



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/s² 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



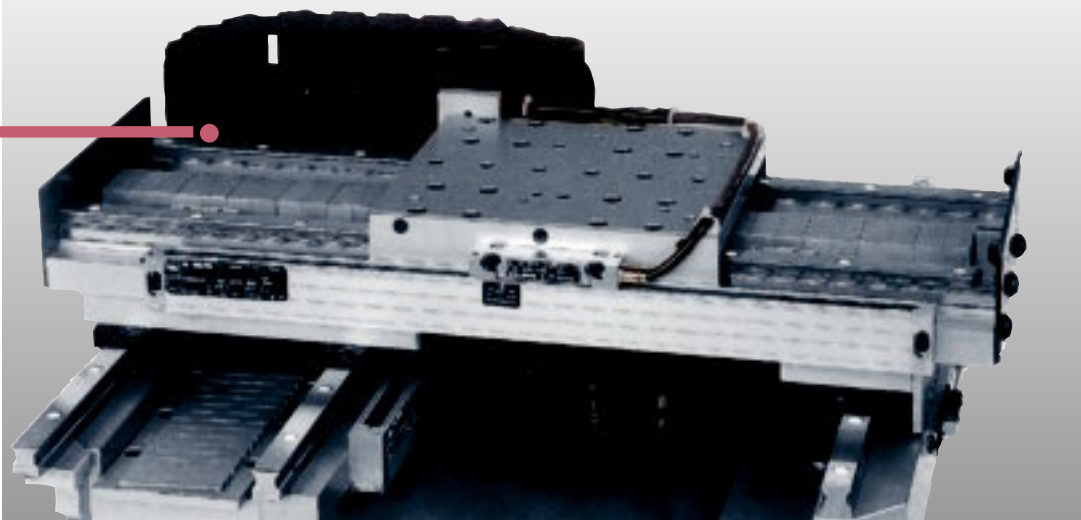
58 dB(A) tested in igus® lab,
v = 1,0 m/s unsupported, Series 09.50.028.0



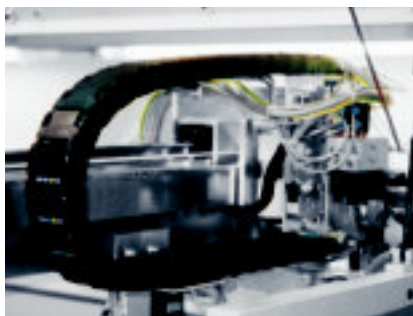
UL94 - V2 classifications
upon request



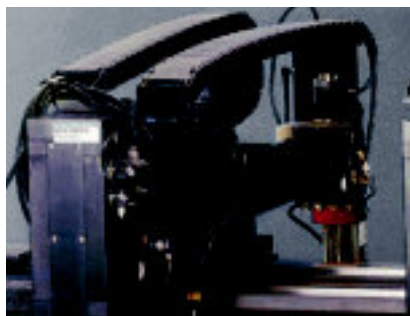
Fast Opening and Closing
with "zipper"



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



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



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

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

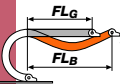


Assembly video available online at ► www.igus.de/en/zipper_assembly

Technical Data - zipper



Gliding speed / acceleration (maximum) max. 10 [m/s] / max. 50 [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]



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

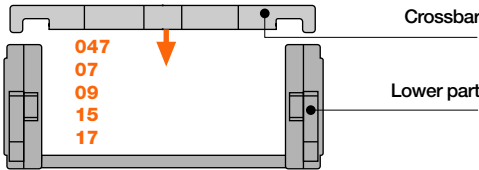
Installation methods overview, maximum travels - zipper

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			

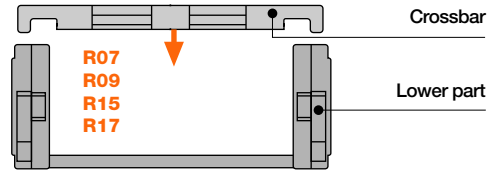


Part No. two-piece e-chain® links as single parts - zipper

e-chains® - zip-open along outer radius



e-tubes - zip-open along outer radius



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>

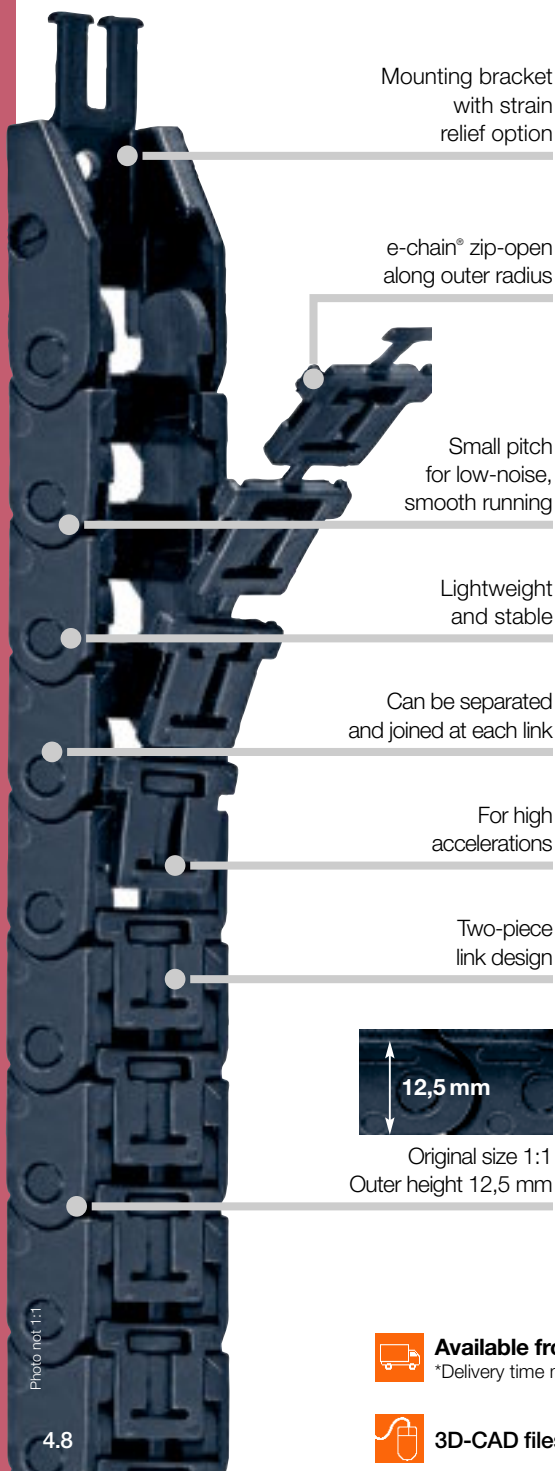
* Lids: supplement Part No. with required width index (*Bi*) Example: 071.40

** 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**

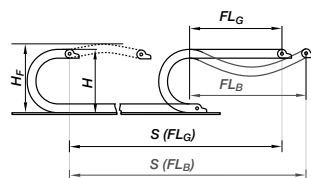
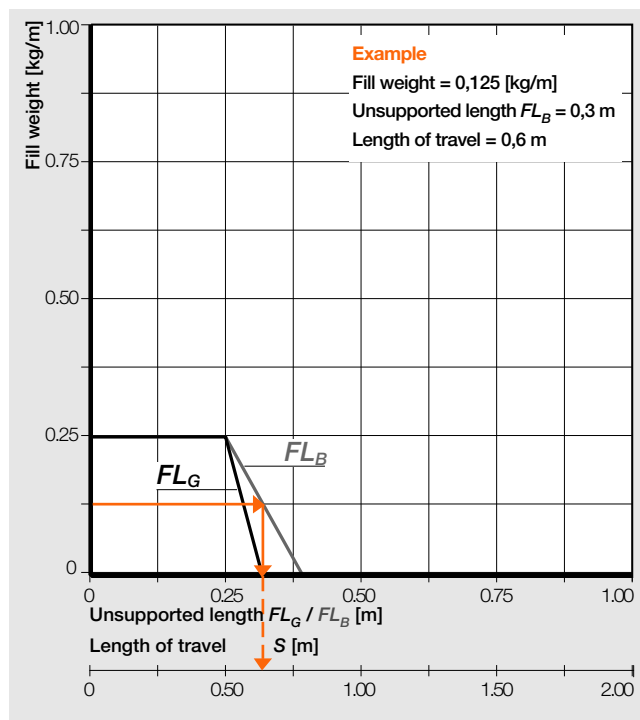


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

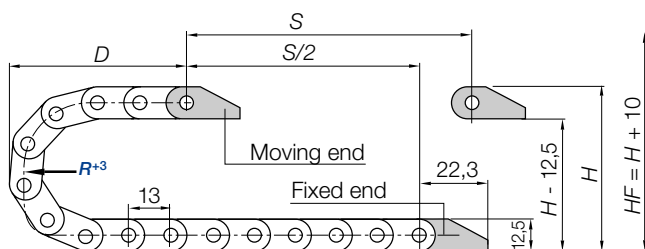


3D-CAD files, configurators, PDF ► www.igus.de/en/047



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 = $S/2 + K$

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 0,2 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
 $K = \pi \cdot R + \text{"safety"}$



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

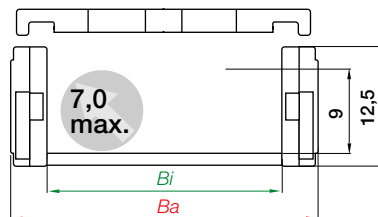
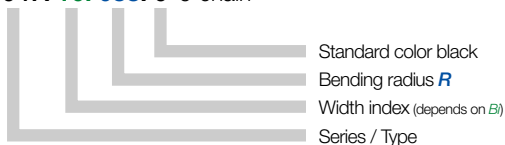
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
047. 10 . <i>R</i> .0	10	16	018 028 038	≈ 0,10
047. 16 . <i>R</i> .0	16	22	018 028 038	≈ 0,11

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

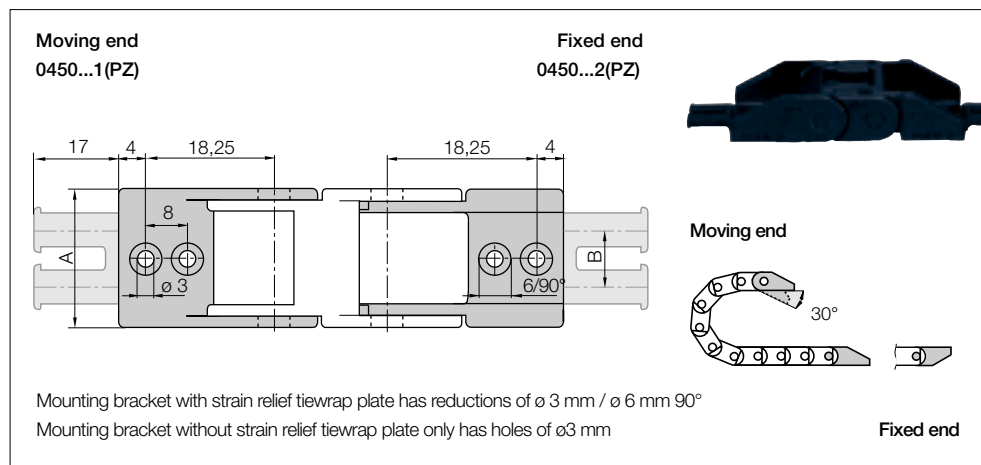


Part No. of e-chain® links as single parts ► page 4.7



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

*Delivery time means time until shipping of goods



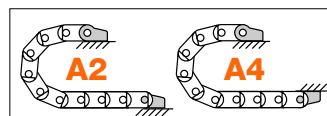
Polymer one-piece, one side pivoting | Universal for e-chains®

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



Possible installation conditions:
For the **preassembled** mode please add index **A2 or A4**
► e.g. **045.10.1ZA2**

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**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®****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

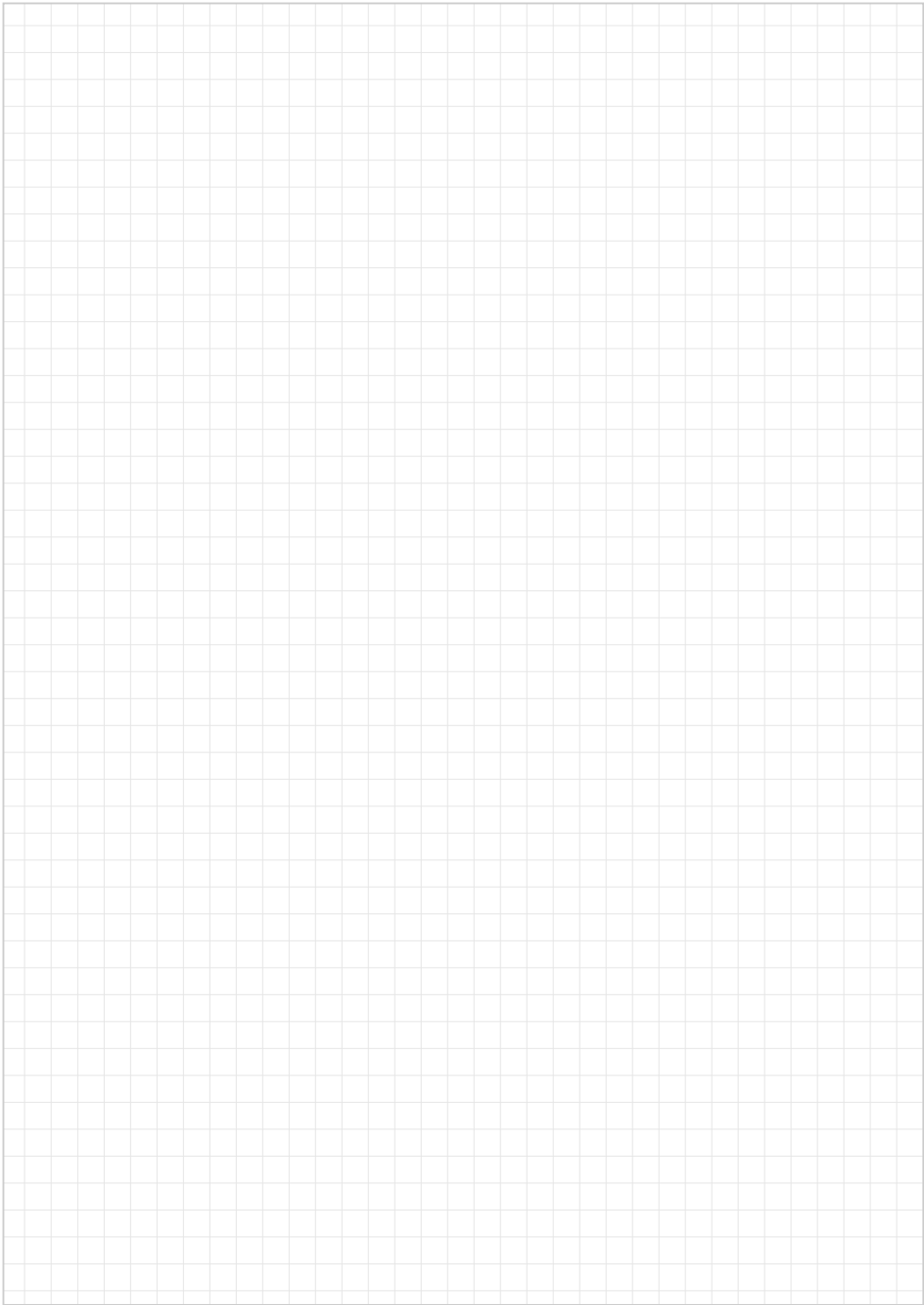
Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

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

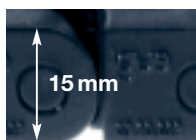
Lightweight
and stable

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**

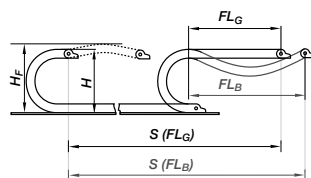
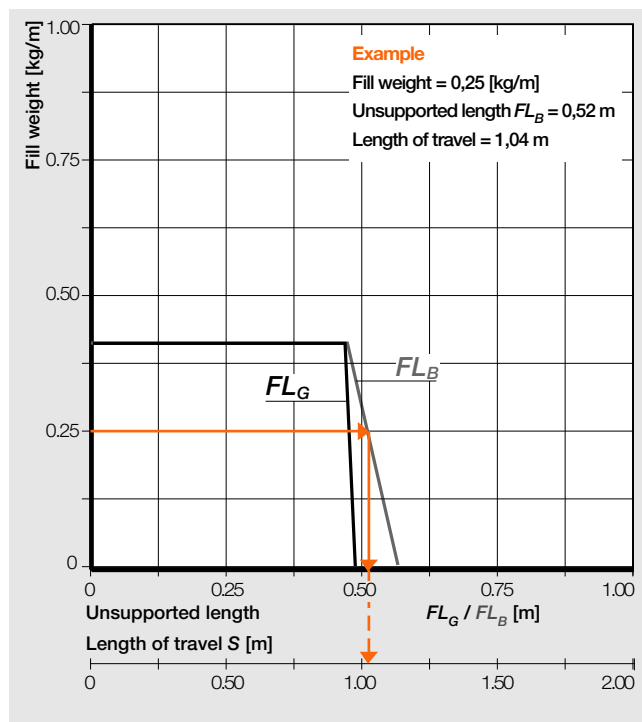


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/07



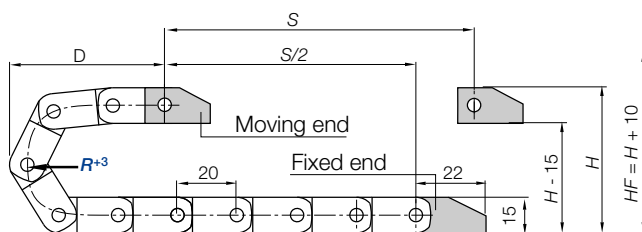
Standard Unsupported applications

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!



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-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

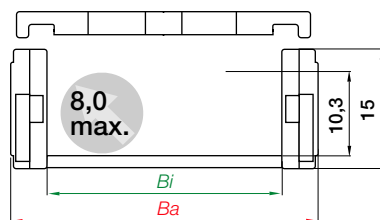
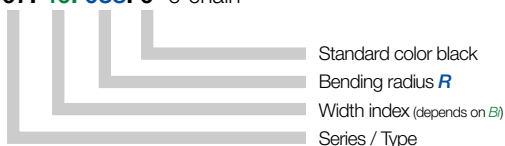
*Radius 048 only for Series 07.64 - more widths upon request! Delivery time approx. 6-8 weeks after order.

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

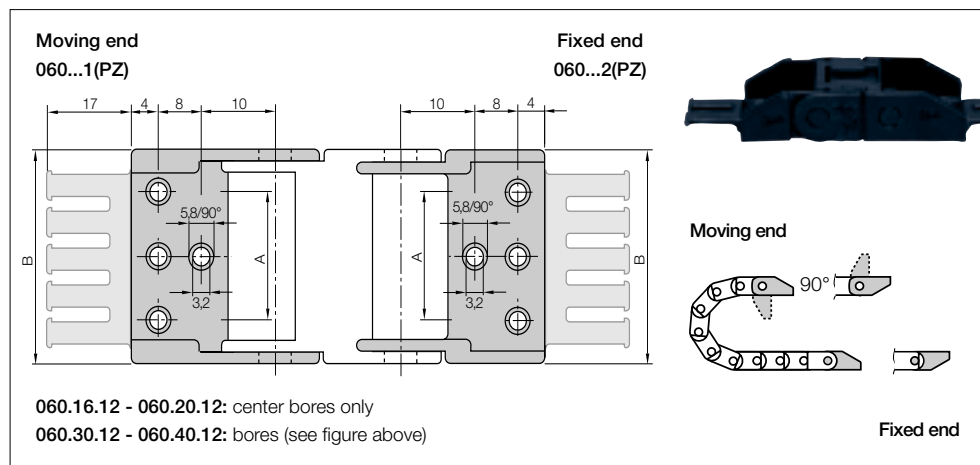


Part No. of e-chain® links as single parts ► page 4.7



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

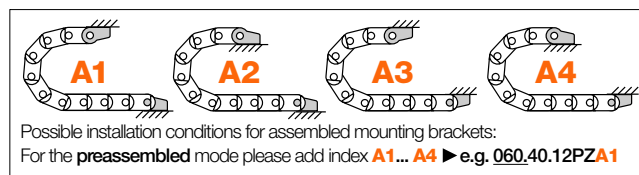
*Delivery time means time until shipping of goods



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



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



- 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 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

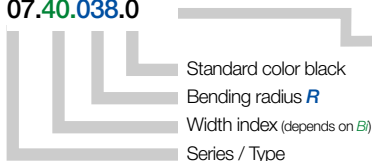
060.40.2PZ A1 (preass. + tiewrap plate)

*Standard**NC-Version -
(no camber)
without pretension**ATEX / ESD
classified e-chains®*
 II 2 GDPart No.
Standard
e-chains®Part No.
NC-Material
e-chains®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

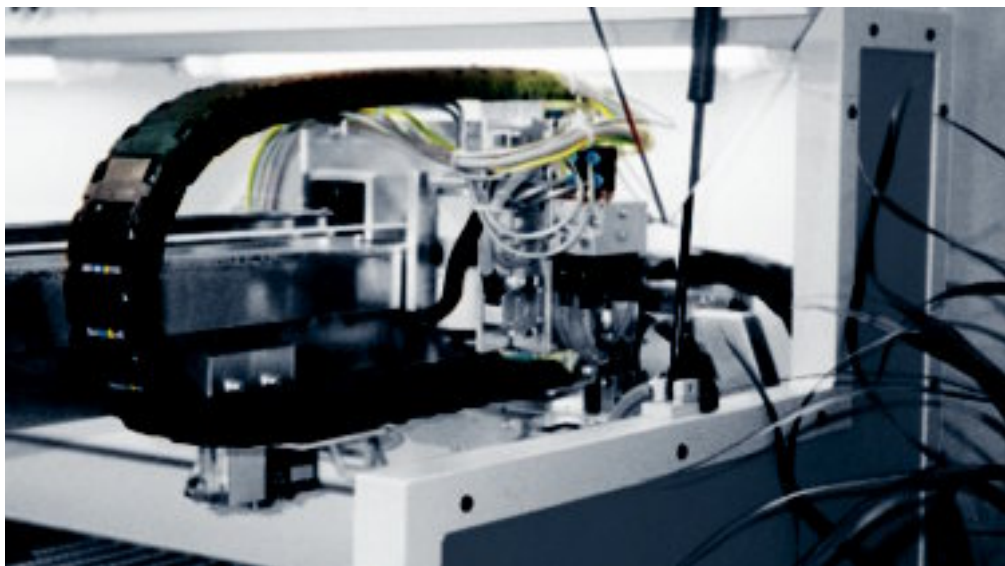
Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

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



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

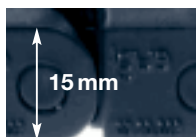
For high
accelerations

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

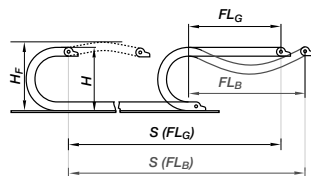
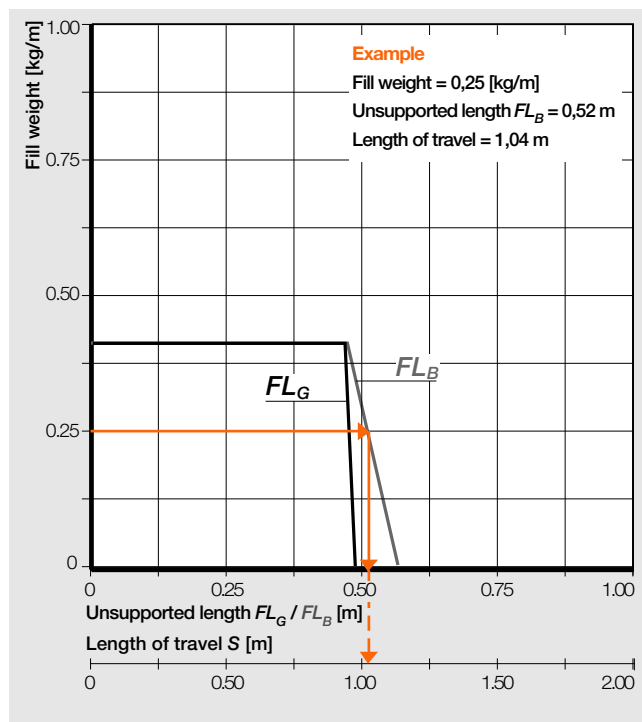


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

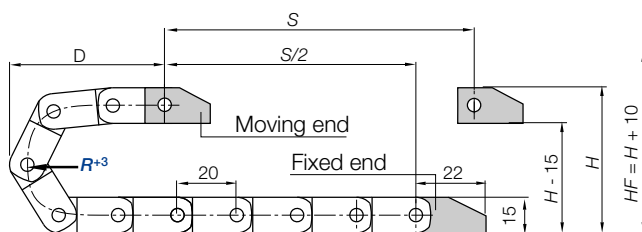


3D-CAD files, configurators, PDF ▶ www.igus.de/en/R07



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	038	048
H	91	111
D	76	86
K	160	195

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
 $K = \pi \cdot R + \text{"safety"}$



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

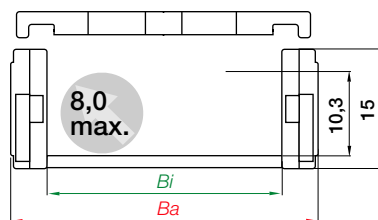
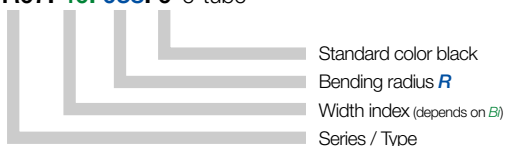
*Width available upon request. Delivery time approx. 6-8 weeks after order.

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

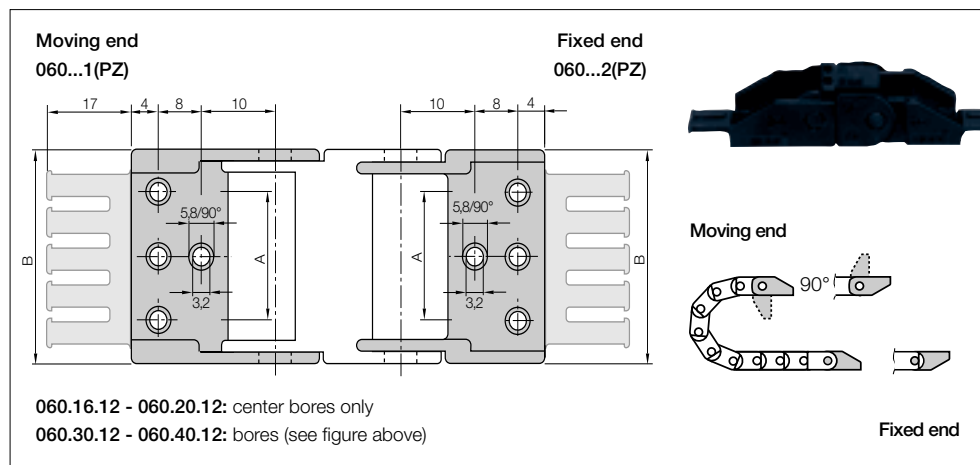


Part No. of e-chain® links as single parts ► page 4.7



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

*Delivery time means time until shipping of goods

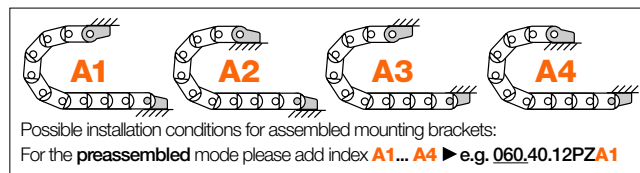


Polymer locking, one-piece | Universal for e-tubes

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.



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



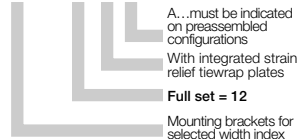
Strain relief, e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



- 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 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

060.40.2PZ A1 (preass. + tiewrap plate)

*Standard**NC-Version -
(no camber)
without pretension**ATEX/ESD
classified e-tubes -
II 2 GD*Part No.
Standard
e-tubesPart No.
NC-Material
e-tubesPart 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	.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



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

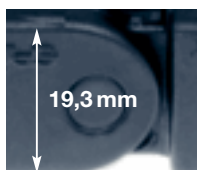
For high
accelerations

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**

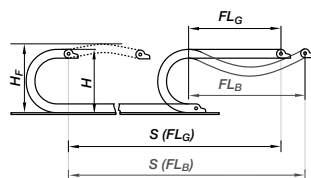
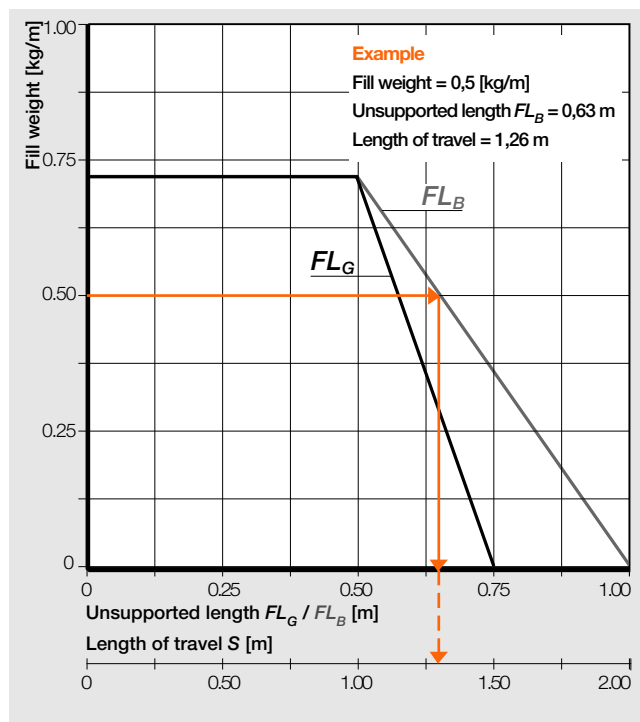


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/09



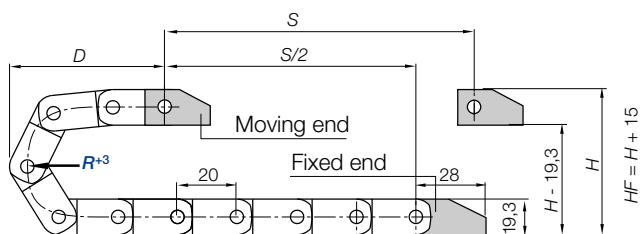
Standard Unsupported applications

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	028	038	048
H	75	95	115
D	68	78	88
K	130	160	195

The required clearance height: $H_F = H + 15$ mm (with 0,3 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-chain® | Series 09 | zip-open along outer radius

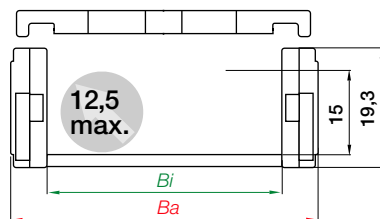
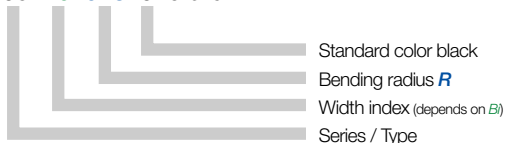
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
09. 10 . <i>R</i> .0	10	18,2	028 038 048	≈ 0,21
09. 16 . <i>R</i> .0	16	24,2	028 038 048	≈ 0,24
09. 20 . <i>R</i> .0	20	28,2	028 038 048	≈ 0,25
09. 30 . <i>R</i> .0	30	38,2	028 038 048	≈ 0,28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

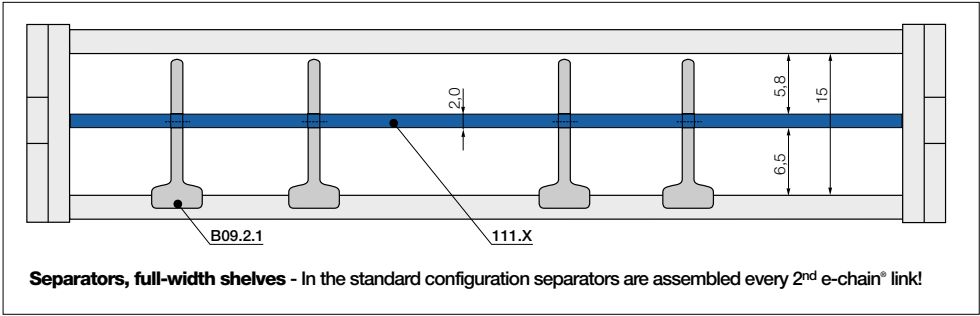


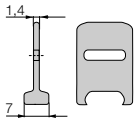
Part No. of e-chain® links as single parts ► page 4.7



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

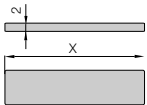
*Delivery time means time until shipping of goods





**Slotted separator
for e-chains®**

unassembled **B09.2**
assembled **B09.2.1**



**Full-width shelf
for e-chains®**

unassembled **110.X**
assembled **111.X**

Slotted separator B09.2

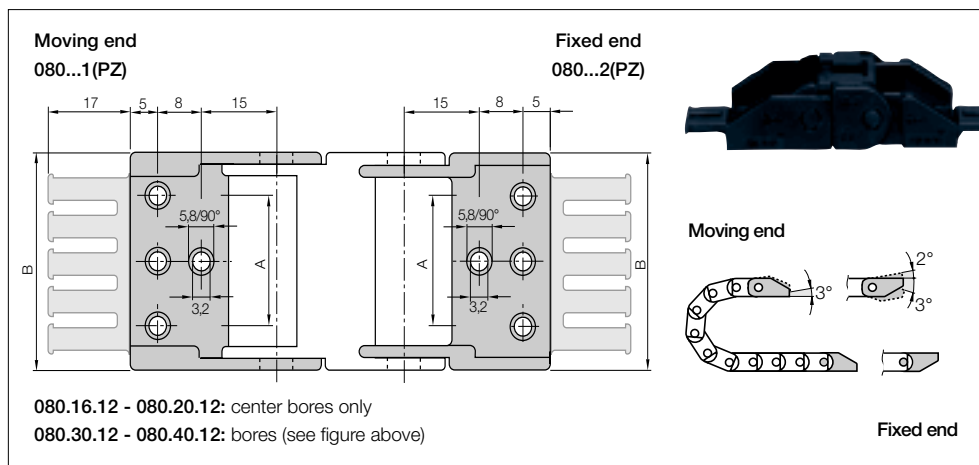
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

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	110.10	111.10	020	110.20	111.20	050	110.50	111.50
013	110.13	111.13	030	110.30	111.30			
016	110.16	111.16	040	110.40	111.40			

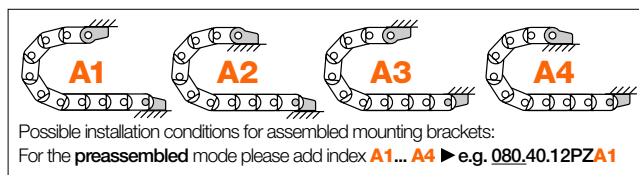


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

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



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

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)



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®  09.40.R.0 Delivery time 24h or today!*	NC-Version - (no camber) without pretension Part No. NC-Material e-chains® NC  09.40.R.0.NC Delivery time 3-5 work days	ATEX / ESD classified e-chains®  Part No. ESD-Material e-chains®  09.40.R.0.ESD 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 nd 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



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!)

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

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

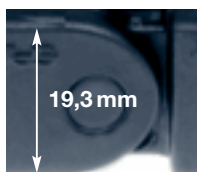
For high
accelerations

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

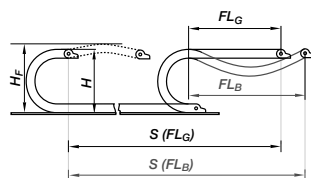
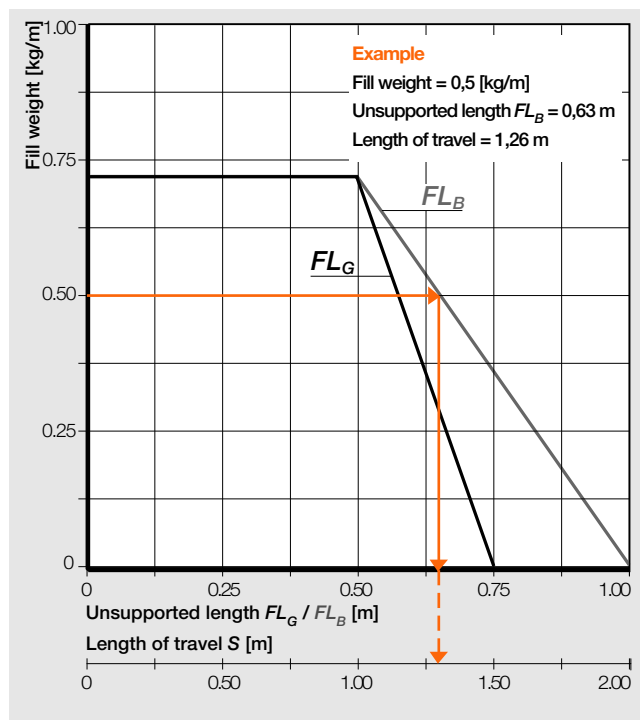


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

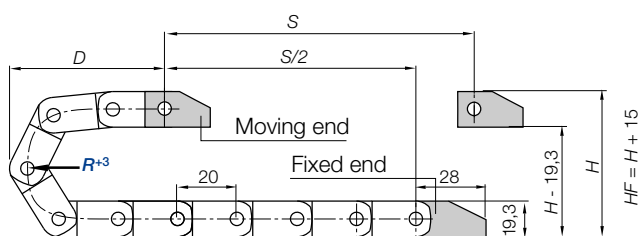


3D-CAD files, configurators, PDF ▶ www.igus.de/en/R09



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	048	075	100
H	115	169	219
D	88	115	140
K	195	280	355

The required clearance height: $H_F = H + 15$ mm (with 0,3 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 R09 | zip-open along outer radius

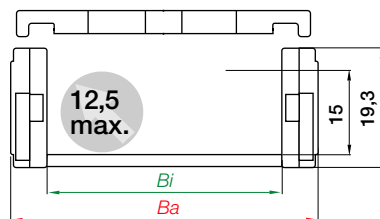
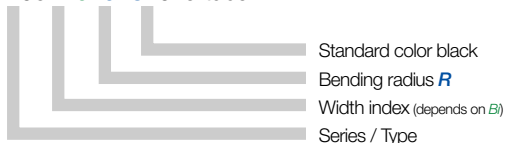
e-tube zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
R09. 10 . <i>R</i> .0	10	18,2	048 075 100	≈ 0,23
R09. 16 . <i>R</i> .0	16	24,2	048 075 100	≈ 0,26
R09. 20 . <i>R</i> .0	20	28,2	048 075 100	≈ 0,27
R09. 30 . <i>R</i> .0	30	38,2	048 075 100	≈ 0,30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

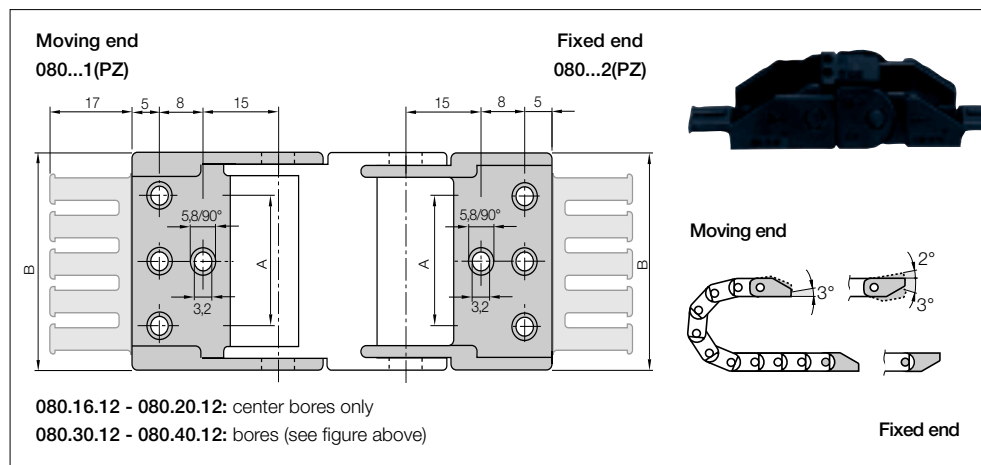


Part No. of e-chain® links as single parts ► page 4.7



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

*Delivery time means time until shipping of goods



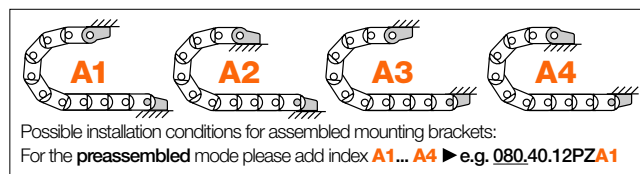
Polymer locking, one-piece | Universal for e-tubes

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

- 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



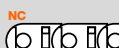
Quicksnap - the complete, detachable mounting unit. **Part Nos.** 080.20.QS, 080.30.QS available from stock



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-tubes -
II 2 GD*Part No.
Standard
e-tubesPart No.
NC-Material
e-tubesPart 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

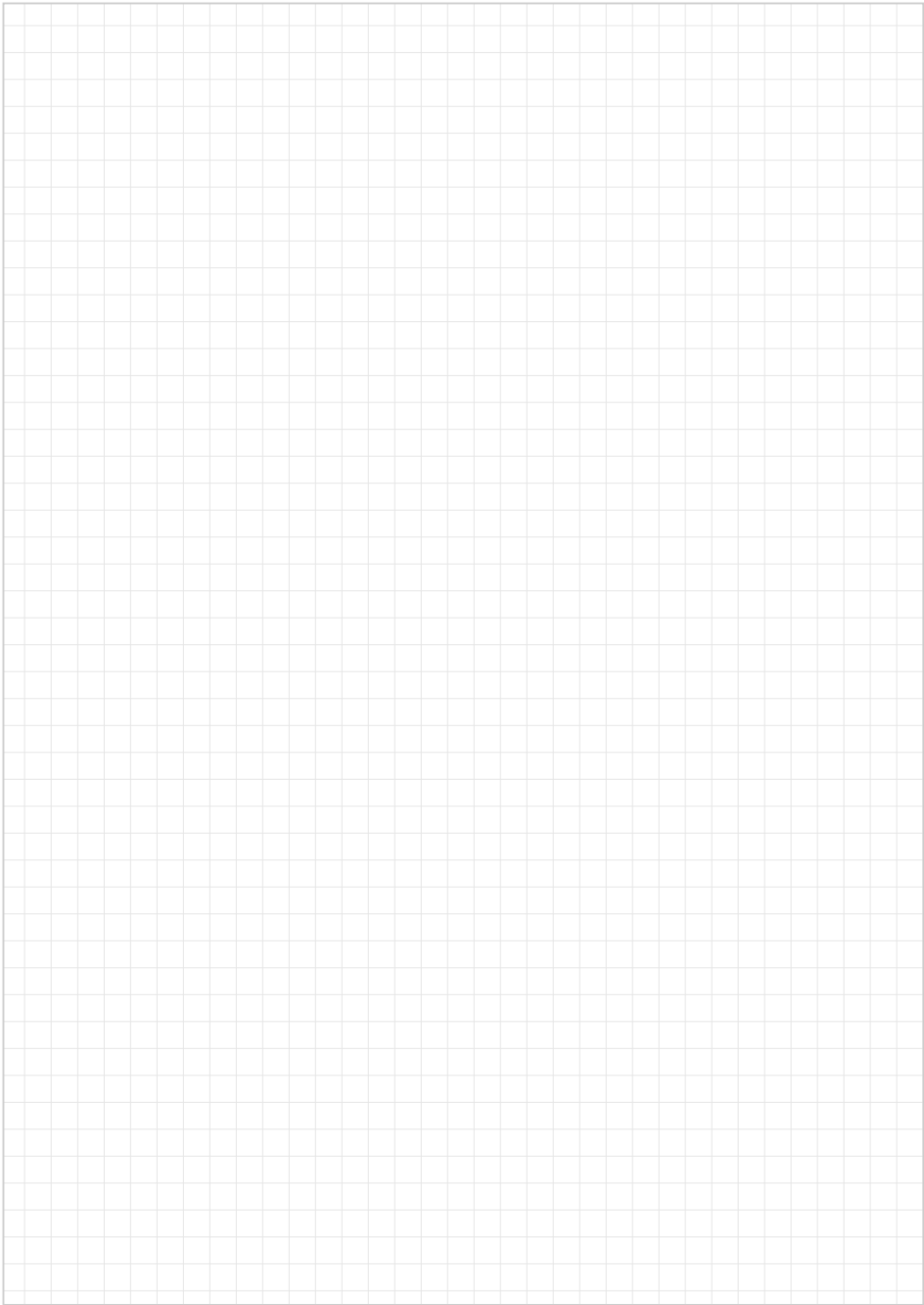
Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains*
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

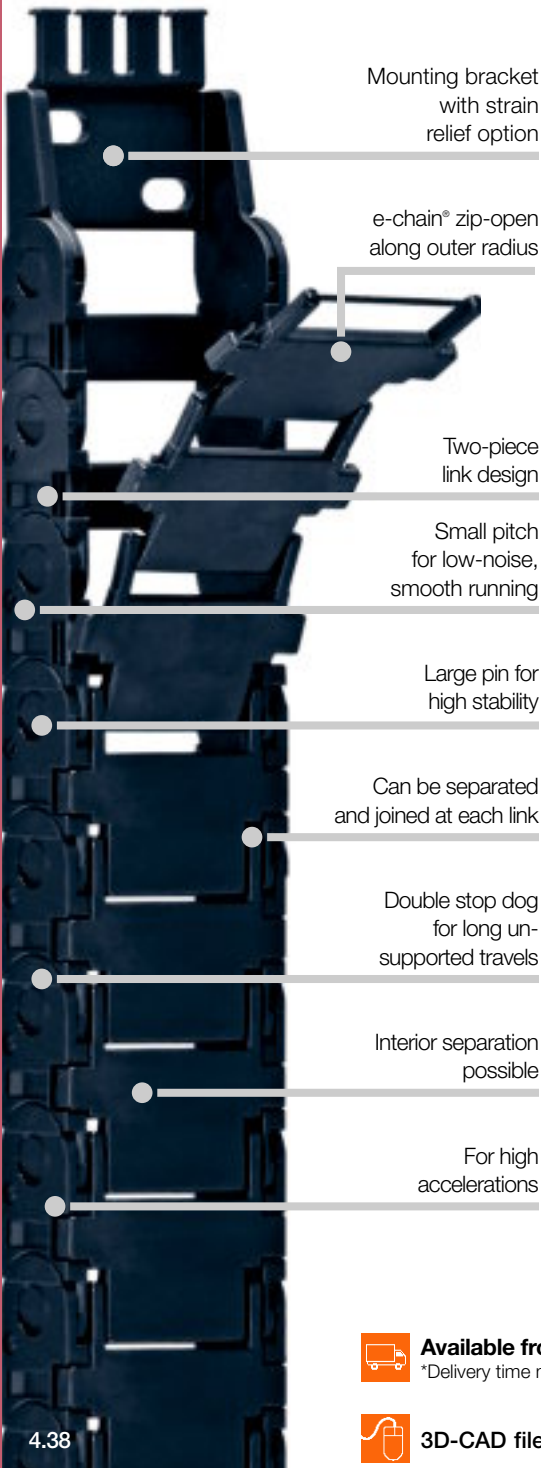
Black e-chains® from stock!

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

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**

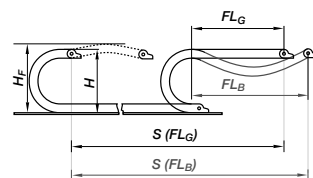
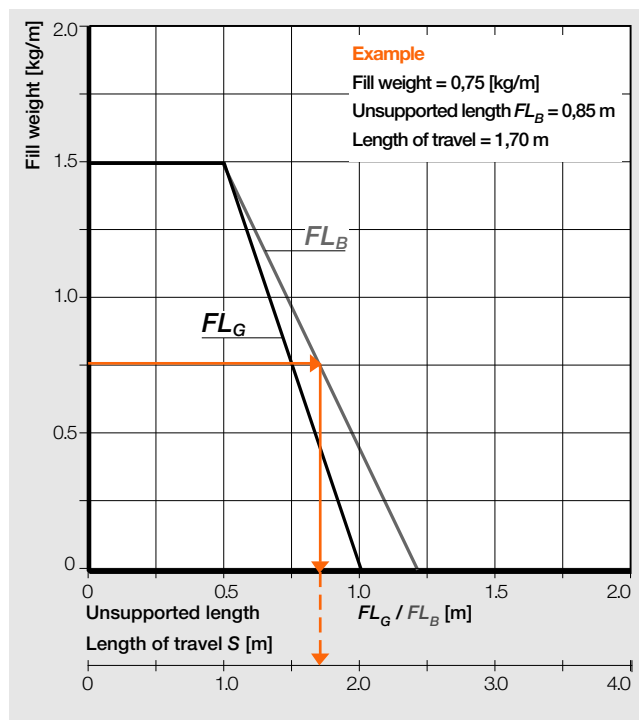


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

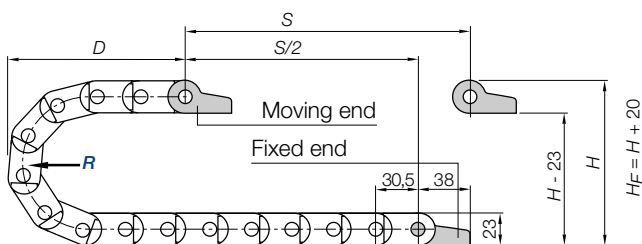


3D-CAD files, configurators, PDF ▶ www.igus.de/en/15



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 = $S/2 + K$

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

The required clearance height: $H_F = H + 20$ 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-chain® | Series 15 | zip-open along outer radius

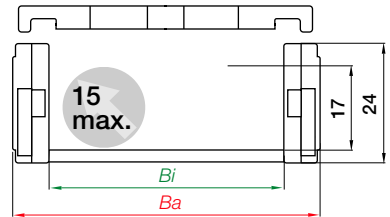
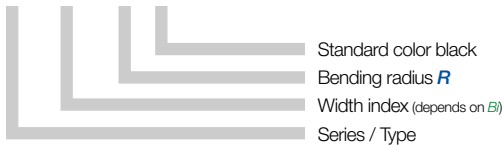
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
15. 015. <i>R</i> .0	15	26	038 048 075 100 110 125 145 180	≈ 0,35
15. 025. <i>R</i> .0	25	36	038 048 075 100 110 125 145 180	≈ 0,40
15. 038. <i>R</i> .0	38	49	038 048 075 100 110 125 145 180	≈ 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

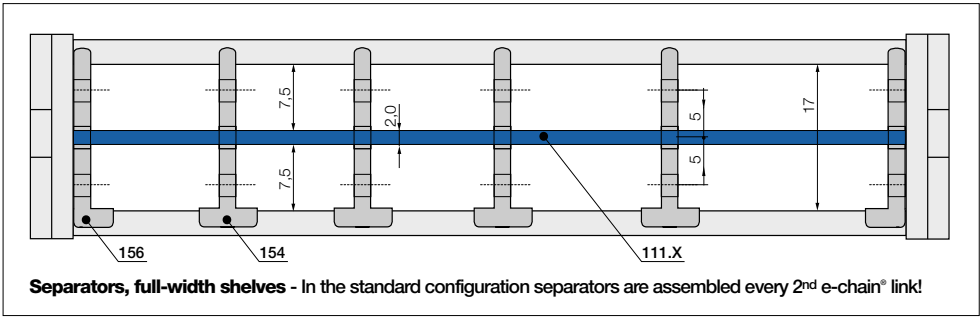


Part No. of e-chain® links as single parts ► page 4.7

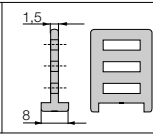


Standard e-chains® available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods







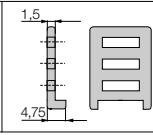
1.5
8

**Slotted separator
for e-chains®**

unassembled	153
assembled	154

Slotted separator 153
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.





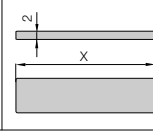
1.5
4.75

**Side plate
for e-chains®**

unassembled	155
assembled	156

Side plate 155
Side plate for use with full-width shelf 110.X and slotted separator 153.





2
X

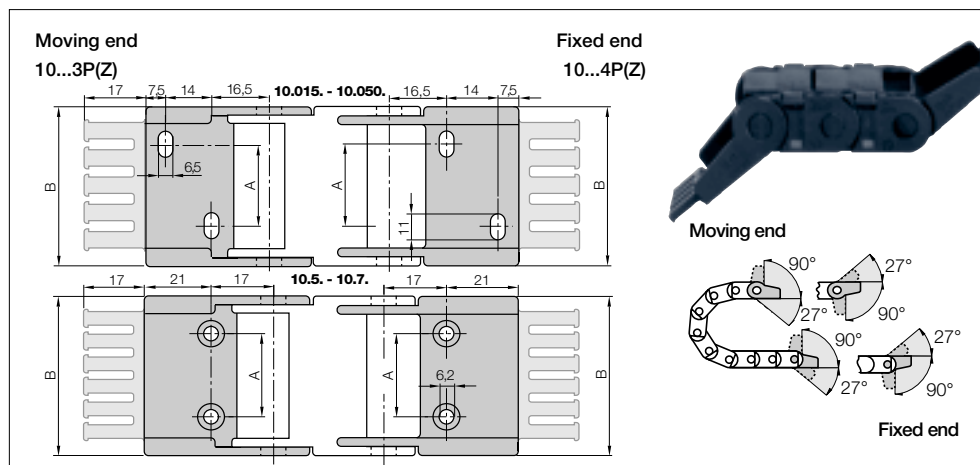
**Full-width shelf
for e-chains®**

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 subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

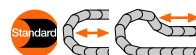
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	110.15	111.15	050	110.50	111.50	100	110.100	111.100
025	110.25	111.25	063	110.63	111.63			
038	110.38	111.38	080	110.80	111.80			



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



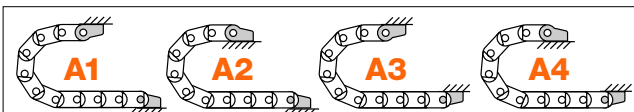
Single-part order

Mounting bracket **Moving end**

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

Mounting bracket **Fixed end**

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



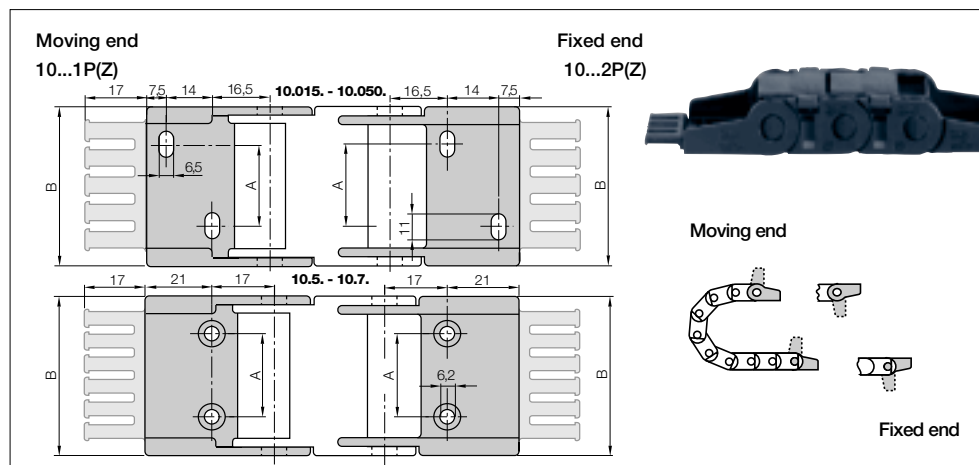
Possible installation conditions for assembled, pivoting mounting brackets.

For the **preassembled** mode please add index **A1... A4** ▶ e.g. **1025.34PZA1**



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-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



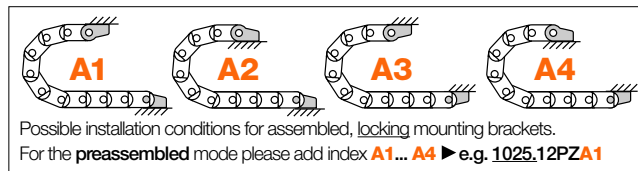
Single-part order

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

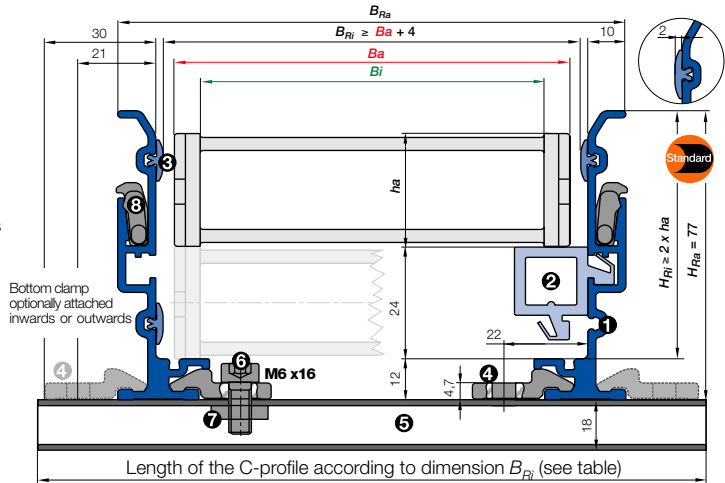
Aluminum "SuperTrough" | Basic Version

Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

15.025.038.0 ► Order example

	B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.015	30	–	960.30.125
.025	40	–	960.30.150
.038	53	–	960.30.150
.050	65	960.30.125	960.30.175
.5	80	960.30.125	960.30.175
.6	98	960.30.150	960.30.200
.7	117	960.30.175	960.30.225



● **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ● **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ► table ⑥ Screw M6 x 16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic



Order example: Length of travel 30 m -

Center mounted for Series 15.025.038.0 with $B_{Ri} = 40$

Guide trough set **without** glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No. 970.30.SL**

Guide trough set **with** glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 970.31.SL**

Installation set "Basic" complete (guide trough-sets + 1)

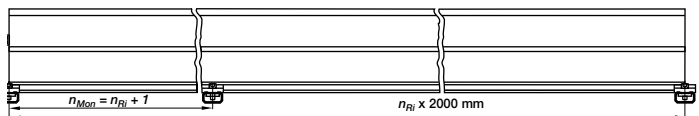
Order text: 17 installation sets **Part No. 960.30.125**

Module for the fixed end ► page 9.16

Order text: 1 set **Part No. 970.80**

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: **Part No. 970.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



● Trough set

● C-profile

● Installation set

Ba = Outer width e-chains"

● Glide bar

Bi = Inner width e-chains"

B_{Ri} = Inner trough width

B_{Ra} = Outer trough width

H_{Ri} = Inner trough height

H_{Ra} = Outer trough height

n_{Mon} = Number of installation sets

n_{Ri} = Number of trough sets

 Standard Part No. Standard e-chains® 	NC-Version - <i>(no camber)</i> <i>without pretension</i> Part No. NC-Material e-chains® 	ATEX / ESD <i>classified e-chains®</i>  Part No. ESD-Material e-chains® 
 15.025.R.0	15.025.R.0.NC	15.025.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-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 nd link	2 x 154
Order text: 1,0 m 15.025.038.0 + 1025.34PZ + 2 x 154		

Order key

15.025.038.0


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!)

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

 **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

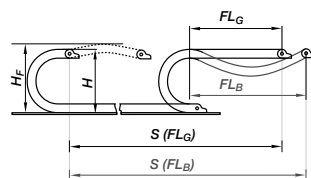
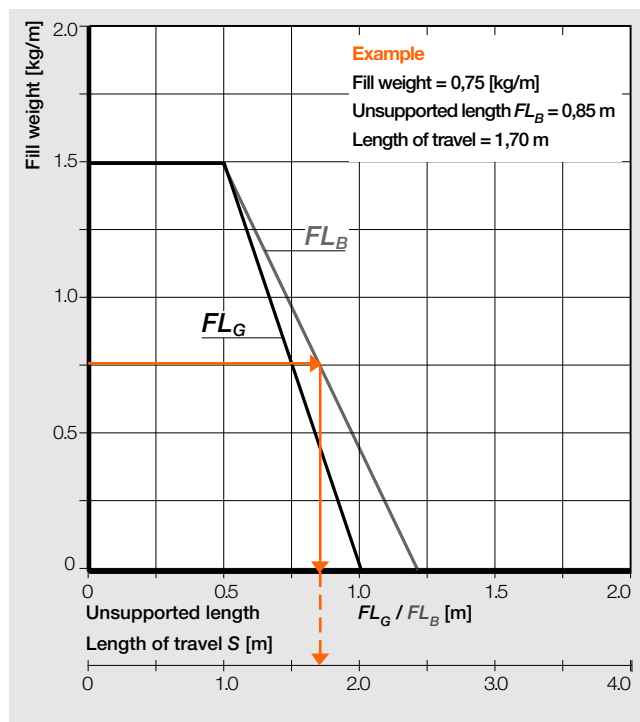


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

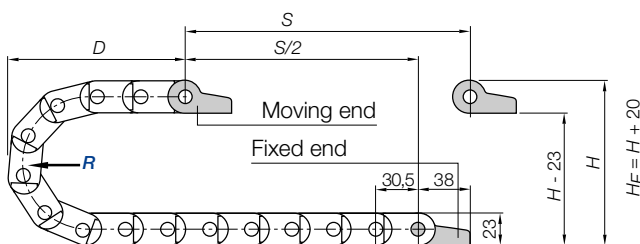


3D-CAD files, configurators, PDF ▶ www.igus.de/en/R15



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 = $S/2 + K$

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

The required clearance height: $H_F = H + 20$ 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 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

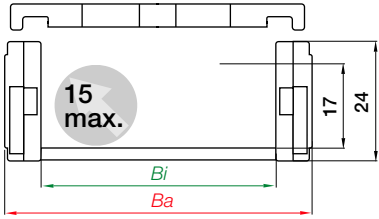
*Width available upon request. Delivery time approx. 6-8 weeks after order.

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

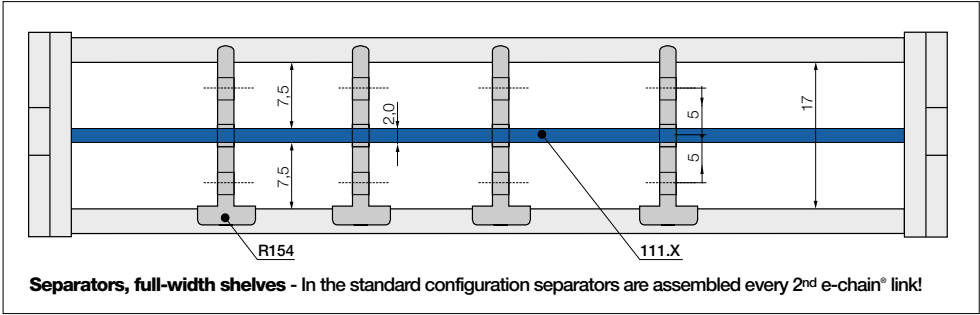


Part No. of e-chain® links as single parts ► page 4.7

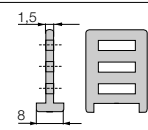


Standard e-chains® available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



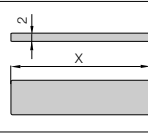
Separators, full-width shelves - In the standard configuration separators are assembled every 2nd e-chain® link!



**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.



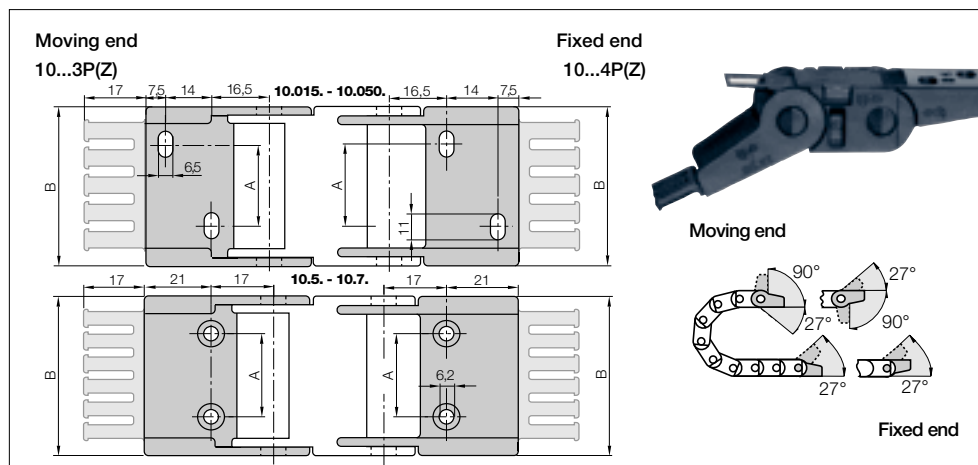
**Full-width shelf
for e-tubes**

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	110.25	111.25	063	110.63	111.63
038	110.38	111.38	080	110.80	111.80

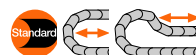


Polymer **pivoting**, one-piece | Standard | Universal for e-tubes

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



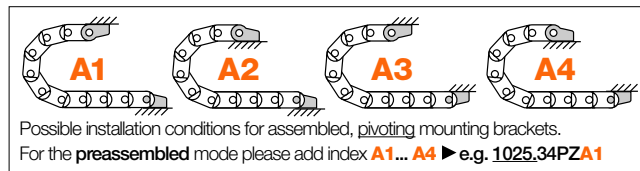
Single-part order

Mounting bracket **Moving end**

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

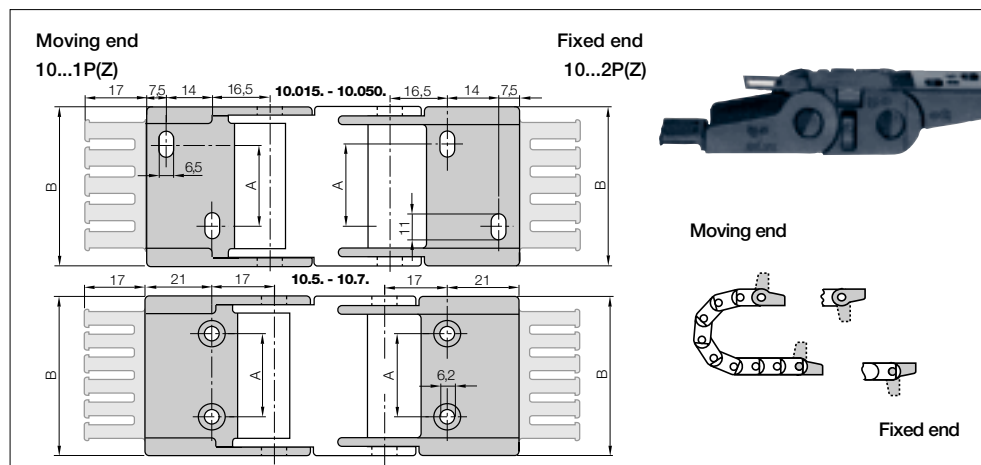
Mounting bracket **Fixed end**

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



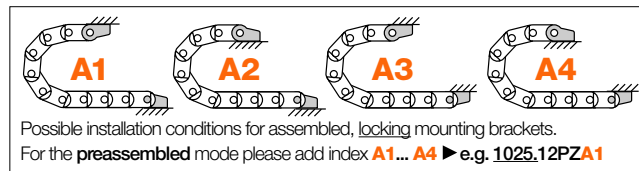
Single-part order

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

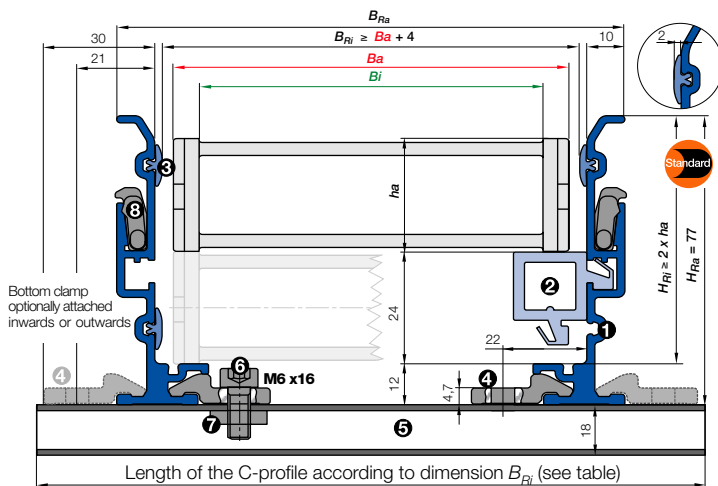
Aluminum "SuperTrough" | Basic Version

Installation set "Basic" with C-Profile

Bottom Clamp optionally attached
inwards or outwards

R15.025.038.0 ► Order example

	B_{RI} [mm]	Part No. attached inwards	Part No. attached outwards
.015	30	—	960.30.125
.025	40	—	960.30.150
.038	53	—	960.30.150
.050	65	960.30.125	960.30.175
.063	80	960.30.125	960.30.175
.080	98	960.30.150	960.30.200
.100	117	960.30.175	960.30.225



● **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request) ● **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ► table ⑥ Screw M6 x 16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic



Order example: Length of travel 30 m -

Center mounted for Series R15.025.038.0 with $B_{Di} = 40$

Guide trough set without glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No.** 970.30.SL

Guide trough set with glide bar (set of 2 trough side parts, incl. glide strips)

Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 970.31.SL**

Installation set "Basic" complete (guide trough-sets + 1)

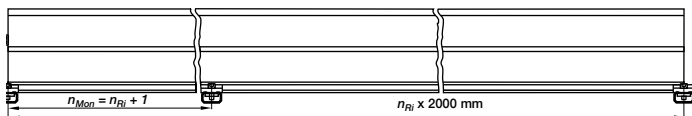
Order text: 17 installation sets

Module for the fixed end ► page 9.16

Order text: 1 set Part No. 970.80

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: **Part No. 970.30.SLA**



Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



- Trough set
- Installation set
- Glide bar
- C-profile
- Ba** = Outer width e-chains®
- Bi** = Inner width e-chains®

- | | |
|--------------------------------|---|
| B_{Ri} = Inner trough width | H_{Ra} = Outer trough height |
| B_{Ra} = Outer trough width | n_{Mon} = Number of installation sets |
| H_{Ri} = Inner trough height | n_{Ri} = Number of trough sets |

<i>Standard</i> Part No. Standard e-tubes R15.025.R.0 Delivery time 24h or today!*	<i>NC-Version - (no camber) without pretension</i> Part No. NC-Material e-tubes R15.025.R.0.NC Delivery time 3-5 work days	<i>ATEX/ESD classified e-tubes - ● II 2 GD</i> Part No. ESD-Material e-tubes R15.025.R.0.ESD Delivery time 5 work days
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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	R15.025.038.0
+ Mounting brackets	1 set (with integrated strain relief)	1025.34PZ
+ Interior separation	with 2 separators assembled every 2 nd link	2 x R154
Order text: 1,0 m R15.025.038.0 + 1025.34PZ + 2 x R154		



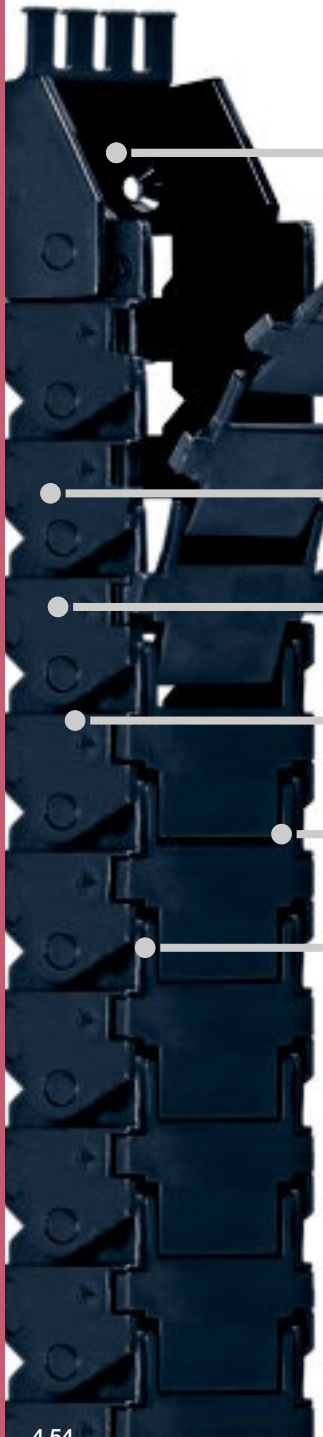
Order key

R15.025.038.0

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**

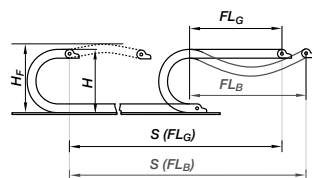


Available from stock. Delivery in 24h or today!*

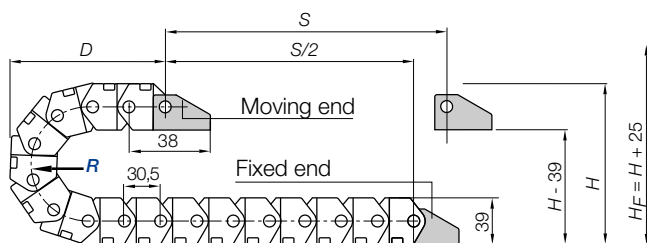
*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/17



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**

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

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

The required clearance height: $H_F = H + 25 \text{ mm}$ (with 1,5 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-chain® | Series 17 | zip-open along outer radius

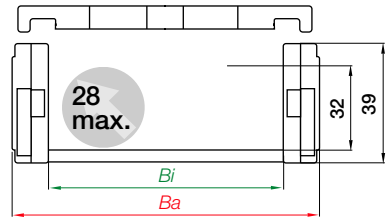
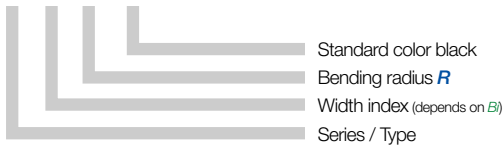
e-chain® zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
17. 1 . <i>R</i> .0	15	25,5	063 075 100 125	≈ 0,52
17. 2 . <i>R</i> .0	25	35,5	063 075 100 125	≈ 0,59
17. 3 . <i>R</i> .0	38	48,5	063 075 100 125	≈ 0,65
17. 4 . <i>R</i> .0	50	60,5	063 075 100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

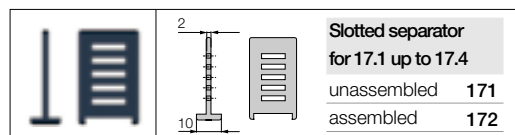
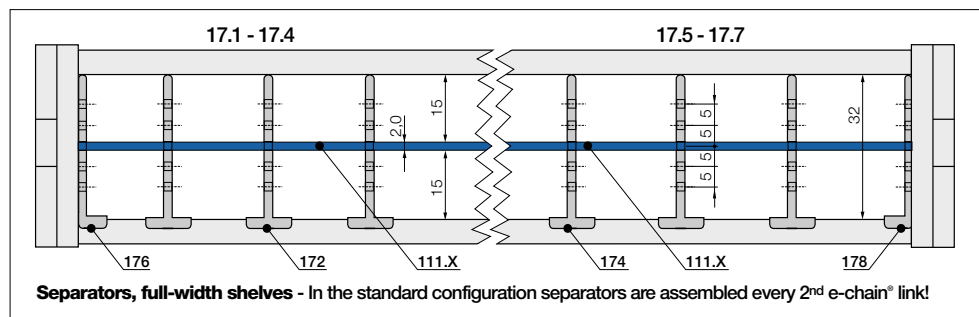


Part No. of e-chain® links as single parts ► page 4.7

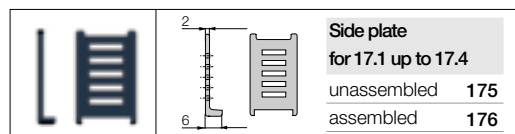


Standard e-chains® available from stock. Delivery in 24h or today!*

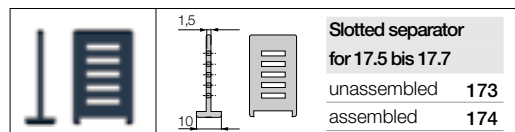
*Delivery time means time until shipping of goods



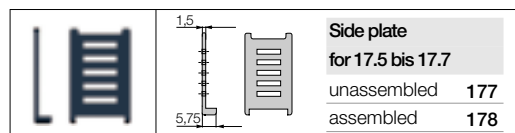
Slotted separator 171 (17.1 up to 17.4) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



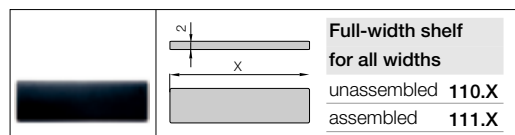
Side plate 175 (17.1 up to 17.4) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



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.



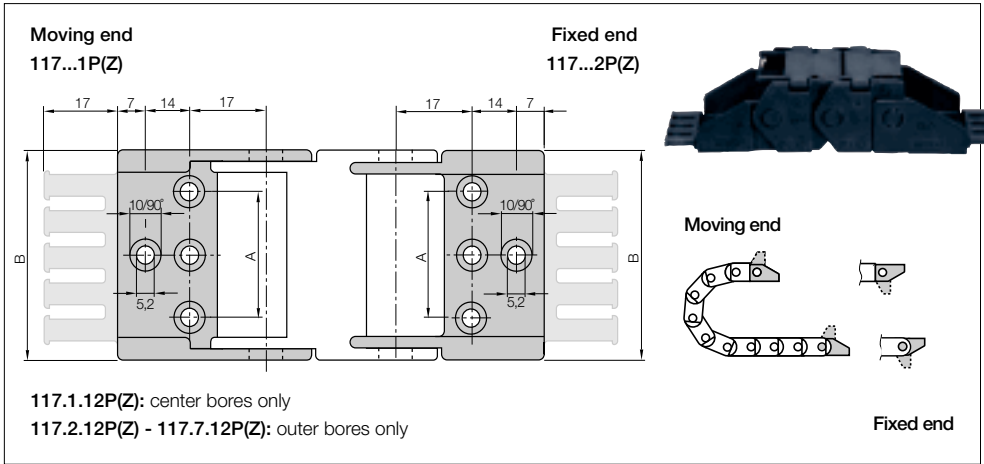
Side plate 177 (17.5 up to 17.7) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



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	110.15	111.15	050	110.50	111.50	100	110.100	111.100
025	110.25	111.25	063	110.63	111.63			
038	110.38	111.38	080	110.80	111.80			



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



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

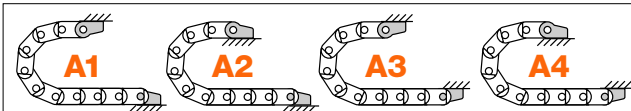
Single-part order

Mounting bracket **Moving end**

117.2.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

117.2.2 PZ A1 (preass. + tiewrap plate)



Possible installation conditions for assembled mounting brackets:

For the **preassembled** mode please add index **A1... A4** ▶ e.g. **117.2.12 PZ 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 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®  Part No. ESD-Material e-chains® 
 17.2.R.0	17.2.R.0.NC	17.2.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 33 links	17.2.075.0
+ Mounting brackets	1 set (with integrated strain relief)	117.2.12PZ
+ Interior separation	with 2 separators assembled every 2 nd link	2 x 172
Order text: 1,0 m 17.2.075.0 + 117.2.12PZ + 2 x 172		



Order key

17.025.038.0

Standard color black

Bending radius *R*

Width index (depends on *B*)

Series / Type

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!)

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

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

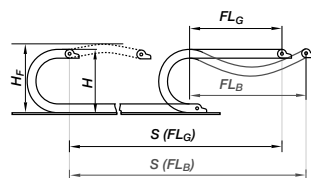
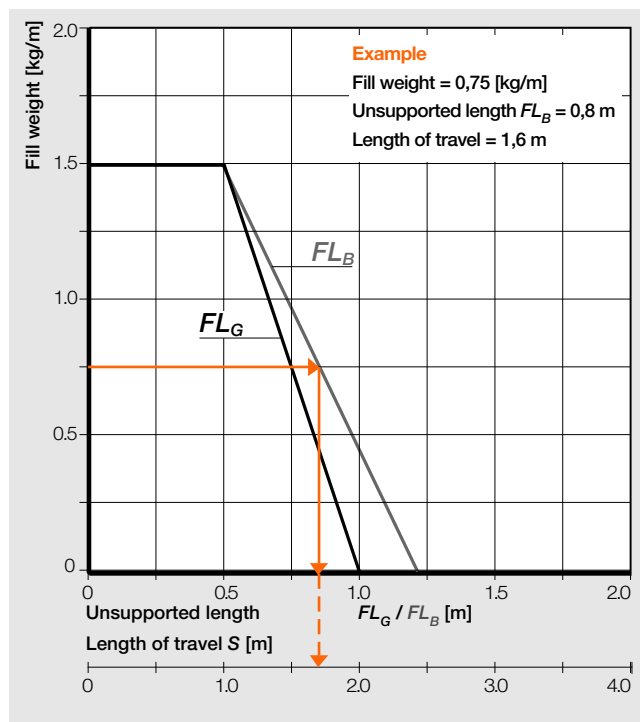


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

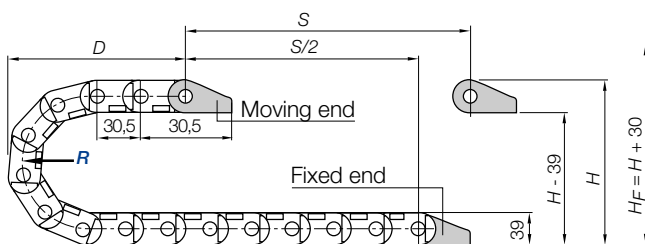


3D-CAD files, configurators, PDF ▶ www.igus.de/en/R17



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
H	165	189	239	289
D	128	140	165	190
K	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

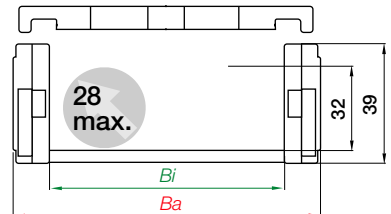
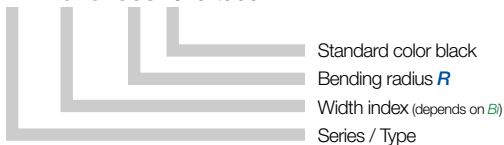
e-tube zip-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
R17.015.R.0	15	26	063 075 100 125	≈ 0,57
R17.025.R.0	25	36	063 075 100 125	≈ 0,64
R17.063.R.0	63	76	063 075 100 125	≈ 0,88

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

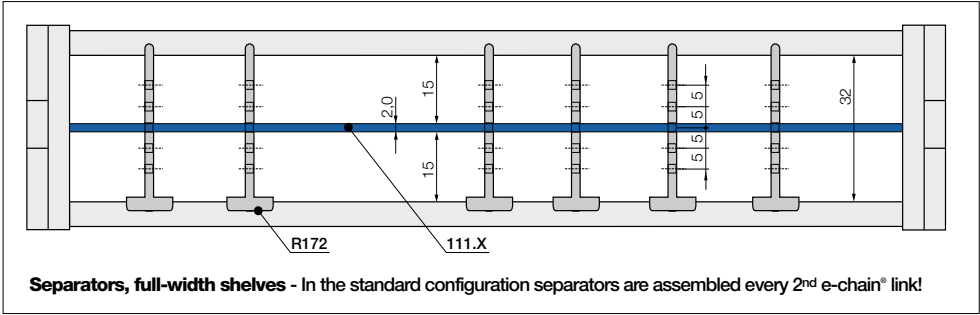


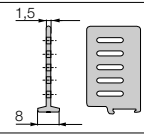
Part No. of e-chain® links as single parts ► page 4.7



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

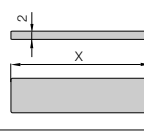
*Delivery time means time until shipping of goods





**Slotted separator
for e-tubes**

unassembled	R171
assembled	R172



**Full-width shelf
for e-tubes**

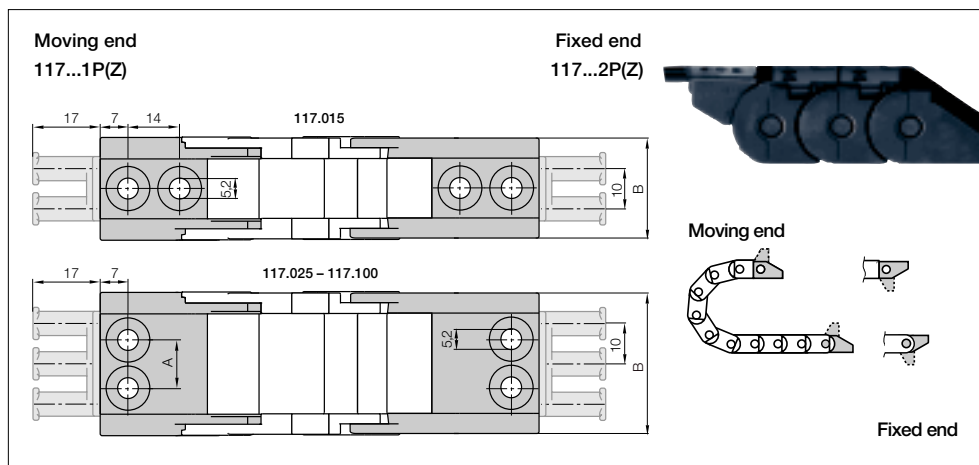
unassembled	110.X
assembled	111.X

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 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	110.15	111.15	063	110.63	111.63
025	110.25	111.25			



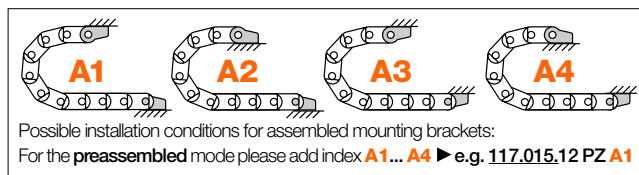
Polymer locking, one-piece | Universal for e-tubes

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

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**

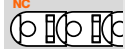
117.015.1 PZ A1 (preass. + tiewrap plate)

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

<i>Standard</i> Part No. Standard e-tubes  R17.015.R.0 Delivery time 24h or today!*	NC-Version - (no camber) without pretension Part No. NC-Material e-tubes NC  R17.015.R.0.NC Delivery time 3-5 work days	ATEX/ESD classified e-tubes - II 2 GD  Part No. ESD-Material e-tubes  R17.015.R.0.ESD Delivery time 5 work days
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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 nd 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



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!)

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

 **Available from stock. Delivery in 24h or today!***
*Delivery time means time until shipping of goods