





# E2 mini

Small and medium sizes

# E2 mini - small and medium sizes

**E2 mini** are small one-piece or two-piece e-chains®, recommended for high dynamic applications. igus® also offers a host of accessories and fixation options. "Upgrades" to openable versions are available for many types; they are interchangeable and can also serve as replacements.

## Typical industries and applications

- Construction machinery
- Handlings
- Furniture
- Packaging machines
- Textile machines
- Vehicle construction
- Woodworking machines
- Glass machines
- Automation
- General machinery



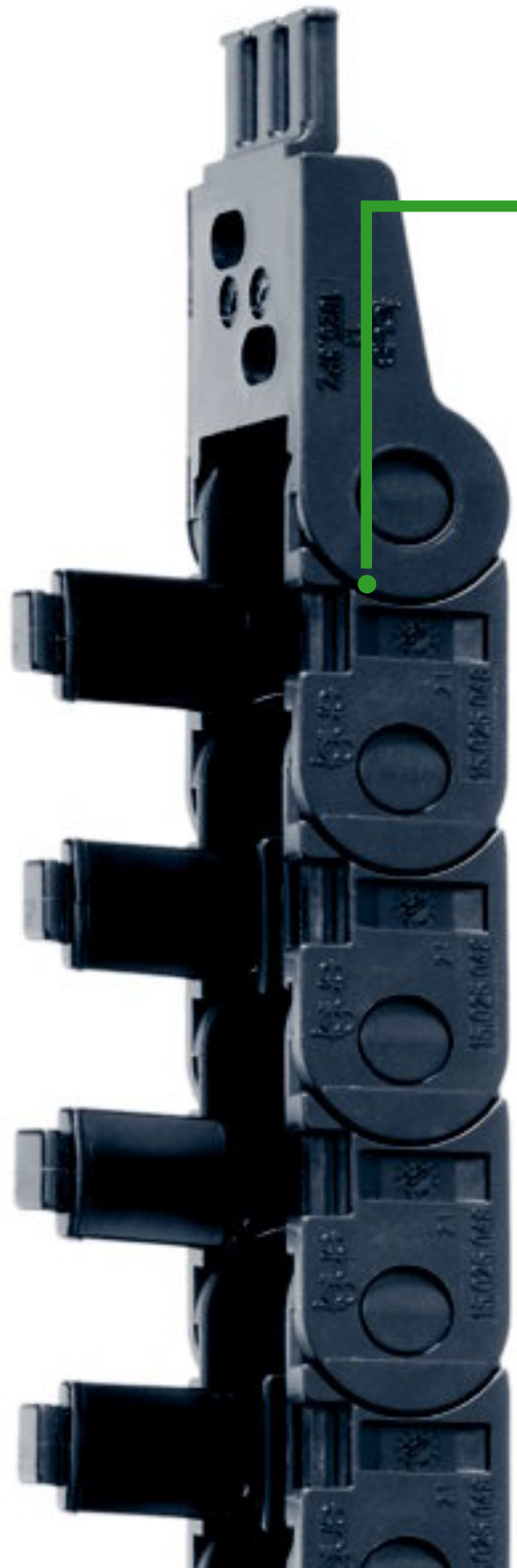
Cleanroom Class 1 (ISO class 3) for Series 10 and 14, tested by the Dryden Engineering Company, California



Special equipment: Electrically conductive ESD/ATEX version upon request



UL94 - V2 classifications - for Series 14 and F17 (more Series upon request)





E2 mini e-chain®, RBR-version with reverse bending radius



E2 mini e-chain® in a tooling machine, coolant resistant



Long travel applications of up to 40 m are possible.  
Here: Series 10 in a textile machine

# E2 mini | 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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**E2 mini -  
One-piece e-chains®**  
One-piece, non snap-open

10	18	15 - 100	26 - 113	23	028 - 180	1,20	5.80
11.031	23	31	41,2	28	045 - 070	≈1,35	5.88
11.080	28	80	93	33,4	038	1,50	5.94
11.1/11.2	41	15 - 25	25,5 - 35,5	46	040 - 100	≈1,35	5.100



**E2 mini -  
One-piece e-chains®**  
Snap-open along inner  
radius with film-hinge

14	20	15 - 50	26 - 61	25	028 - 125	0,65	5.106
F17	32	15	26	39	048	1,20	5.126



**E2 mini -  
Two-piece e-chains®**  
Snap-open along inner radius

B15	17	15 - 100	26 - 113	23	038 - 180	1,20	5.112
B17	32	15 - 100	25,5 - 113	39	048 - 125	1,00	5.120

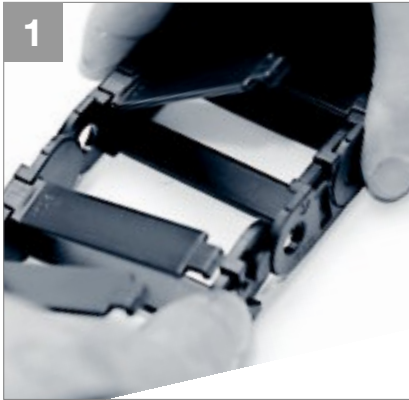


**E2 mini -  
Two-piece e-chains®**  
Snap-open along outer radius

B15i	17	15 - 100	26 - 113	23	038 - 180	1,20	5.112
B17i	32	38	48,5	39	048 - 075	1,00	5.120



# E2 mini | Assembly instructions



Push, click and snap in pin



Lever crossbars open



Separating: release side-link



Twist and pull apart

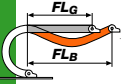
 **Technical Data overview** ► next page

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

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

**Technical Data - System E2 mini**

Gliding speed / acceleration (maximum)

max. 3 [m/s] / max. 10 [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 - permitted temperature °C

igumid G / -40° up to +120° C

Material - permitted temperature °C (only Series 14, F17)







igumid NB / -40° up to +80° C



Flammability class, igumid G

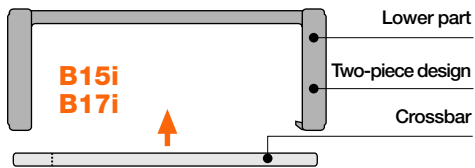
VDE 0304 IIC UL94 HB


■  $FL_G$  = with straight upper run ■  $FL_B$  = with permitted sag**Installation methods overview, maximum travels - System E2 mini**

e-chain® Series	 Unsupported application	 Vertical hanging	 Vertical standing	 Side mounted unsupported	 Rotary application	 Zig-zag application
10	≤ 1,20 m	upon request	upon request	upon request	with rework	upon request
11.031	≤ 1,35 m	upon request	upon request	upon request	—	upon request
11.080	≤ 1,50 m	upon request	upon request	upon request	—	upon request
11.1/11.2	≤ 1,35 m	upon request	upon request	upon request	—	upon request
14	≤ 0,65 m	upon request	upon request	upon request	with rework	upon request
B15i / B15	≤ 1,20 m	upon request	upon request	upon request	with rework	upon request
B17i / B17	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request
F17	≤ 1,20 m	upon request	upon request	upon request	with rework	upon request

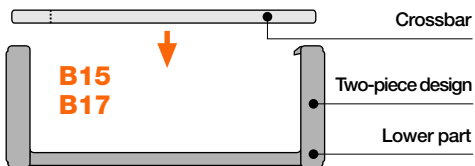
 Part No. one- and two-piece e-chain® links as single parts - System E2 mini


Two-piece design, snap-open along outer radius



 e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**
B15i	170. <i>Bi</i>	B15i. <i>Bi</i> 00. <i>R</i>
B17i	170. <i>Bi</i>	B17i. <i>Bi</i> 00. <i>R</i>

Two-piece design, snap-open along inner radius

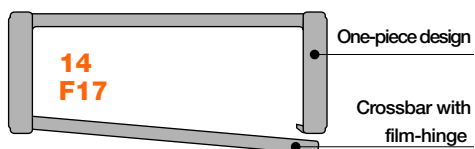



 e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**
B15	170. <i>Bi</i>	B15. <i>Bi</i> 00. <i>R</i>
B17	170. <i>Bi</i>	B17. <i>Bi</i> 00. <i>R</i>

\* Crossbar: supplement Part No. with required width index (*Bi*) Example: 170.15

\*\* Lower parts: supplement Part No. with required width index (*Bi*) + 00 and radius (*R*) Example: B15.15 00.038


One-piece design, snap-open along inner radius



 Serie e-chains*	One-piece e-chain link	Crossbar with film-hinge
14	One-piece design	snap-open
F17	One-piece design	snap-open

One-piece design, non snap-open

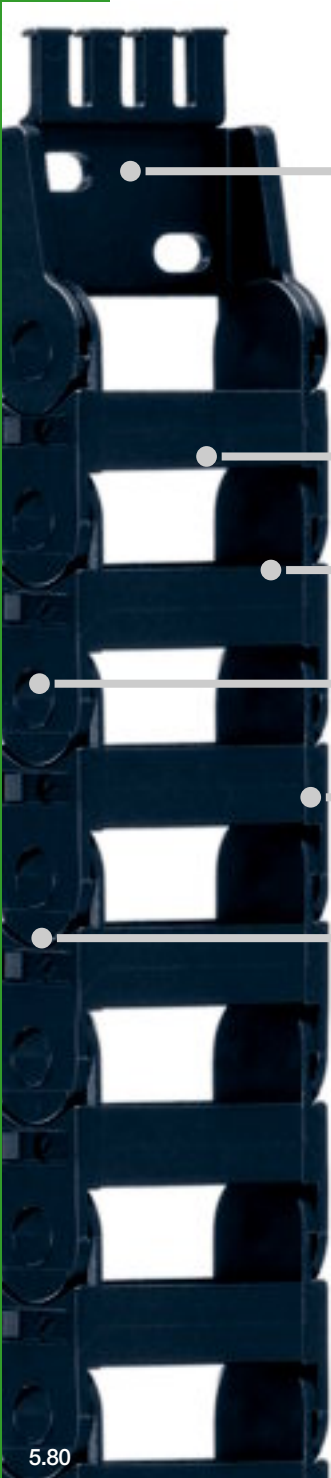


 Serie e-chains*	One-piece e-chain link
10	One-piece design, non snap-open
11.031	One-piece design, non snap-open
11.080	One-piece design, non snap-open
11.1/11.2	One-piece design, non snap-open

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

\*Delivery time means time until shipping of goods





Mounting bracket  
with strain  
relief option

One-piece design,  
non snap-open

Lightweight  
and stable

Large pin for  
high stability

Dirt-repellent  
exterior

Double stop dog  
for long un-  
supported travels

## ⊕ Stable and cost-effective

### When to use the Series 10 E2 mini:

- If an e-chain® with an inner height of 18 mm and small bending radii are required
- For inner widths up to 100 mm
- For unsupported lengths up to 1,2 m and fill weights up to 1,5 kg/m
- If a small but very stable e-chain® is required
- If a one-piece, non snap-open e-chain® is required
- If an interior separation is required



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

- If extremely quick opening of the links is necessary
- ▶ **Series 15 zipper**, page 4.38
- If quick insertion of cables with preassembled connectors is required
- ▶ **Series E14 easy chain®**, page 3.32



Series 10 with molded-in separator available.

More information ▶ **page 5.83**

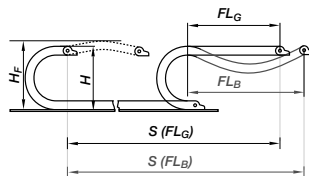
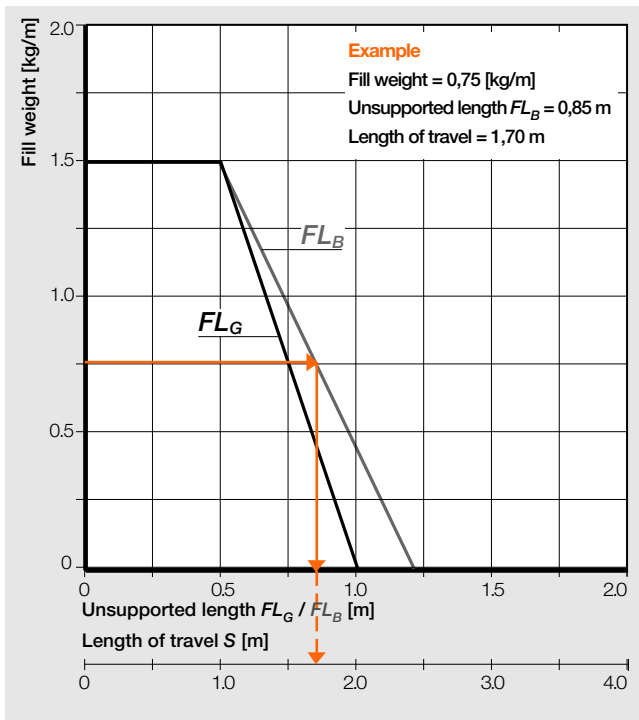


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3D-CAD files, configurators, PDF ▶ [www.igus.de/en/10](http://www.igus.de/en/10)



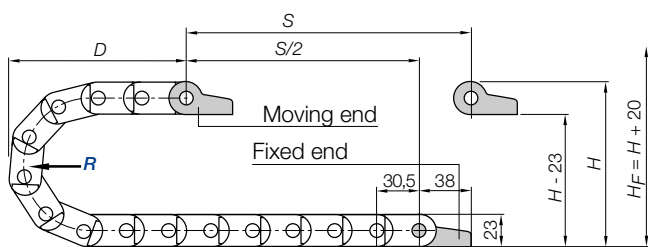
**Standard** **Unsupported applications**

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 5.78**

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



R	028	038	048	075	100	110	125	145	180
H	79	99	119	173	223	243	273	313	383
D	85	95	105	132	157	167	182	202	237
K	150	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
- $K = \pi \cdot R + \text{"safety"}$



### Series 10 | One-piece, non snap-open e-chain®

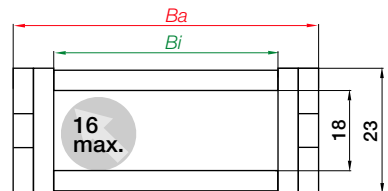
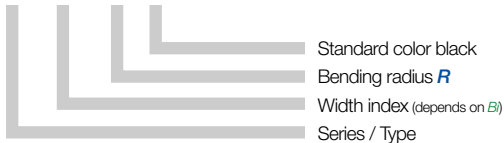
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
10. 015 . <i>R</i> .0	15	26	028   038   048   075   100   110   125   145   180	≈ 0,35
10. 025 . <i>R</i> .0	25	36	028   038   048   075   100   110   125   145   180	≈ 0,40
10. 038 . <i>R</i> .0	38	49	028   038   048   075   100   110   125   145   180	≈ 0,46
10. 050 . <i>R</i> .0	50	61	028   038   048   075   100   110   125   145   180	≈ 0,52
10. 5 . <i>R</i> .0	63	76	028   038   048   075   100   110   125   145   180	≈ 0,63
10. 6 . <i>R</i> .0	80	94	028   038   048   075   100   110   125   145   180	≈ 0,70
10. 7 . <i>R</i> .0	100	113	028   038   048   075   100   110   125   145   180	≈ 0,76

Supplement Part No. with required radius (*R*). Example: **10.025.038.0**



#### Order key

**10. 025. 038. 0**



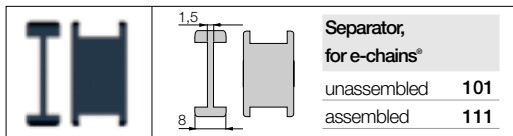
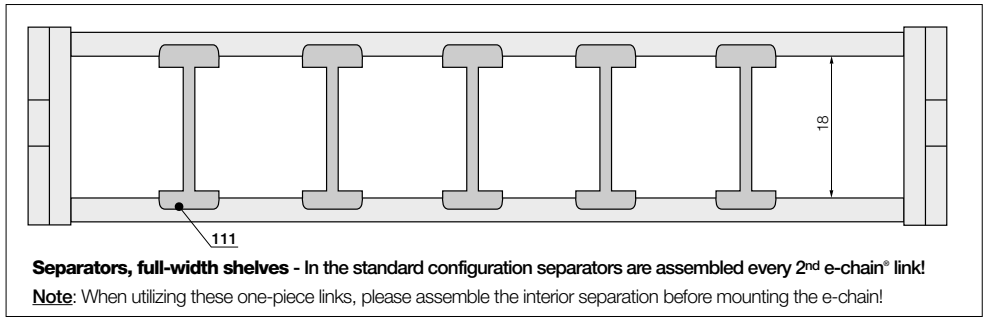
**10.025.038.0** = non snap-open e-chain®, *Bi* 25 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.87



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

\*Delivery time means time until shipping of goods



**Separator 101**

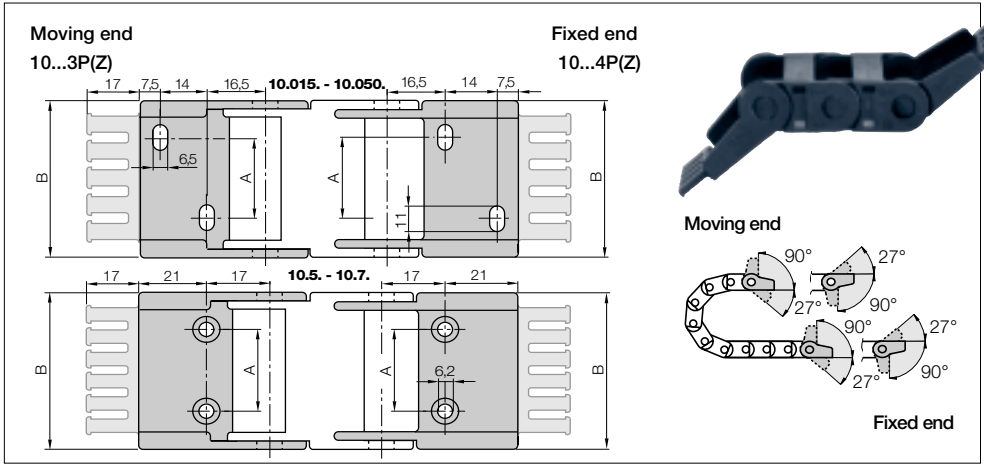
For a simple vertical subdivision on e-chains®. Separators can be arranged anywhere in the e-chain® cross-section.

**Series 10 | Optional | With molded-in vertical separation**

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Side compartment Dim. A [mm]	Middle compartment Dim. B [mm]	Weight [kg/m]
10. 038 .R.0.S	38	49	075	10	15	= 0,79
10. 050 .R.0.S	50	61	075	13	21	= 0,85

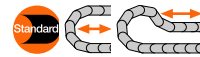
Supplement Part No. with required radius (*R*). Example: 10.038.075.0.S or 10.050.075.0.S

For tight installation conditions

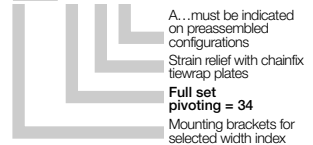
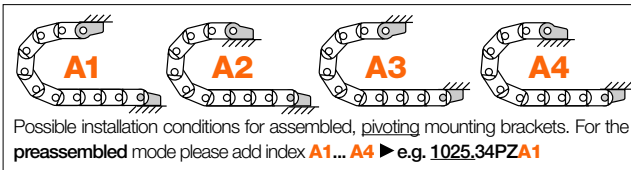
**Polymer pivoting, one-piece | Standard**

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

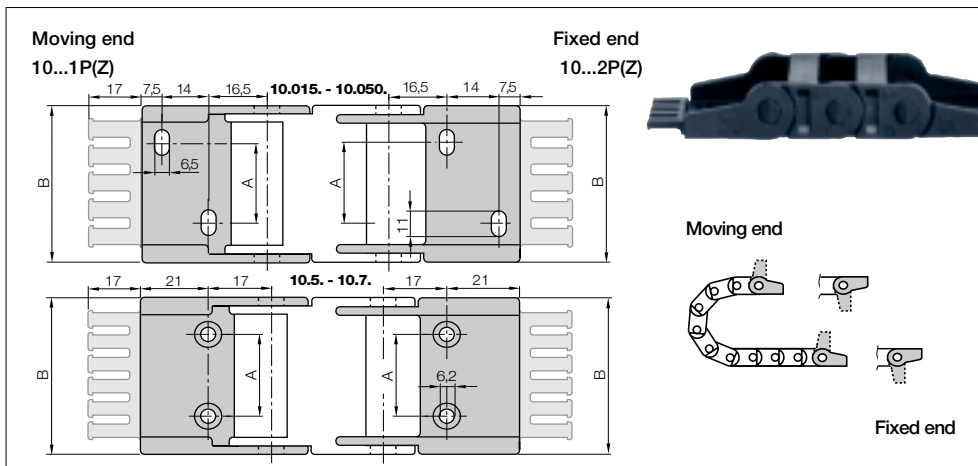


- Standard
- For tight installation conditions
- Strain relief with detachable tiewrap plates
- Variable traverse angle
- Corrosion-resistant
- Various installation options on the fixed end and/or the moving end

**Part No. structure (pivoting)****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

For very high speed and acceleration



## Polymer locking, one-piece

Recommended for vertical hanging and standing 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**



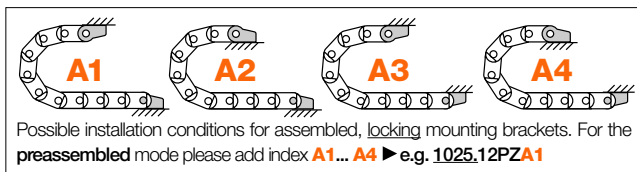
### Single-part order

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

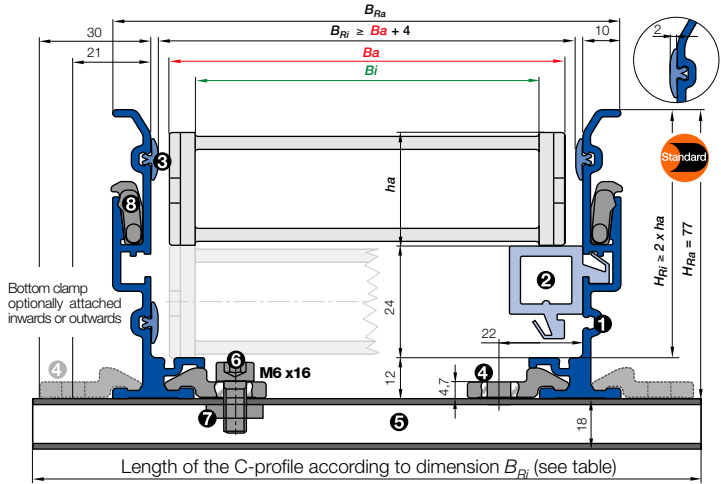
Part No. 970.30.SL | 970.31.SL | Trough height: 77 mm  
**Aluminum "SuperTrough" | Basic Version**

**Installation set "Basic" with C-Profile**

Bottom Clamp optionally attached inwards or outwards

10.025.038.0 ▶ Order example

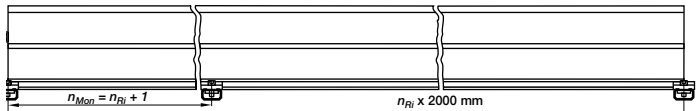
$B_{Ri}$ [mm]	Part No. attached inwards	Part No. attached outwards
.015	30	960.30.125
.025	40	960.30.150
.038	53	960.30.150
.050	65	960.30.125
.5	80	960.30.125
.6	98	960.30.150
.7	117	960.30.175



- **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 10.5.038.0 with  $B_{Ri} = 80$**

- 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 **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
- $B_a$  = Outer width e-chains\*
- $B_i$  = 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

 <b>Standard</b>	NC-Version - (no camber) without pretension	Reverse bending radius for circular movements	Unsupported lengths +25% possible	ATEX / ESD classified e-chains® 
<b>Part No. Standard e-chains®</b> 	<b>Part No. NC-Material e-chains®</b> NC 	<b>Part No. RBR e-chains®</b> 	<b>Part No. XXL-Material* e-chains®</b> 	<b>Part No. ESD-Material e-chains®</b> 
 <b>10.025.R.0</b>	<b>10.025.R.0.NC</b>	<b>10.025.R1/R2.0</b>	<b>10.025.R.0.XXL</b>	<b>10.025.R.0.ESD</b>
 <b>Delivery time 24h or today!*</b>	<b>Delivery time 3-5 work days</b>	<b>Delivery time 10 work days</b> <small>(2-5 work days at an express surcharge)</small>	<b>Delivery time 1-2 weeks</b>	<b>Delivery time 5 work days</b>

## 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 **10.025.038.0**

**+ Mounting brackets** 1 set (+ tiewrap plates) **1025.34PZ**

**+ Interior separation** with 2 separators assembled every 2<sup>nd</sup> link **2 x 111**

**Order text:** 1,0 m 10.025.038.0 + 1025.34PZ + 2 x 111















 **Order key**  
**10.025.038.0**



**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!)

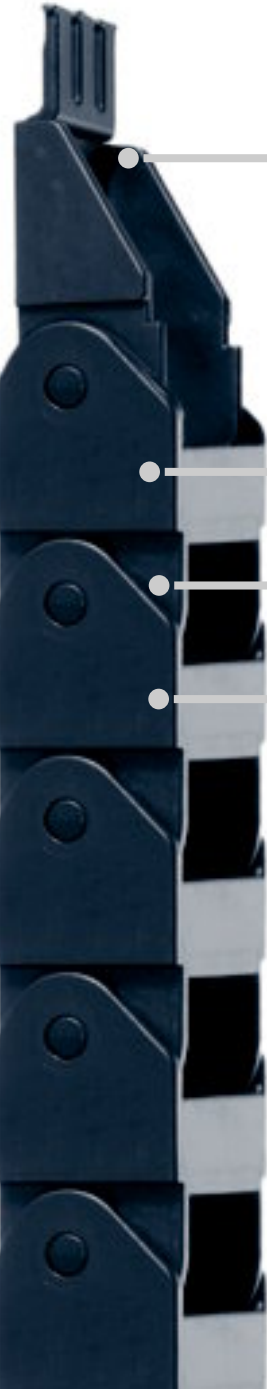
### Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
 black	<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

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\*Delivery time means time until shipping of goods





Mounting bracket  
with strain  
relief option

One-piece design,  
non snap-open

Lightweight,  
torsional stability

Dirt-repellent  
exterior

### Large inner height

**When to use the Series 11.031 E2 mini:**

- If an e-chain® with an inner height of 23 mm and small bending radii are required
- For inner widths up to 31 mm
- For unsupported lengths up to 1,3 m and fill weights up to 1,5 kg/m
- If a small e-chain® with extra torsional rigity is required
- If a one-piece, non snap-open e-chain® is required



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

- If extremely quick opening of the links is necessary
- ▶ **similar width/height from Series zipper, chapter 4**
- If quick insertion of cables with preassembled connectors is required
- ▶ **similar width/height from Series easy chain®, chapter 3**

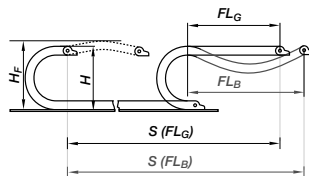
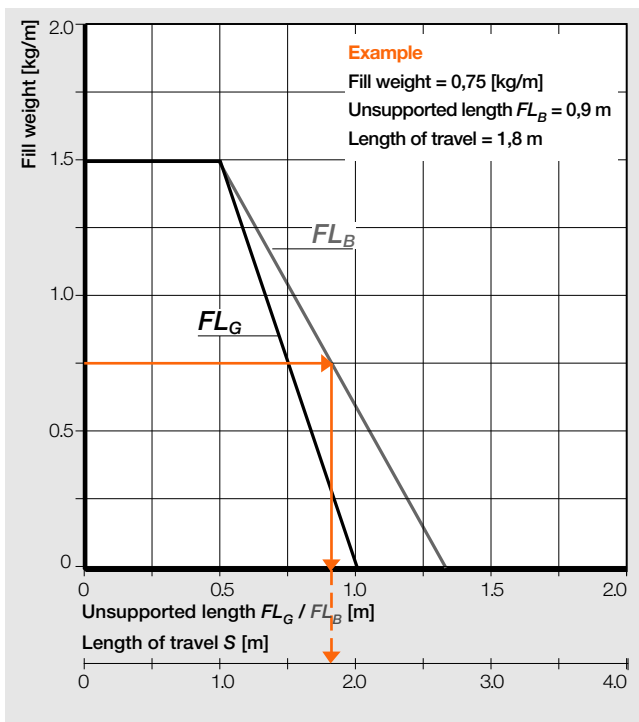


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/11.031](http://www.igus.de/en/11.031)



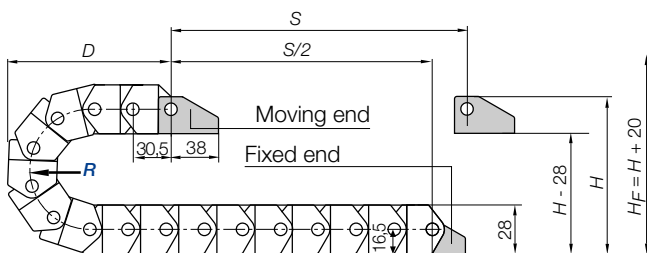
**Standard** **Unsupported applications**

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 5.78**

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1.006,5 mm)
- Chain length** =  $S/2 + K$



<b>R</b>	<b>045</b>	<b>070</b>
<b>H</b>	123	173
<b>D</b>	107	132
<b>K</b>	205	285

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



### Series 11.031 | One-piece, non snap-open e-chain®

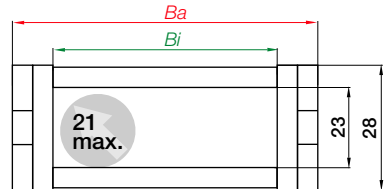
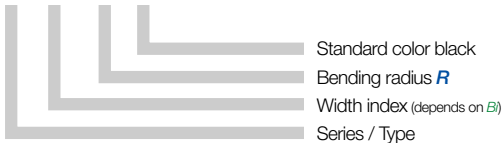
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
<b>11.031.R.0</b>	<b>31</b>	<b>41,2</b>	<b>045</b>   <b>070</b>	≈ 0,43

Supplement Part No. with required radius (*R*). Example: **11.031.045.0**



#### Order key

**11.031.045.0**



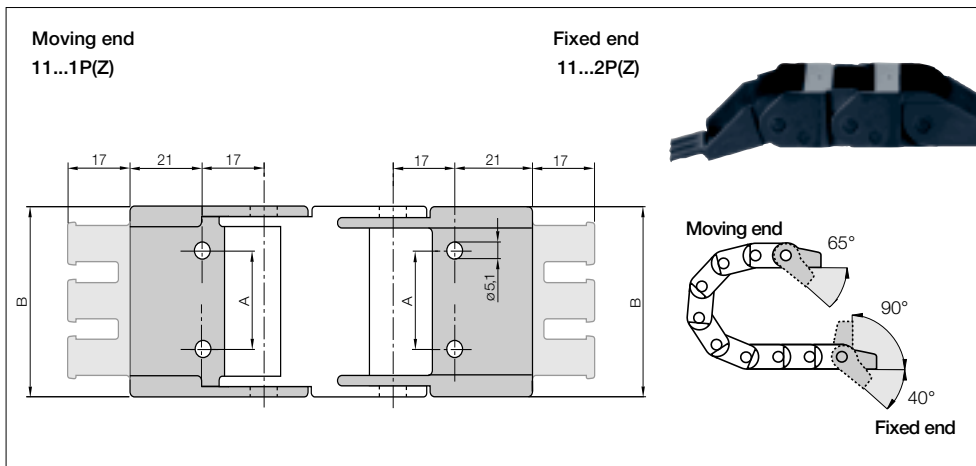
**11.031.045.0** = non snap-open e-chain®, *Bi* 31 mm inner width, *R* 045 mm radius, color black

More order examples and configuration options ► page 5.92



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

\*Delivery time means time until shipping of goods



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

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
031. ▶	<b>11.031.12PZ</b>	<b>11.031.12P</b>	16	42	3



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

Possible installation conditions:  
 For the **preassembled** mode please add index **A3** or **A4**  
 ▶ e.g. **11.031.12PZA2**

**Part No. structure**

**11.031.12PZA2**



**Single-part order**

Mounting bracket **Moving end**

**11.031.1PZA2** (preass. + tiewrap plate)

Mounting bracket **Fixed end**

**11.031.2PZA2** (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

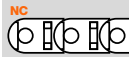
Unsupported  
lengths +25%  
possible

ATEX / ESD  
classified e-chains®  
II 2 GD

Part No.  
Standard  
e-chains®



Part No.  
NC-Material  
e-chains®



Part No.  
XXL-Material\*  
e-chains®



Part No.  
ESD-Material  
e-chains®



11.031.R.0

11.031.R.0.NC

11.031.R.0.XXL

11.031.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
1-2 weeks

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 33 links      **11.031.045.0**

+ Mounting brackets    1 set (with integrated strain relief)      **11.031.12PZ**

Order text: 1,0 m 11.031.045.0 + 11.031.12PZ



Order key

11.031.045.0



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



E2 mini - space-saving, extremely reliable solution. Elevator door application pictured here



Mounting bracket  
with strain  
relief option

Double stop dog  
for long un-  
supported travels

One-piece design,  
non snap-open

Dirt-repellent  
exterior

Stable  
design

Molded-in  
vertical separation

Large pin for  
high stability

## ⊕ Large inner height

**When to use the Series 11.080 E2 mini:**

- If an e-chain® with an inner height of 28 mm and small bending radii are required
- Long travels possible
- For unsupported lengths up to 1,5 m and fill weights up to 1,5 kg/m
- If a one-piece, non snap-open e-chain® is required



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

- If extremely quick opening of the links is necessary
- ▶ **similar width/height from Series zipper, chapter 4**
- If quick insertion of cables with preassembled connectors is required
- ▶ **similar width/height from Series easy chain®, chapter 3**



Series 11.080 features a molded-in vertical separation.  
More information ▶ [page 5.96](#)

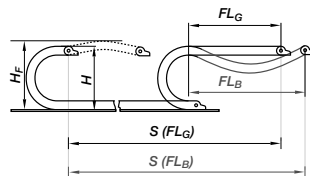
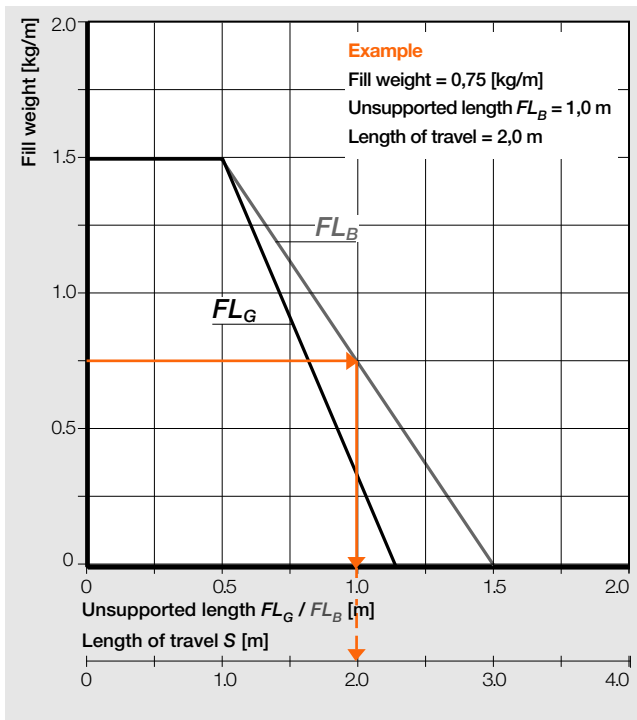


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/11.080](http://www.igus.de/en/11.080)



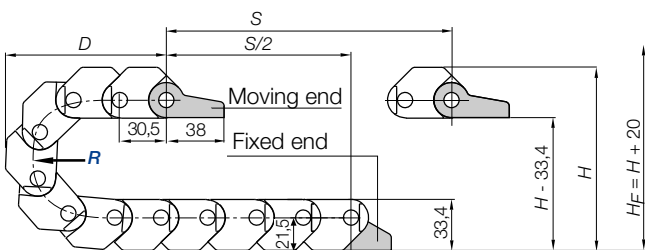
**Standard** **Unsupported applications**

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 5.78**

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1.006,5 mm)
- Chain length** =  $S/2 + K$



<b>R</b>	<b>038</b>
<b>H</b>	119
<b>D</b>	105
<b>K</b>	185

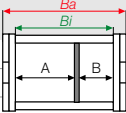
The required clearance height:  $H_F = H + 20$  mm (with 0,5 kg/m fill weight)

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





### Series 11.080 | non snap-open e-chain® with molded-in vertical separation

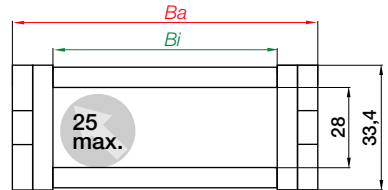
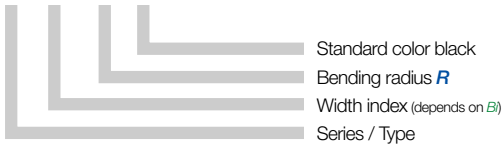
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]		Side compartment Dim. A [mm]	Middle compartment Dim. B [mm]	Weight [kg/m]
<b>11.080</b> . <i>R</i> .0	<b>80</b>	<b>93</b>	<b>038</b>		<b>46</b>	<b>32</b>	≈ 0,73

Supplement Part No. with required radius (*R*). Example: **11.080.038.0**



#### Order key

**11.080.038.0**



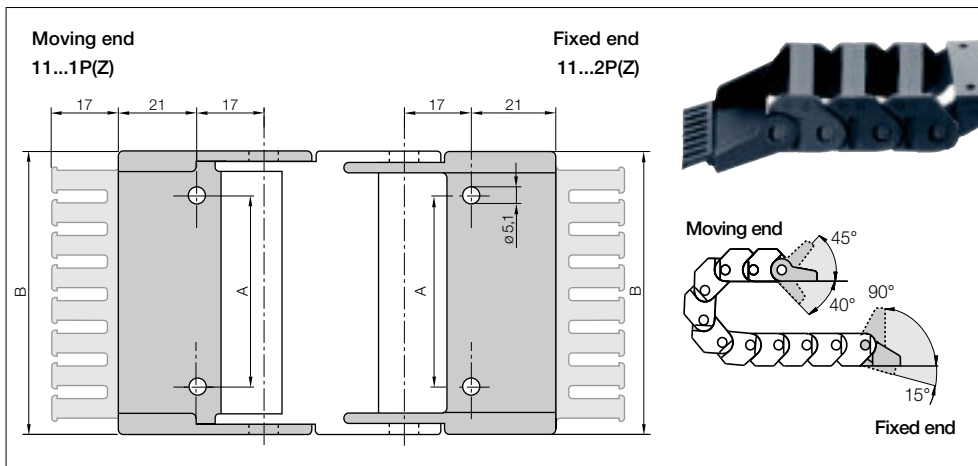
**11.080.038.0** = non snap-open e-chain®, *Bi* 80 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.98



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

\*Delivery time means time until shipping of goods

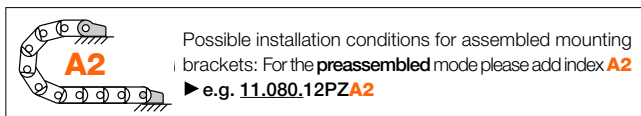


**Polymer pivoting, one-piece** | Universal for e-chains®  
For unsupported applications

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
080. ▶	<b>11.080.12PZ</b>	<b>11.080.12P</b>	65	93	8

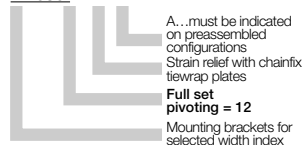


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible



**Part No. structure**

**11.080.12PZA2**



**Single-part order**

Mounting bracket **Moving end**

**11.080.1PZA2** (preass. + tiewrap plate)

Mounting bracket **Fixed end**

**11.080.2PZA2** (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

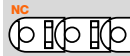
Unsupported  
lengths +25%  
possible

ATEX / ESD  
classified e-chains®  
II 2 GD

Part No.  
Standard  
e-chains®



Part No.  
NC-Material  
e-chains®



Part No.  
XXL-Material\*  
e-chains®



Part No.  
ESD-Material  
e-chains®



11.080.R.0

11.080.R.0.NC

11.080.R.0.XXL

11.080.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
1-2 weeks

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 33 links      **11.080.038.0**

+ Mounting brackets 1 set (with integrated strain relief)      **11.080.12PZ**

Order text: 1,0 m 11.080.038.0 + 11.080.12PZ



Order key

11.080.038.0



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!)

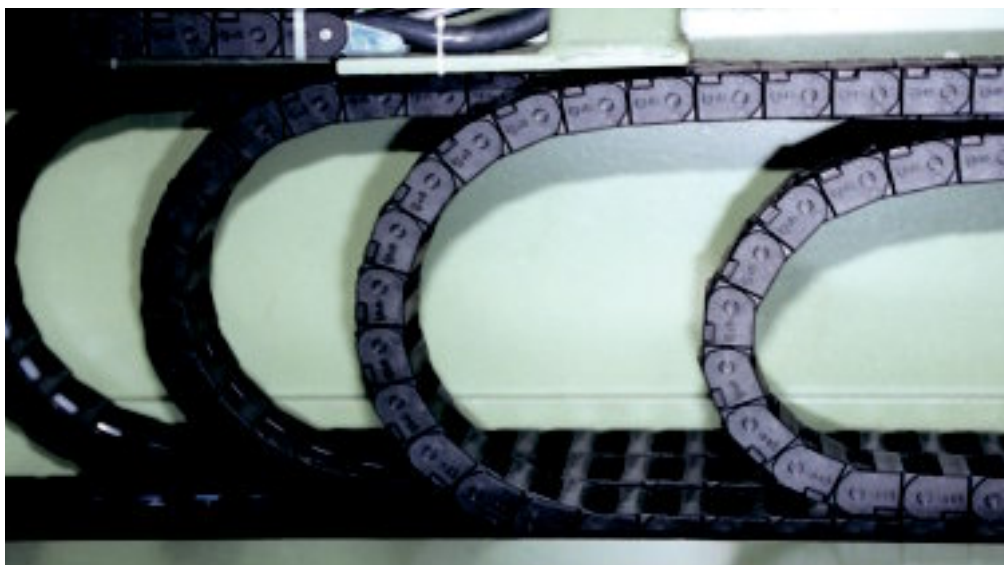
## Color options for e-chains® and e-tubes

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



Five E2 mini e-chains®, 3 side by side, 2 sets nested - the bending radii are exactly adjusted to one another



Mounting bracket  
with strain  
relief option

Increased  
inner height

Dirt-repellent  
exterior

One-piece design,  
non snap-open

### ⊕ **Very large inner height, small outer width**

#### **When to use the Series 11.1·11.2 E2 mini:**

- If an e-chain® with an inner height of 41 mm and small bending radii are required
- For inner widths up to 25 mm
- For unsupported lengths up to 1,35 m and fill weights up to 1,5 kg/m
- If space is restricted
- If many cables are arranged vertically adjacent
- If a one-piece, non snap-open e-chain® is required



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

- If extremely quick opening of the links is necessary
  - ▶ **similar width/height from Series zipper, chapter 4**
- If quick insertion of cables with preassembled connectors is required
  - ▶ **similar width/height from Series easy chain®, chapter 3**

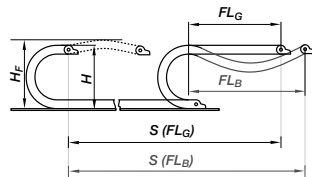
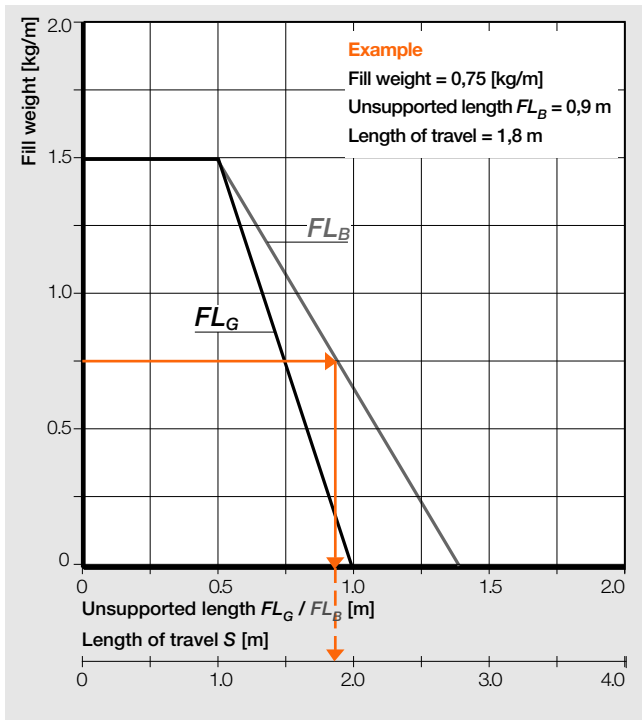


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods

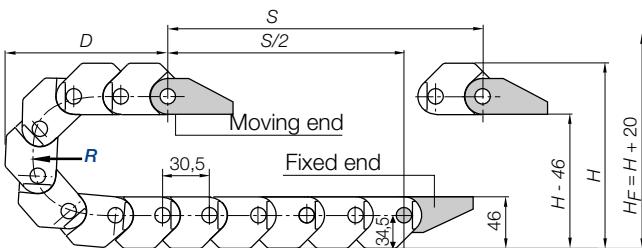


3D-CAD files, configurators, PDF ▶ [www.igus.de/en/11.1](http://www.igus.de/en/11.1)



**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 5.78**

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1.006,5 mm)
- Chain length** =  $S/2 + K$

R	040	063	075	100
H	149	195	219	269
D	120	143	155	180
K	190	260	300	380

The required clearance height:  $H_F = H + 20$  mm (with 0,5 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       $K = \pi \cdot R + \text{"safety"}$



### Series 11.1-11.2 | One-piece, non snap-open e-chain®

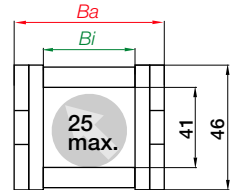
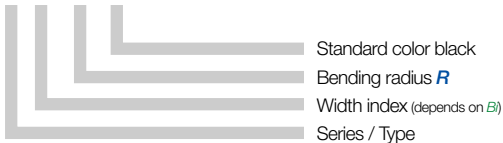
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
11.1 . <i>R</i> .0	15	25,5	040   063   075   100	≈ 0,50
11.2 . <i>R</i> .0	25	35,5	040   063   075   100	≈ 0,53

Supplement Part No. with required radius (*R*). Example: **11.1.040.0**



#### Order key

**11.1.040.0**



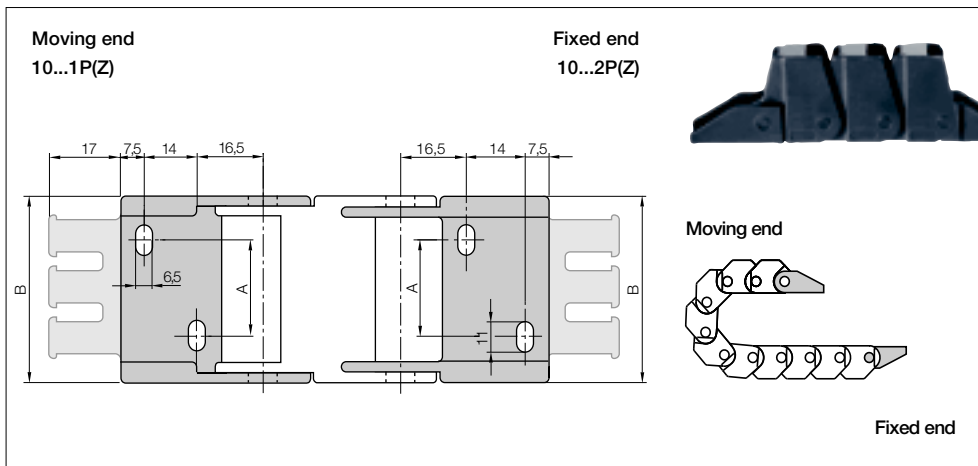
**11.1.040.0** = non snap-open e-chain®, *Bi* 15 mm inner width, *R* 040 mm radius, color black

More order examples and configuration options ► page 5.104



**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
1.	▶ 101.12PZ	101.12P	–	26	2
2.	▶ 102.12PZ	102.12P	10	36	3



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible

Possible installation conditions for assembled mounting brackets: For the **preassembled** mode please add index **A4**  
▶ e.g. **101.12PZA4**

**Part No. structure**  
**101. 12 PZ A4**



**Single-part order**

Mounting bracket **Moving end**

**101. 1PZA4** (preass. + tiewrap plate)

Mounting bracket **Fixed end**

**101. 2PZA4** (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



# E2 mini | Series 11.1-11.2 | Options and order key



Standard

Part No.  
Standard  
e-chains®



NC-Version -  
(no camber)  
without pretension

Part No.  
NC-Material  
e-chains®

NC



Unsupported  
lengths +25%  
possible

Part No.  
XXL-Material\*  
e-chains®



ATEX / ESD  
classified e-chains®

II 2 GD

Part No.  
ESD-Material  
e-chains®



11.080.R.0

11.080.R.0.NC

11.080.R.0.XXL

11.080.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
1-2 weeks

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:

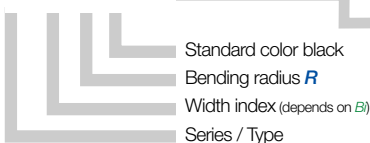
e-chain® (1,0 m)      Please indicate e-chain® length or number of links: 1,0 m or 33 links      **11.1.040.0**

+ Mounting brackets      1 set (with integrated strain relief)      **11.1.12PZ**

Order text: 1,0 m 11.2.040.0 + 11.1.12PZ



Order key  
**11.1.040.0**



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!)

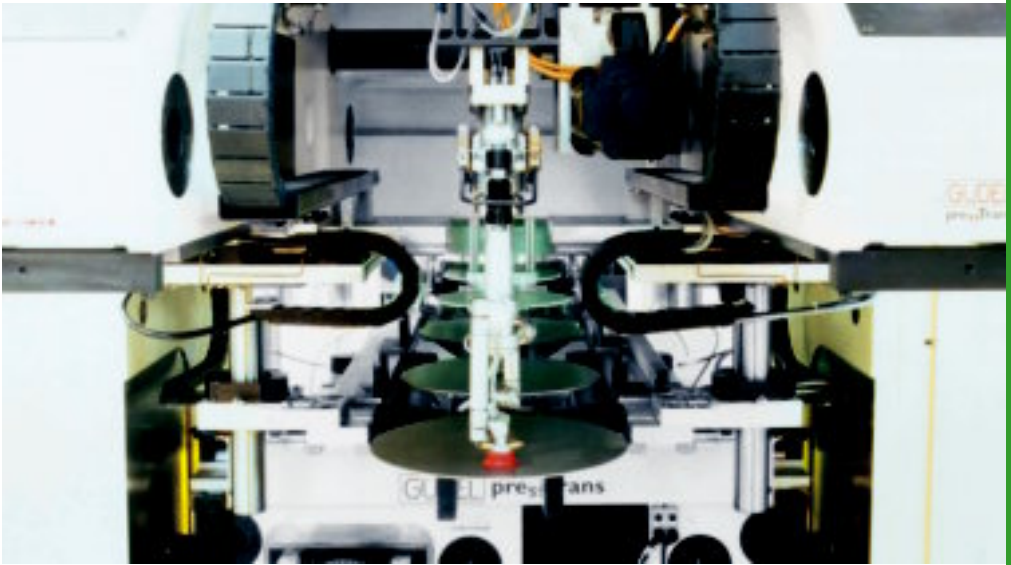
## Color options for e-chains® and e-tubes

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



Short travels and high accelerations with Series E2 mini



Mounting bracket  
with strain  
relief option

One-piece  
link-design

Crossbar, snap-open along  
inner radius with film-hinge

Dirt-repellent  
exterior

Closed  
outside

### **+** Snap-open along inner radius

#### When to use the Series 14 E2 mini:

- If an e-chain® with an inner height of 20 mm and small bending radii are required
- For inner widths up to 50 mm
- For unsupported lengths up to 0,65 m and fill weights up to 0,5 kg/m
- If snap-open mechanism with film-hinge is required



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

- For gliding applications
- ▶ **Series 15 zipper, page 4.38**
- For long unsupported travels
- ▶ **Series 15 zipper, page 4.38**

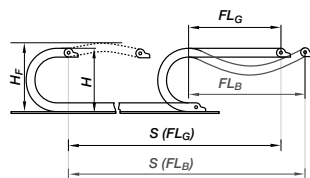
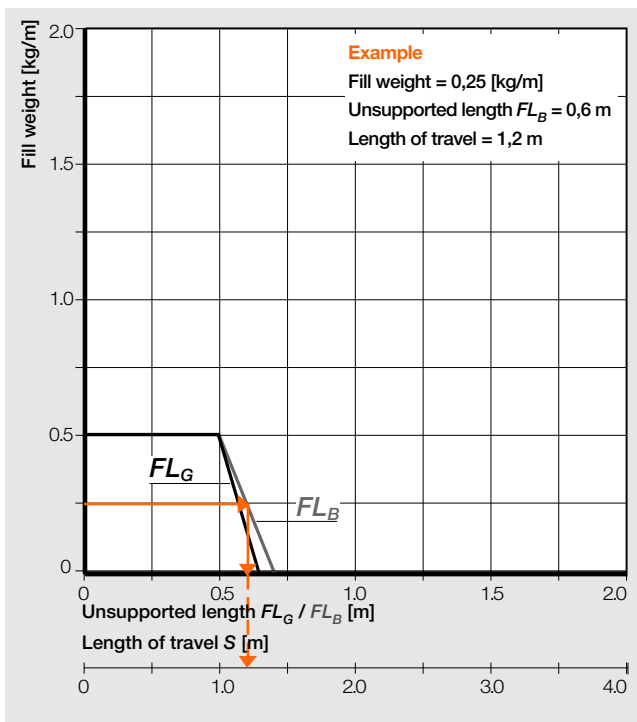


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/14](http://www.igus.de/en/14)



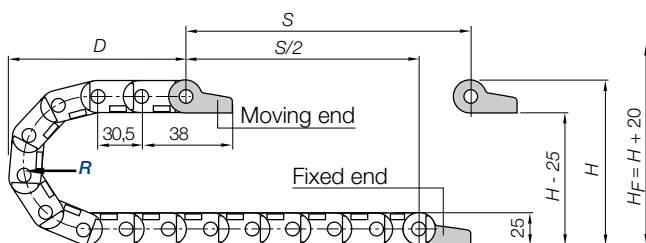
**Standard** **Unsupported applications**

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 5.78**

- Pitch** = 30,5 mm/link
- Links/m** = 33 (1.006,5 mm)
- Chain length** =  $S/2 + K$



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

The required clearance height:  $H_F = H + 20$  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
- $K = \pi \cdot R + \text{"safety"}$



### Series 14 | One-piece, snap-open along inner radius with film-hinge

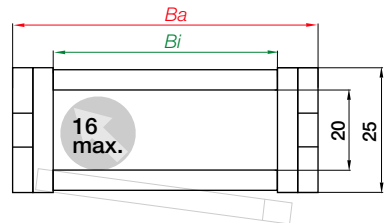
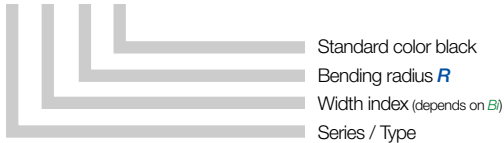
Snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
14.1. <i>R</i> .0	15	26	028   038   048   075   100   125	≈ 0,31
14.2. <i>R</i> .0	25	36	028   038   048   075   100   125	≈ 0,32
14.3. <i>R</i> .0	38	49	028   038   048   075   100   125	≈ 0,40
14.4. <i>R</i> .0	50	61	028   038   048   075   100   125	≈ 0,41

Supplement Part No. with required radius (*R*). Example: **14.2.038.0**



#### Order key

**14.2.038.0**



**14.2.038.0** = e-chain® snap-open along inner radius, *Bi* 25 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.110



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

\*Delivery time means time until shipping of goods

**Moving end**  
114...1P(Z)

**Fixed end**  
114...2P(Z)

**Moving end**

**Fixed end**

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

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

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



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

Possible installation conditions for assembled mounting brackets:  
For the **preassembled** mode please add index **A1... A4** ▶ e.g. **114.2.12PZA1**

**Part No. structure**

**114.2.12PZA1**



**Single-part order**

Mounting bracket **Moving end**

**114.2.1PZA1** (preass. + tiewrap plate)

Mounting bracket **Fixed end**

**114.2.2PZA1** (preass. + tiewrap plate)

**Additional Features**



**Quicksnap** - the complete, detachable mounting unit, available upon request



**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

# E2 mini | Series 14 | Options and order key



Standard

NC-Version -  
(no camber)  
without pretension

Reverse bending  
radius for circular  
movements

Unsupported  
lengths +25%  
possible

ATEX / ESD  
classified e-chains®  
II 2 GD

Part No.  
Standard  
e-chains®



Part No.  
NC-Material  
e-chains®



Part No.  
RBR  
e-chains®



Part No.  
XXL-Material\*  
e-chains®



Part No.  
ESD-Material  
e-chains®



14.2.R.0

14.2.R.0.NC

14.2.R1/R2.0

14.2.R.0.XXL

14.2.R.0.ESD



Delivery time  
24h or today!\*

Delivery time  
3-5 work days

Delivery time  
10 work days

(2-5 work days at an  
express surcharge)

Delivery time  
1-2 weeks

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 33 links

14.2.038.0

+ Mounting brackets 1 set (with integrated strain relief)

114.2.12PZ

Order text: 1,0 m 14.2.038.0 + 114.2.12PZ



Order key  
14.2.038.0



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!)

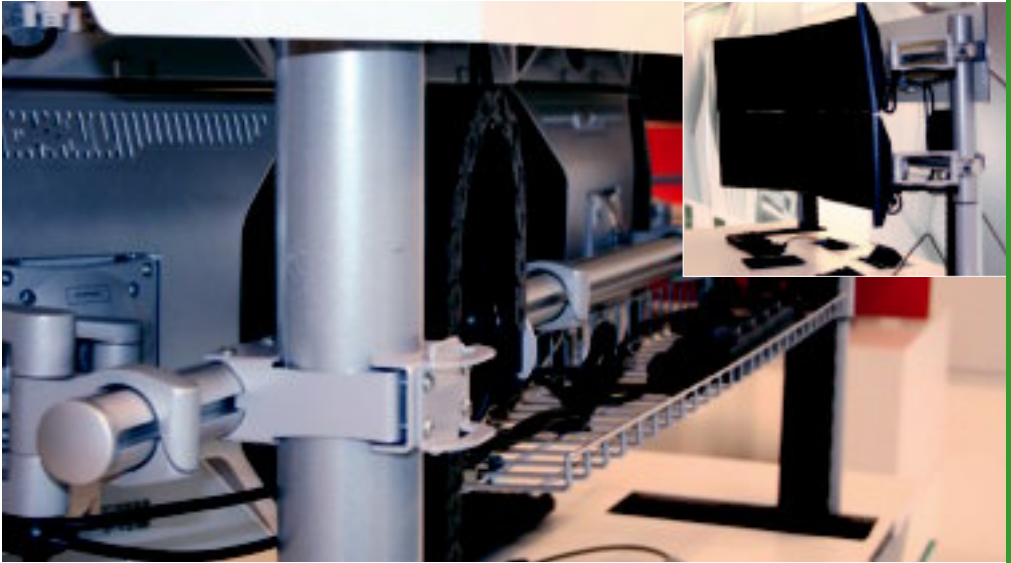
## Color options for e-chains® and e-tubes

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



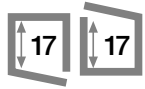
Available from stock. Delivery in 24h or today!\*

\*Delivery time means time until shipping of goods



Cost-effective cable guidance with E2 mini





Mounting bracket  
with strain  
relief option

B15 and B15i  
can be combined

Large pin for  
high stability

Series B15i snap-open  
along inner radius

Dirt-repellent  
exterior

Double stop dog  
for long un-  
supported travels

Series B15 snap-open  
along outer radius

Two-piece  
link design

## ⊕ Snap-open along inner and outer radius

**When to use the Series B15i-B15 E2 mini:**

- If an e-chain® with an inner height of 17 mm and small bending radii are required
- For inner widths up to 100 mm
- For unsupported lengths up to 1,2 m and fill weights up to 1,5 kg/m
- If a small but very stable e-chain® is required
- If a two-piece, snap-open e-chain® is required
- If an interior separation is required



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

- If snap-open links are not necessary
- ▶ **Series 10 E2 mini, page 5.80**
- If torsion occurs
- ▶ **Series E14 easy chain®, page 3.32**

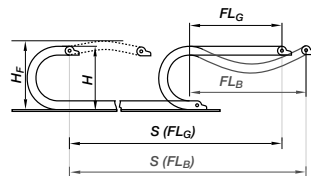
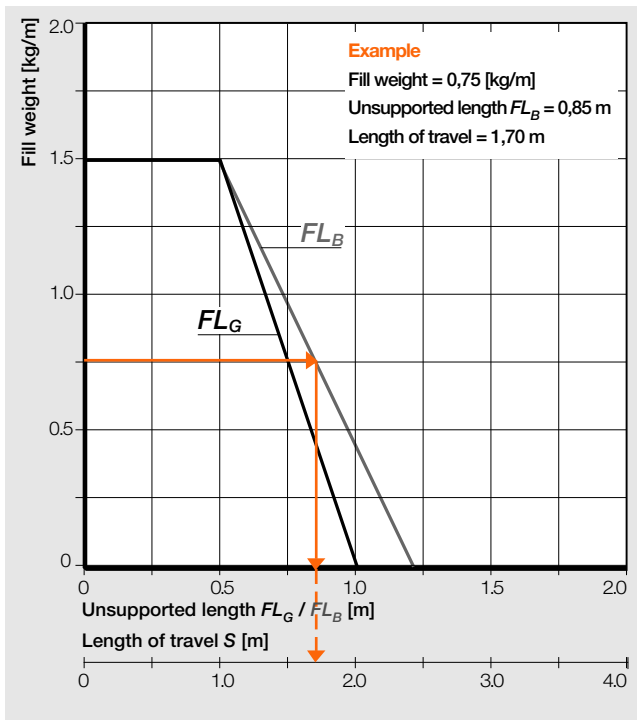


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/B15](http://www.igus.de/en/B15)



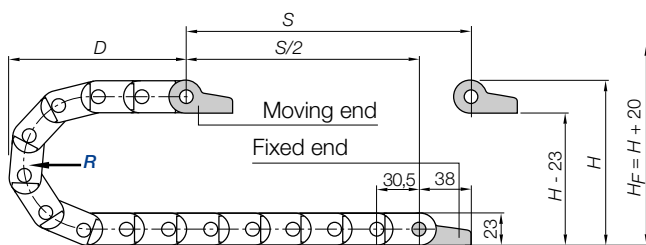
**Standard** **Unsupported applications**

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 5.78**

- 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)

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



**Series B15i** snap-open along inner radius | **Series B15** along outer radius | **Standard**

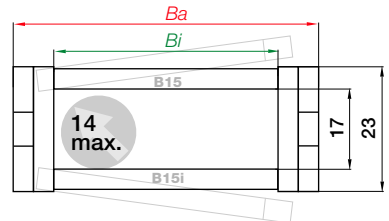
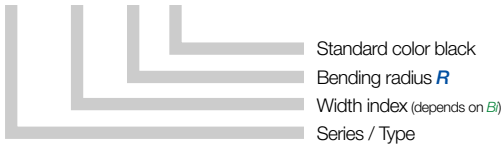
Snap-open along inner radius	Snap-open along outer radius 	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]											B15i [kg/m]	B15 [kg/m]
<b>B15i.015.R.0</b>	<b>B15.015.R.0</b>	15	26	038   048   075   100   110   125   145   180	≈ 0,35	≈ 0,35										
<b>B15i.025.R.0</b>	<b>B15.025.R.0</b>	25	36	038   048   075   100   110   125   145   180	≈ 0,40	≈ 0,40										
<b>B15i.038.R.0</b>	<b>B15.038.R.0</b>	38	49	038   048   075   100   110   125   145   180	≈ 0,46	≈ 0,46										
<b>B15i.050.R.0</b>	<b>B15.050.R.0</b>	50	61	038   048   075   100   110   125   145   180	≈ 0,52	≈ 0,52										
<b>B15i.5.R.0</b>	<b>B15.5.R.0</b>	63	76	038   048   075   100   110   125   145   180	≈ 0,63	≈ 0,63										
<b>B15i.6.R.0</b>	<b>B15.6.R.0</b>	80	94	038   048   075   100   110   125   145   180	≈ 0,70	≈ 0,70										
<b>B15i.7.R.0</b>	<b>B15.7.R.0</b>	100	113	038   048   075   100   110   125   145   180	≈ 0,76	≈ 0,76										

Supplement Part No. with required radius (*R*). Example: **B15.025.038.0**



**Order key**

**B15.025.038.0**



**B15i.025.038.0** = e-chain® snap-open along inner radius, *Bi* 25 mm inner width, *R* 038 mm radius, color black

**B15.025.038.0** = e-chain® snap-open along outer radius, *Bi* 25 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.119

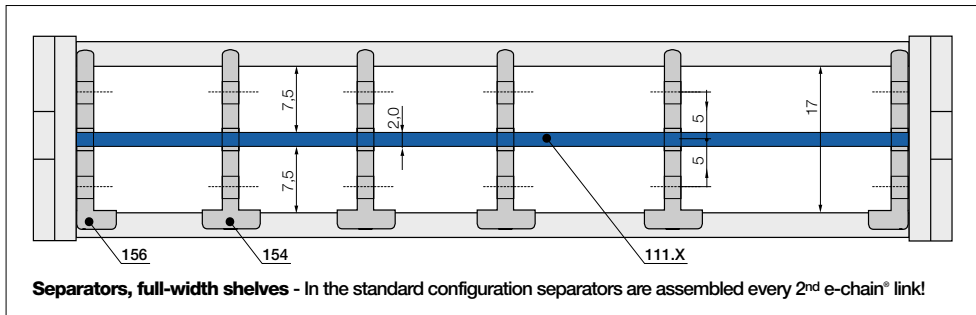


**Part No. of e-chain® links as single parts** ► page 5.79



**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></p> <p>unassembled <b>153</b></p> <p>assembled <b>154</b></p>
		<p><b>Side plate for e-chains®</b></p> <p>unassembled <b>155</b></p> <p>assembled <b>156</b></p>
		<p><b>Full-width shelf for e-chains®</b></p> <p>unassembled <b>110.X</b></p> <p>assembled <b>111.X</b></p>

**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 155**

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

**Full-width shelf 110.X**

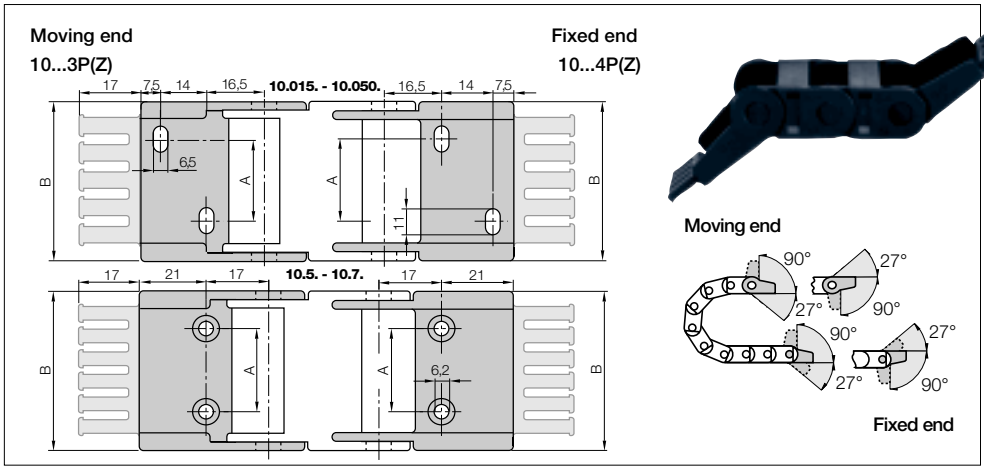
this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

**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>			

# E2 mini | Series B15i·B15 | Mounting brackets pivoting

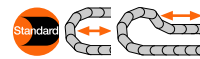
For tight installation conditions



## Polymer pivoting, one-piece | Standard

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



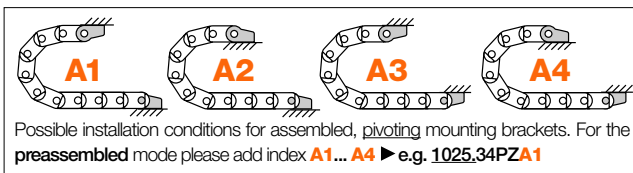
### Single-part order

Mounting bracket **Moving end**

1025.3 PZ A1 (press. + tiewrap plate)

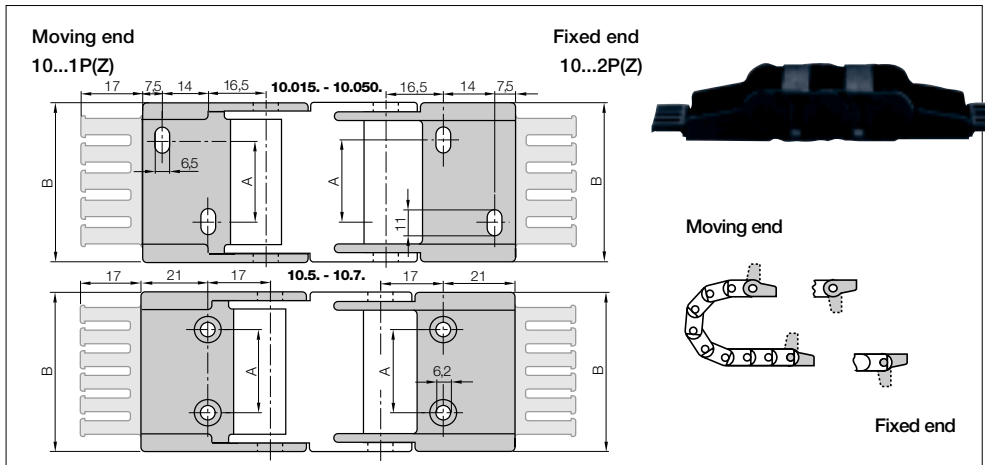
Mounting bracket **Fixed end**

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

For very high speed and acceleration



## Polymer locking, one-piece

Recommended for vertical hanging and standing 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**



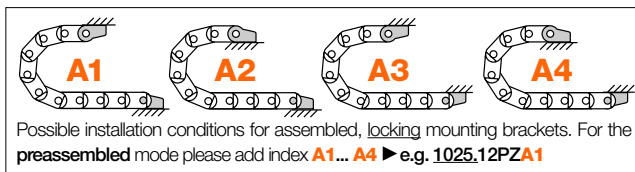
### Single-part order

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

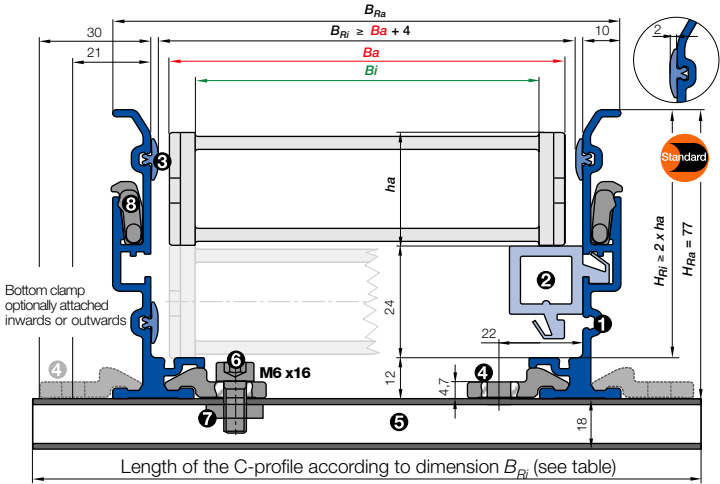
Part No. 970.30.SL | 970.31.SL | Trough height: 77 mm  
**Aluminum "SuperTrough" | Basic Version**

**Installation set "Basic" with C-Profile**

Bottom Clamp optionally attached inwards or outwards

B15.025.038.0 ▶ Order example

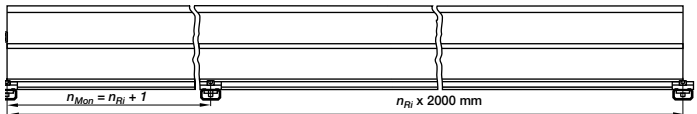
$B_{Ri}$ [mm]	Part No. attached inwards	Part No. attached outwards
.015	-	960.30.125
.025	-	960.30.150
.038	-	960.30.150
.050	960.30.125	960.30.175
.5	960.30.125	960.30.175
.6	960.30.150	960.30.200
.7	960.30.175	960.30.225



- 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 B15.025.038.0 with  $B_{Ri} = 40$**




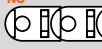





- Guide trough set **without glide bar** (set of 2 trough side parts, incl. glide strips)
- Order text: 16 m guide trough without glide bar** (8 x 2 m sections) **Part No. 970.30.SL**
- Guide trough set **with glide bar** (set of 2 trough side parts, incl. glide strips)
- Order text: 16 m guide trough 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
- Installation set
- Glide bar
- C-Profile
- $B_a$  = Outer width e-chains\*
- $B_i$  = 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

# E2 mini | Series B15i·B15 | Options and order key

 <b>Standard</b>	<i>NC-Version - (no camber) without pretension</i>	<i>Reverse bending radius for circular movements</i>	<i>Unsupported lengths +25% possible</i>	<i>ATEX / ESD classified e-chains®</i> 
<b>Part No. Standard e-chains®</b> 	<b>Part No. NC-Material e-chains®</b> 	<b>Part No. RBR e-chains®</b> 	<b>Part No. XXL-Material* e-chains®</b> 	<b>Part No. ESD-Material e-chains®</b> 
 <b>B15.025.R.0</b>	<b>B15.025.R.0.NC</b>	<b>B15.025.R1/R2.0</b>	<b>B15.025.R.0.XXL</b>	<b>B15.025.R.0.ESD</b>
 <b>Delivery time 24h or today!*</b>	<b>Delivery time 3-5 work days</b>	<b>Delivery time 10 work days</b> <small>(2-5 work days at an express surcharge)</small>	<b>Delivery time 1-2 weeks</b>	<b>Delivery time 5 work days</b>

## Order example | Order key and color options

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















<b>e-chain® (1,0 m)</b>	Please indicate e-chain® length or number of links: 1,0 m or 33 links	<b>B15.025.038.0</b>
<b>+ Mounting brackets</b>	1 set (+ tiewrap plates)	<b>1025.34PZ</b>
<b>+ Interior separation</b>	with 2 separators assembled every 2 <sup>nd</sup> link	<b>2 x 154</b>
<b>Order text: 1,0 m B15.025.038.0 + 1025.34PZ + 2 x 154</b>		

 **Order key  
B15.025.038.0**



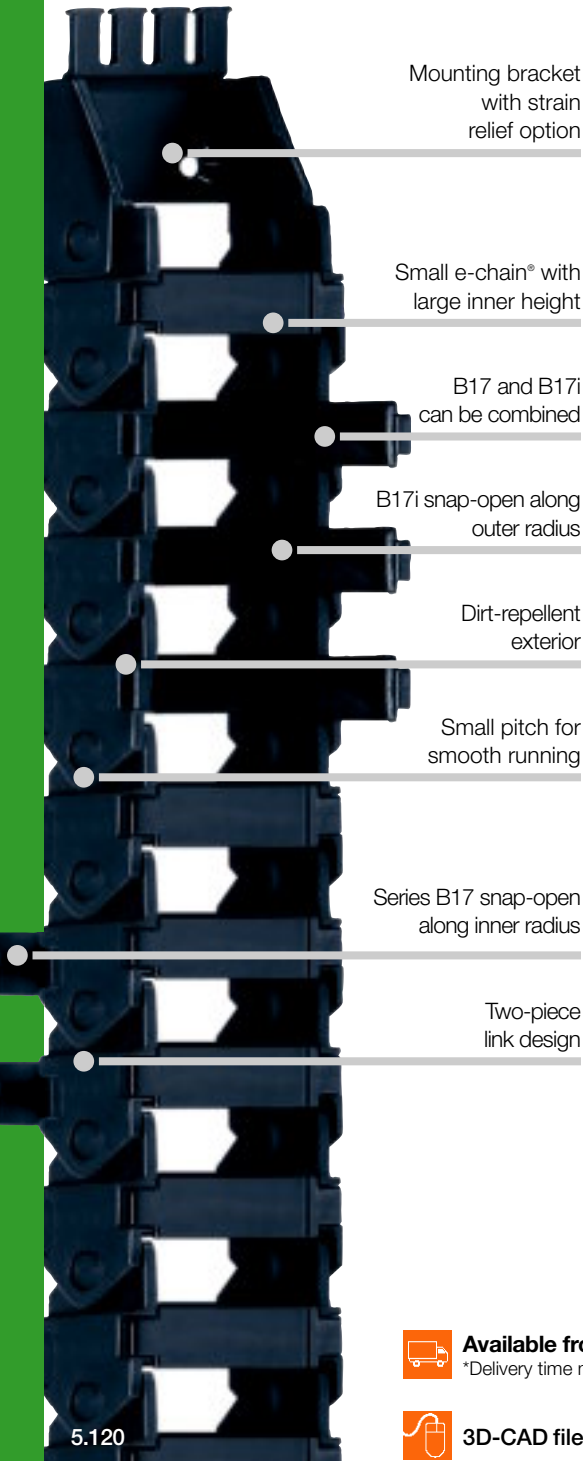
**Black e-chains® from stock!**  
\*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

Color	Order index	Color	Order index
 black	<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

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





Mounting bracket  
with strain  
relief option

Small e-chain® with  
large inner height

B17 and B17i  
can be combined

B17i snap-open along  
outer radius

Dirt-repellent  
exterior

Small pitch for  
smooth running

Series B17 snap-open  
along inner radius

Two-piece  
link design

## ⊕ Snap-open along inner and outer radius

**When to use the Series B17i-B17 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 small e-chain® with a large inner height is required
- If a two-piece, snap-open e-chain® is required
- If quick insertion of cables with preassembled connectors is required
- If an interior separation is required



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

- If quick opening of the links is required
- ▶ **Series 17 zipper, page 4.54**

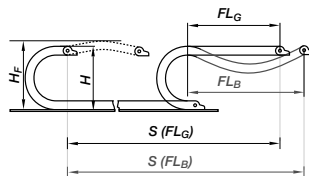
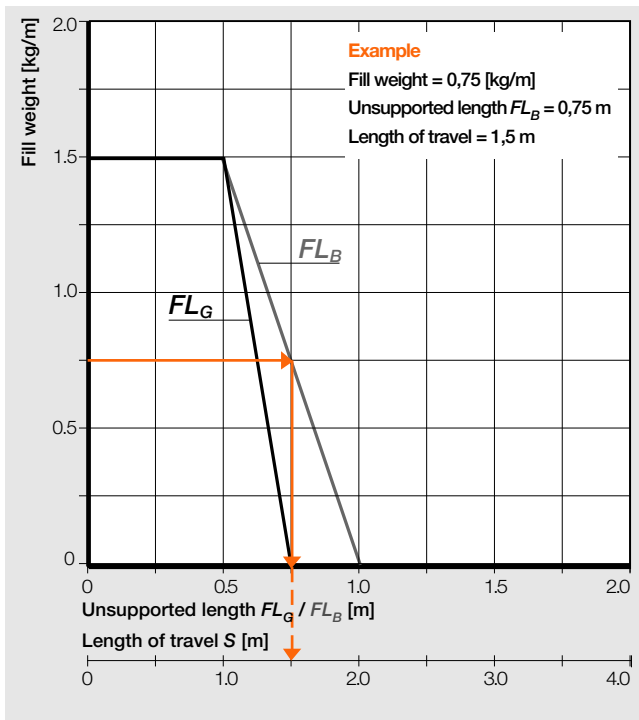


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/B17](http://www.igus.de/en/B17)



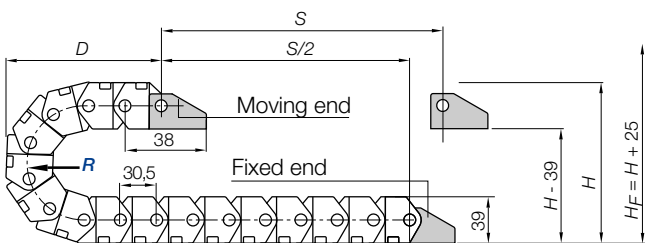
**Standard** **Unsupported applications**

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 5.78**

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



R	048 <sup>1)</sup>	063 <sup>2)</sup>	075	100 <sup>2)</sup>	125 <sup>2)</sup>
H	135	165	189	239	289
D	113	128	140	165	190
K	215	260	300	380	455


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

<sup>1)</sup> For Series B17.5, B17.7 Radius 048 upon request. <sup>2)</sup> For Series B17i Radii 063, 100, 125 upon request. Delivery time approx. 2-3 weeks after order.

**i**  $FL_G$  = with straight upper run      $S$  = Length of travel      $H$  = Nominal clearance height      $D$  = Overlength e-chain<sup>1)</sup>, radius in final position  
 $FL_B$  = with permitted sag      $R$  = Bending radius      $H_F$  = Required clearance height      $K = \pi \cdot R + \text{“safety”}$



**Series B17i** snap-open along inner radius | **Series B17** along outer radius | **Standard**

Snap-open along inner radius	Snap-open along outer radius 	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	B17i [kg/m]	B17 [kg/m]
B17i.1 .R.0**	B17.1 .R.0	15	25,5	048   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 0,52	≈ 0,52
B17i.2 .R.0**	B17.2 .R.0	25	35,5	048   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 0,59	≈ 0,59
B17i.3 .R.0	B17.3 .R.0	38	48,5	048   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 0,65	≈ 0,65
B17i.4 .R.0**	B17.4 .R.0	50	60,5	048   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 0,70	≈ 0,70
B17i.5 .R.0**	B17.5 .R.0	63	76	048 <sup>1)</sup>   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 0,83	≈ 0,83
B17i.6 .R.0**	B17.6 .R.0	80	93	048   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 0,92	≈ 0,92
B17i.7 .R.0**	B17.7 .R.0	100	113	048 <sup>1)</sup>   063 <sup>2)</sup>   075   100 <sup>2)</sup>   125 <sup>2)</sup>	≈ 1,06	≈ 1,06

\*\* For Series B17i.1, B17i.2, B17i.4, B17i.5, B17i.6, B17i.7 - Width upon request. Delivery time approx. 8-10 weeks after order.

<sup>1)</sup> For Series B17.5, B17.7 - Radius 048 upon request.

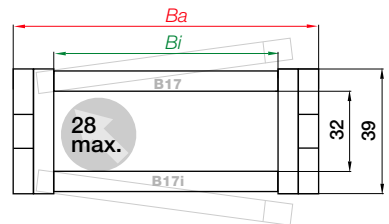
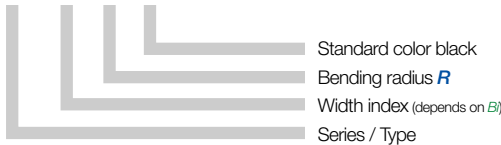
<sup>2)</sup> For Series B17i - Radii 063, 100, 125 upon request. Delivery time approx. 2-3 weeks after order.

Supplement Part No. with required radius (*R*). Example: **B17.2.048.0**



**Order key**

**B17. 2. 048. 0**



**B17i.2.048.0** = e-chain® snap-open along inner radius, *Bi* 25 mm inner width, *R* 048 mm radius, color black

**B17.2.048.0** = e-chain® snap-open along outer radius, *Bi* 25 mm inner width, *R* 048 mm radius, color black

More order examples and configuration options ► page 5.125

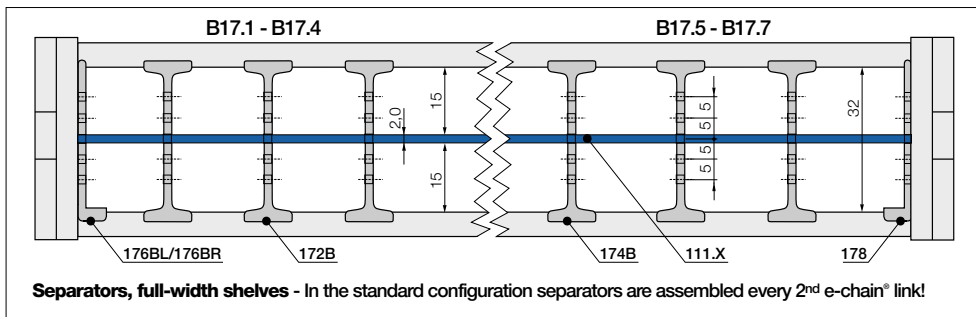

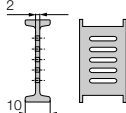


**Part No. of e-chain® links as single parts** ► page 5.79




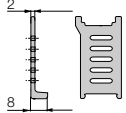
**Standard e-chains® available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods


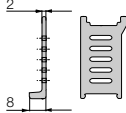
**Slotted separator for B17.1 up to B17.4**  
 unassembled **171B**  
 assembled **172B**

**Slotted separator 171B** (B17.1 up to B17.4) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.


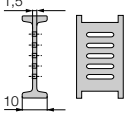
**Side plate (left) for B17.1 up to B17.4**  
 unassembled **175BL**  
 assembled **176BL**

**Side plate 175BL, left** (B17.1 up to B17.4) Side plate (left) for use with full-width shelf 110.X and slotted separator 171B.


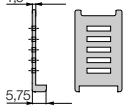
**Side plate (right) for B17.1 up to B17.4**  
 unassembled **175BR**  
 assembled **176BR**

**Side plate 175BR, right** (B17.1 up to B17.4) Side plate (right) for use with full-width shelf 110.X and slotted separator 171B.


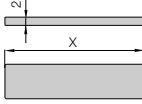
**Slotted separator for B17.5 up to B17.7**  
 unassembled **173B**  
 assembled **174B**

**Slotted separator 173B** (B17.5 up to B17.7) is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Side plate for B17.5 up to B17.7**  
 unassembled **177**  
 assembled **178**

**Side plate 177** (B17.5 up to B17.7) Side plate for use with full-width shelf 110.X and slotted separator 173B.

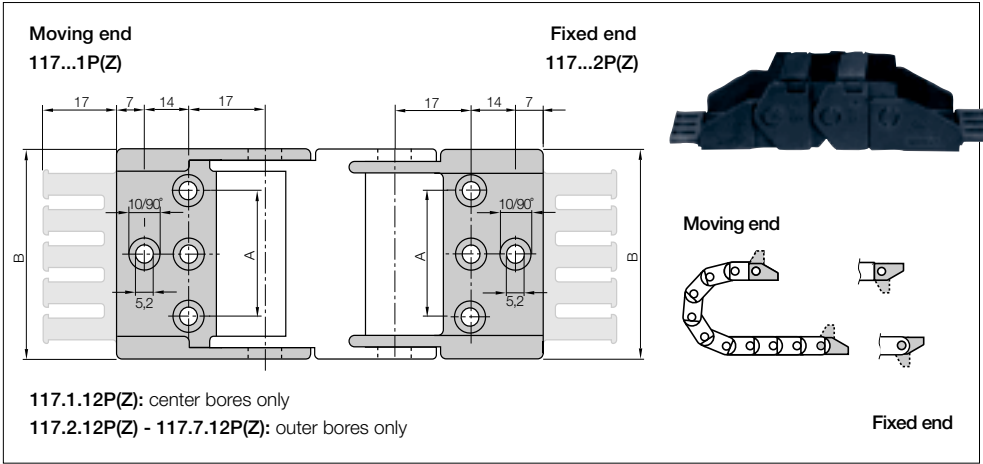



**Full-width shelf for all widths**  
 unassembled **110.X**  
 assembled **111.X**

**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

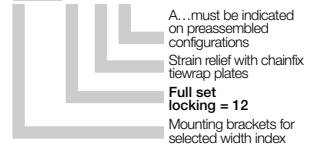
Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
1.	▶ 117.1.12PZ	117.1.12P	–	25,5	2
2.	▶ 117.2.12PZ	117.2.12P	12	35,5	3
3.	▶ 117.3.12PZ	117.3.12P	25	48,5	4
4.	▶ 117.4.12PZ	117.4.12P	37	60,5	5
5.	▶ 117.5.12PZ	117.5.12P	48	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**



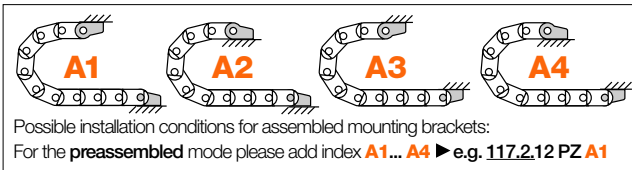
**Single-part order**

Mounting bracket **Moving end**

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




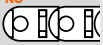





Mounting bracket **Fixed end**

**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

# E2 mini | Series B17i·B17 | Options and order key

 <b>Standard</b>	<i>NC-Version - (no camber) without pretension</i>	<i>Reverse bending radius for circular movements</i>	<i>Unsupported lengths +25% possible</i>	<i>ATEX / ESD classified e-chains®</i> 
<b>Part No. Standard e-chains®</b> 	<b>Part No. NC-Material e-chains®</b> 	<b>Part No. RBR e-chains®</b> 	<b>Part No. XXL-Material* e-chains®</b> 	<b>Part No. ESD-Material e-chains®</b> 
 <b>B17.2.R.0</b>	<b>B17.2.R.0.NC</b>	<b>B17.2.R1/R2.0</b>	<b>B17.2.R.0.XXL</b>	<b>B17.2.R.0.ESD</b>
 <b>Delivery time 24h or today!*</b>	<b>Delivery time 3-5 work days</b>	<b>Delivery time 10 work days</b> <small>(2-5 work days at an express surcharge)</small>	<b>Delivery time 1-2 weeks</b>	<b>Delivery time 5 work days</b>

## Order example | Order key and color options

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

<b>e-chain® (1,0 m)</b>	Please indicate e-chain® length or number of links: 1,0 m or 33 links	<b>B17.2.048.0</b>
<b>+ Mounting brackets</b>	1 set (+ tiewrap plates)	<b>117.2.12PZ</b>
<b>+ Interior separation</b>	with 2 separators assembled every 2 <sup>nd</sup> link	<b>2 x 173B</b>
<b>Order text: 1,0 m B17.2.048.0 + 117.2.12PZ + 2 x 173B</b>		















 **Order key  
B17.025.038.0**



**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	<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

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

\*Delivery time means time until shipping of goods



Mounting bracket  
with strain  
relief option

Small e-chain® with  
large inner height

One-piece  
link-design

Crossbar, snap-open along  
inner radius with film-hinge

Closed  
outside

Dirt-repellent  
exterior

Small pitch for  
smooth running

### ⊕ Large inner height, small outer width

#### When to use the Series F17 E2 mini:

- If an e-chain® with an inner height of 32 mm and small bending radii are required
- Bei einer Innenbreite von 15 mm
- For unsupported lengths up to 1,20 m and fill weights up to 1,5 kg/m
- If a small e-chain® with a large inner height and small bending radii are required
- If snap-open mechanism with film-hinge is required
- If an interior separation is required



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

- If quick opening of the links is required
- ▶ **Series 17 zipper, page 4.54**
- If extremely quick, zipper-like access to cables is required
- ▶ **Series R17 zipper, page 4.60**
- If cable installation without opening lids must be possible
- ▶ **Series 11.080 E2 mini, page 5.94**
- For gliding applications
- ▶ **Series 2600/2700/2650/2680 E2/000, page 5.182**

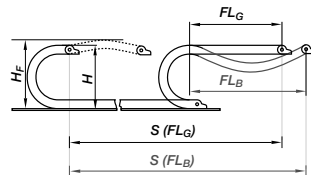
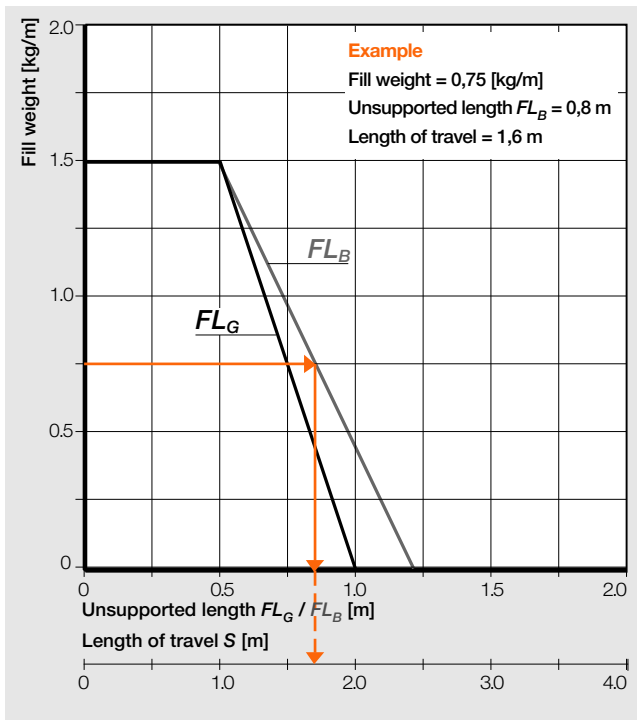


**Available from stock. Delivery in 24h or today!\***

\*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ [www.igus.de/en/F17](http://www.igus.de/en/F17)



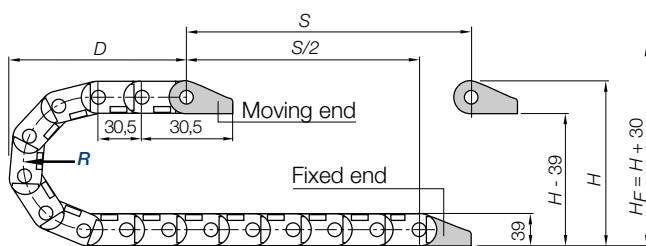
**Standard** **Unsupported applications**

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 5.78**

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



R	048	063*	075*	100*	125*
H	135	165	189	239	289
D	113	128	140	165	190
K	215	260	300	380	455

The required clearance height:  $H_F = H + 30$  mm (with 0,5 kg/m fill weight)

\* Radii 063, 075, 100, 125 upon request. Delivery time approx. 4-6 weeks after order.

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





## Series F17 | One-piece, snap-open along inner radius with film-hinge

Snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
<b>F17.015.R.0</b>	<b>15</b>	<b>26</b>	<b>048</b>   <b>063*</b>   <b>075*</b>   <b>100*</b>   <b>125*</b>	≈ 0,52

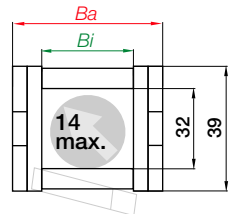
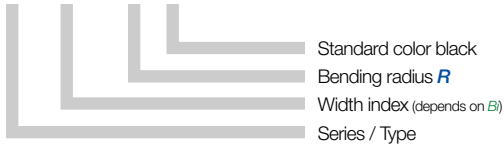
\* Radii 063, 075, 100, 125 upon request. Delivery time approx. 4-6 weeks after order.

Supplement Part No. with required radius (*R*). Example: **F17.015.048.0**



### Order key

**F17. 015. 048. 0**



**F17i.015.048.0** = e-chain® snap-open along inner radius, *Bi* 15 mm inner width, *R* 048 mm radius, color black  
More order examples and configuration options ► page 5.131

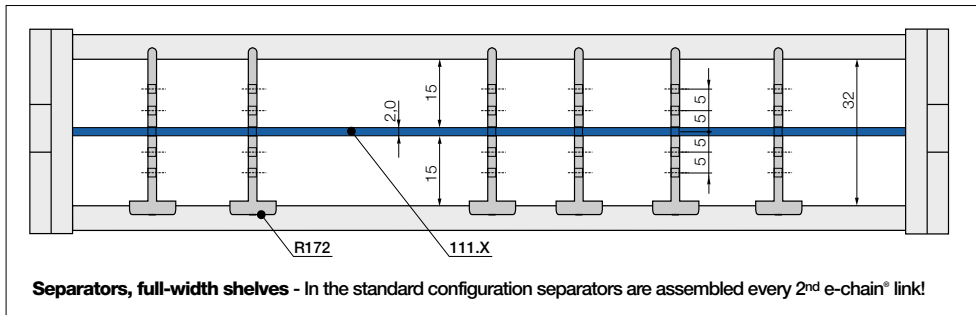


**Part No. of e-chain® links as single parts** ► page 5.79



**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>R171</b>
assembled	<b>R172</b>

**Full-width shelf for e-chains®**

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

**Slotted separator R171**

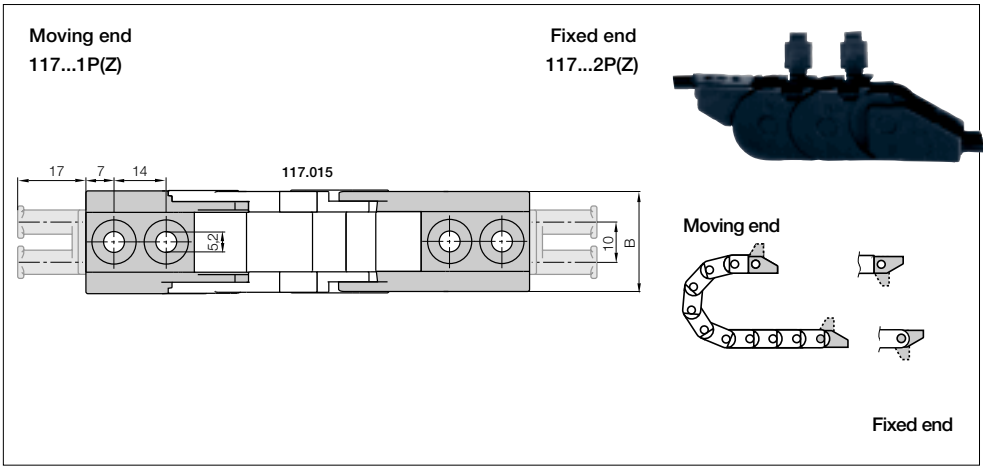
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

**Full-width shelf 110.X**

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

**Full-width shelves**

Width X [mm]	unassembled	assembled
015	<b>110.15</b>	<b>111.15</b>

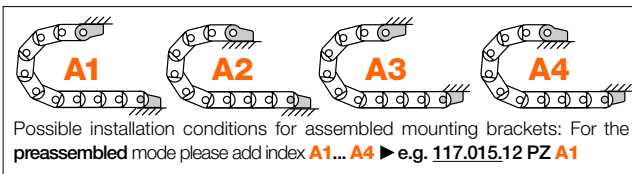


**Polymer locking, one-piece** | Universal for e-chains®  
Recommended for unsupported applications

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
015 ▶	117.015.12PZ	117.015.12P	–	27,7	2

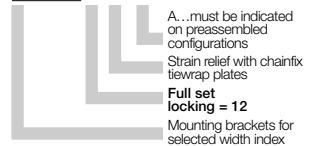


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Various installation options on the fixed end and/or the moving end
- Inner and outer attachment possible



#### Order example

**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

# E2 mini | Series F17 | Options and order key

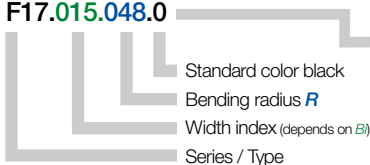
<p> <b>Standard</b></p> <p>Part No. <b>Standard e-chains®</b></p> 	<p><i>NC-Version - (no camber) without pretension</i></p> <p>Part No. <b>NC-Material e-chains®</b></p> <p>NC</p> 	<p><i>Unsupported lengths +25% possible</i></p> <p>Part No. <b>XXL-Material* e-chains®</b></p> 	<p><i>ATEX / ESD classified e-chains®</i></p> <p> II 2 GD</p> <p>Part No. <b>ESD-Material e-chains®</b></p> 
<p> <b>F17.015.R.0</b></p>	<p><b>F17.015.R.0.NC</b></p>	<p><b>F17.015.R.0.XXL</b></p>	<p><b>F17.015.R.0.ESD</b></p>
<p> <b>Delivery time 24h or today!*</b></p>	<p><b>Delivery time 3-5 work days</b></p>	<p><b>Delivery time 1-2 weeks</b></p>	<p><b>Delivery time 5 work days</b></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:**

<b>e-chain®</b> (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 33 links	<b>F17.015.048.0</b>
<b>+ Mounting brackets</b>	1 set (+ tiewrap plates)	<b>117.015.12PZ</b>
<b>+ Interior separation</b>	with 2 separators assembled every 2 <sup>nd</sup> link	<b>2 x R172</b>
<b>Order text: 1,0 m F17.015.048.0 + 117.015.12PZ + 2 x R172</b>		

 **Order key**  
**F17.015.048.0**



### 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*	.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