182	202	237
<b>K</b>	260	300	380	410	455	520	630

The required clearance height:  $H_F = H + 20$  mm (with 0,5 kg/m fill weight)

- i**  $FL_G$  = 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"










## e-tube | Series R15 | zip-open along outer radius

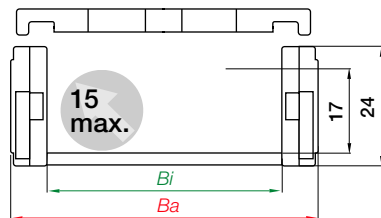
e-tube zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
R15. 015 . <i>R</i> .0*	15	26	063   075   100   110   125   145   180	≈ 0,40
R15. 025 . <i>R</i> .0	25	36	063   075   100   110   125   145   180	≈ 0,45
R15. 038 . <i>R</i> .0	38	49	063   075   100   110   125   145   180	≈ 0,51
R15. 050 . <i>R</i> .0*	50	61	063   075   100   110   125   145   180	≈ 0,57
R15. 063 . <i>R</i> .0	63	76	063   075   100   110   125   145   180	≈ 0,68
R15. 080 . <i>R</i> .0	80	94	063   075   100   110   125   145   180	≈ 0,75
R15. 100 . <i>R</i> .0*	100	113	063   075   100   110   125   145   180	≈ 0,81

\*Width available upon request. Delivery time approx. 6-8 weeks after order.

Supplement Part No. with required radius (*R*) Example: **R15.025.038.0**

 **Order key**  
**R15. 025. 038. 0** e-tube

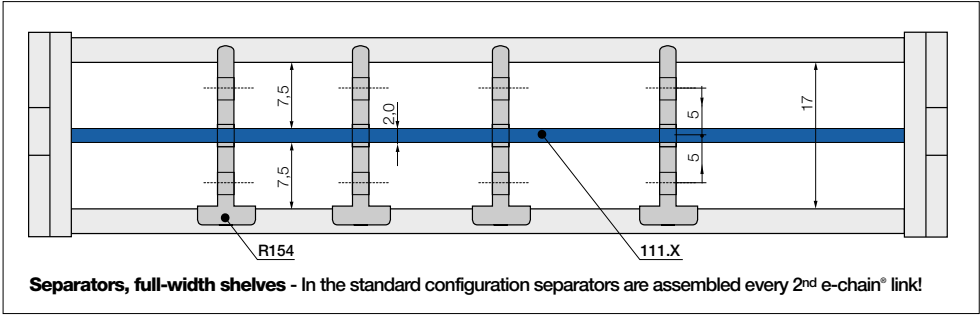

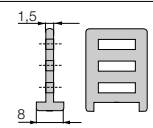
-  Standard color black
-  Bending radius *R*
-  Width index (depends on *Bi*)
-  Series / Type



 **R15.025.038.0** = e-tube zip-open along outer radius, *Bi* 25 mm inner width, *R* 038 mm radius, color black  
 More order examples and configuration options ► page 4.53

 **Part No. of e-chain® links as single parts** ► page 4.7


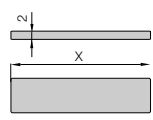
 **Standard e-chains® available from stock. Delivery in 24h or today!\***  
 \*Delivery time means time until shipping of goods

**Slotted separator for e-tubes**  
 unassembled **R153**  
 assembled **R154**

**Slotted separator R153**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

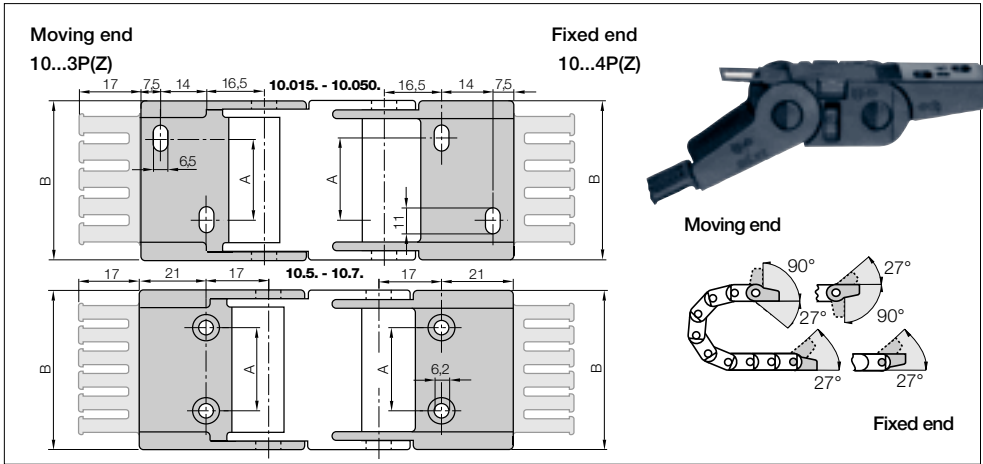
**Full-width shelf for e-tubes**  
 unassembled **110.X**  
 assembled **111.X**

**Full-width shelf 110.X**

this option makes sense in applications with many thin cables with similar diameters. For a consequent sub-division. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

**Full-width shelves**

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
025	<b>110.25</b>	<b>111.25</b>	063	<b>110.63</b>	<b>111.63</b>
038	<b>110.38</b>	<b>111.38</b>	080	<b>110.80</b>	<b>111.80</b>

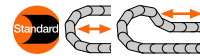


## Polymer pivoting, one-piece | Standard | Universal for e-tubes

Recommended for unsupported and gliding 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
015.* ▶	1015.34PZ	1015.34P	–	25,5	2
025. ▶	1025.34PZ	1025.34P	10	35,5	3
038. ▶	1038.34PZ	1038.34P	23	48,5	4
050.* ▶	1050.34PZ	1050.34P	35	60,5	5
063. ▶	105. 34PZ	105. 34P	48	75,0	6
080. ▶	106. 34PZ	106. 34P	65	92,0	8
100.* ▶	107. 34PZ	107. 34P	85	112,0	10

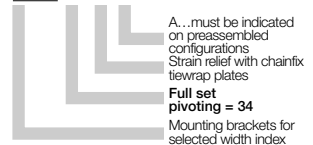
\*Width available upon request.



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

### Part No. structure

1025. 34 PZ A1



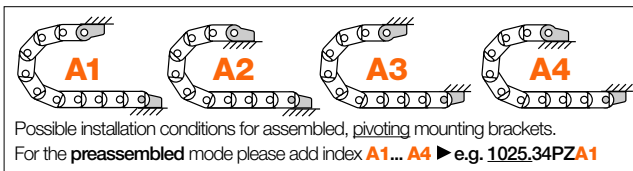
### Single-part order

Mounting bracket **Moving end**

1025. 3 PZ A1 (preass. + tiewrap plate)

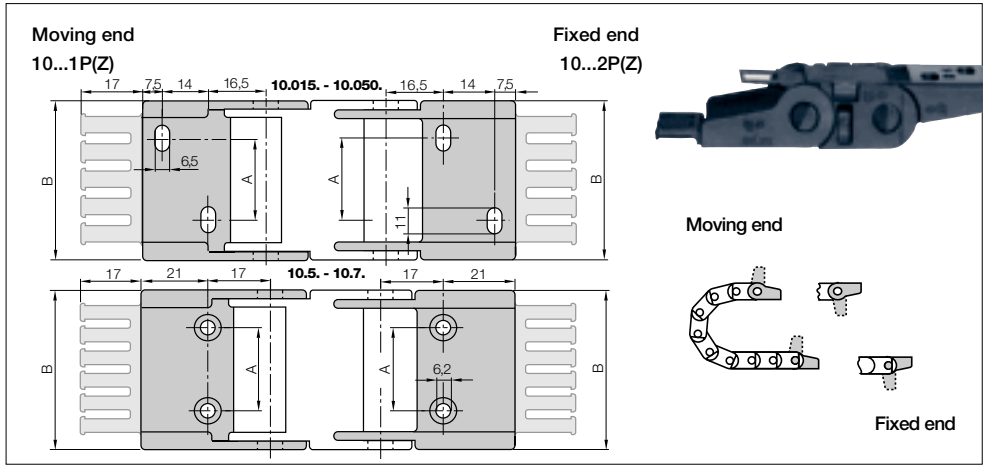
Mounting bracket **Fixed end**

1025. 4 PZ A1 (preass. + tiewrap plate)



**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 10.1

For very high speed and acceleration



**Polymer locking, one-piece** | Universal for e-tubes  
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
015.*	▶ 1015.12PZ	1015.12P	–	25,5	2
025.	▶ 1025.12PZ	1025.12P	10	35,5	3
038.	▶ 1038.12PZ	1038.12P	23	48,5	4
050.*	▶ 1050.12PZ	1050.12P	35	60,5	5
063.	▶ 105. 12PZ	105. 12P	48	75,0	6
080.	▶ 106. 12PZ	106. 12P	65	92,0	8
100.*	▶ 107. 12PZ	107. 12P	85	112,0	10

\*Width available upon request.



- 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 (locking)**

**1025. 12 PZ A1**



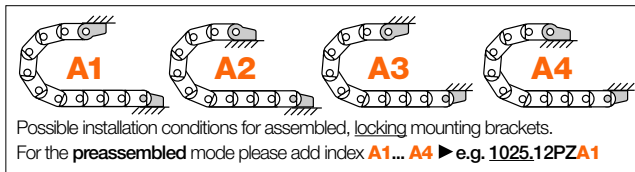
**Single-part order**

Mounting bracket **Moving end**

**1025. 1 PZ A1** (preass. + tiewrap plate)

Mounting bracket **Fixed end**

**1025. 2 PZ A1** (preass. + tiewrap plate)



 **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 10.1





Standard

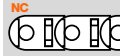
NC-Version -  
(no camber)  
without pretension

ATEX/ESD  
classified e-tubes -  
II 2 GD

Part No.  
Standard  
e-tubes



Part No.  
NC-Material  
e-tubes



Part No.  
ESD-Material  
e-tubes



R15.025.R.0

R15.025.R.0.NC

R15.025.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
5 work days

**Order example** | Order key and color options



Order example for complete e-tube (1,0 m),  
color black, with mounting brackets and interior separation:

e-tube (1,0 m)	Please indicate e-tube length or number of links: 1,0 m or 33 links	<b>R15.025.038.0</b>
+ Mounting brackets	1 set (with integrated strain relief)	<b>1025.34PZ</b>
+ Interior separation	with 2 separators assembled every 2 <sup>nd</sup> link	<b>2 x R154</b>

Order text: 1,0 m R15.025.038.0 + 1025.34PZ + 2 x R154



Order key  
**R15.025.038.0**



Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains*
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

Black e-chains\* from stock!

\*Colored e-chains\* delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)



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

\*Delivery time means time until shipping of goods

Mounting bracket  
with strain  
relief option

e-chain® zip-open  
along outer radius

Two-piece  
link design

For high  
accelerations

Small pitch  
for low-noise,  
smooth running

Can be separated  
and joined at each link

Interior separation  
possible

## ⊕ Fast opening, large inner height

### When to use Series 17 E2 mini:

- If an 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 1,5 kg/m
- If a very small e-chain® with a large inner height is required
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required



### When to use a different igus® Series:

- If a fully enclosed e-tube with zipper opening mechanism is required
- ▶ **Series R17 zipper e-tube, page 4.60**
- If snap-open accessibility along the inner radius is required
- ▶ **Series B17i E2 mini, page 5.120**
- If maximum stability is required
- ▶ **Series R4.32, page 7.42**
- If torsion occurs
- ▶ **Series E16/Z16 easy chain®, page 3.42**

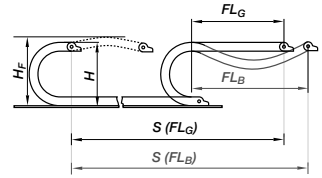
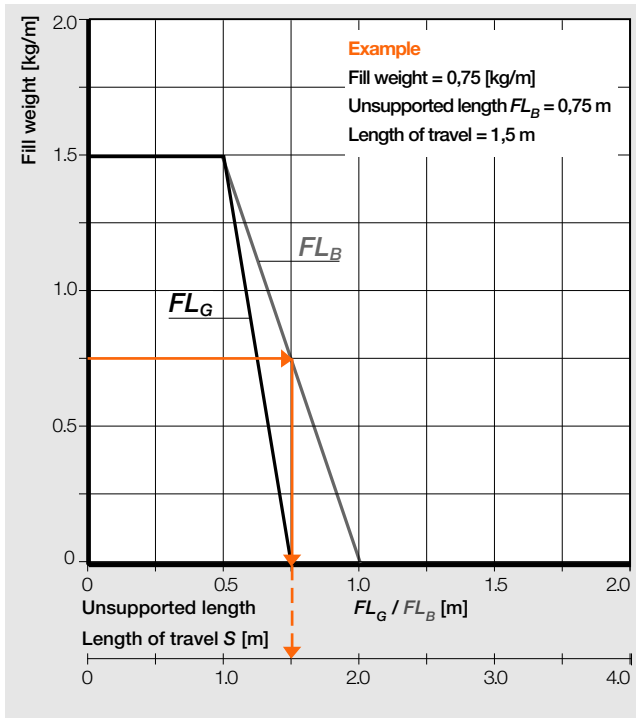


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

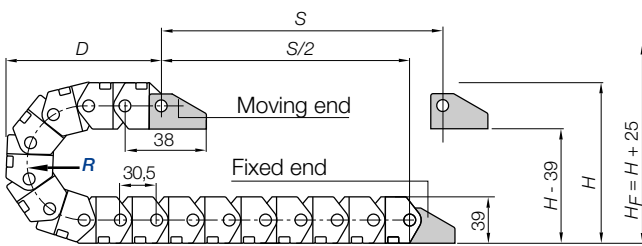


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/17](http://www.igus.de/en/17)



**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 1.8](#)



**Technical Data**

Speed, material, temperature and flammability class ► [page 4.6](#)

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1006,5 mm)
- Chain length** =  $S/2 + K$

	063	075	100	125
<b>R</b>	165	189	239	289
<b>H</b>	128	140	165	190
<b>D</b>	260	300	380	455
<b>K</b>				

The required clearance height:  $H_F = H + 25$  mm (with 1,5 kg/m fill weight)

- i**  $FL_G$  = 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"





## e-chain® | Series 17 | zip-open along outer radius

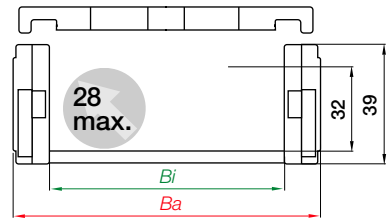
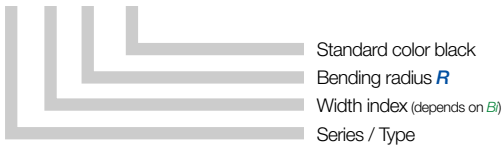
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
17. 1 .R.0	15	25,5	063   075   100   125	≈ 0,52
17. 2 .R.0	25	35,5	063   075   100   125	≈ 0,59
17. 3 .R.0	38	48,5	063   075   100   125	≈ 0,65
17. 4 .R.0	50	60,5	063   075   100   125	≈ 0,70
17. 5 .R.0	63	76	063   075   100   125	≈ 0,83
17. 6 .R.0	80	93	063   075   100   125	≈ 0,92
17. 7 .R.0	100	113	063   075   100   125	≈ 1,06

Supplement Part No. with required radius (*R*) Example: 17.2.075.0



### Order key

17. 2. 075. 0 e-chain®



17.2.075.0 = e-chain® snap-open along outer radius, *Bi* 25 mm inner width, *R* 075 mm radius, color black  
More order examples and configuration options ► page 4.59

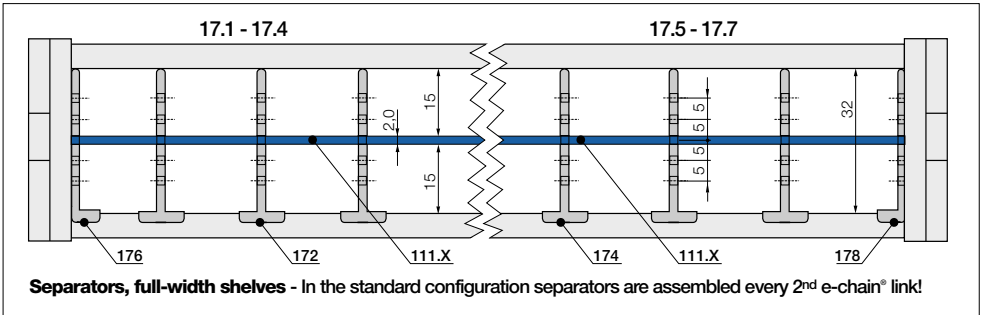


Part No. of e-chain® links as single parts ► page 4.7



Standard e-chains® available from stock. Delivery in 24h or today!\*

\*Delivery time means time until shipping of goods



**Slotted separator for 17.1 up to 17.4**

unassembled	<b>171</b>
assembled	<b>172</b>

**Slotted separator 171** (17.1 up to 17.4) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Side plate for 17.1 up to 17.4**

unassembled	<b>175</b>
assembled	<b>176</b>

**Side plate 175** (17.1 up to 17.4) Side plate for use with full-width shelf 110.X and slotted separator 171.

**Slotted separator for 17.5 bis 17.7**

unassembled	<b>173</b>
assembled	<b>174</b>

**Slotted separator 173** (17.5 up to 17.7) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Side plate for 17.5 bis 17.7**

unassembled	<b>177</b>
assembled	<b>178</b>

**Side plate 177** (17.5 up to 17.7) Side plate for use with full-width shelf 110.X and slotted separator 174.

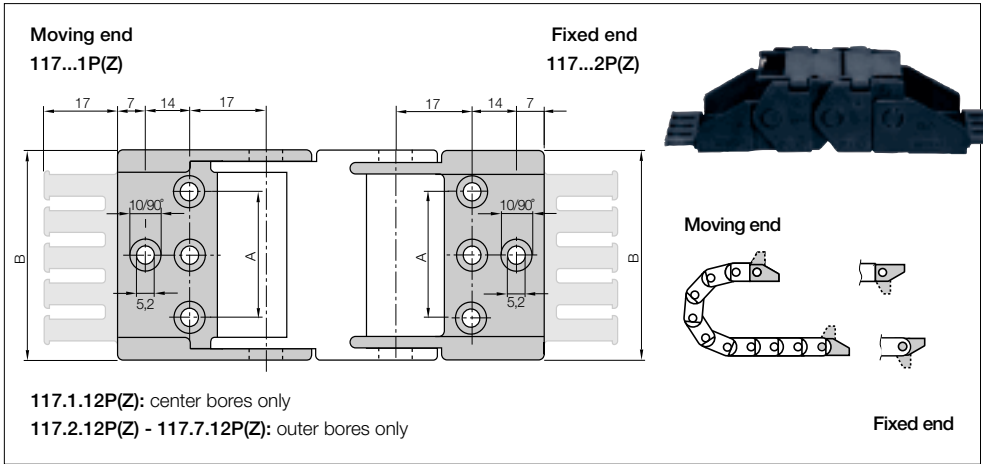
**Full-width shelf for all widths**

unassembled	<b>110.X</b>
assembled	<b>111.X</b>

**Full-width shelf 110.X** (for all widths) this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

**Full-width shelves (for all widths)**

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	<b>110.15</b>	<b>111.15</b>	050	<b>110.50</b>	<b>111.50</b>	100	<b>110.100</b>	<b>111.100</b>
025	<b>110.25</b>	<b>111.25</b>	063	<b>110.63</b>	<b>111.63</b>			
038	<b>110.38</b>	<b>111.38</b>	080	<b>110.80</b>	<b>111.80</b>			



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

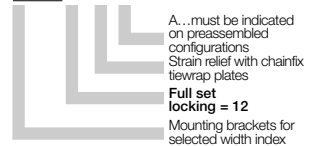
Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
1.	▶ 117.1.12PZ	117.1.12P	–	25,5	2
2.	▶ 117.2.12PZ	117.2.12P	12	35,5	3
3.	▶ 117.3.12PZ	117.3.12P	25	48,5	4
4.	▶ 117.4.12PZ	117.4.12P	37	60,5	5
5.	▶ 117.5.12PZ	117.5.12P	48	76	6
6.	▶ 117.6.12PZ	117.6.12P	65	93	8
7.	▶ 117.7.12PZ	117.7.12P	85	113	10



- 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

117.2.12 PZ A1



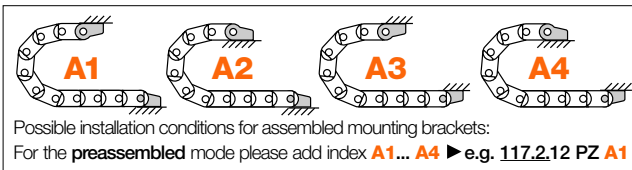
#### Single-part order

Mounting bracket **Moving end**


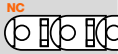


117.2.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**


117.2.2 PZ A1 (preass. + tiewrap plate)



**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 10.1

<p><b>i</b> Standard</p> <p>Part No. Standard e-chains®</p>  <p><b>17.2.R.0</b></p> <p><b>Delivery time</b> 24h or today!*</p>	<p>NC-Version - (no camber) without pretension</p> <p>Part No. NC-Material e-chains®</p>  <p><b>17.2.R.0.NC</b></p> <p><b>Delivery time</b> 3-5 work days</p>	<p>ATEX / ESD classified e-chains®</p>  <p>Part No. ESD-Material e-chains®</p>  <p><b>17.2.R.0.ESD</b></p> <p><b>Delivery time</b> 5 work days</p>
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**Order example** | Order key and color options

 **Order example for complete e-chain® (1,0 m), color black, with mounting brackets and interior separation:**

e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 33 links	<b>17.2.075.0</b>
+ Mounting brackets	1 set (with integrated strain relief)	<b>117.2.12PZ</b>
+ Interior separation	with 2 separators assembled every 2 <sup>nd</sup> link	<b>2 x 172</b>

Order text: 1,0 m 17.2.075.0 + 117.2.12PZ + 2 x 172

 **Order key**  
**17.025.038.0**



**Color options for e-chains® and e-tubes**

Color	Order index	Color	Order index
black	<b>.0 from stock!</b>	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

**Black e-chains® from stock!**

\*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

\*Delivery time means time until shipping of goods

Mounting bracket  
with strain  
relief option

e-tube zip-open along  
outer radius

Large pin for  
high stability

Protection against  
dirt and chips

Small pitch  
for low-noise,  
smooth running

Can be separated  
and joined at each link

Double stop dog  
for long un-  
supported travels

Interior separation  
possible

For high  
accelerations

Two-piece  
link design

## ⊕ **Fast opening, enclosed zipper-band**

### When to use Series R17:

- If a very small e-tube with an inner height of 32 mm and smallest bending radii are required
- For inner widths up to 63 mm
- For unsupported lengths up to 1,20 m and fill weights up to 1,5 kg/m
- If chip protection is required
- If high stability and excellent service life is required
- Small pitch for smooth running
- If fast, zipper-like accessibility to cables is required



### When to use a different igus® Series:

- If an e-chain® with zipper opening mechanism is required
  - ▶ **Series 17 zipper e-chain®**, page 4.54
- If snap-open accessibility along the inner radius is required
  - ▶ **Series B17i E2 mini**, page 5.112
- If maximum stability is required
  - ▶ **Series R4.32**, page 7.42
- If torsion occurs
  - ▶ **Series E16/Z16 easy chain®**, page 3.42
- For gliding applications
  - ▶ **Series 2600/2700/2650/2680 E2/000**, page 5.182

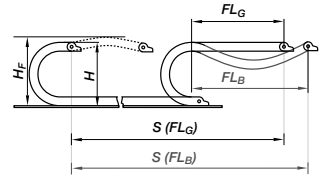
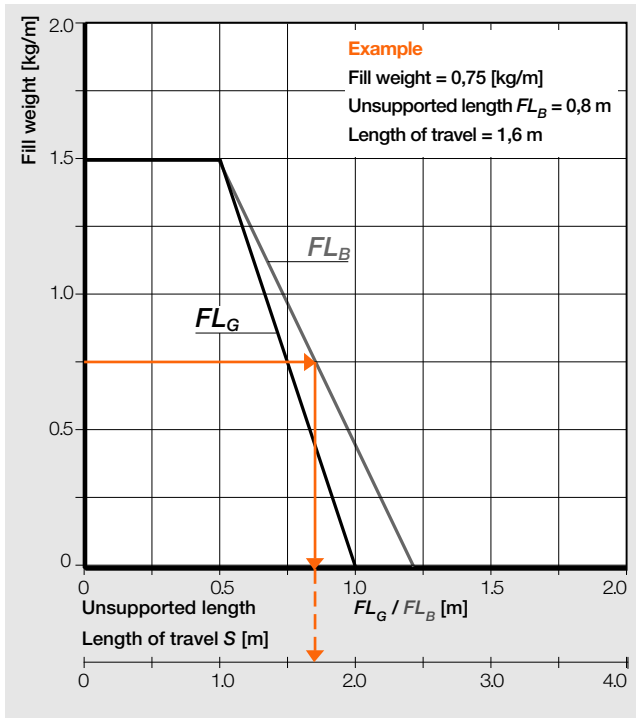


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/R17](http://www.igus.de/en/R17)



**Unsupported applications**

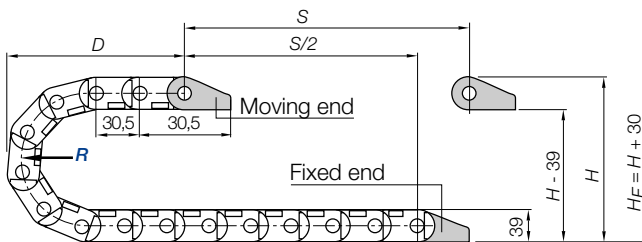
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height  $H_F$ . Please consult igus® if space is particularly restricted. More information ► [Design, page 1.8](#)



**Technical Data**

Speed, material, temperature and flammability class ► [page 4.6](#)

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1006,5 mm)
- Chain length** =  $S/2 + K$



<b>R</b>	<b>063</b>	<b>075</b>	<b>100</b>	<b>125</b>
<b>H</b>	165	189	239	289
<b>D</b>	128	140	165	190
<b>K</b>	260	300	380	455

The required clearance height:  $H_F = H + 30$  mm (with 0,5 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  
 $K = \pi \cdot R + \text{"safety"}$



## e-tube | Series R17 | zip-open along outer radius

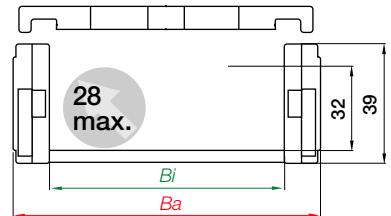
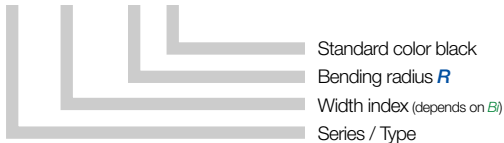
e-tube zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
<b>R17.015.R.0</b>	15	26	063   075   100   125	≈ 0,57
<b>R17.025.R.0</b>	25	36	063   075   100   125	≈ 0,64
<b>R17.063.R.0</b>	63	76	063   075   100   125	≈ 0,88

Supplement Part No. with required radius (*R*) Example: **R17.015.063.0**



### Order key

**R17.015.063.0** e-tube



**R17.015.063.0** = e-tube zip-open along outer radius, *Bi* 15 mm inner width, *R* 063 mm radius, color black  
 More order examples and configuration options ► page 4.65

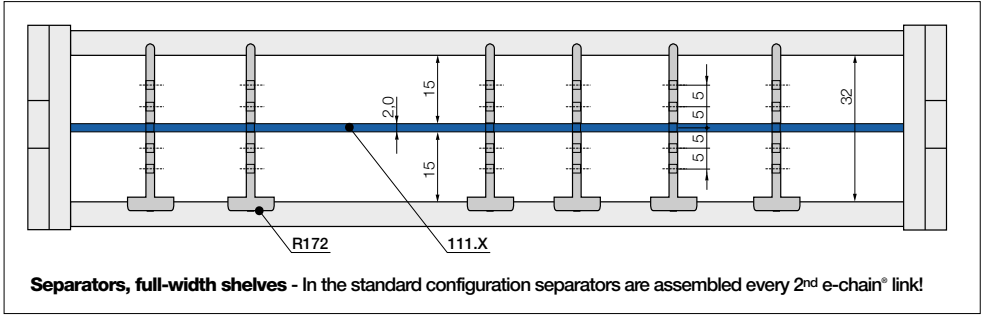


**Part No. of e-chain® links as single parts** ► page 4.7



**Standard e-chains® available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



**Slotted separator for e-tubes**  
 unassembled **R171**  
 assembled **R172**

**Slotted separator R171**  
 is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

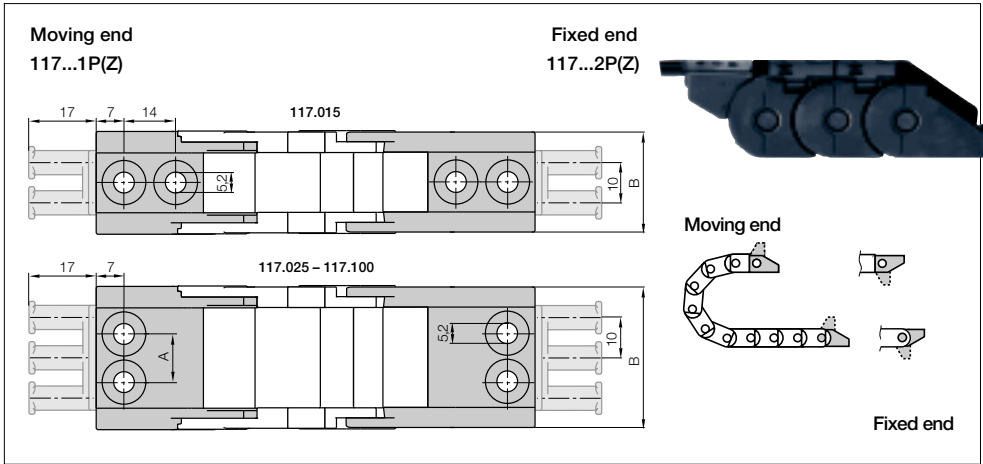
**Full-width shelf for e-tubes**  
 unassembled **110.X**  
 assembled **111.X**

**Full-width shelf 110.X**  
 this option makes sense in applications with many thin cables with similar diameters. For a consequent sub-division. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

**Full-width shelves**

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	<b>110.15</b>	<b>111.15</b>	063	<b>110.63</b>	<b>111.63</b>
025	<b>110.25</b>	<b>111.25</b>			



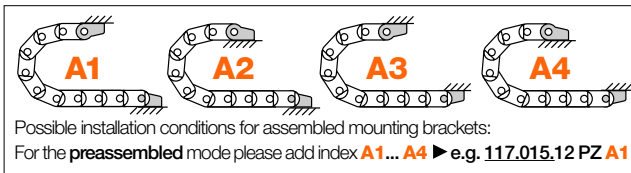


**Polymer locking, one-piece** | Universal for e-tubes  
Recommended for unsupported applications

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
015	▶ 117.015.12PZ	117.015.12P	–	27,7	2
025	▶ 117.025.12PZ	117.025.12P	12	35,7	3
063	▶ 117.063.12PZ	117.063.12P	48	73,7	6



- 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

**117.015.12 PZ A1**



#### Single-part order

Mounting bracket **Moving end**

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

Mounting bracket **Fixed end**

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



**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 10.1



Standard

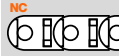
NC-Version -  
(no camber)  
without pretension

ATEX/ESD  
classified e-tubes -  
II 2 GD

Part No.  
Standard  
e-tubes



Part No.  
NC-Material  
e-tubes



Part No.  
ESD-Material  
e-tubes



R17.015.R.0

R17.015.R.0.NC

R17.015.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
5 work days

## Order example | Order key and color options



Order example for complete e-tube (1,0 m),  
color black, with mounting brackets and interior separation:

e-tube (1,0 m)	Please indicate e-tube length or number of links: 1,0 m or 33 links	R17.015.063.0
+ Mounting brackets	1 set (with integrated strain relief)	117.015.12PZ
+ Interior separation	with 2 separators assembled every 2 <sup>nd</sup> link	2 x R172

Order text: 1,0 m R17.015.063.0 + 117.015.12PZ + 2 x R172



Order key  
R17.015.063.0



### Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains*
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

Black e-chains\* from stock!

\*Colored e-chains\* delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)



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

\*Delivery time means time until shipping of goods