





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

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





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

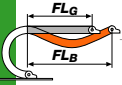


Assembly video available online at ► www.igus.de/en/video

Technical Data - System E2 mini



Gliding speed / acceleration (maximum)

max. 3 [m/s] / max. 10 [m/s²]Speed / acceleration FL_G max.max. 20 [m/s] / max. 200 [m/s²]Speed / acceleration FL_B max.max. 3 [m/s] / max. 6 [m/s²]

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

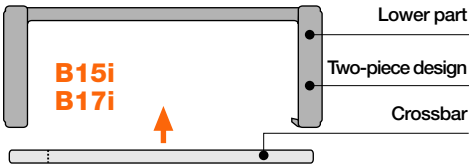
Installation methods overview, maximum travels - System E2 mini

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



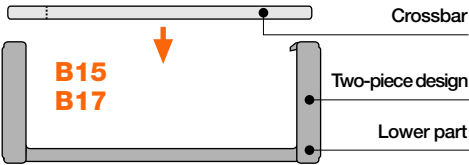
Part No. one- and two-piece e-chain® links as single parts - System E2 mini

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> <u>00</u> . <i>R</i>
B17i	170. <i>Bi</i>	B17i. <i>Bi</i> <u>00</u> . <i>R</i>

Two-piece design, snap-open along inner radius

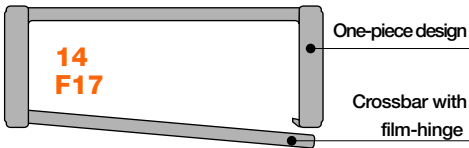


e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**
B15	170. <i>Bi</i>	B15. <i>Bi</i> <u>00</u> . <i>R</i>
B17	170. <i>Bi</i>	B17. <i>Bi</i> <u>00</u> . <i>R</i>

* 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

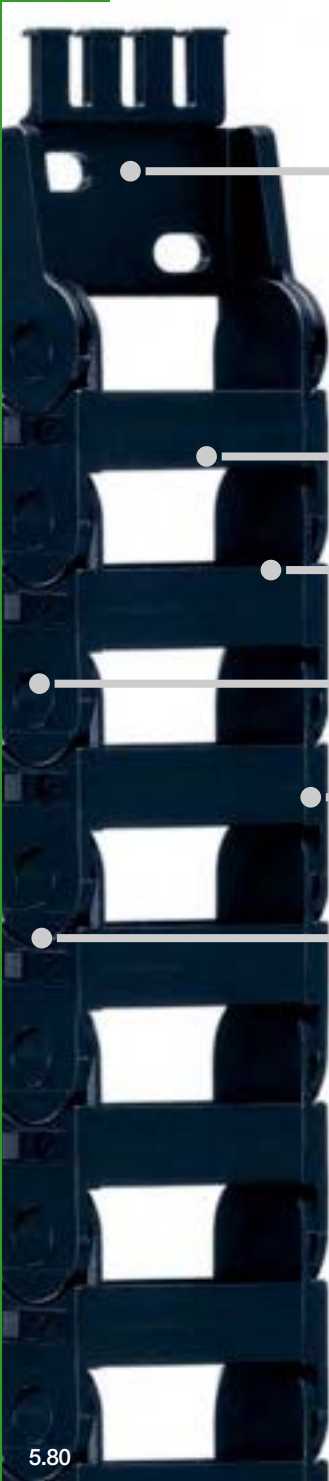


Serie e-chains®	One-piece e-chain link
10	One-piece design, non snap-open
11.031	One-piece design, non snap-open
11.080	One-piece design, non snap-open
11.1/11.2	One-piece design, non snap-open



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**

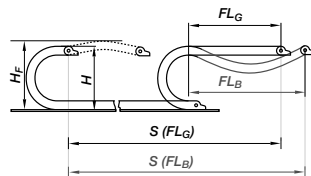
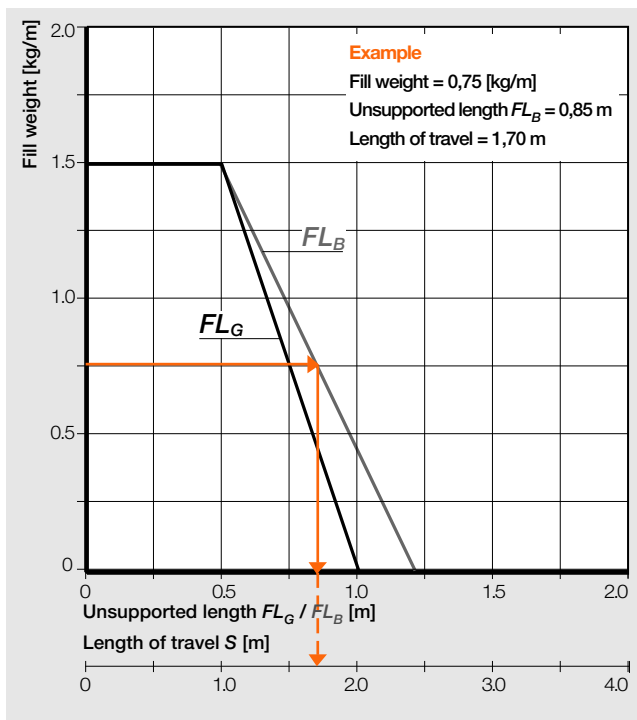


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

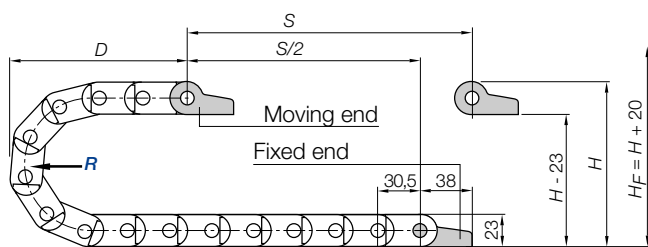


3D-CAD files, configurators, PDF ► www.igus.de/en/10



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)



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®

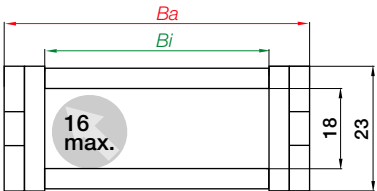
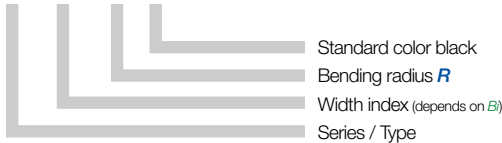
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
10. 015 . <i>R</i> .0	15	26	028 038 048 075 100 110 125 145 180	≈ 0,35
10. 025 . <i>R</i> .0	25	36	028 038 048 075 100 110 125 145 180	≈ 0,40
10. 038 . <i>R</i> .0	38	49	028 038 048 075 100 110 125 145 180	≈ 0,46
10. 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



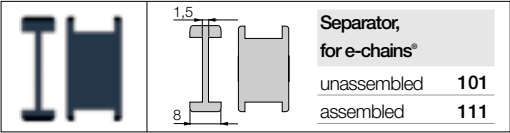
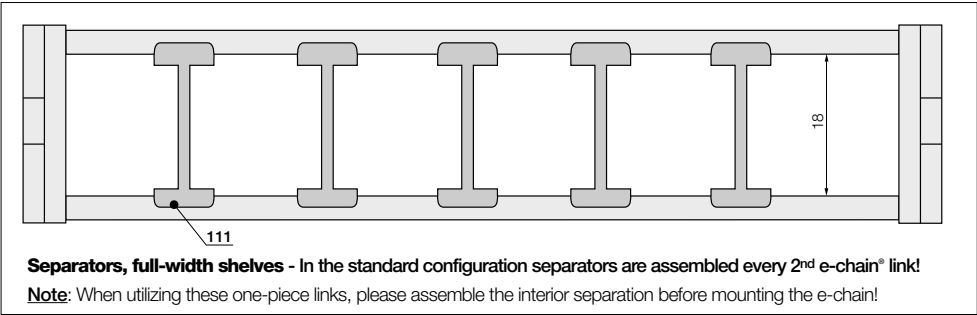
10.025.038.0 = non snap-open e-chain®, *Bi* 25 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.87



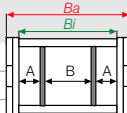
Standard e-chains® available from stock. Delivery in 24h or today!*

*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.

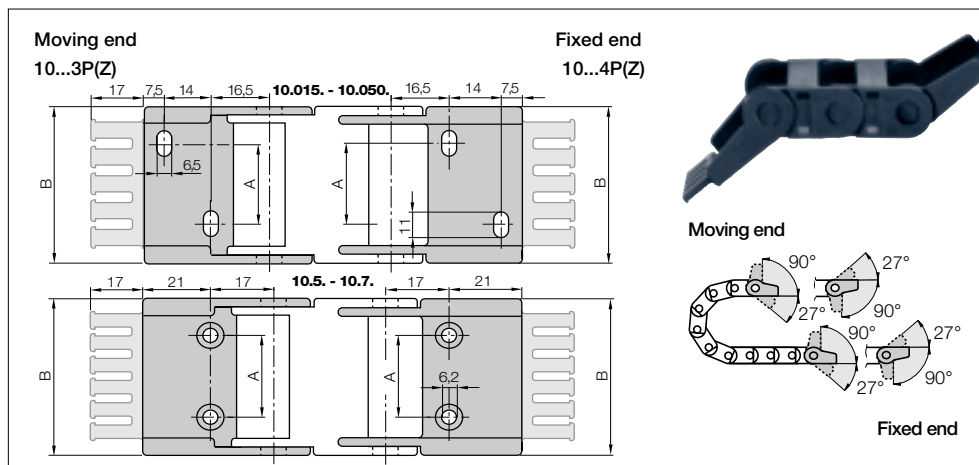
Series 10 | Optional | With molded-in vertical separation

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 . <i>R</i> .0.S	38	49	075	10	15	≈ 0,79	
10. 050 . <i>R</i> .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

E2 mini | Series 10 | Mounting brackets pivoting

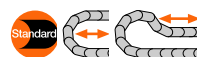
For tight installation conditions



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 (pivoting)

1025, 34 PZ A1



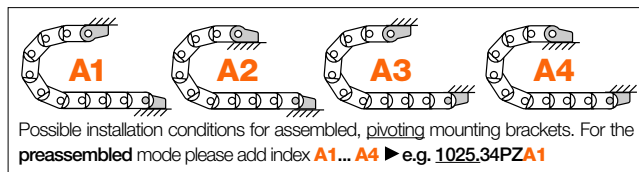
Single-part order

Mounting bracket **Moving end**

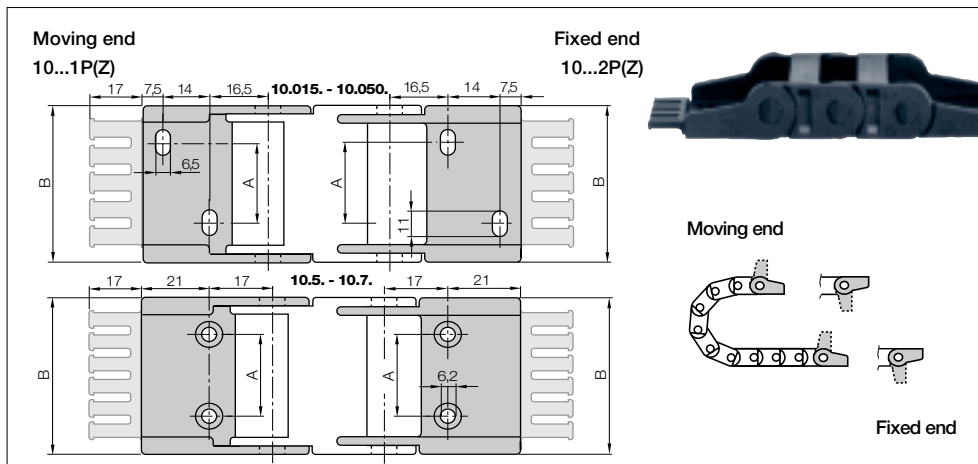
1025, 3 PZ A1 (preass. + tiewrap plate)

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



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



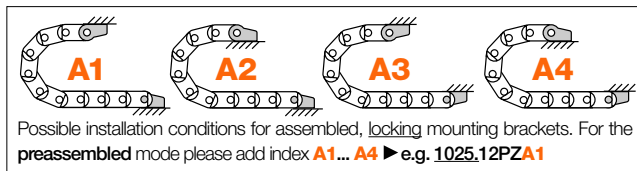
Single-part order

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

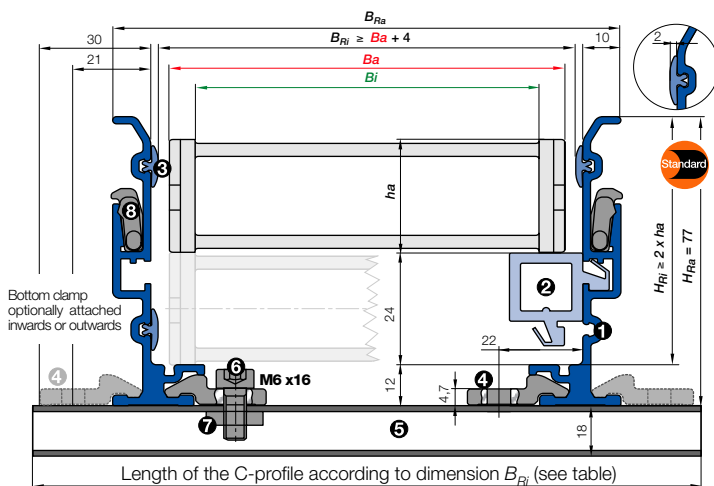
Aluminum "SuperTrough" Basic Version

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	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 10.5.038.0 with $B_{Pi} = 80$

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)

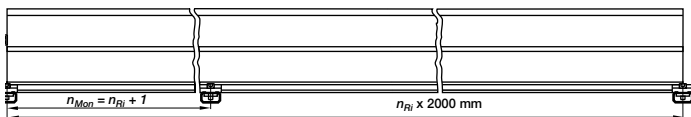
Order text: 17 installation sets

Module for the fixed end ► page 9.16

Order text: 1 set

Option: For an additional noise dampening

with silencer profile, please add Index **A** - Example:



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 |

	Standard	NC-Version - (no camber) without pretension	Reverse bending radius for circular movements	Unsupported lengths +25% possible	ATEX / ESD classified e-chains® 
	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® 
	10.025.R.0	10.025.R.0.NC	10.025.R1/R2.0	10.025.R.0.XXL	10.025.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 and interior separation:

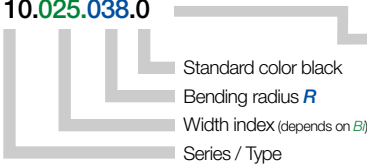
e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 33 links 10.025.038.0

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

+ Interior separation with 2 separators assembled every 2nd 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	.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

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**

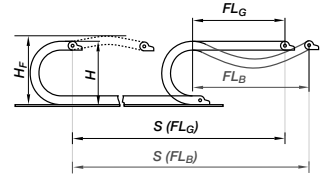
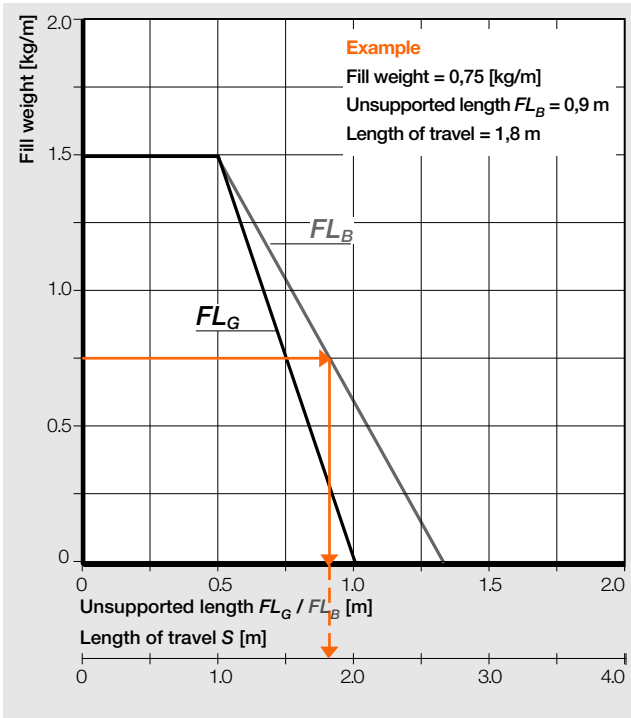


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3D-CAD files, configurators, PDF ▶ www.igus.de/en/11.031



Unsupported applications

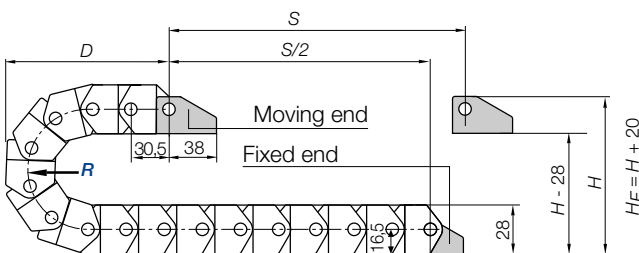
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► **Design, page 1.8**



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	045	070
H	123	173
D	107	132
K	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®

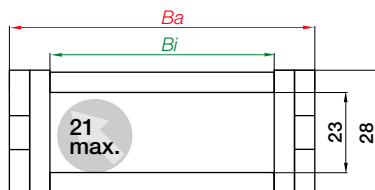
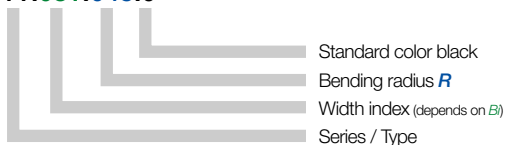
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
11.031. <i>R</i> .0	31	41,2	045 070	≈ 0,43

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



Order key

11.031.045.0



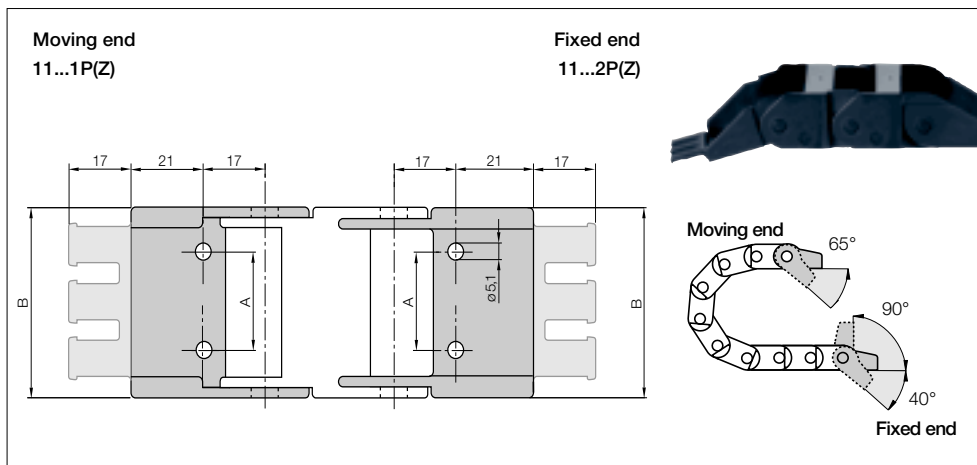
11.031.045.0 = non snap-open e-chain®, *Bi* 31 mm inner width, *R* 045 mm radius, color black

More order examples and configuration options ► page 5.92



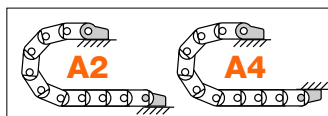
Standard e-chains® available from stock. Delivery in 24h or today!*

*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. ▶	11.031.12PZ	11.031.12P	16	42	3



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



- 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

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

E2 mini | Series 11.031 | Options and order key



Standard

NC-Version -
(no camber)
without pretension

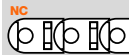
Unsupported
lengths +25%
possible

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!)

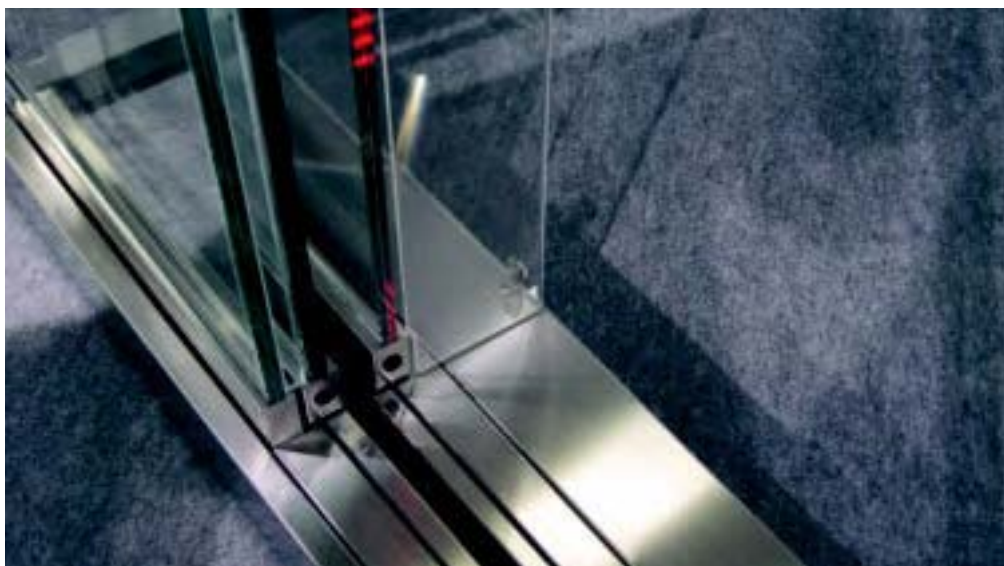
Color options for e-chains® and e-tubes

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

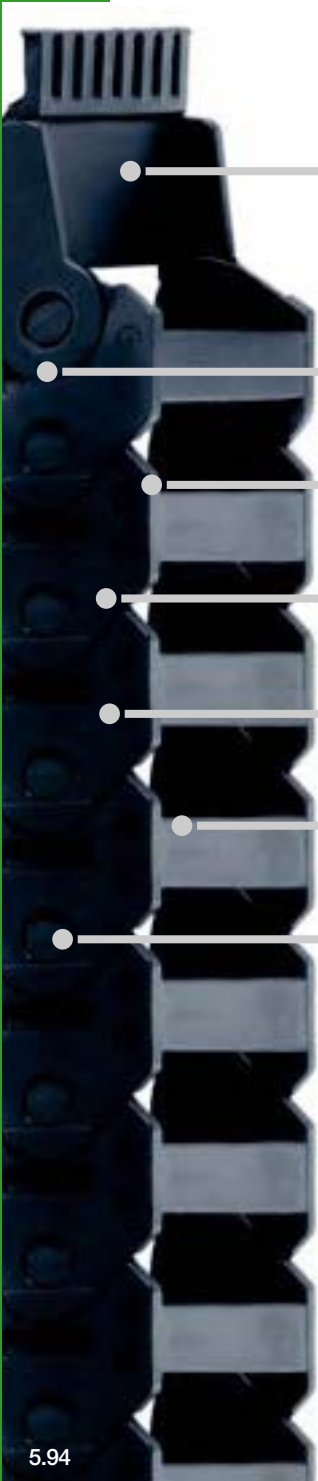


Available from stock. Delivery in 24h or today!*

*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**

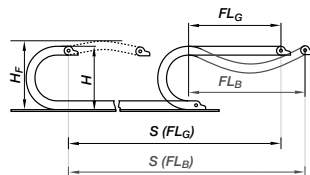
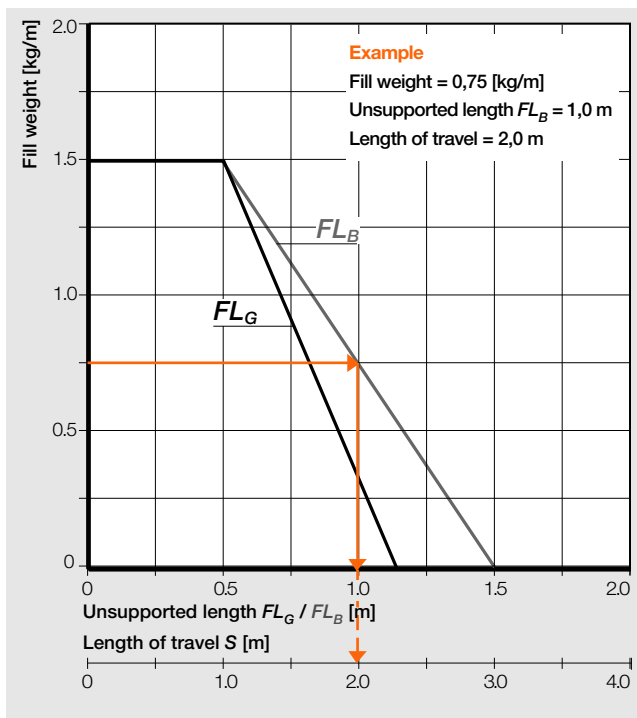


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/11.080



Unsupported applications

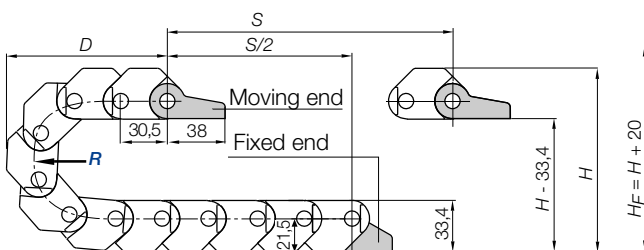
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► [Design, page 1.8](#)



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 038

H 119

D 105

K 185

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

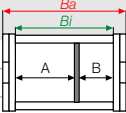
S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

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



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

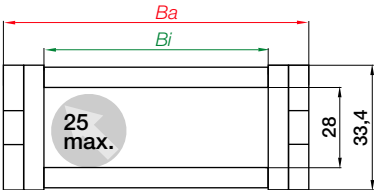
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]		Side compartment Dim. A [mm]	Middle compartment Dim. B [mm]	Weight [kg/m]
11.080 . <i>R</i> .0	80	93	038		46	32	≈ 0,73

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



Order key
11.080.038.0

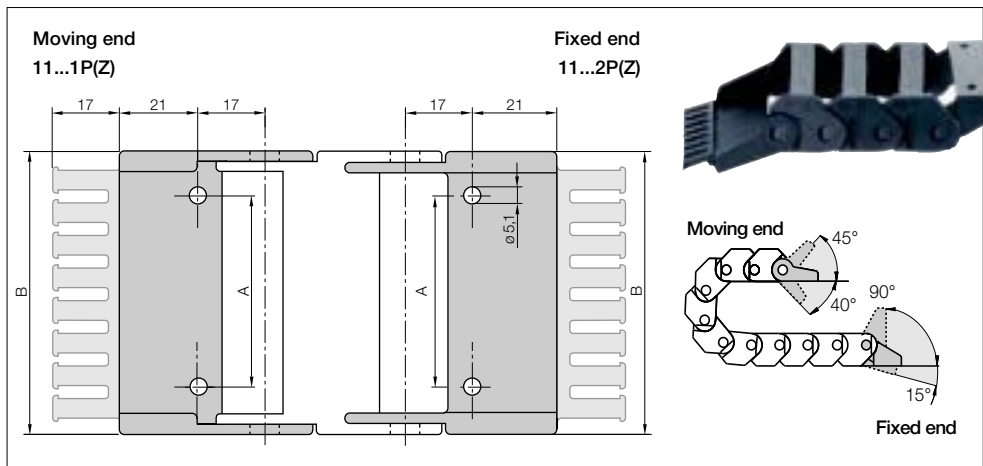
- Standard color black
- Bending radius *R*
- Width index (depends on *Bi*)
- Series / Type



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



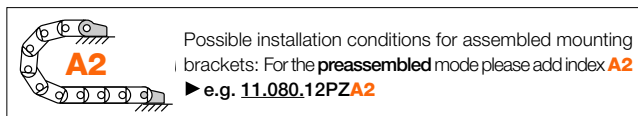
Polymer pivoting, one-piece | Universal for e-chains®

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. 	11.080.12PZ	11.080.12P	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

E2 mini | Series 11.080 | Options and order key



Standard

NC-Version -
(no camber)
without pretension

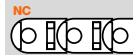
Unsupported
lengths +25%
possible

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**

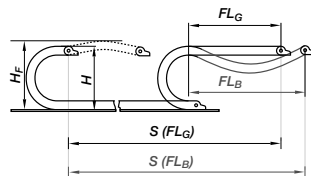
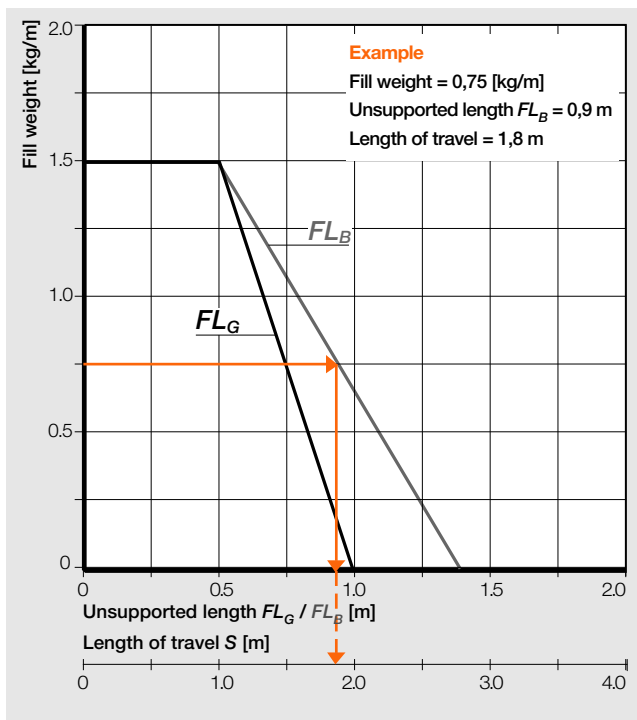


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/11.1



Unsupported applications

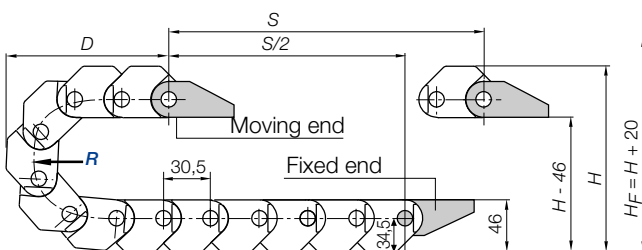
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► [Design, page 1.8](#)



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)



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



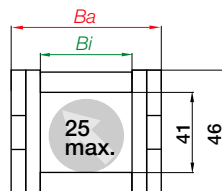
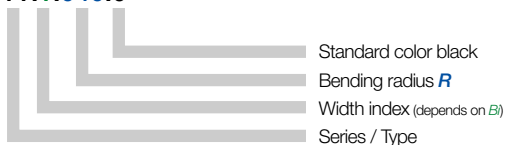
Series 11.1·11.2 | One-piece, non snap-open e-chain®

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**



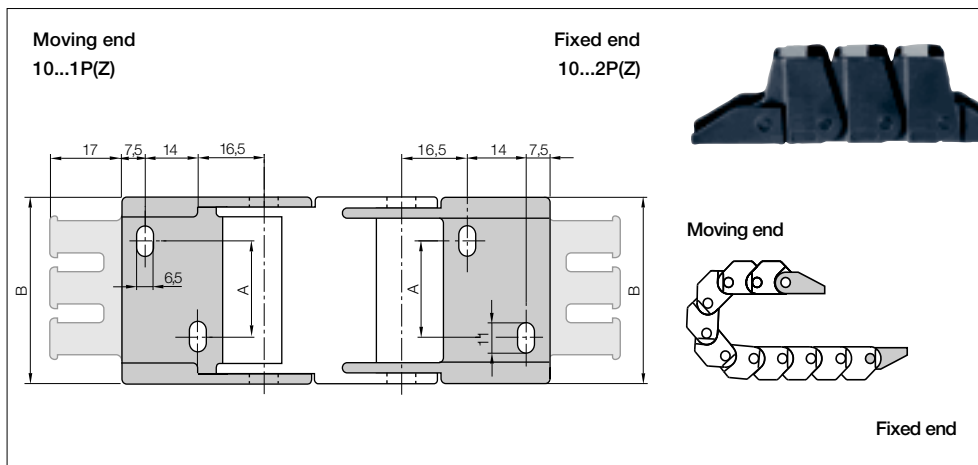
11.1.040.0 = non snap-open e-chain®, *Bi* 15 mm inner width, *R* 040 mm radius, color black

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

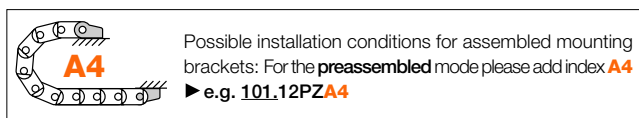


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

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



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

	<i>Standard</i>	<i>NC-Version - (no camber) without pretension</i>	<i>Unsupported lengths +25% possible</i>	<i>ATEX / ESD classified e-chains®</i>
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 **11.1.040.0**

+ 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!

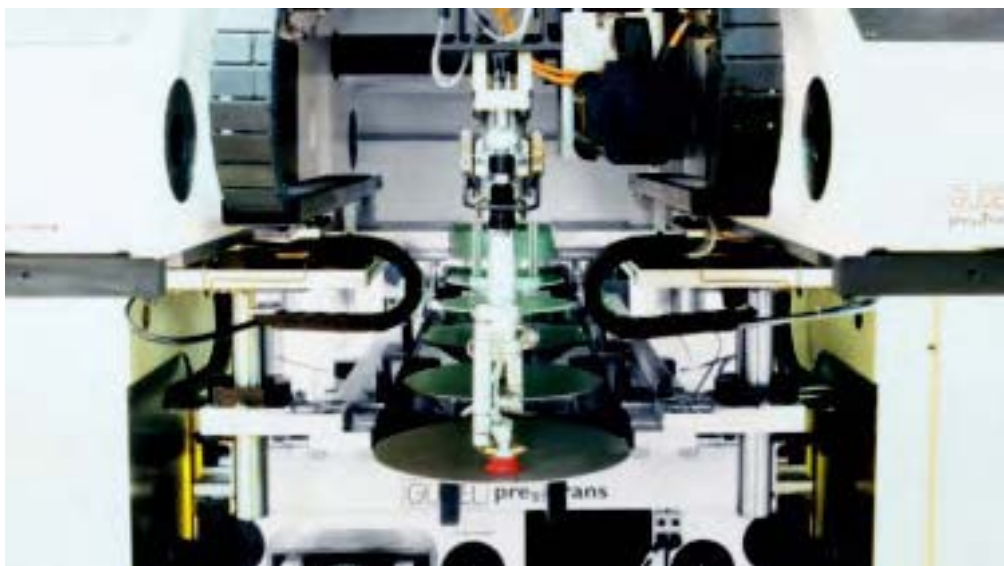
*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

Color options for e-chains® and e-tubes

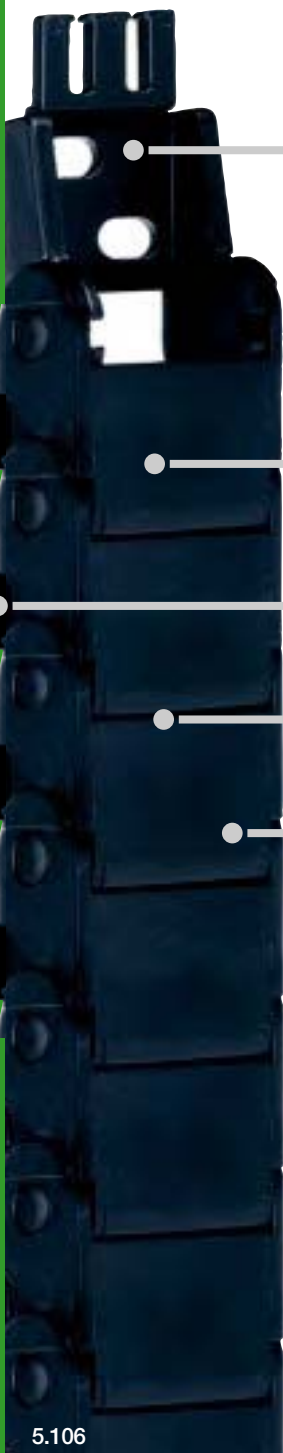
Color	Order index	Color	Order index
black	.0 from stock!	green*	.7
white*	.1	grey*	.3 for e-chains®
violet*	.5	dusty grey*	.3 for e-tubes
yellow*	.4	agate grey*	.11
orange*	.2	light grey*	.14
red*	.6	black grey*	.13
blue*	.8	yellow/black*	.9

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**

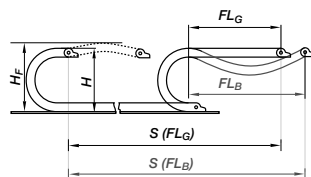
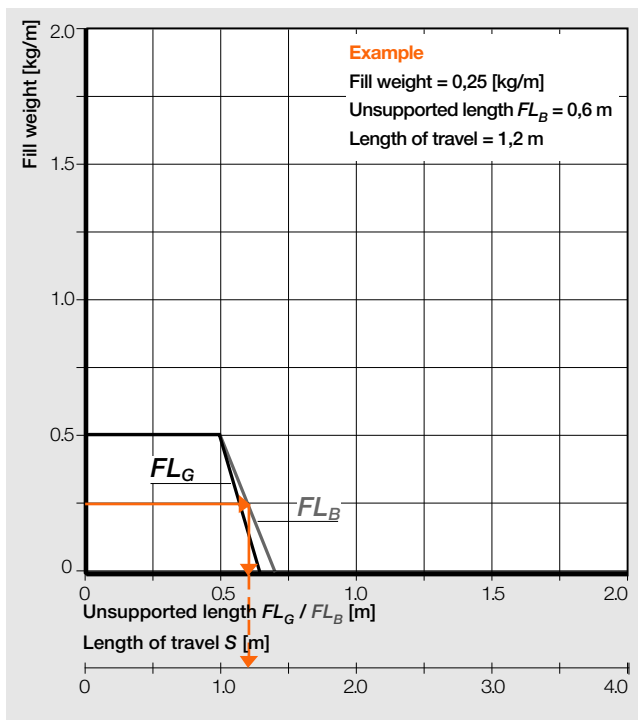


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ► www.igus.de/en/14



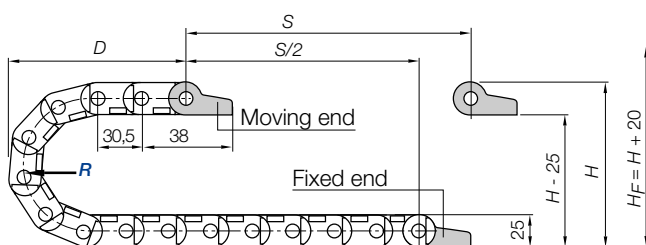
Standard Unsupported applications

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)



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

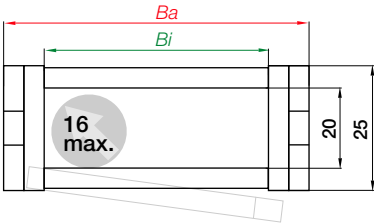
Snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
14.1. <i>R</i> .0	15	26	028 038 048 075 100 125	≈ 0,31
14.2. <i>R</i> .0	25	36	028 038 048 075 100 125	≈ 0,32
14.3. <i>R</i> .0	38	49	028 038 048 075 100 125	≈ 0,40
14.4. <i>R</i> .0	50	61	028 038 048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

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



Order key
14.2.038.0

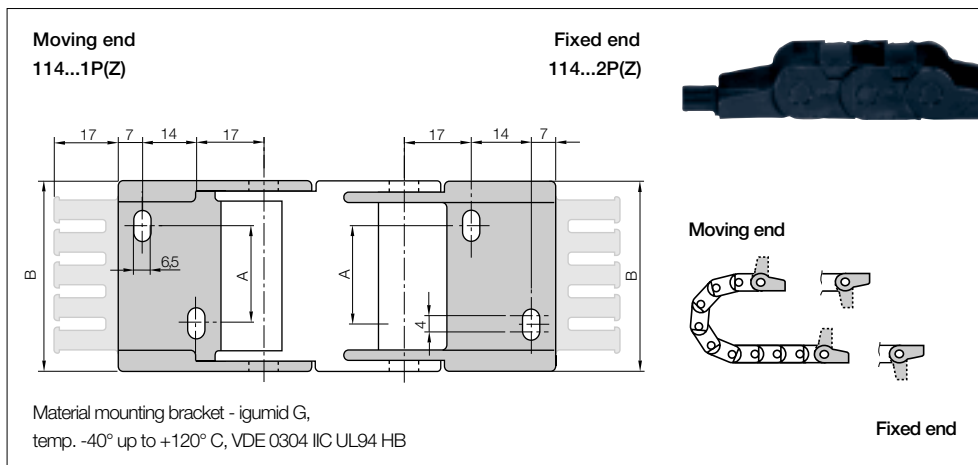
- Standard color black
- Bending radius *R*
- Width index (depends on *Bi*)
- Series / Type



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



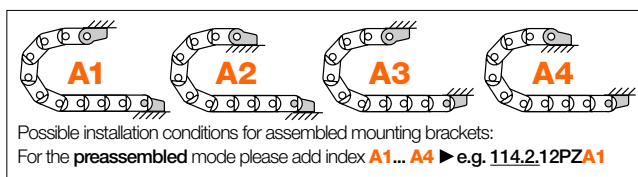
Polymer locking, one-piece | Universal for e-chains®

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



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



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!)

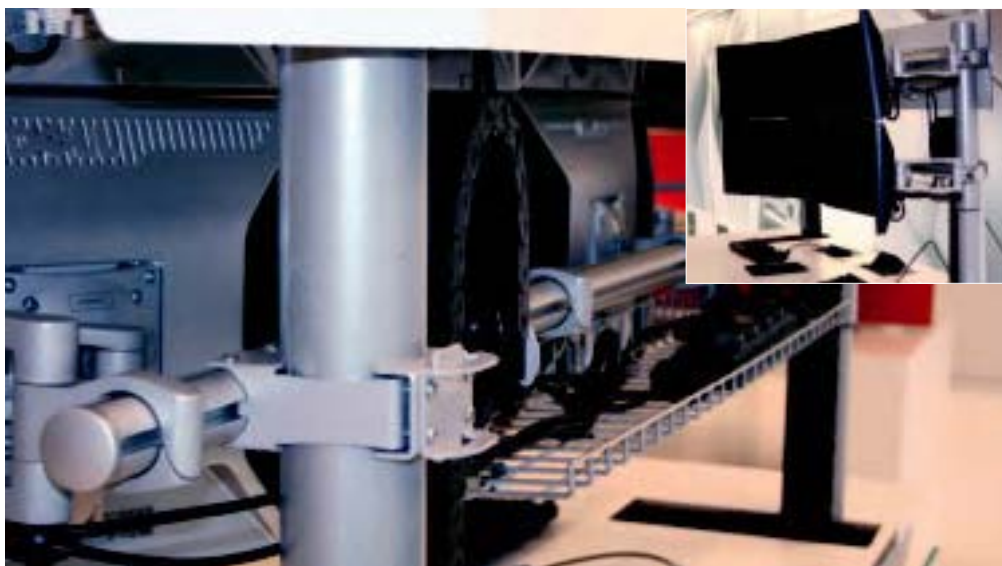
Color options for e-chains® and e-tubes

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



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

*Delivery time means time until shipping of goods



Cost-effective cable guidance with E2 mini

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

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

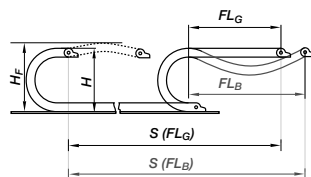
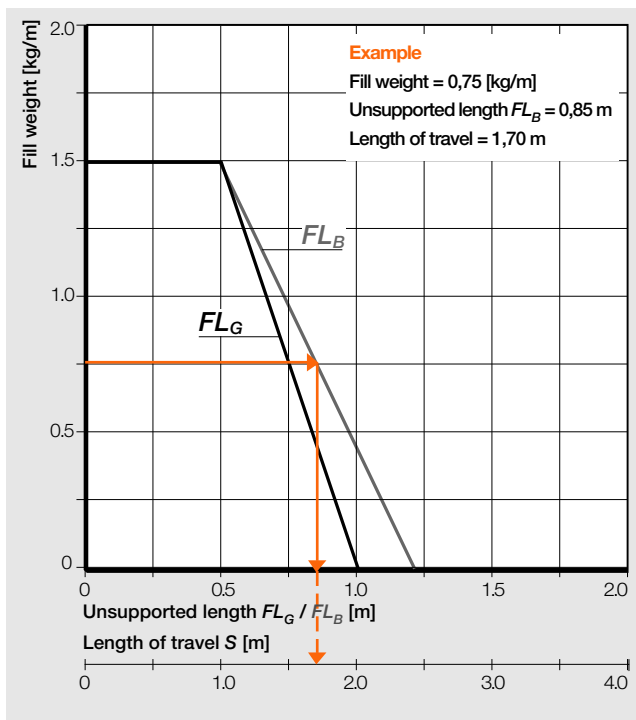


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ► www.igus.de/en/B15



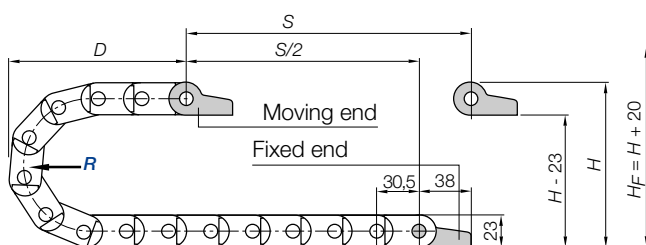
Standard Unsupported applications

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)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

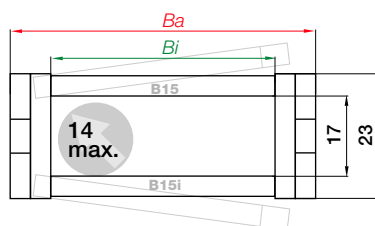
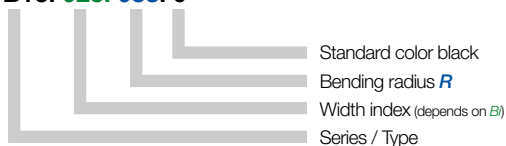
H = Nominal clearance height
 H_F = Required clearance height

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]
B15i.015. <i>R</i> .0	B15.015. <i>R</i> .0	15	26	038 048 075 100 110 125 145 180		≈ 0,35	≈ 0,35
B15i.025. <i>R</i> .0	B15.025. <i>R</i> .0	25	36	038 048 075 100 110 125 145 180		≈ 0,40	≈ 0,40
B15i.038. <i>R</i> .0	B15.038. <i>R</i> .0	38	49	038 048 075 100 110 125 145 180		≈ 0,46	≈ 0,46
B15i.050. <i>R</i> .0	B15.050. <i>R</i> .0	50	61	038 048 075 100 110 125 145 180		≈ 0,52	≈ 0,52
B15i.5. <i>R</i> .0	B15.5. <i>R</i> .0	63	76	038 048 075 100 110 125 145 180		≈ 0,63	≈ 0,63
B15i.6. <i>R</i> .0	B15.6. <i>R</i> .0	80	94	038 048 075 100 110 125 145 180		≈ 0,70	≈ 0,70
B15i.7. <i>R</i> .0	B15.7. <i>R</i> .0	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

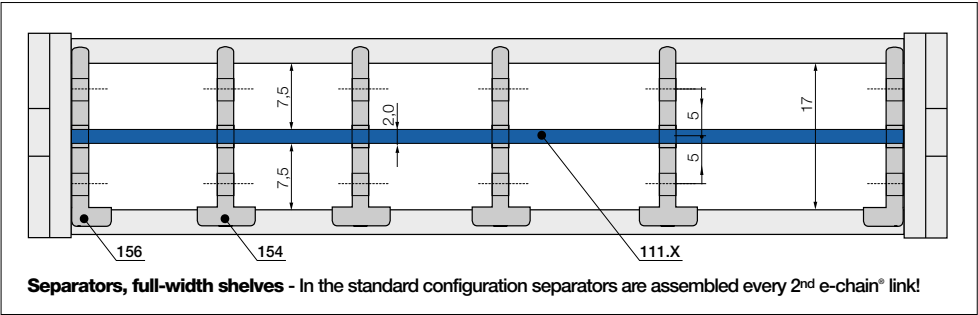


Part No. of e-chain® links as single parts ► page 5.79



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

*Delivery time means time until shipping of goods



		Slotted separator for e-chains® unassembled 153 assembled 154
		Side plate for e-chains® unassembled 155 assembled 156
		Full-width shelf for e-chains® unassembled 110.X assembled 111.X

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

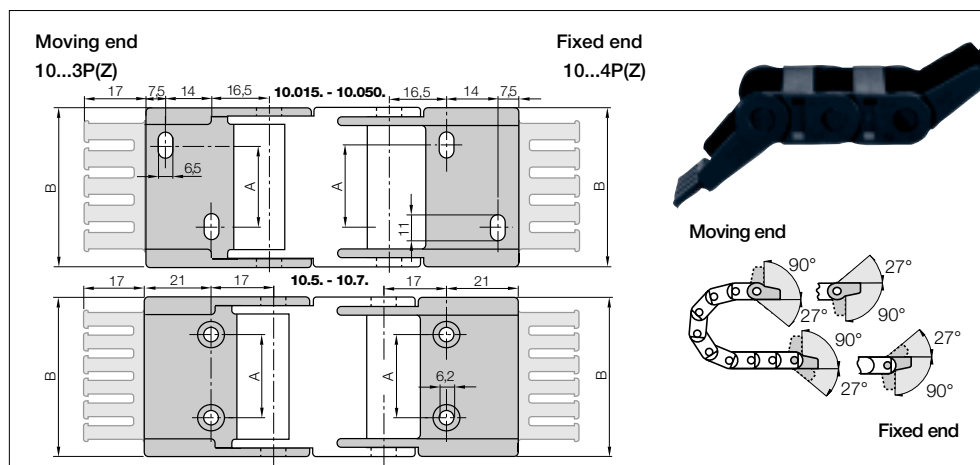
this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	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			

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

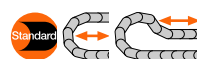
For tight installation conditions



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



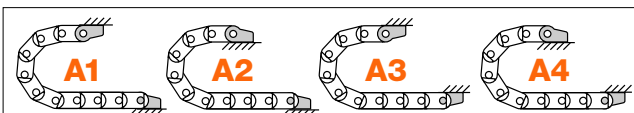
Single-part order

Mounting bracket **Moving end**

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

Mounting bracket **Fixed end**

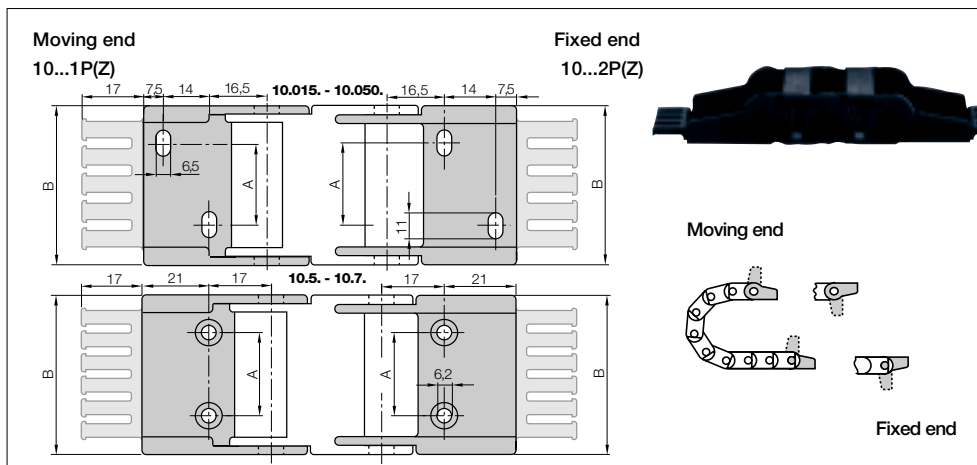
1025, 4 PZ A1 (preass. + tiewrap plate)



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



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



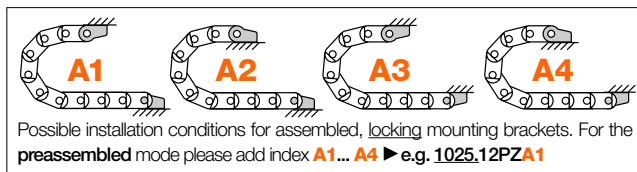
Single-part order

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

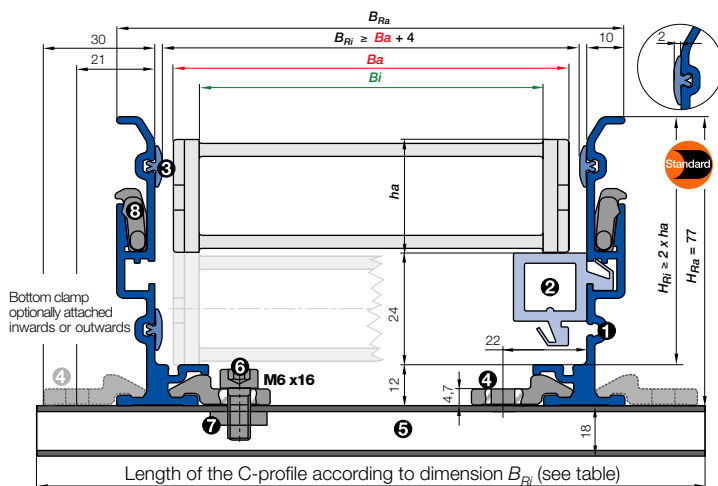
Aluminum "SuperTrough" | Basic Version

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	30	—
.025	40	—
.038	53	—
.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 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)

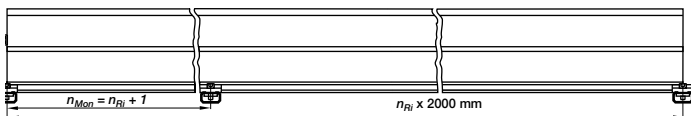
Order text: 17 installation sets **Part No. 960.30.125**

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
● Ba = Outer width e-chains"
● 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_{ho} = Number of installation sets
 n_{Ri} = Number of trough sets

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



Standard

NC-Version -
(no camber)
without pretension

Reverse bending
radius for circular
movements

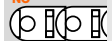
Unsupported
lengths +25%
possible

ATEX / ESD
classified e-chains®

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®



B15.025.R.0

B15.025.R.0.NC

B15.025.R1/R2.0

B15.025.R.0.XXL

B15.025.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 and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 33 links **B15.025.038.0**

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

+ Interior separation with 2 separators assembled every 2nd link **2 x 154**

Order text: 1,0 m B15.025.038.0 + 1025.34PZ + 2 x 154



Order key
B15.025.038.0

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



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

*Delivery time means time until shipping of goods

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**

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

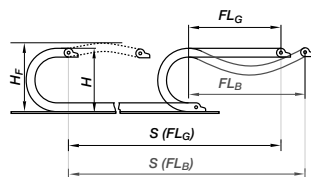
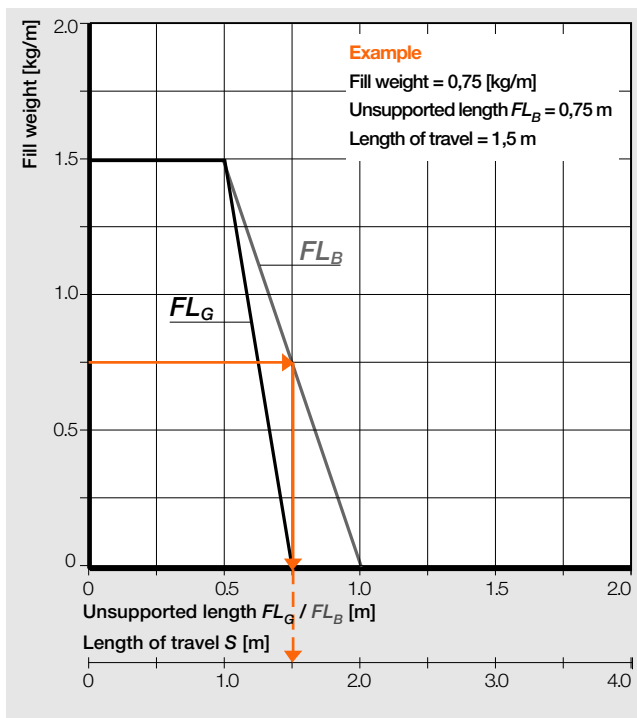


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ► www.igus.de/en/B17



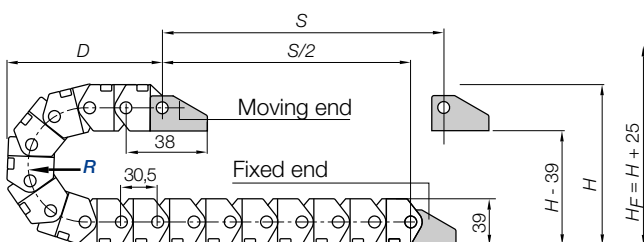
Unsupported applications

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 = $\frac{S}{2} + K$



R	048 ¹⁾	063 ²⁾	075	100 ²⁾	125 ²⁾
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)

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



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 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 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 0,52	≈ 0,52
B17i.2.R.0**	B17.2.R.0	25	35,5	048 063 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 0,59	≈ 0,59
B17i.3.R.0	B17.3.R.0	38	48,5	048 063 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 0,65	≈ 0,65
B17i.4.R.0**	B17.4.R.0	50	60,5	048 063 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 0,70	≈ 0,70
B17i.5.R.0**	B17.5.R.0	63	76	048 ¹⁾ 063 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 0,83	≈ 0,83
B17i.6.R.0**	B17.6.R.0	80	93	048 063 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 0,92	≈ 0,92
B17i.7.R.0**	B17.7.R.0	100	113	048 ¹⁾ 063 ²⁾ 075 100 ²⁾ 125 ²⁾	≈ 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.

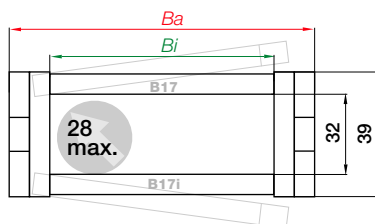
¹⁾ For Series B17.5, B17.7 - Radius 048 upon request.

²⁾ 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

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



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

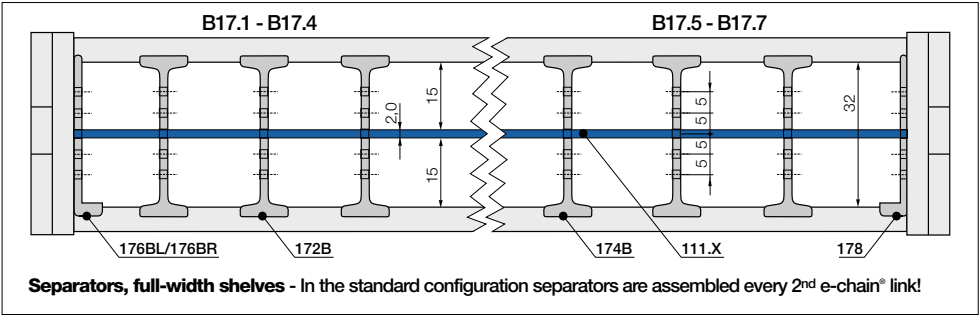
B17.2.048.0 = e-chain® snap-open along outer radius, *Bi* 25 mm inner width, *R* 048 mm radius, color black

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.



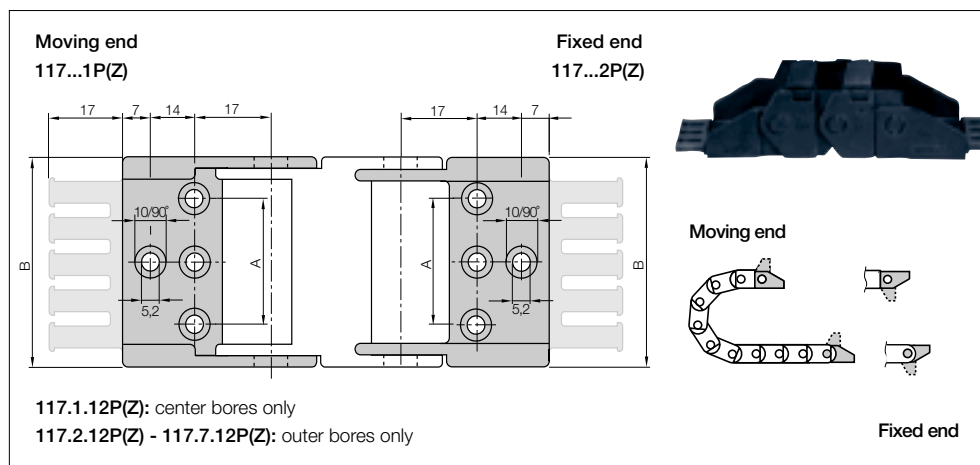
Full-width shelf
for all widths

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



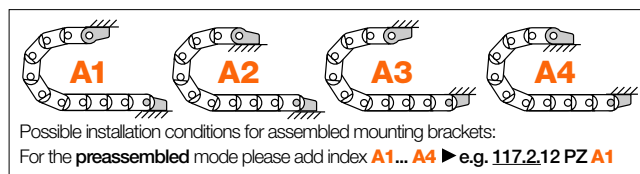
Single-part order

Mounting bracket **Moving end**

117.2.1 PZ A1 (preass. + tiewrap plate)

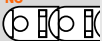
Mounting bracket **Fixed end**

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

 Standard	<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> 
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® 
 B17.2.R.0	B17.2.R.0.NC	B17.2.R1/R2.0	B17.2.R.0.XXL	B17.2.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 and interior separation:**

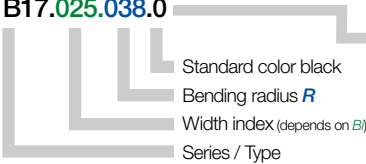
e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 33 links **B17.2.048.0**

+ Mounting brackets 1 set (+ tiewrap plates) **117.2.12PZ**

+ Interior separation with 2 separators assembled every 2nd link **2 x 173B**

Order text: 1,0 m B17.2.048.0 + 117.2.12PZ + 2 x 173B

 **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	.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

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**

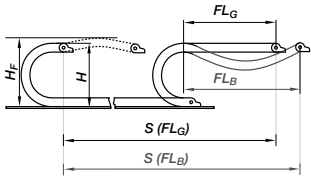
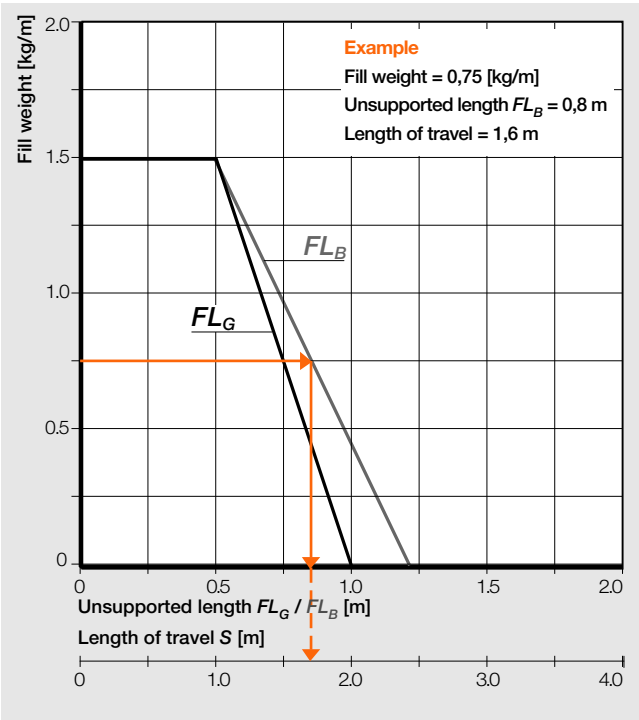


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ► www.igus.de/en/F17



Unsupported applications

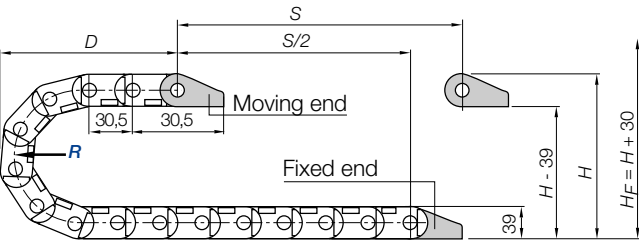
Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► **Design, page 1.8**



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.



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 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]
F17.015. <i>R.0</i>	15	26	048 063* 075* 100* 125*	≈ 0,52

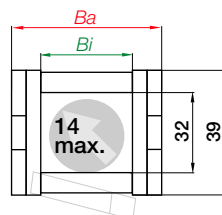
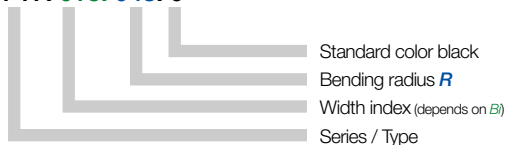
* Radii 063, 075, 100, 125 upon request. Delivery time approx. 4-6 weeks after order.

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

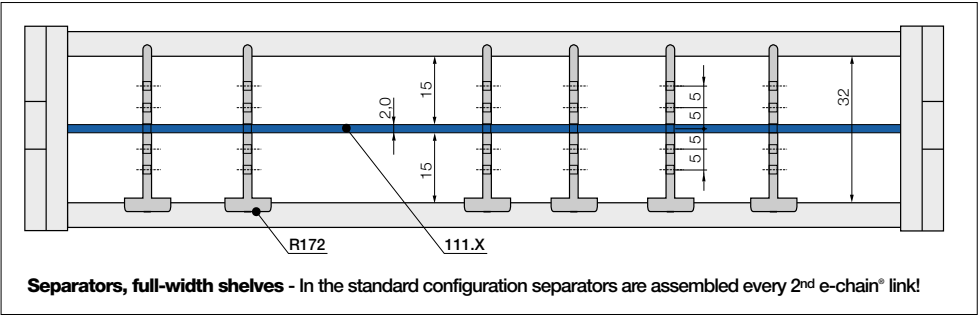


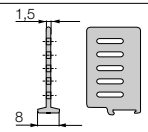
Part No. of e-chain® links as single parts ► page 5.79



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

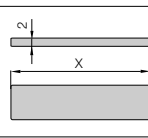
*Delivery time means time until shipping of goods





**Slotted separator
for e-chains®**

unassembled	R171
assembled	R172



**Full-width shelf
for e-chains®**

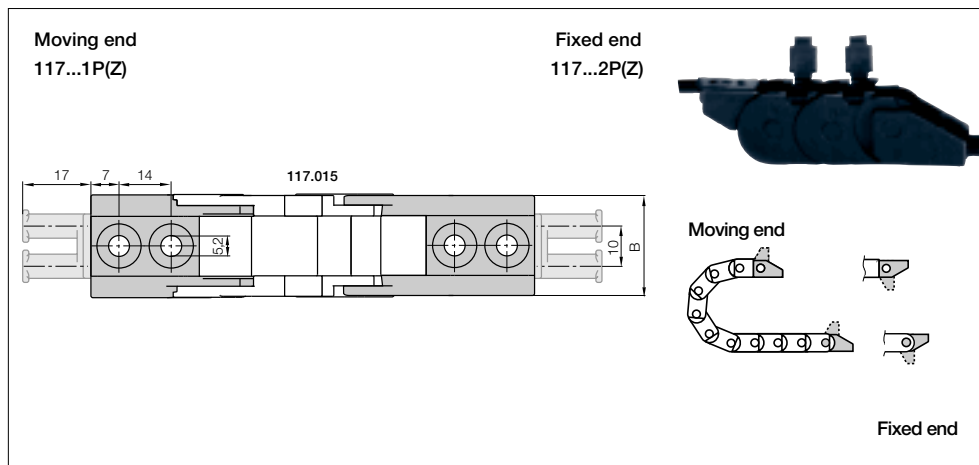
unassembled	110.X
assembled	111.X

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

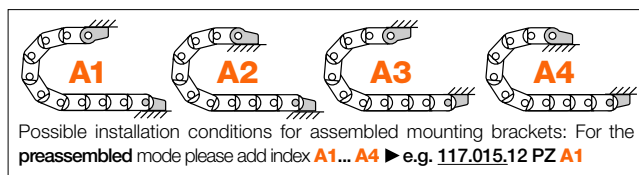
Full-width shelves

Width X [mm]	unassembled	assembled
015	110.15	111.15



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

Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap 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 tie-wrap 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



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

Single-part order

Mounting bracket **Moving end**

117.015.1 PZ A1 (preass. + tie-wrap plate)

Mounting bracket **Fixed end**

117.015.2 PZ A1 (preass. + tie-wrap plate)



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

	<i>Standard</i>	<i>NC-Version - (no camber) without pretension</i>	<i>Unsupported lengths +25% possible</i>	<i>ATEX / ESD classified e-chains®</i>  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® 
	F17.015.R.0	F17.015.R.0.NC	F17.015.R.0.XXL	F17.015.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 and interior separation:**

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 33 links **F17.015.048.0**

+ Mounting brackets 1 set (+ tiewrap plates) **117.015.12PZ**

+ Interior separation with 2 separators assembled every 2nd link **2 x R172**

Order text: 1,0 m F17.015.048.0 + 117.015.12PZ + 2 x R172

 **Order key**
F17.015.048.0



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