





System

E2

micro | mini | E2/000

Allrounder - e-chains®
and e-tubes micro...
mini...medium sizes

System E2 micro and E2 mini | Smallest and small sizes



E2 micro - for smallest spaces, from page 5.4 Perfect to use for short travels and unsupported applications

- e-chains® for limited space conditions
- One- and two-piece e-chains® available
- Smallest inner heights and bending radii
- Very lightweight, easy to assemble and cost-efficient
- Mounting brackets with or without strain relief option available
- Inner widths Bi : 5 - 64 mm, inner heights hi : 5 - 15 mm
- Bending radii R : 10 - 48 mm



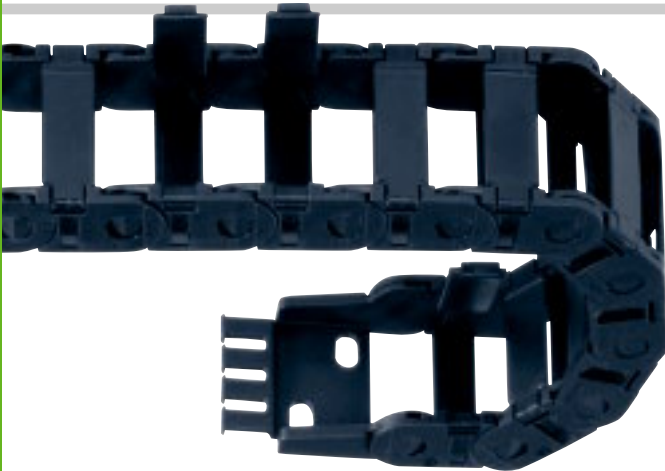
E2 micro - One-piece e-chains®
non snap-open



E2 micro - One-piece e-chains®
snap-open along inner radius



E2 micro - Two-piece e-chains®
snap-open along outer radius



E2 mini - One-piece e-chains®
non snap-open



E2 mini - One-piece e-chains®
snap-open along inner radius



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

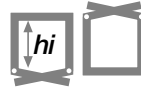
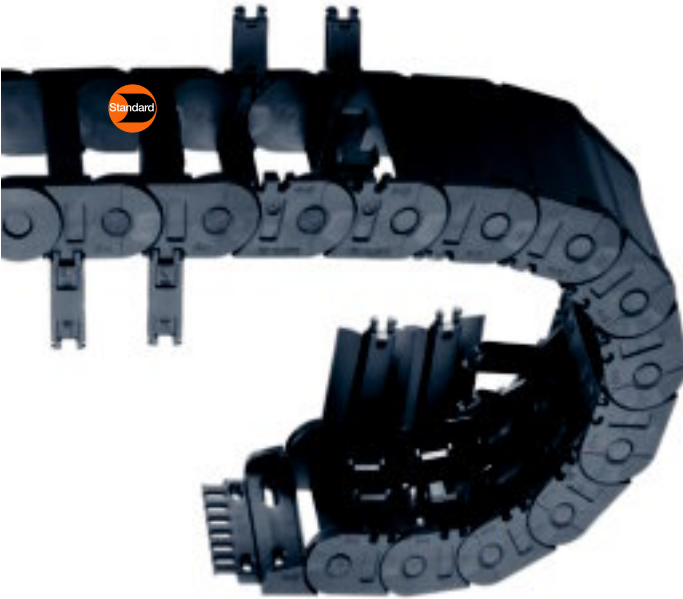


E2 mini - Two-piece e-chains®
snap-open along outer radius

E2 mini - small and medium sizes, from page 5.72 Perfect to use for short travels and unsupported applications

- Small pitch for smooth running
- One- and two-piece e-chains® available
- Smallest inner heights and bending radii
- Very lightweight, easy to assemble and cost-efficient
- Mounting brackets with or without strain relief option available
- Inner widths Bi : 15 - 100 mm, inner heights hi : 17 - 41 mm
- Bending radii R : 28 - 180 mm

System E2/000 | Medium sizes



E2/000 - Two-piece e-chains®
snap-open along inner radius



E2/000 - Two-piece e-chains®
snap-open along outer radius



E2/000 - Two-piece, "half" e-tubes
snap-open along inner radius

System E2/000 - The E2 Standard, from page 5.132 Available as e-chain®, half and fully enclosed e-tube, combinable variations

- Open crossbar left or right quickly with screwdriver or the igus® e-chain® opener
- Lightning fast with thumb catch - secure fit without additional locking devices
- Excellent mechanical stability, long life due to design and material
- Very easy to assemble and cost-efficient due to the 2-piece design
- Suitable for long (gliding) travels and unsupported applications
- Extender crossbars for a large increase of the interior height and for the smooth guiding of hoses
- Many accessories are available
- Inner widths B_i : 15 - 250 mm, inner heights h_i : 21 - 45 mm
- Bending radii R : 35 - 300 mm



E2/000 - Two-piece, fully enclosed
e-tubes snap-open along inner radius



Smallest inner heights,
smallest bending radii



E2 micro



E2 micro e-chains® - Smallest inner heights and bending radii

E2 micro are very small, one-piece or two-piece (B07/B09) , lightweight e-chains® ideal for high dynamic applications. E2 micro e-chains® are very cost effective and available in thousands of variations. igus® also offers a host of accessories and fixation options. "Upgrades" to openable versions are available for many types. In these cases they are interchangeable and offer more services as repair kits or new installations.

Typical industries and applications

- Models (micro e-chains®)
- Automatic doors
- Vehicles
- Measuring machines
- Electric equipment
- Handlings
- Pick and place robots
- General machinery



iF-Design Award -
for E2 micro - Series 05



Cleanroom test
upon request



Special equipment: Electrically conductive
ESD/ATEX version upon request



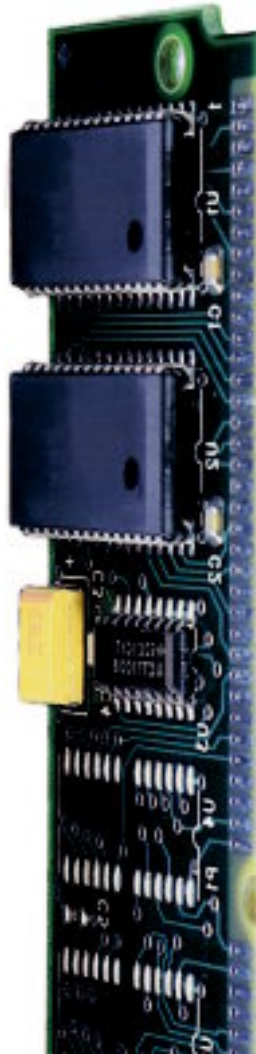
42 dB(A) tested in igus® lab, v = 1,0 m/s
unsupported, Series 06.10.038.0



UL94 - V2 classifications - for Series
03, 074, 094 (others upon request)



Smallest inner height 5 mm:
Series 03 E2 micro





igus® E2 micro e-chains® are robust for standing applications



Sliding door in train - UL 94-V2 version



Sliding door in subway with igus® chainflex® CF9 cable for smallest spaces

E2 micro | 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 micro - One-piece e-chains®
One-piece, non snap-open

03	5,0	5 - 10	8,7 - 13,7	8,0	10 - 28	0,40	5.12
04	7,0	7 - 30	12,0 - 35,0	10,0	15 - 48	0,50	5.18
045	10,3	6 - 64	12,0 - 70,0	12,5	18 - 38	0,50	5.24
05	10,0	6 - 64	10,0 - 68,0	12,0	18 - 38	0,55	5.30
06	10,5	6 - 64	12,5 - 71,0	15,0	18 - 38	0,60	5.36
08	15,0	10 - 50	18,2 - 58,2	19,3	25 - 48	1,00	5.60



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

074 NEW	10,9	10	18,2	15,0	28	0,55	5.48
094 NEW	15	10	18,2	19,3	28	1,00	5.54



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

B07	10,3	16 - 40	22,5 - 47,0	15,0	18 - 38	0,55	5.42
B09	14,3	16 - 40	24,2 - 48,2	19,3	28 - 48	1,00	5.66



Technical Data overview ► page 5.10

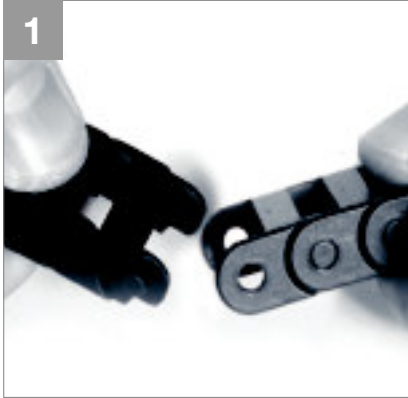


Part No. of e-chain® links as single parts ► page 5.11



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

*Delivery time means time until shipping of goods



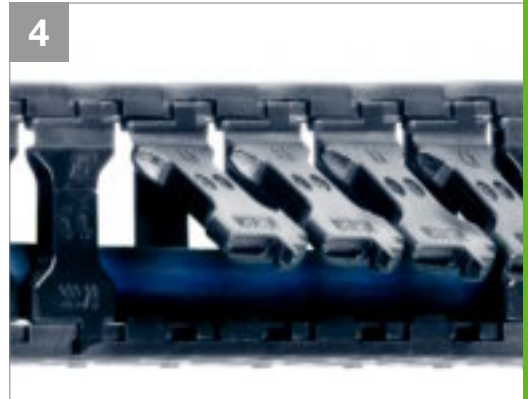
1
Twist and click



2
Twist and separate



3
Speciality: E2 micro e-chains® - for smallest bending radii with chainflex® cables



4
Speciality two-piece e-chains®: B07 and B09 snap-open along outer radius. Series 074 and 094 snap-open along inner radius

NEW in this catalog

Open e-chains® in a flash with the new e-chain® opener


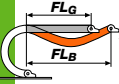
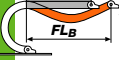


The opening of the e-chain® links at high speeds saves significant installation time. Open a long piece of e-chain® in one go. It's the ideal tool for your own mounting or assembly lines to minimize processing time significantly.









Product range: e-chain® opener

Series	Width B_i [mm]	Part No.
B07	16, 20, 30, 40	908.765
B09	16, 20, 30, 40	908.765

Technical Data - System E2 micro

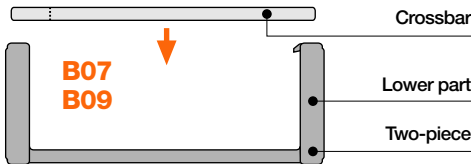
	Gliding speed / acceleration (maximum)	max. 3 [m/s] / max. 10 [m/s ²]
	Speed / acceleration FL_G max.	max. 20 [m/s] / max. 200 [m/s ²]
	Speed / acceleration FL_B max.	max. 3 [m/s] / max. 6 [m/s ²]
	Material - permitted temperature °C	igumid G / -40° up to +120° C
	Material - permitted temperature °C (only Series 03, 074, 094)	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 micro

e-chain® Series	 Unsupported application	 Vertical hanging	 Vertical standing	 Side mounted unsupported	 Rotary application	 Zig-zag application
03	≤ 0,40 m	upon request	upon request	upon request	with rework	upon request
04	≤ 0,50 m	upon request	upon request	upon request	with rework	upon request
045	≤ 0,50 m	upon request	upon request	upon request	with rework	upon request
05	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
06	≤ 0,60 m	upon request	upon request	upon request	with rework	upon request
B07	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
074 NEW in this catalog	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
094 NEW in this catalog	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request
08	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request
B09	≤ 1,00 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 micro

Two-piece, snap-open along outer radius

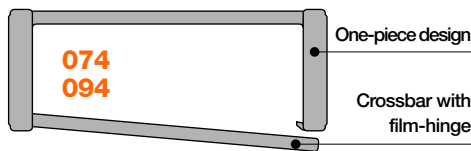



 e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**
B07	090. <i>Bi</i>	B07. <i>Bi</i> <u>00</u> . <i>R</i>
B09	090. <i>Bi</i>	B09. <i>Bi</i> <u>00</u> . <i>R</i>

* Crossbar: supplement Part No. with required width index (*Bi*) Example: 090.10

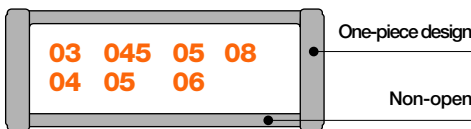
** Lower parts: supplement Part No. with required width index (*Bi*) + 00 and radius (*R*) Example: B07.1000.10

One-piece design, snap-open along inner radius



 e-chain® Series	One-piece e-chain® link	Crossbar with film-hinge
074	one-piece design	snap-open
094	one-piece design	snap-open

One-piece design, non snap-open



 e-chain® Series	One-piece e-chain® link
03	one-piece design, non snap-open
04	one-piece design, non snap-open
045	one-piece design, non snap-open
05	one-piece design, non snap-open
06	one-piece design, non snap-open
08	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 integrated
strain relief

Very lightweight,
low price

One-piece design,
non snap-open

Dirt-repellent
exterior

"Push-button principle"
for better stability



Original size 1:1
Outer height 8 mm

+ Smallest Spaces

When to use the Series 03 E2 micro:

- Smallest igus® e-chain® - Inner dimensions: 5 x 5 mm
- If a very small e-chain® with 5,0 mm Inner height and smallest bending radii are required
- For inner widths up to 10 mm
- For unsupported lengths up to 0,40 m and fill weights up to 0,24 kg/m
- If a lightweight and price-effective e-chain® is required
- If a one-piece, non snap-open e-chain® is required



When to use a different igus® Series:

- If snap-open links are required
- ▶ **Series 047 zipper, page 4.8**
- If quick insertion of cables with preassembled connectors is required
- ▶ **Series E03 easy chain®, page 3.6**

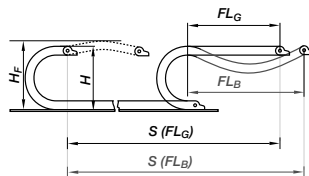
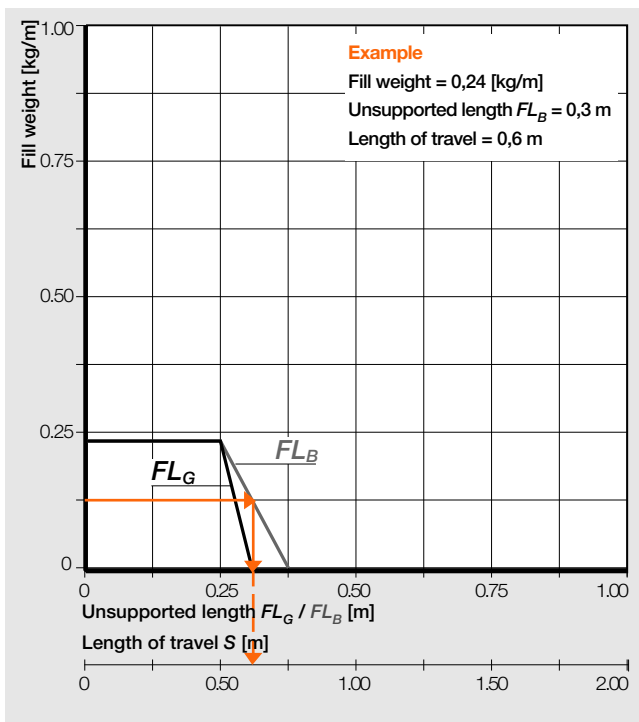


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3D-CAD files, configurators, PDF ▶ www.igus.de/en/03



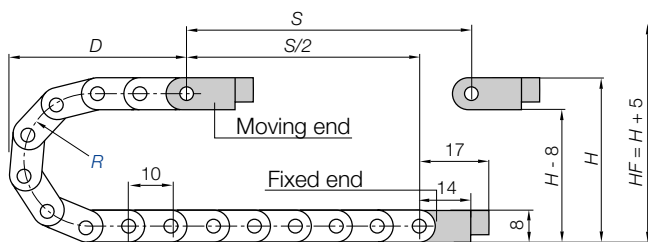
Standard **Unsupported applications**

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 5.10**

- Pitch** = 10 mm/link
- Links/m** = 100 (1000 mm)
- Chain length** = $S/2 + K$



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

The required clearance height: $H_F = H + 5$ mm (with 0,1 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 03 | One-piece, non snap-open e-chain®

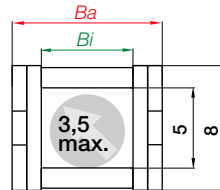
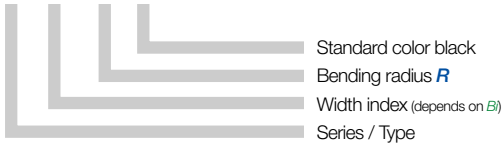
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
03.05.R.0	5	8,7	010 012 015 018 028	≈ 0,04
03.07.R.0	7	10,7	010 012 015 018 028	≈ 0,05
03.10.R.0	10	13,7	010 012 015 018 028	≈ 0,06

Supplement Part No. with required radius (*R*). Example: **03.05.028.0**



Order key

03. 05. 028. 0



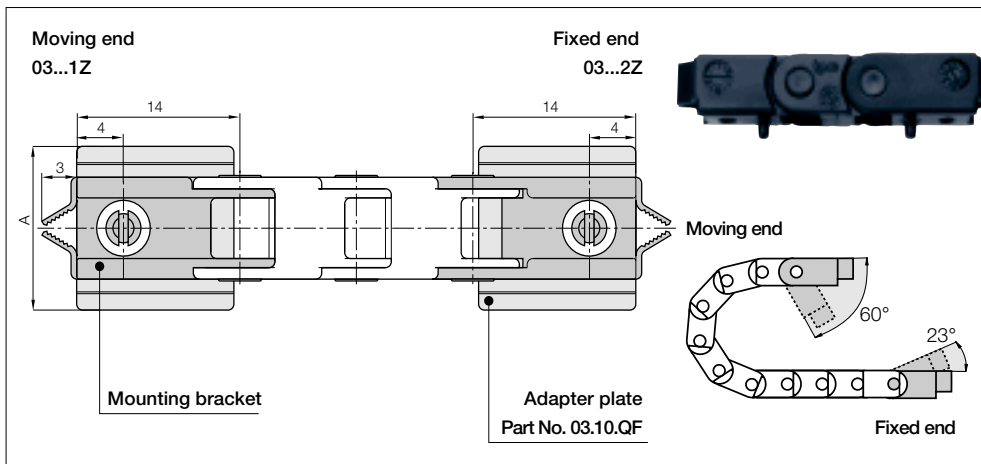
03.05.028.0 = non snap-open e-chain®, *Bi* 5 mm inner width, *R* 028 mm radius, color black

More order examples and configuration options ► page 5.16



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

*Delivery time means time until shipping of goods

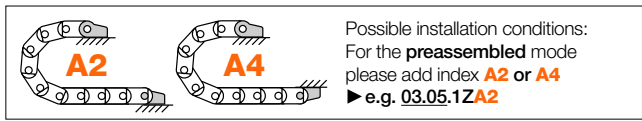


Polymer pivoting, one-piece | Universal for e-chains®
 Recommended for unsupported applications

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



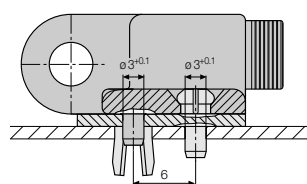
- One-piece mounting bracket
- With integrated strain relief
- Corrosion-resistant
- Adapter plate for rapid installation



Part No. structure



Additional Features



Single-part order

Mounting bracket **Moving end**

03.05. 1Z A2 (preassembled)

Mounting bracket **Fixed end**

03.05. 2Z A2 (preassembled)

Adapter plate for rapid installation: for all sizes of Part No. 03.10.QF
 The adapter has broken edges so that it can be adapted to the respective chain width. It is not absolutely necessary when attaching the mounting brackets. The mounting brackets can also be screwed on without the adapter plate.

**Standard***Reverse bending
radius for circular
movements**ATEX / ESD
classified e-chains®*
 II 2 GD**Part No.
Standard
e-chains®****Part No.
RBR
e-chains®****Part No.
ESD-Material
e-chains®****03.05.R.0****03.05.R1/R2.0****03.05.R.0.ESD****Delivery time
24h or today!*****Delivery time
10 work days**(2-5 work days with
express surcharge)**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 100 links

03.05.028.0**+ Mounting brackets** 1 set (with integrated strain relief)**03.05.12Z****Order text:** 1,0 m 03.05.028.0 + 03.05.12Z**Order key****03.05.028.0****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



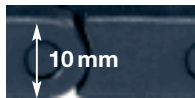
Series 03 - Limited installation space for the smallest, dirt-repellent igus® e-chain®. spray-painting robot shown here

Mounting bracket
with strain
relief option

Very lightweight,
low price

One-piece design,
non snap-open

Dirt-repellent
exterior



Original size 1:1
Outer height 10 mm

⊕ Low Weight

When to use the Series 04 E2 micro:

- Small igus® e-chain® - interior dimensions 7 x 7 mm
- If a small e-chain® with an inner height of 7,0 mm and small bending radii are required
- For inner widths up to 30 mm
- For unsupported lengths up to 0,50 m and fill weights up to 0,35 kg/m
- If a lightweight and price-effective e-chain® is required
- If a one-piece, non snap-open e-chain® is required



When to use a different igus® Series:

- If snap-open links are required
- ▶ **Series 047 zipper**, page 4.8
- If quick insertion of cables with preassembled connectors is required
- ▶ **Series E04 easy chain®**, page 3.10

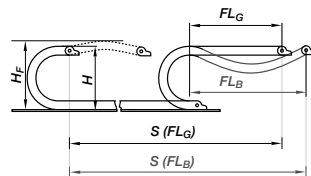
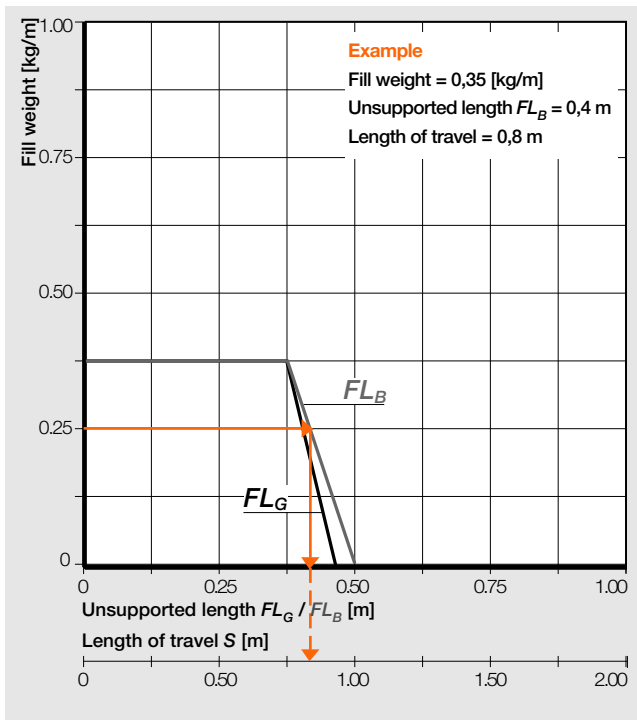


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3D-CAD files, configurators, PDF ▶ www.igus.de/en/04



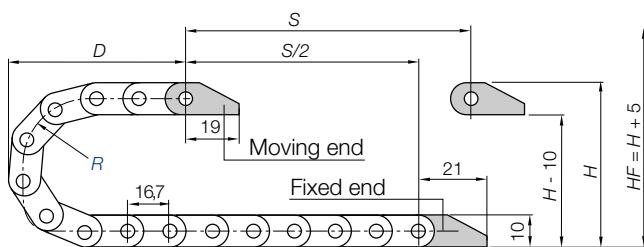
Standard **Unsupported applications**

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 5.10**

- Pitch** = 16,7 mm/link
- Links/m** = 60 (1002 mm)
- Chain length** = $S/2 + K$



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

The required clearance height: $H_F = H + 5$ mm (with 0,1 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 04 | One-piece, non snap-open e-chain®

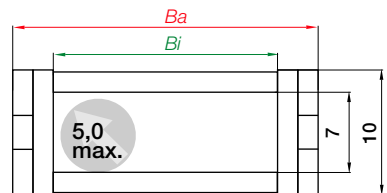
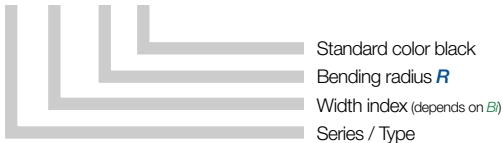
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
04. 07 . <i>R</i> .0	7	12	015 018 028 038 048	≈ 0,07
04. 10 . <i>R</i> .0	10	15	015 018 028 038 048	≈ 0,08
04. 16 . <i>R</i> .0	16	21	015 018 028 038 048	≈ 0,09
04. 20 . <i>R</i> .0	20	25	015 018 028 038 048	≈ 0,10
04. 30 . <i>R</i> .0	30	35	015 018 028 038 048	≈ 0,11

Supplement Part No. with required radius (*R*). Example: **04.10.028.0**



Order key

04. 10. 028. 0



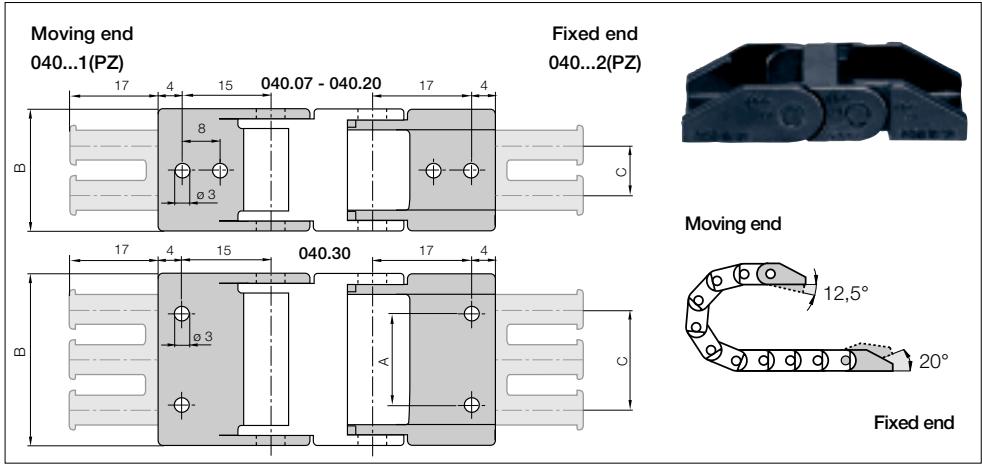
04.10.028.0 = non snap-open e-chain®, *Bi* 10 mm inner width, *R* 028 mm radius, color black

More order examples and configuration options ► page 5.22



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

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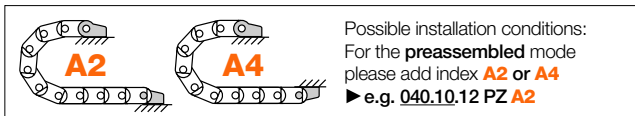


Polymer pivoting, one-piece | Universal for e-chains®
 Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Number of teeth
.07. ▶	040.07.12PZ	040.07.12	-	12	-	1
.10. ▶	040.10.12PZ	040.10.12	-	15	-	1
.16. ▶	040.16.12PZ	040.16.12	-	21	10	2
.20. ▶	040.20.12PZ	040.20.12	-	25	10	2
.30. ▶	040.30.12PZ	040.30.12	22	35	20	3

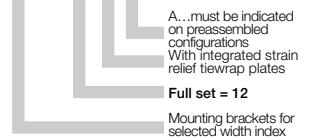


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Part No. structure

040.10.12 PZ A2



Single-part order

- Mounting bracket **Moving end**
040.10.1 PZ A2 (preass. + tiewrap plate)
- Mounting bracket **Fixed end**
040.10.2PZ A2 (preass. + tiewrap plate)

Additional Features




Quicksnap - the complete, detachable mounting unit. **Part Nos. 040.07.QS** available from stock



Quickfix - mounting bracket with dowel, available upon request



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

*Standard**Reverse bending
radius for circular
movements**ATEX / ESD
classified e-chains®*
 II 2 GDPart No.
Standard
e-chains®Part No.
RBR
e-chains®Part No.
ESD-Material
e-chains®**04.10.R.0****04.10.R1/R2.0****04.10.R.0.ESD****Delivery time**
24h or today!***Delivery time**
10 work days(2-5 work days with
express surcharge)**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 60 links

04.10.028.0**+ Mounting brackets** 1 set (with integrated strain relief)**040.10.12PZ****Order text:** 1,0 m **04.10.028.0** + **040.10.12PZ****Order key****04.10.028.0****Black e-chains® from stock!**

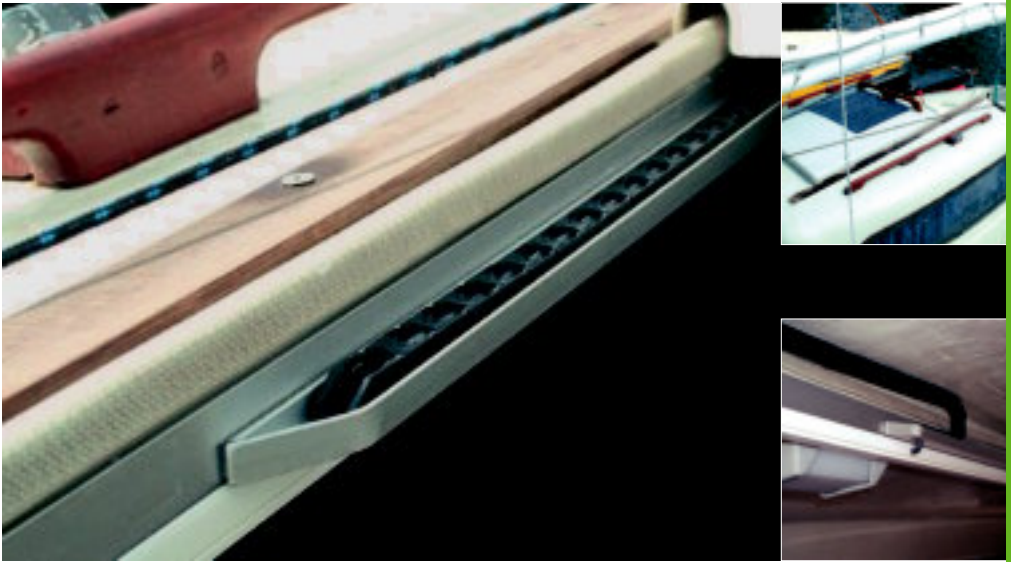
*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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



To generate energy for the use of radio, light and a GPS system, etc. on board of a sailing ship a walk-in solar cell with controller was used . E2 micro e-chain® of Series 04 was used for installation of solar cell

Mounting bracket
with strain
relief option

Dirt-repellent
exterior

Very lightweight,
low price

One-piece design,
non snap-open

Small pitch for
smooth running



Original size 1:1
Outer height 12,5 mm

⊕ Small pitch, smooth running

When to use the Series 045 E2 micro:

- If a small e-chain® with an inner height of 10,3 mm and small pitch is required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,50 m and fill weights up to 0,25 kg/m
- Small pitch for smooth running
- For very lightweight applications - recommended for low inertia applications
- If a one-piece, non snap-open e-chain® is required



When to use a different igus® Series:

- If snap-open links are required
- ▶ **Series 047 zipper**, page 4.8
- If quick insertion of cables with preassembled connectors is required
- ▶ **Series E06 easy chain®**, page 3.20
- If extra torsional rigidity is required
- ▶ **Series 06 E2 micro**, page 5.36



Series 046 with molded-in
separator available.

More information ▶ page 5.26

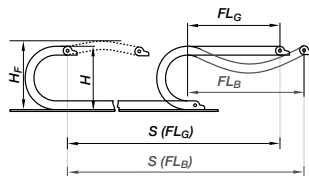
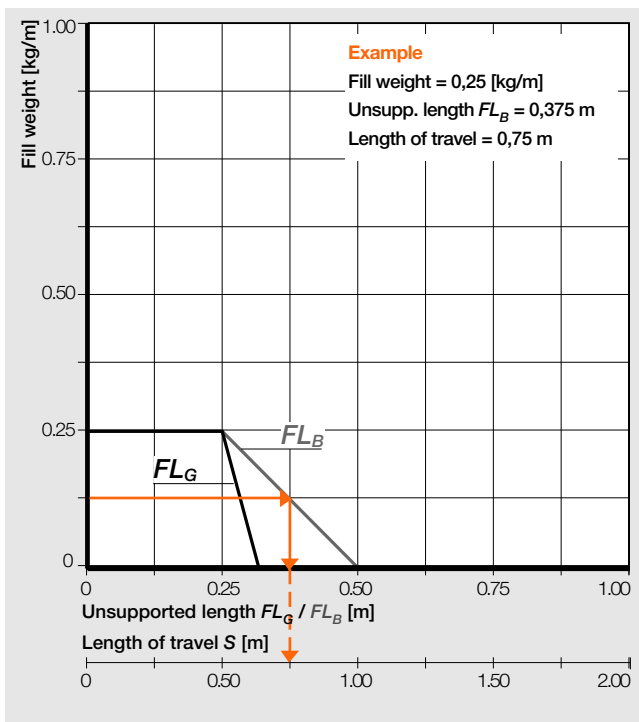


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/045



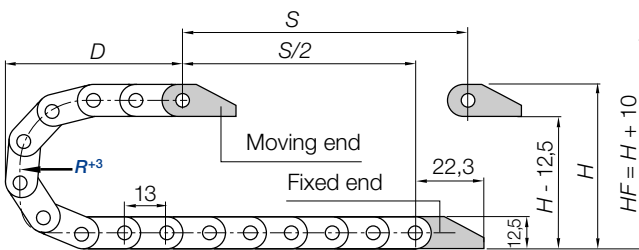
Standard **Unsupported applications**

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 5.10**

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



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

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

- 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 045 | One-piece, non snap-open e-chain®

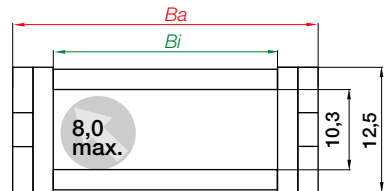
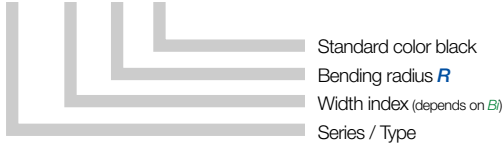
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
045.06 .R.0	6	12	018 028 038	≈ 0,09
045.10 .R.0	10	16	018 028 038	≈ 0,10
045.16 .R.0	16	22	018 028 038	≈ 0,11
045.20 .R.0	20	26	018 028 038	≈ 0,13
045.30 .R.0	30	36	018 028 038	≈ 0,16
045.64 .R.0	64	70	018 028 038	≈ 0,19

Supplement Part No. with required radius (*R*). Example: **045.10.028.0**



Order key

045.10.028.0



045.10.028.0 = non snap-open e-chain®, *Bi* 10 mm inner width, *R* 028 mm radius, color black

More order examples and configuration options ► page 5.28

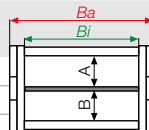


Standard e-chains® available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

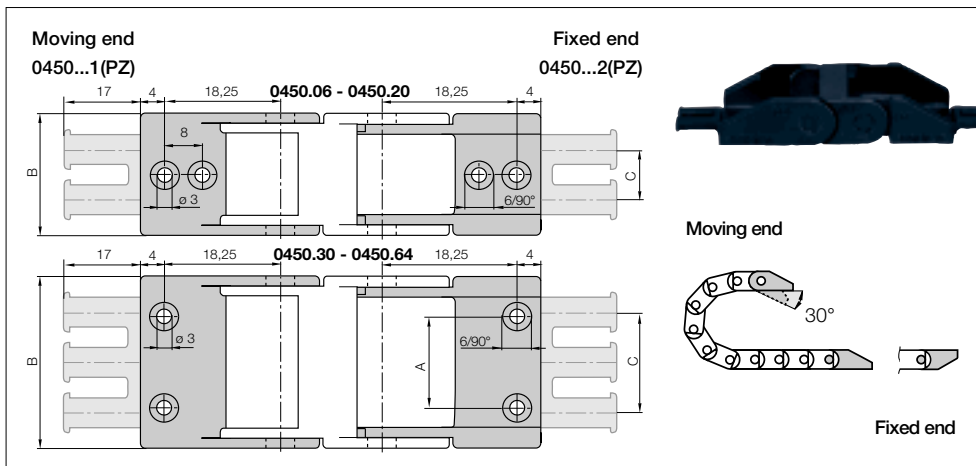
Series 046 | Optional | With molded-in separation

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Dim. A [mm]	Dim. B [mm]	Weight [kg/m]
046.16 .R.0	16	22	018 028 038	4,6	4,6	≈ 0,14



More widths upon request. Delivery time approx. 6-8 weeks after order.

Supplement Part No. with required radius (*R*). Example: **046.16.028.0**



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

Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Number of teeth
.06	▶ 0450.06.12PZ	0450.06.12	-	12	-	1
.10	▶ 0450.10.12PZ	0450.10.12	-	16	-	1
.16	▶ 0450.16.12PZ	0450.16.12	-	22	10	2
.20	▶ 0450.20.12PZ	0450.20.12	-	26	10	2
.30	▶ 0450.30.12PZ	0450.30.12	22	36	20	3
.64	▶ 0450.64.12PZ	0450.64.12	56	70	50	6

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

Mounting bracket without strain relief tiewrap plate only has holes of $\varnothing 3$ mm.



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

Part No. structure

0450.10.12 PZ **A2**



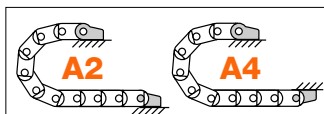
Single-part order

Mounting bracket **Moving end**

0450.10.1 PZ **A2** (preass. + tiewrap plate)

Mounting bracket **Fixed end**


0450.10.2PZ **A2** (preass. + tiewrap plate)



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



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**Reverse bending
radius for circular
movements**ATEX / ESD
classified e-chains®*
 II 2 GDPart No.
Standard
e-chains®Part No.
RBR
e-chains®Part No.
ESD-Material
e-chains®**045.10.R.0****045.10.R1/R2.0****045.10.R.0.ESD****Delivery time
24h or today!*****Delivery time
10 work days**(2-5 work days at an
express surcharge)**Delivery time
5 work days****Order example** | Order key and color options**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets:****e-chain® (1,0 m)**

Please indicate e-chain® length or number of links: 1,0 m or 77 links

045.10.028.0**+ Mounting brackets** 1 set (with integrated strain relief)**0450.10.12PZ****Order text:** 1,0 m **045.10.028.0** + **0450.10.12PZ****Order key****045.10.028.0****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 micro e-chain® space saving "ZigZag" design in this mobile operating table

One-piece
mounting bracket



iF-Design Award

One-piece design,
non snap-open

Very lightweight,
low price

Dirt-repellent
exterior



Original size 1:1
Outer height 12 mm

⊕ **Low weight, high dynamic**

When to use the Series 05 E2 micro:

- If a small e-chain® with an inner height of 10 mm and small bending radii are required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,35 kg/m
- For very lightweight applications - recommended for low inertia applications
- If a one-piece, non snap-open e-chain® is required



When to use a different igus® Series:

- If snap-open links are required
- ▶ **Series 07 zipper**, page 4.14
- If quick insertion of cables with preassembled connectors is required
- ▶ **Series E06 easy chain®**, page 3.20
- If extra torsional rigidity is required
- ▶ **Series 06 E2 micro**, page 5.36

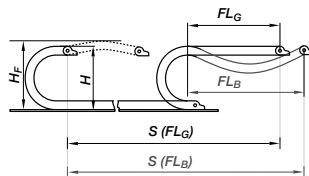
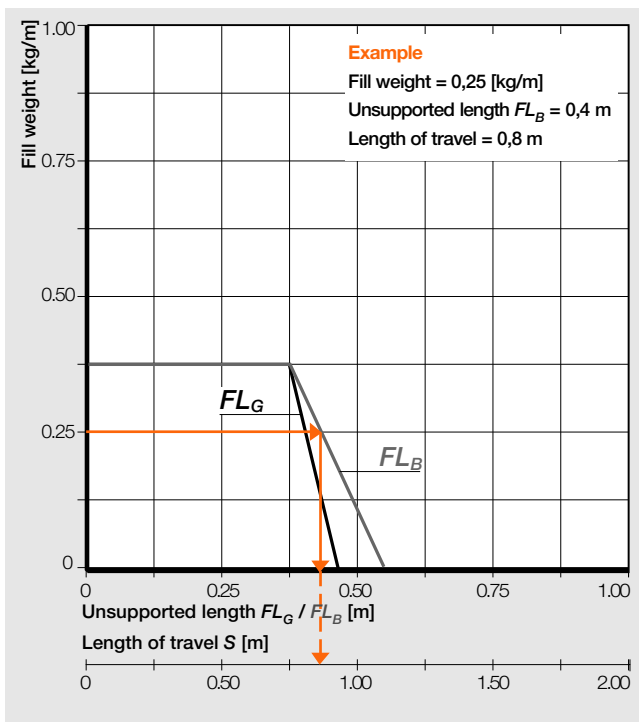


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/05



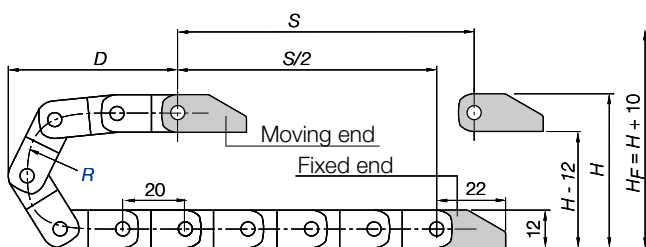
Standard **Unsupported applications**

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 5.10**

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



R	018	028	038
H	48	68	88
D	54	64	74
K	100	130	160

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

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



Series 05 | One-piece, non snap-open e-chain®

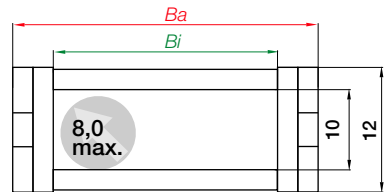
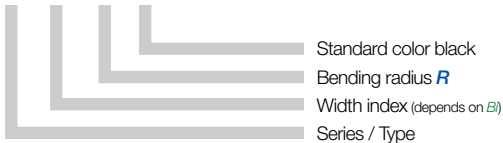
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
05. 06 . <i>R</i> .0	6	10	018 028 038	≈ 0,06
05. 10 . <i>R</i> .0	10	14	018 028 038	≈ 0,07
05. 16 . <i>R</i> .0	16	20	018 028 038	≈ 0,07
05. 20 . <i>R</i> .0	20	24	018 028 038	≈ 0,08
05. 30 . <i>R</i> .0	30	34	018 028 038	≈ 0,09
05. 64 . <i>R</i> .0	64	68	018 028 038	≈ 0,19

Supplement Part No. with required radius (*R*). Example: **05.10.028.0**



Order key

05. 10. 028. 0



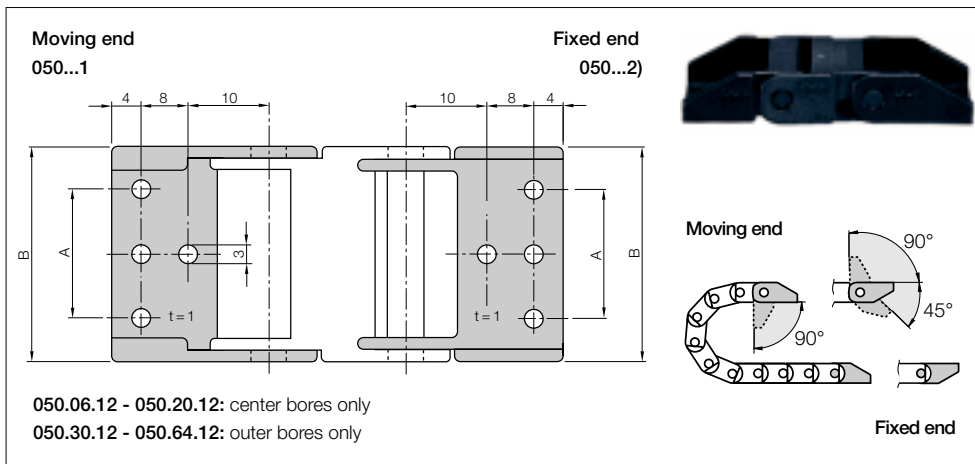
05.10.028.0 = non snap-open e-chain®, *Bi* 10 mm inner width, *R* 028 mm radius, color black

More order examples and configuration options ► page 5.34



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

*Delivery time means time until shipping of goods



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

Width Index	Part No. full set	Dim. A [mm]	Dim. B [mm]
one-piece			
.06. ▶	050.06.12	–	10,7
.10. ▶	050.10.12	–	14,7
.16. ▶	050.16.12	–	20,7
.20. ▶	050.20.12	–	24,7
.30. ▶	050.30.12	22	34,7
.64. ▶	050.64.12	56	68,7



- One-piece mounting bracket
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure

050.10.12 **A1**



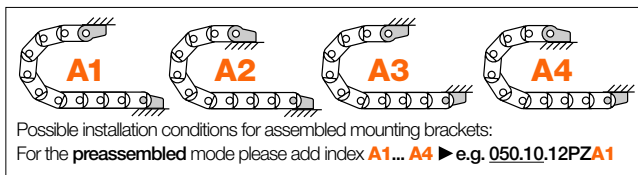
Single-part order


Mounting bracket **Moving end**

050.10.1 PZ **A1** (preassembled)

Mounting bracket **Fixed end**

050.10.2PZ **A1** (preassembled)



*Standard**Reverse bending
radius for circular
movements**ATEX / ESD
classified e-chains®*
 II 2 GDPart No.
Standard
e-chains®Part No.
RBR
e-chains®Part No.
ESD-Material
e-chains®**05.10.R.0****05.10.R1/R2.0****05.10.R.0.ESD****Delivery time**
24h or today!***Delivery time**
10 work days(2-5 work days at an
express surcharge)**Delivery time**
5 work days**Order example** | Order key and color options**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets:****e-chain® (1,0 m)**

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

05.10.028.0**+ Mounting brackets** 1 set**050.10.12PZ****Order text:** 1,0 m **05.10.028.0** + **050.10.12PZ****Order key****05.10.028.0****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



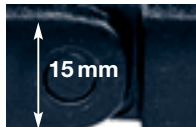
Flexible control cables, safely guided by e-chains® and igus® wear rate-reducing plain bearings for a much longer service life

Mounting bracket
with strain
relief option

One-piece design,
non snap-open

Very lightweight,
low price

Dirt-repellent
exterior



Original size 1:1
Outer height 15 mm

Low weight, high dynamic

When to use the Series 06 E2 micro:

- If a small e-chain® with an inner height of 10,5 mm and small bending radii are required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,62 m and fill weights up to 0,48 kg/m
- If extra torsional rigidity is required
- If a one-piece, non snap-open e-chain® is required



When to use a different igus® Series:

- If snap-open links are required
- ▶ **Series 07 zipper**, page 4.14
- ▶ **Series B07 E2 micro**, page 5.42
- If quick insertion of cables with preassembled connectors is required
- ▶ **Series E06 easy chain®**, page 3.20
- If very quiet operation is required
- ▶ **Series 045 E2 micro**, page 5.24



Series 06 with molded-in
separator available.

More information ▶ **page 5.38**

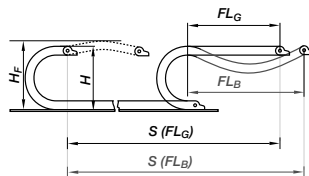
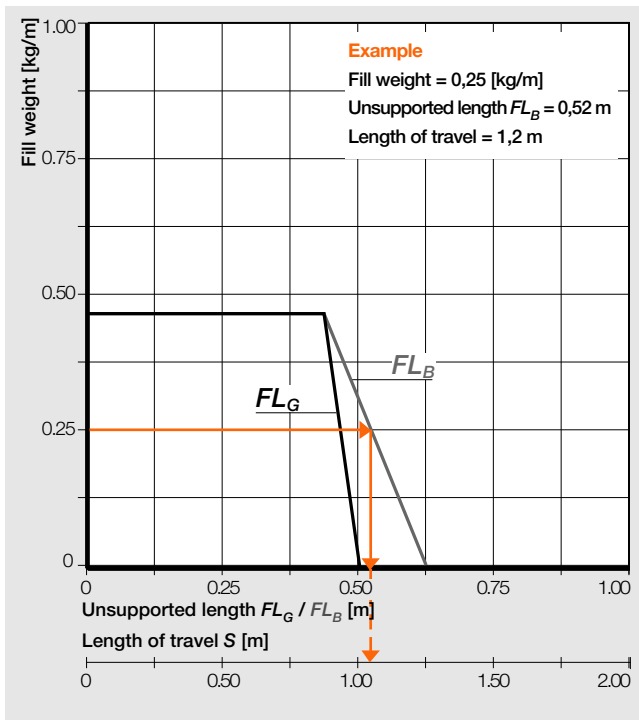


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/06



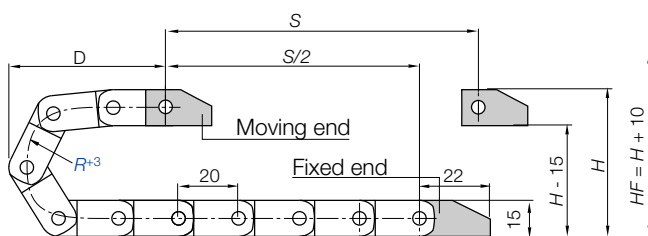
Standard **Unsupported applications**

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 5.10**

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



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

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

- 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 06 | One-piece, non snap-open e-chain®

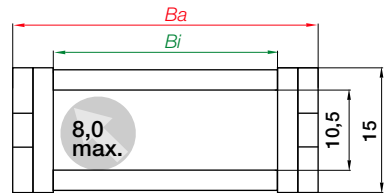
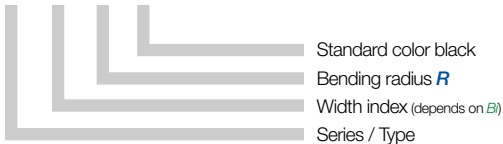
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
06. 06 .R.0	6	12,5	018 028 038	≈ 0,13
06. 10 .R.0	10	16,5	018 028 038	≈ 0,14
06. 16 .R.0	16	22,5	018 028 038	≈ 0,16
06. 20 .R.0	20	27,0	018 028 038	≈ 0,17
06. 30 .R.0	30	37,0	018 028 038	≈ 0,20
06. 40 .R.0	40	47,0	018 028 038	≈ 0,23
06. 50 .R.0	50	57,0	018 028 038	≈ 0,26
06. 64 .R.0	64	71,0	018 028 038	≈ 0,30

Supplement Part No. with required radius (*R*). Example: **06.10.028.0**



Order key

06. 10. 028. 0



06.10.028.0 = non snap-open e-chain®, *Bi* 10 mm inner width, *R* 028 mm radius, color black

More order examples and configuration options ► page 5.40

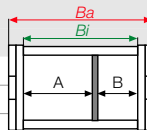


Standard e-chains® available from stock. Delivery in 24h or today!*

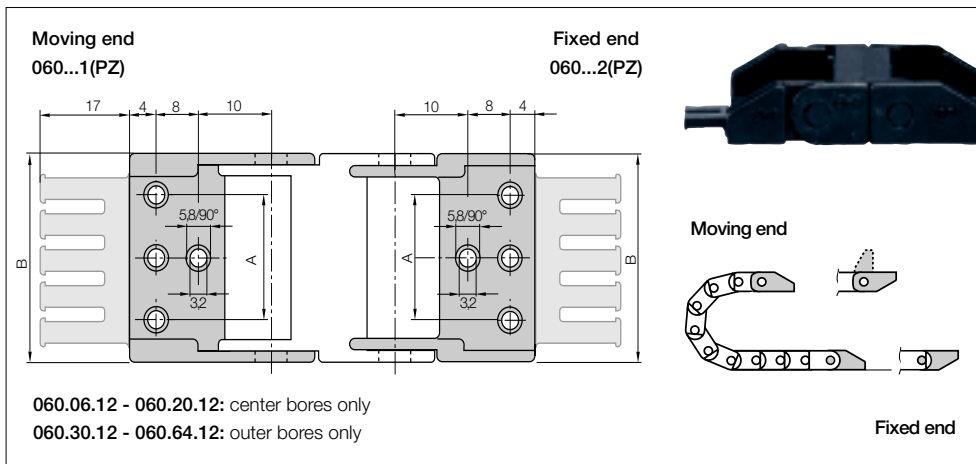
*Delivery time means time until shipping of goods

Series 06 | Optional | With molded-in vertical separation

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Dim. A [mm]	Dim. B [mm]	Weight [kg/m]
06. 16 .R.0.S1	16	22	018	8,5	6,3	≈ 0,18



Supplement Part No. with required radius (*R*). Example: **06.16.028.0.S1**

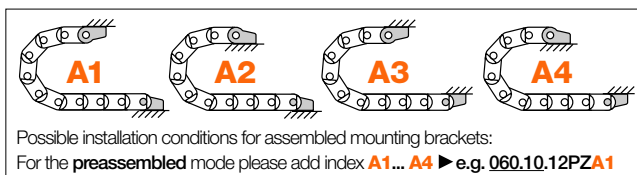


Polymer locking, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.06. ▶	060.06.12PZ	060.06.12	-	12,5	1
.10. ▶	060.10.12PZ	060.10.12	-	16,5	1
.16. ▶	060.16.12PZ	060.16.12	-	22,5	2
.20. ▶	060.20.12PZ	060.20.12	-	27,0	2
.30. ▶	060.30.12PZ	060.30.12	22	37,0	3
.40. ▶	060.40.12PZ	060.40.12	32	47,0	4
.50. ▶	060.50.12PZ	060.50.12	42	57,0	5
.64. ▶	060.64.12PZ	060.64.12	56	71,0	6



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



Part No. structure

060.10.12 PZ **A1**

A... must be indicated on preassembled configurations
With integrated strain relief tiewrap plates

Full set = 12

Mounting brackets for selected width index

Single-part order

Mounting bracket **Moving end**

060.10.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

060.10.2 PZ A1 (preass. + tiewrap plate)

Additional Features



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



Quickfix - mounting bracket with dowel, available upon request



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

E2 micro | Series 06 | Options and order key



Standard

NC-Version -
(no camber)
without pretension

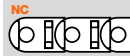
Reverse bending
radius for circular
movements

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.
ESD-Material
e-chains®



06.10.R.0

06.10.R.0.NC

06.10.R1/R2.0

06.05.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
5 work days

Order example | Order key and color options



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

e-chain® (1,0 m)

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

06.10.028.0

+ Mounting brackets 1 set (with integrated strain relief)

060.10.12PZ

Order text: 1,0 m 06.10.028.0 + 060.10.12PZ



Order key

06.10.028.0



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!)

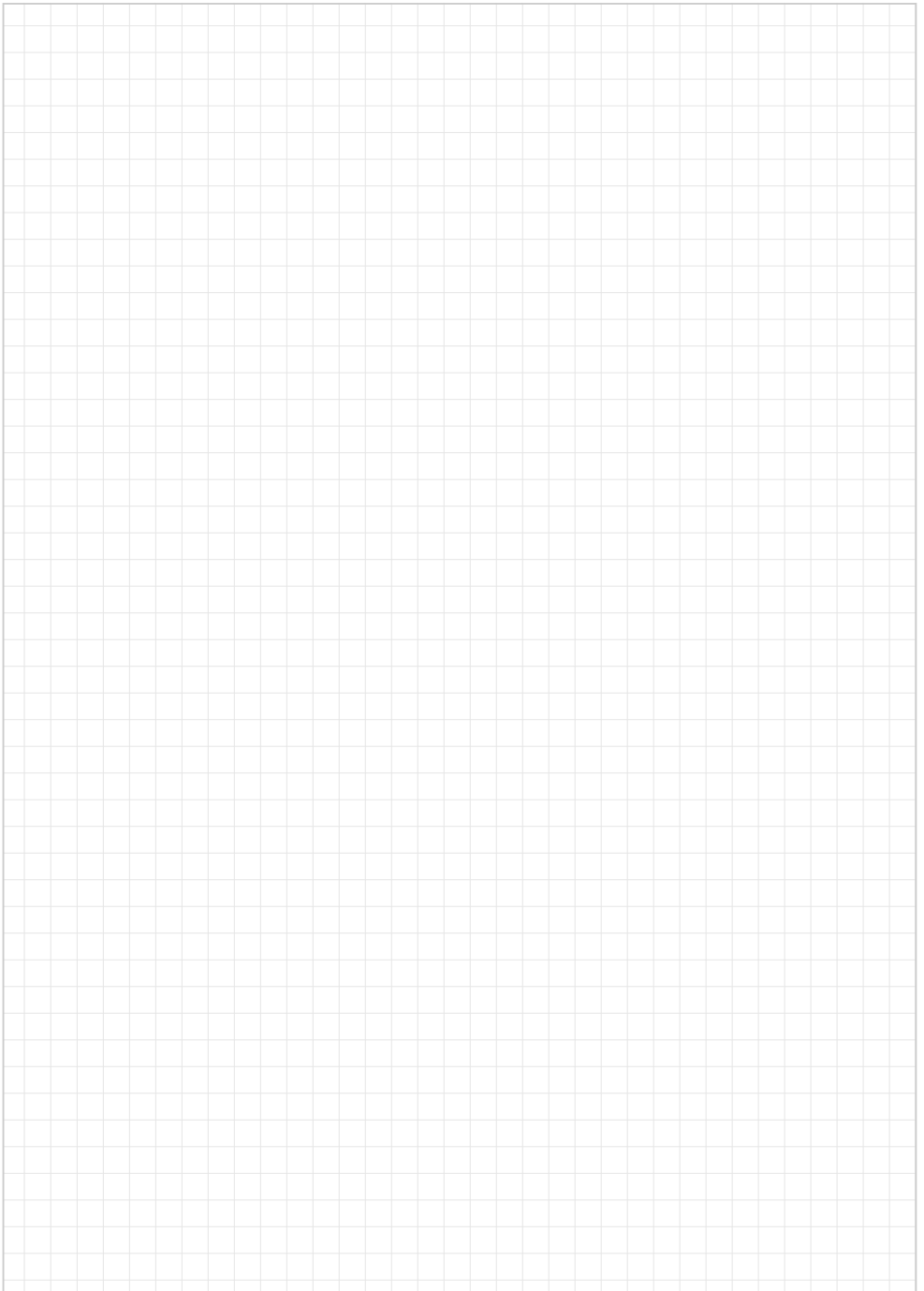
Color options for e-chains® and e-tubes

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

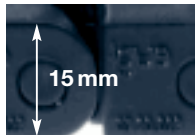
Lightweight
and stable

Snap-open along outer
radius with film-hinge

Small pitch for
smooth running

For high
accelerations

Two-piece
link design



Original size 1:1
Outer height 15 mm

Snap-open along outer radius

When to use the Series B07 E2 micro:

- If a small e-chain® with an inner height of 10,3 mm and smallest bending radii are required
- For inner widths up to 40 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,4 kg/m
- Small pitch, smooth running
- If a low-priced, snap-open e-chain® is required
- If quick insertion of cables with preassembled connectors is required



When to use a different igus® Series:

- If snap-open links are not necessary
- ▶ **Series 06 E2 micro**, page 5.36
- If a fully enclosed e-tube is required
- ▶ **Series R07 zipper-e-tube**, page 4.20



Open B07 e-chains® in a flash with the e-chain® opener ▶ page 5.9

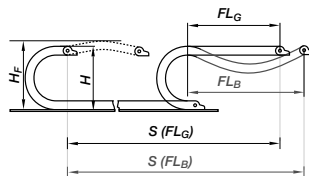
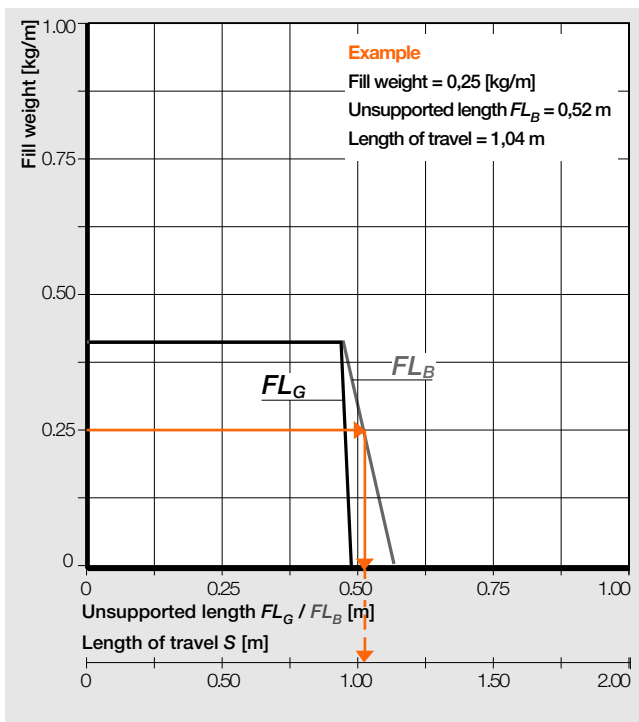


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/B07



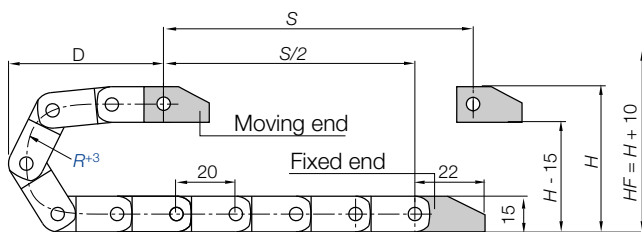
Standard **Unsupported applications**

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 5.10**

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



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

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

- 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 B07 | Two-piece link design, snap-open along outer radius

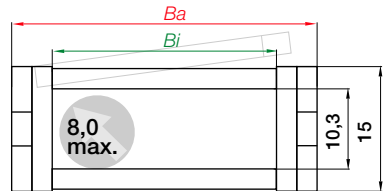
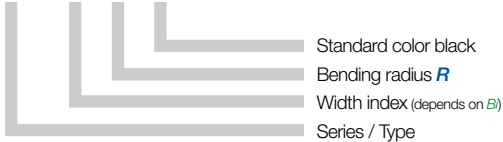
Snap-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
B07. 16 .R.0	16	22,5	018 028 038	≈ 0,16
B07. 20 .R.0	20	27	018 028 038	≈ 0,17
B07. 30 .R.0	30	37	018 028 038	≈ 0,20
B07. 40 .R.0	40	47	018 028 038	≈ 0,23

Supplement Part No. with required radius (*R*). Example: **B07.40.038.0**



Order key

B07. 40. 038. 0



B07.40.038.0 = e-chain® snap-open along outer radius, *Bi* 40 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.46

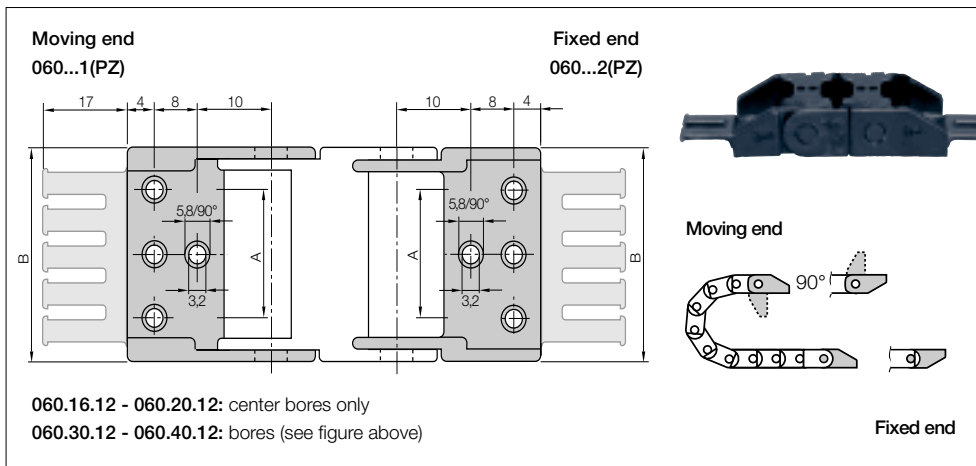


Part No. of e-chain® links as single parts ► page 5.11



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

*Delivery time means time until shipping of goods



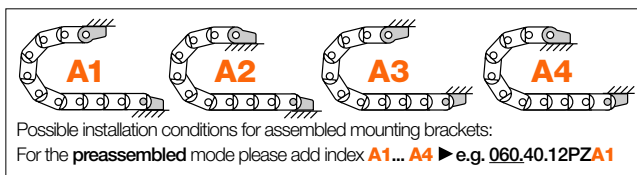
Polymer locking, one-piece | Universal for e-chains®

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
.16. ▶	060.16. 12PZ	060.16. 12	–	22,5	2
.20. ▶	060.20. 12PZ	060.20. 12	–	27,0	2
.30. ▶	060.30. 12PZ	060.30. 12	22	37,0	3
.40. ▶	060.40. 12PZ	060.40. 12	32	47,0	4



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



Part No. structure

060.40.12 PZ A1



Single-part order

Mounting bracket **Moving end**

060.40.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

060.40.2PZ A1 (preass. + tiewrap plate)

Additional Features



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



Quickfix - mounting bracket with dowel, available upon request



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

E2 micro | Series B07 | Options and order key



Standard

NC-Version -
(no camber)
without pretension

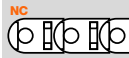
Reverse bending
radius for circular
movements

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.
ESD-Material
e-chains®



B07.40.R.0

B07.40.R.0.NC

B07.40.R1/R2.0

B07.40.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
5 work days

Order example | Order key and color options



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

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 50 links **B07.40.038.0**

+ Mounting brackets 1 set (+ tiewrap plates) **060.40.12PZ**

Order text: 1,0 m B07.40.038.0 + 060.40.12PZ



Order key
B07.40.038.0



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



Attractive and flexible E2 micro energy supply system at a height-adjustable high-end design speaker's lectern

NEW in this catalog

Mounting bracket
with integrated
strain relief option

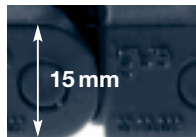
Closed
outside

Dirt-repellent
exterior

One-piece
link-design

Small pitch for
smooth running

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



Original size 1:1
Outer height 15 mm

+ Snap-open along inner radius

When to use the Series 074 E2 micro:

- If a small e-chain® with an inner height of 10,9 mm and small bending radii are required
- Inner width 10 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,4 kg/m
- Small pitch for smooth running
- If snap-open mechanism with film-hinge is required
- If quick insertion of cables with preassembled connectors is required



When to use a different igus® Series:

- If snap-open links are not necessary
- ▶ **Series 06 E2 micro, page 5.36**
- If a fully enclosed e-tube is required
- ▶ **Series R07 zipper-e-tube, page 4.20**

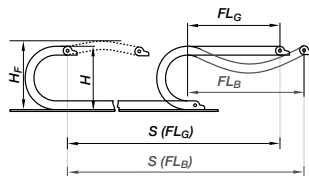
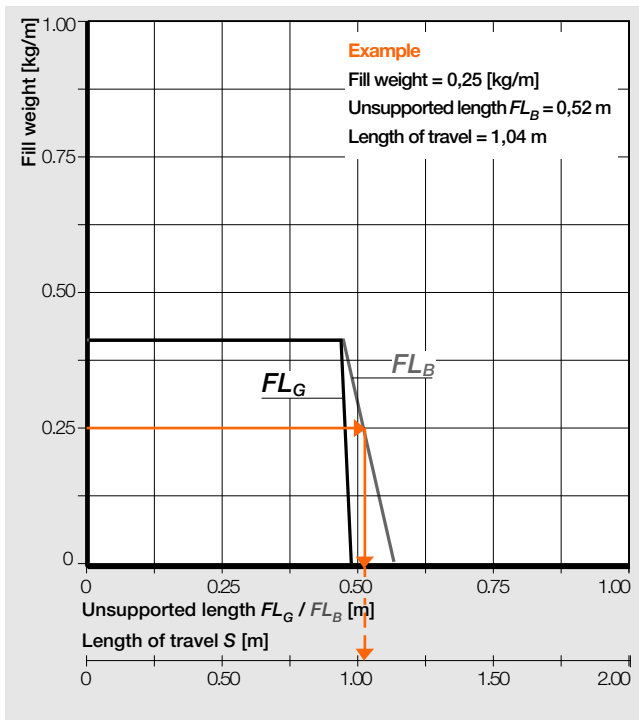


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

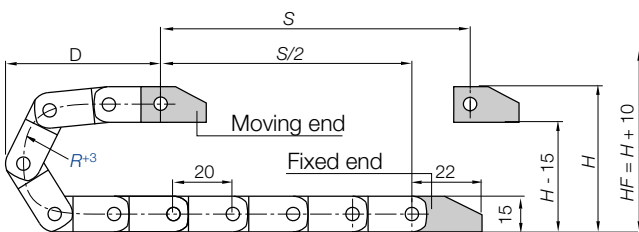


3D-CAD files, configurators, PDF ▶ www.igus.de/en/074



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 5.10**

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

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

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

* Radii 018, 038 upon request. Delivery time approx. 6-8 weeks after order.



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 074 | 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]
074. 10 . <i>R</i> .0	10	18,2	018 028* 038*	≈ 0,15
074. 16 . <i>R</i> .0**	16	22,5	018 028* 038*	≈ 0,16
074. 20 . <i>R</i> .0**	20	27	018 028* 038*	≈ 0,17
074. 30 . <i>R</i> .0**	30	37	018 028* 038*	≈ 0,20
074. 40 . <i>R</i> .0**	40	47	018 028* 038*	≈ 0,23

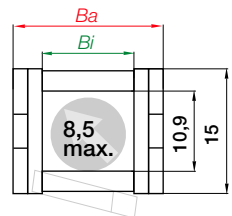
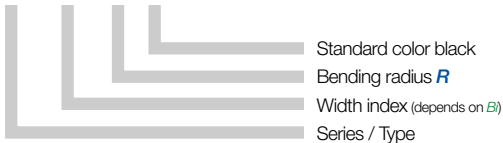
**Width upon request. Delivery time approx. 6-8 weeks after order. * Radii 018, 038 upon request. Delivery time approx. 6-8 weeks after order.

Supplement Part No. with required radius (*R*). Example: **074.10.018.0**



Order key

074. 10. 018. 0



074.10.018.0 = e-chain® snap-open along inner radius, *Bi* 10 mm inner width, *R* 018 mm radius, color black

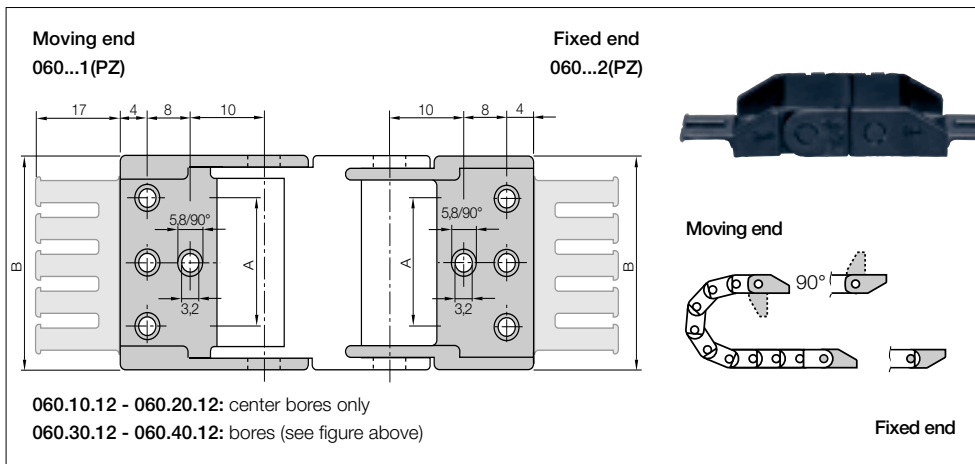
More order examples and configuration options ► page 5.52



Part No. of e-chain® links as single parts ► page 5.11

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

*Delivery time means time until shipping of goods



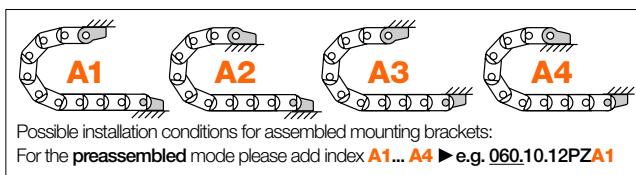
Polymer locking, one-piece | Universal for e-chains®

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
.10.	060.10. 12PZ	060.10. 12	–	16,5	1
.16.	060.16. 12PZ	060.16. 12	–	22,5	2
.20.	060.20. 12PZ	060.20. 12	–	27,0	2
.30.	060.30. 12PZ	060.30. 12	22	37,0	3
.40.	060.40. 12PZ	060.40. 12	32	47,0	4



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



Part No. structure

060.10.12 PZ A1



Mounting brackets for selected width index

Single-part order

Mounting bracket **Moving end**

060.10.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

060.10.2PZ A1 (preass. + tiewrap plate)

Additional Features




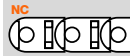
Quicksnap - the complete, detachable mounting unit. **Part Nos.** 060.10.QS, 060.16.QS, 060.20.QS, 060.40.QS available from stock



Quickfix - mounting bracket with dowel, available upon request



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

**Standard***NC-Version -
(no camber)
without pretension**Reverse bending
radius for circular
movements**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.
ESD-Material
e-chains®****074.10.R.0****074.10.R.0.NC****074.10.R1/R2.0****074.10.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
5 work days****Order example** | Order key and color options**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:****e-chain®** (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 50 links **074.10.018.0****+ Mounting brackets** 1 set (+ tiewrap plates) **060.10.12PZ****Order text:** 1,0 m **074.10.018.0** + **060.10.12PZ****Order key
074.10.018.0****Black e-chains® from stock!**

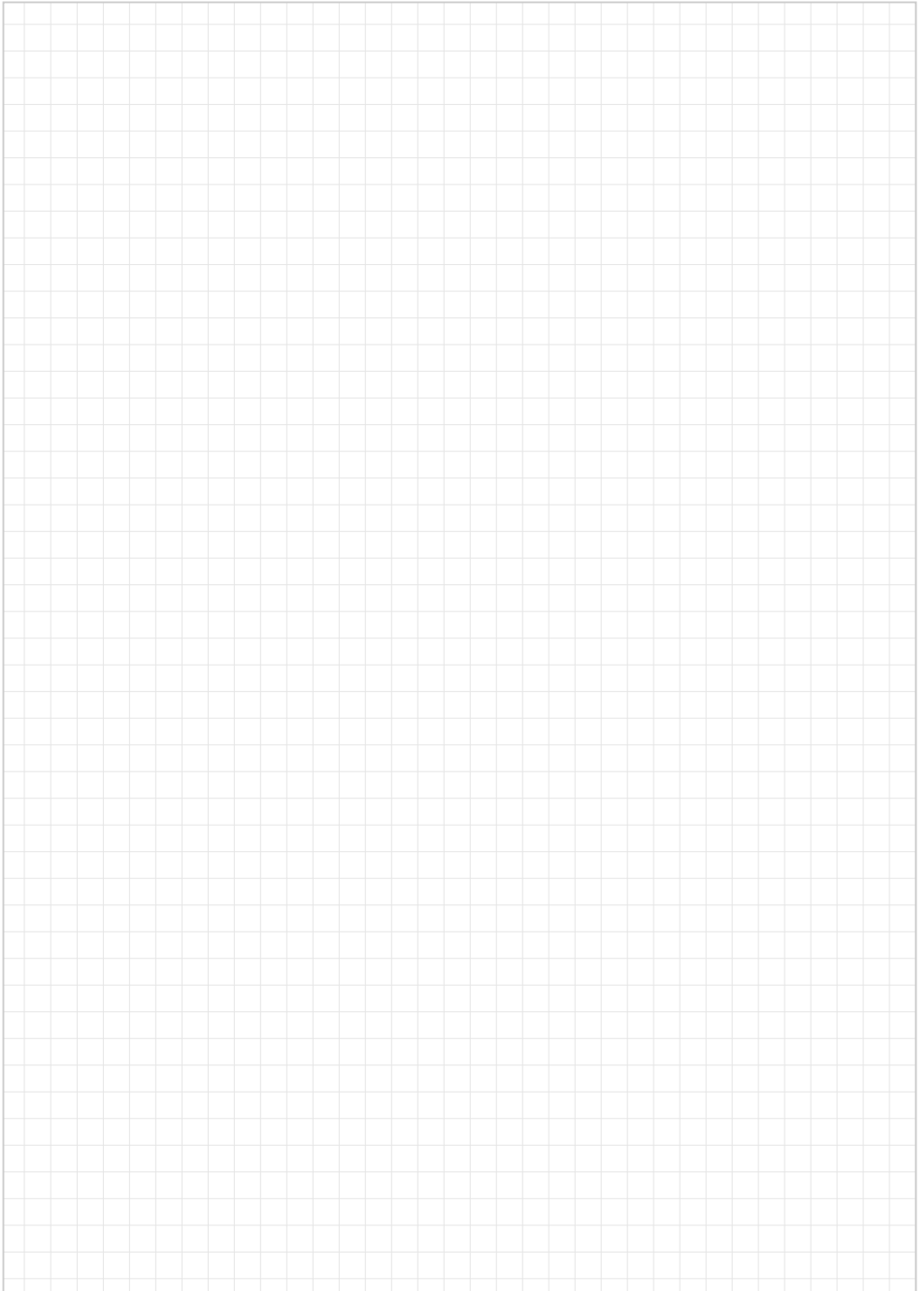
*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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 integrated
strain relief option

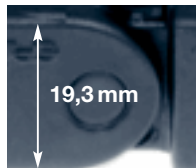
Closed
outside

Dirt-repellent
exterior

One-piece
link-design

Small pitch for
smooth running

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



Original size 1:1
Outer height 19,3 mm

+ Snap-open along inner radius

When to use the Series 094 E2 micro:

- If a small e-chain® with an inner height of 15 mm and small bending radii are required
- Inner width 10 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- Small pitch for smooth running
- If snap-open mechanism with film-hinge is required
- If quick insertion of cables with preassembled connectors is required



When to use a different igus® Series:

- If snap-open links are not necessary
- ▶ **Series 08 E2 micro, page 5.60**
- If a fully enclosed e-tube is required
- ▶ **Series R09 zipper-e-tube, page 4.32**

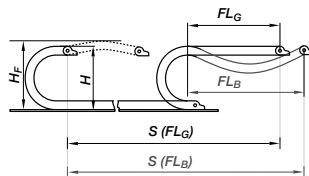
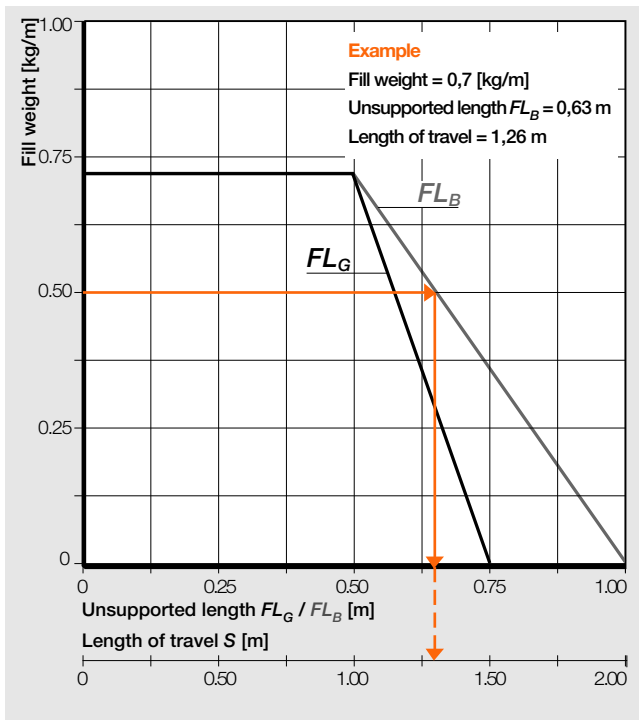


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

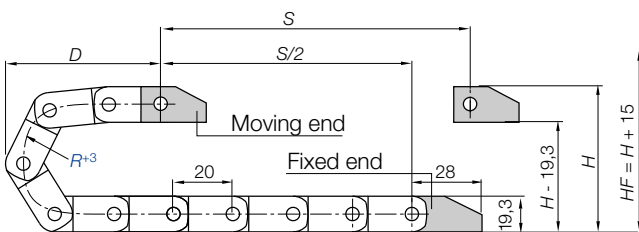


3D-CAD files, configurators, PDF ▶ www.igus.de/en/094



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 5.10**

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

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

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

* Radii 038, 048 upon request. Delivery time approx. 6-8 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 094 | 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]
094. 10 . <i>R</i> .0	10	18,2	028 038* 048*	≈ 0,23
094. 16 . <i>R</i> .0**	16	24,2	028 038* 048*	≈ 0,24
094. 20 . <i>R</i> .0**	20	28,2	028 038* 048*	≈ 0,25
094. 30 . <i>R</i> .0**	30	38,2	028 038* 048*	≈ 0,28
094. 40 . <i>R</i> .0**	40	48,2	028 038* 048*	≈ 0,31

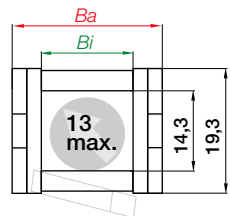
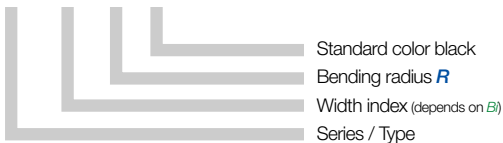
**Width upon request. Delivery time approx. 6-8 weeks after order. *Radii 038, 048 upon request. Delivery time approx. 6-8 weeks after order.

Supplement Part No. with required radius (*R*). Example: **094.10.028.0**



Order key

094. 10. 028. 0



094.10.028.0 = e-chain® snap-open along inner radius, *Bi* 40 mm inner width, *R* 028 mm radius, color black

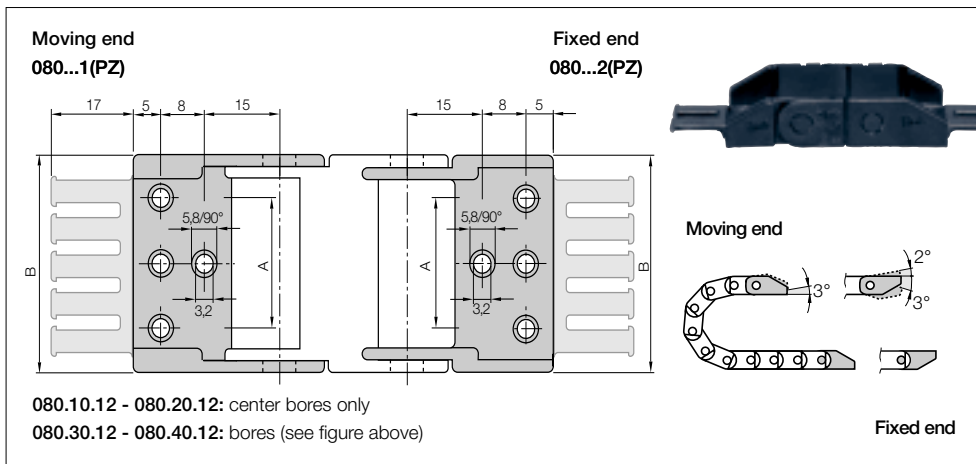
More order examples and configuration options ► page 5.58



Part No. of e-chain® links as single parts ► page 5.11

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

*Delivery time means time until shipping of goods

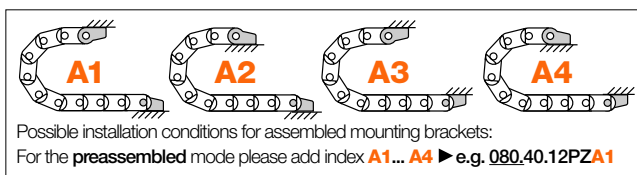


Polymer locking, one-piece | Universal for e-chains®
 Recommended for unsupported applications

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
.10.	080.10. 12PZ	080.10. 12	-	18,2	1
.16.	080.16. 12PZ	080.16. 12	-	24,2	2
.20.	080.20. 12PZ	080.20. 12	-	28,2	2
.30.	080.30. 12PZ	080.30. 12	22	38,2	3
.40.	080.40. 12PZ	080.40. 12	32	48,2	4



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



Part No. structure

080.10.12 PZA1



Full set = 12

Mounting brackets for selected width index

Single-part order

Mounting bracket **Moving end**

080.10.1 PZA1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

080.10.2 PZA1 (preass. + tiewrap plate)

Additional Features




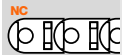
Quicksnap - the complete, detachable mounting unit. **Part Nos.** 080.20.QS, 080.30.QS available from stock



Quickfix - mounting bracket with dowel, available upon request



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

**Standard***NC-Version -
(no camber)
without pretension**Reverse bending
radius for circular
movements**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.
ESD-Material
e-chains®****094.10.R.0****094.10.R.0.NC****094.10.R1/R2.0****094.10.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
5 work days****Order example** | Order key and color options**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:****e-chain®** (1,0 m)

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

094.10.028.0**+ Mounting brackets** 1 set (+ tiewrap plates)**080.10.12PZ****Order text:** 1,0 m **094.10.028.0** + **080.10.12PZ****Order key****094.10.028.0****Black e-chains® from stock!**

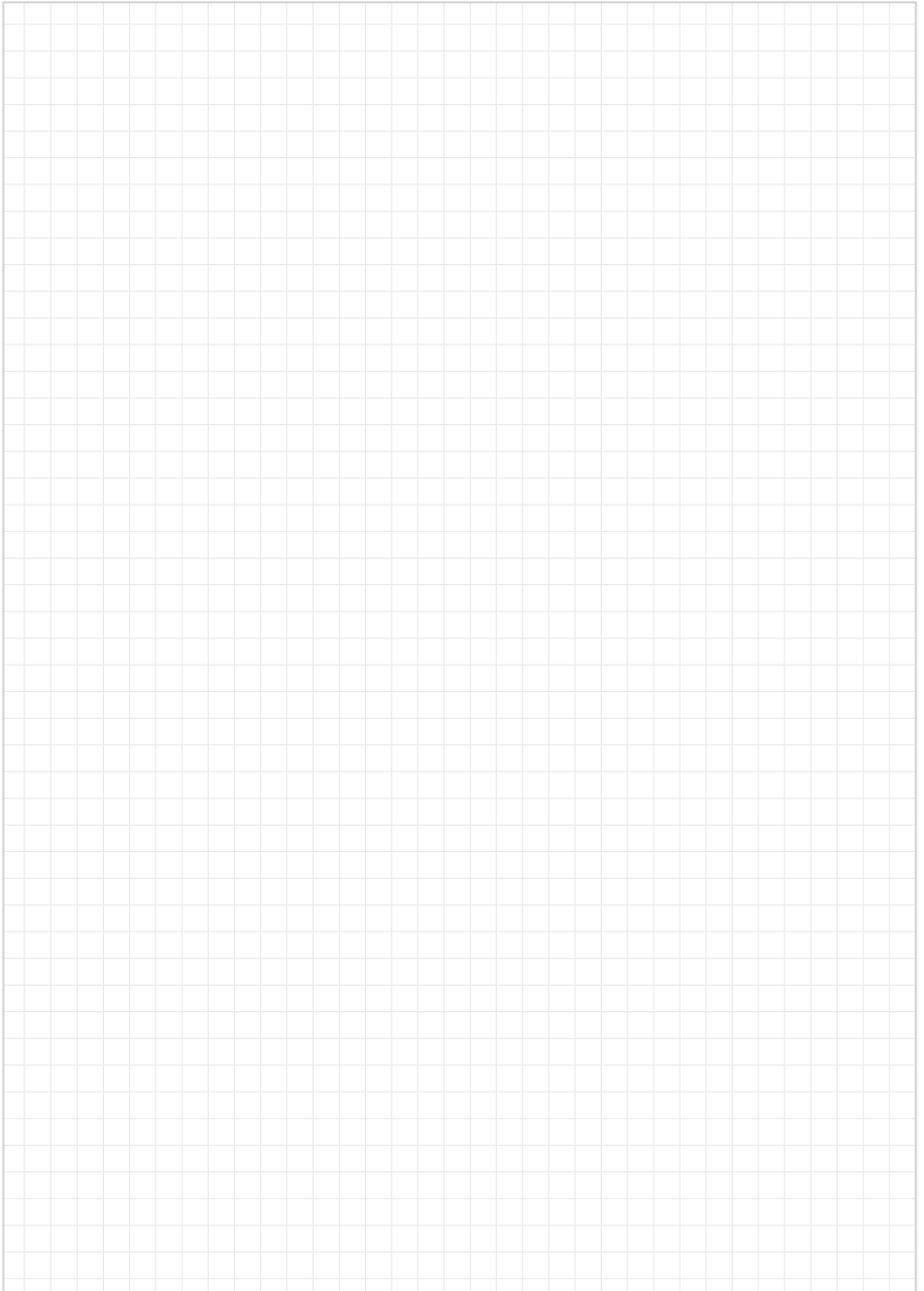
*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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

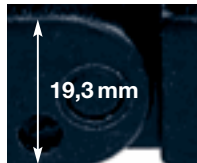
Light and
cost-effective

Dirt-repellent
exterior

Small pitch for
smooth running

One-piece design,
non snap-open

High torsional
rigidity



Original size 1:1
Outer height 19,3 mm

+ Small pitch, high stability

When to use the Series 08 E2 micro:

- If a small e-chain® with an inner height of 15 mm and smallest bending radii are required
- For inner widths up to 64 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- Small pitch, smooth running
- If extra torsional rigidity 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 snap-open links are required
 - ▶ **Series 09 zipper**, page 4.26
 - ▶ **Series B09 E2 micro**, page 5.66
- If quick insertion of cables with preassembled connectors is required
 - ▶ **Series E08 easy chain®**, page 3.28
- If a fully enclosed e-tube is required
 - ▶ **Series R09 zipper-e-tube**, page 4.32

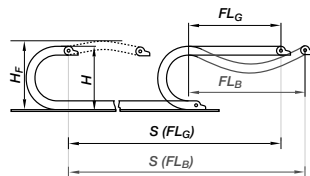
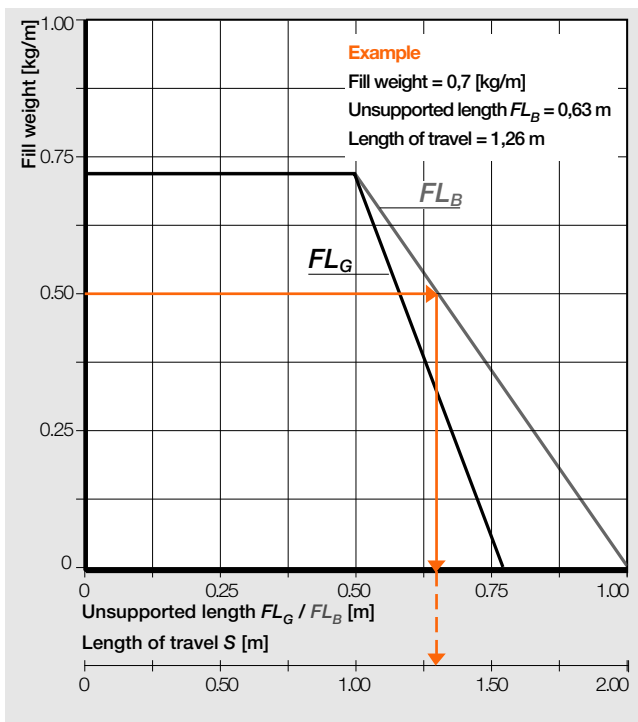


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

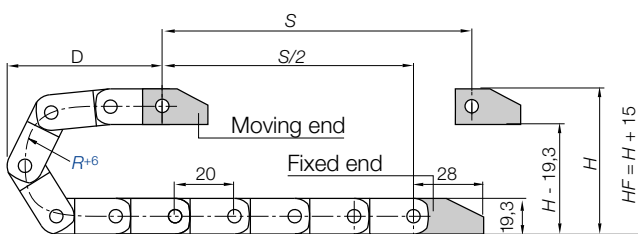


3D-CAD files, configurators, PDF ▶ www.igus.de/en/08



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 5.10**

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

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

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

*Radius 025 only for Part.No. 08.10. and 08.20.

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 08 | 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]
08. 10 .R.0	10	18,2	025 028 038 048	≈ 0,21
08. 13 .R.0	13	21,2	025* 028 038 048*	≈ 0,23
08. 16 .R.0	16	24,2	025* 028 038 048	≈ 0,24
08. 20 .R.0	20	28,2	025 028 038 048	≈ 0,25
08. 30 .R.0	30	38,2	025* 028 038 048	≈ 0,28
08. 40 .R.0	40	48,2	025* 028 038 048	≈ 0,31
08. 50 .R.0	50	58,2	025* 028 038 048	≈ 0,37

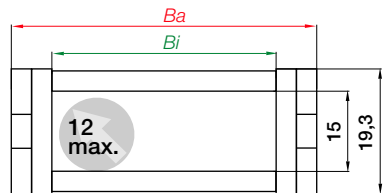
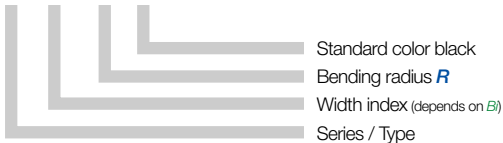
*Radius upon request. Delivery time approx. 1-2 weeks after order.

Supplement Part No. with required radius (*R*). Example: **08.50.038.0**



Order key

08. 50. 038. 0



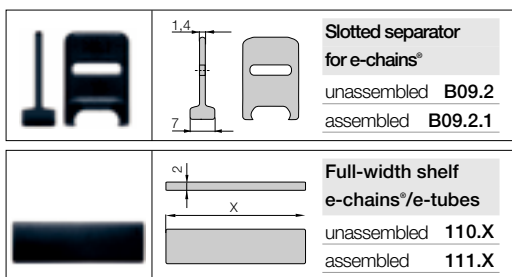
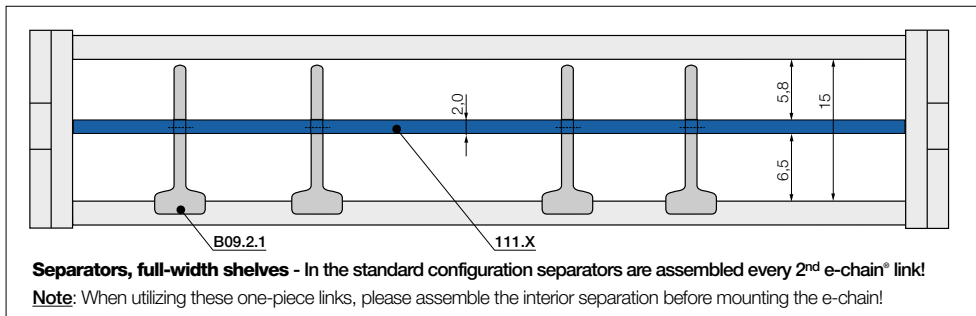
08.50.038.0 = non snap-open e-chain®, *Bi* 50 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.65



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

*Delivery time means time until shipping of goods



Slotted separator B09.2

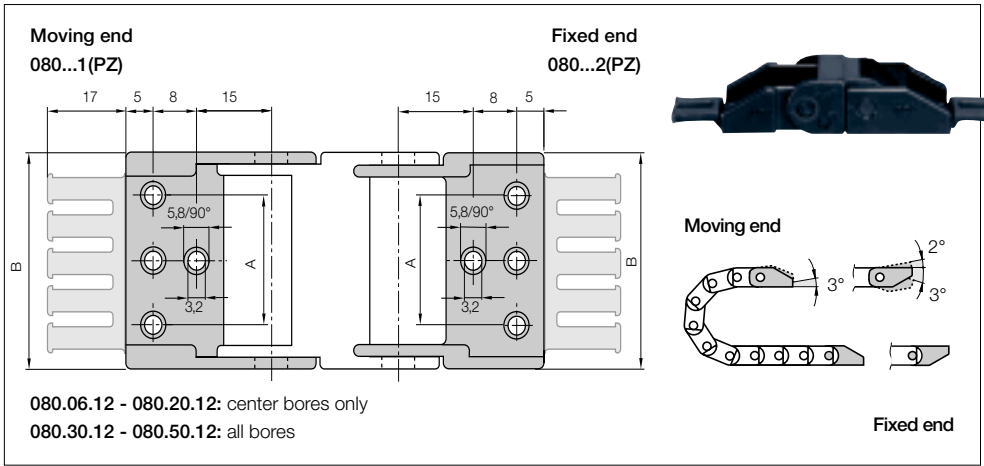
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Full-width shelf 110.X

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

Full-width shelves

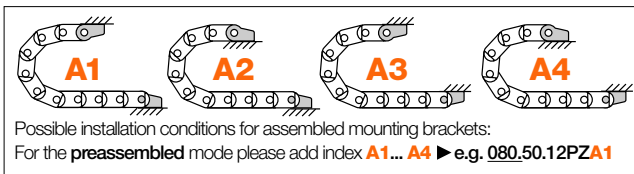
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
010	110.10	111.10	020	110.20	111.20	050	110.50	111.50
013	110.13	111.13	030	110.30	111.30			
016	110.16	111.16	040	110.40	111.40			



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

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.10. ▶	080.10. 12PZ	080.10. 12	–	18,2	1
.13. ▶	080.13. 12PZ*	080.13. 12	–	21,2	–
.16. ▶	080.16. 12PZ	080.16. 12	–	24,2	2
.20. ▶	080.20. 12PZ	080.20. 12	–	28,2	2
.30. ▶	080.30. 12PZ	080.30. 12	22	38,2	3
.40. ▶	080.40. 12PZ	080.40. 12	32	48,2	4
.50. ▶	080.50. 12PZ	080.50. 12	42	58,2	5

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



Additional Features



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



Quickfix - mounting bracket with dowel, available upon request



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



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

Order example

080.50.12 PZ A1



Full set = 12

Mounting brackets for selected width index




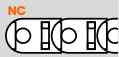




Single-part order

Mounting bracket **Moving end**


080.50.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

080.50.2PZ A1 (preass. + tiewrap plate)

 Standard	<i>NC-Version - (no camber) without pretension</i>	<i>Reverse bending radius for circular movements</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. ESD-Material e-chains® 
 08.50.R.0	08.50.R.0.NC	08.50.R1/R2.0	08.50.R.0.ESD
 Delivery time 24h or today!*	Delivery time 3-5 work days	Delivery time 10 work days <small>(2-5 work days at an express surcharge)</small>	Delivery time 5 work days

Order example | Order key and color options

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

e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 50 links	08.50.038.0
+ Mounting brackets	1 set (+ tiewrap plates)	080.50.12PZ
+ Interior separation	with 2 separators assembled every 2 nd link	2 x B09.2.1

Order text: 1,0 m 08.50.038.0 + 080.50.12PZ + 2 x B09.2.1

 **Order key**
08.50.038.0



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

Lightweight
and stable

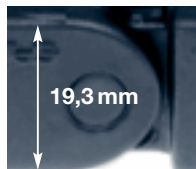
For high
accelerations

Small pitch for
smooth running

Snap-open along outer
radius with film-hinge

High torsional
rigidity

Two-piece
link design



Original size 1:1
Outer height 19,3 mm

+ Snap-open along outer radius

When to use the Series B09 E2 micro:

- If a small e-chain® with an inner height of 14,3 mm and small bending radii are required
- For inner widths up to 40 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- Small pitch, smooth running
- If a low-priced, 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 snap-open links are not necessary
- ▶ **Series 08 E2 micro, page 3.60**
- If a fully enclosed e-tube is required
- ▶ **Series R09 zipper-e-tube, page 4.32**



Open B09 e-chains® in a flash with the e-chain® opener ▶ page 5.9

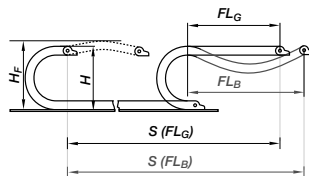
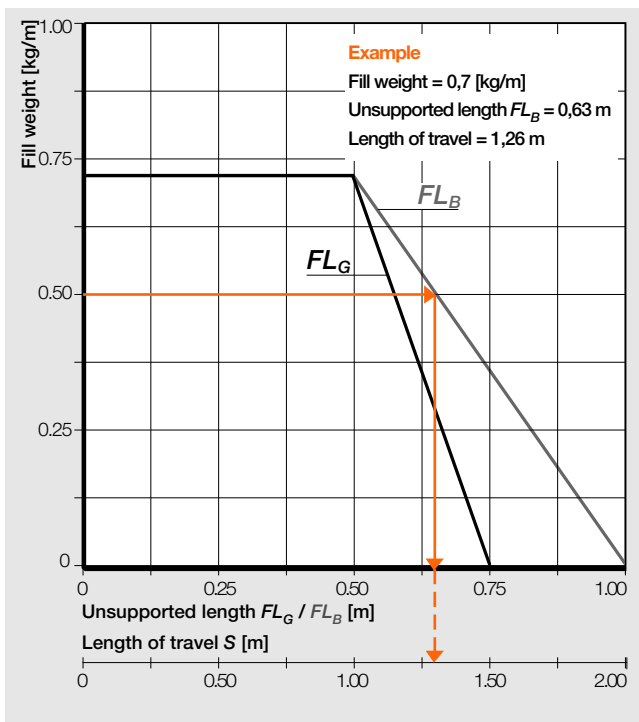


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

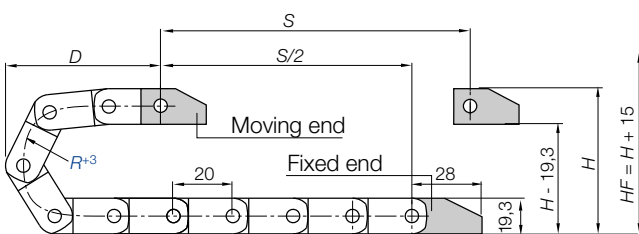


3D-CAD files, configurators, PDF ▶ www.igus.de/en/B09



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 5.10**

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

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

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

- 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 B09 | Two-piece link design, snap-open along outer radius

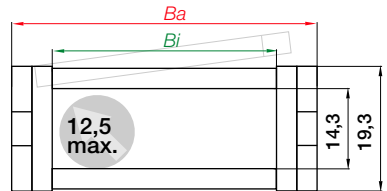
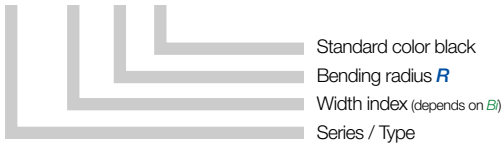
Snap-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
B09.16 . <i>R.0</i>	16	24,2	028 038 048	≈ 0,24
B09.20 . <i>R.0</i>	20	28,2	028 038 048	≈ 0,25
B09.30 . <i>R.0</i>	30	38,2	028 038 048	≈ 0,28
B09.40 . <i>R.0</i>	40	48,2	028 038 048	≈ 0,31

Supplement Part No. with required radius (*R*). Example: **B09.40.038.0**



Order key

B09.40.038.0



B09.40.038.0 = e-chain® snap-open along outer radius, *Bi* 40 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.71

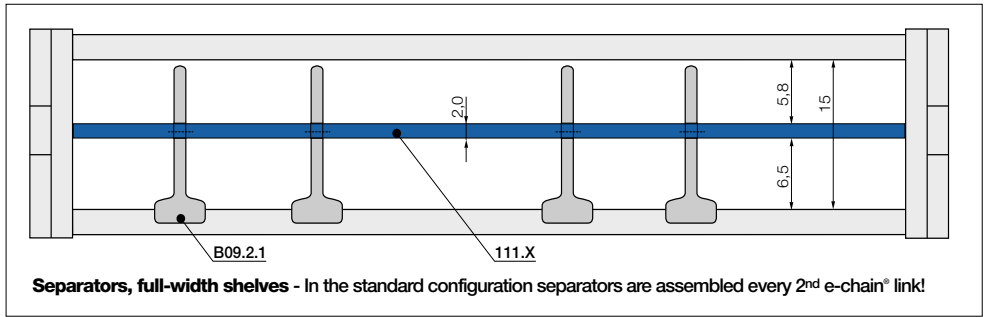


Part No. of e-chain® links as single parts ► page 5.11



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

*Delivery time means time until shipping of goods



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

Slotted separator B09.2

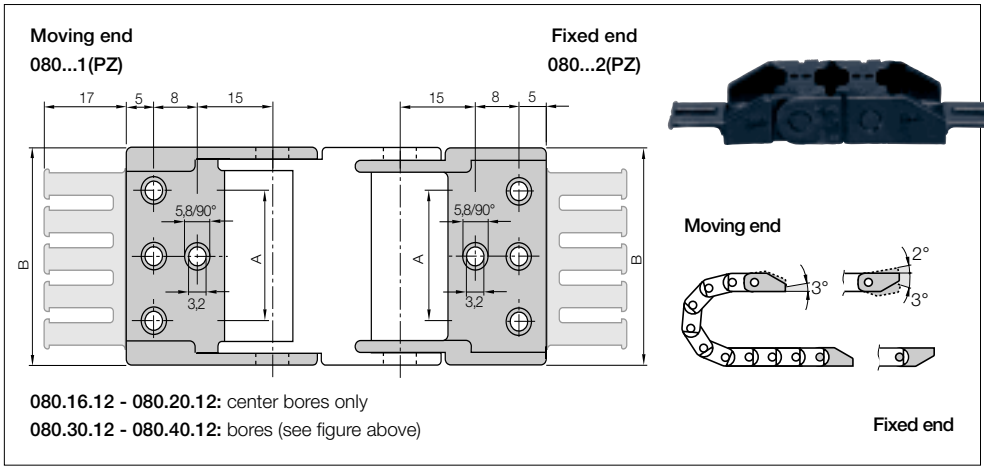
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Full-width shelf 110.X

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

Full-width shelves

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

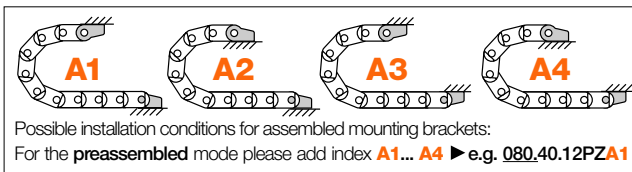


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.16. ▶	080.16. 12PZ	080.16. 12	–	24,2	2
.20. ▶	080.20. 12PZ	080.20. 12	–	28,2	2
.30. ▶	080.30. 12PZ	080.30. 12	22	38,2	3
.40. ▶	080.40. 12PZ	080.40. 12	32	48,2	4

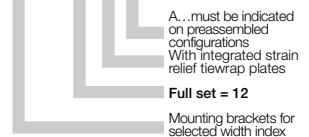


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Part No. structure

080.40.12 PZ A1



Single-part order

Mounting bracket **Moving end**

080.40.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket **Fixed end**

080.40.2 PZ A1 (preass. + tiewrap plate)

Additional Features



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




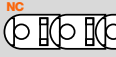






Quickfix - mounting bracket with dowel, available upon request




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

E2 micro | Series B09 | Options and order key

 <p><i>Standard</i></p>	<p><i>NC-Version - (no camber) without pretension</i></p>	<p><i>Reverse bending radius for circular movements</i></p>	<p><i>ATEX / ESD classified e-chains®</i>  II 2 GD</p>
<p>Part No. Standard e-chains®</p> 	<p>Part No. NC-Material e-chains®</p> 	<p>Part No. RBR e-chains®</p> 	<p>Part No. ESD-Material e-chains®</p> 
 <p>B09.40.R.0</p>	<p>B09.40.R.0.NC</p>	<p>B09.40.R1/R2.0</p>	<p>B09.40.R.0.ESD</p>
 <p>Delivery time 24h or today!*</p>	<p>Delivery time 3-5 work days</p>	<p>Delivery time 10 work days <small>(2-5 work days at an express surcharge)</small></p>	<p>Delivery time 5 work days</p>

Order example | Order key and color options

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

e-chain® (1,0 m) Please indicate e-chain® length or number of links: 1,0 m or 50 links **B09.40.038.0**

+ Mounting brackets 1 set (+ tiewrap plates) **080.40.12PZ**

+ Interior separation with 2 separators assembled every 2nd link **2 x B09.2.1**

Order text: 1,0 m B09.40.038.0 + 080.40.12PZ + 2 x B09.2.1















 **Order key
B09.40.038.0**



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





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



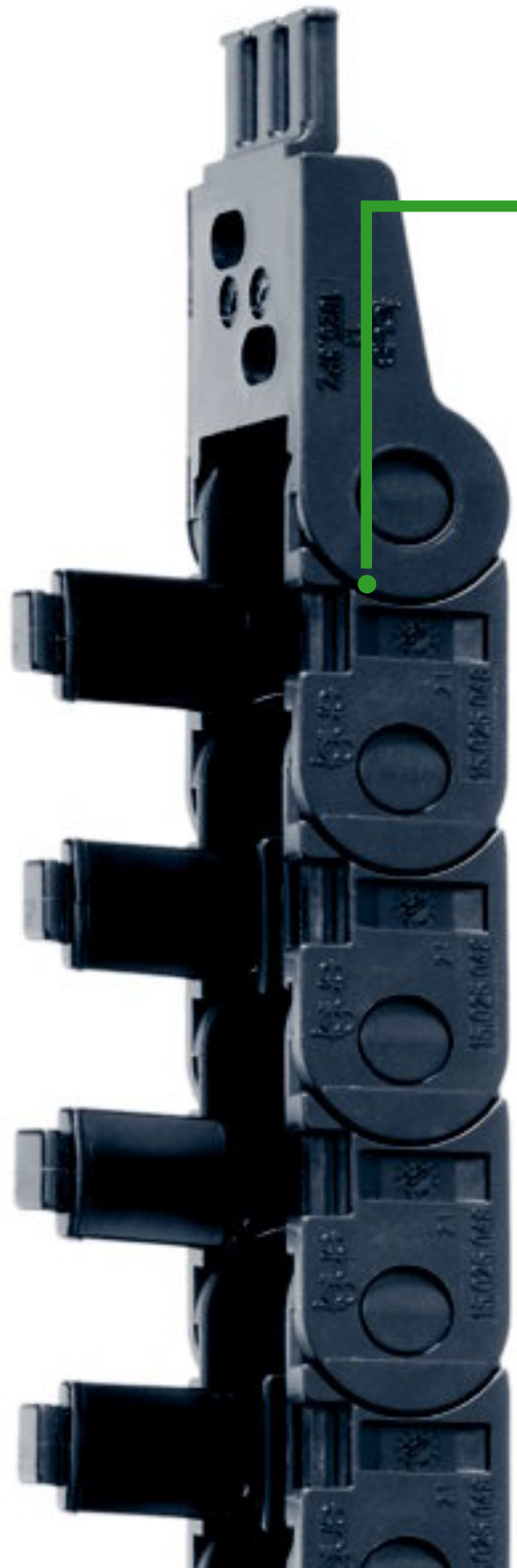
Cleanroom Class 1 (ISO class 3) for Series 10 and 14, tested by the Dryden Engineering Company, California



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

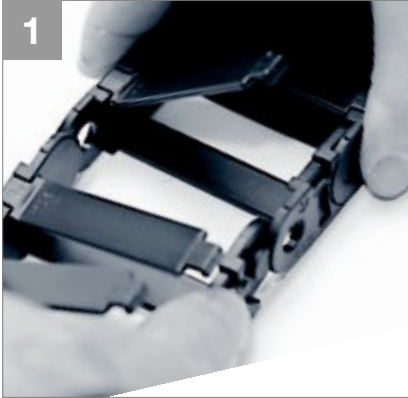


**E2 mini -
Two-piece e-chains®**
Snap-open along outer radius

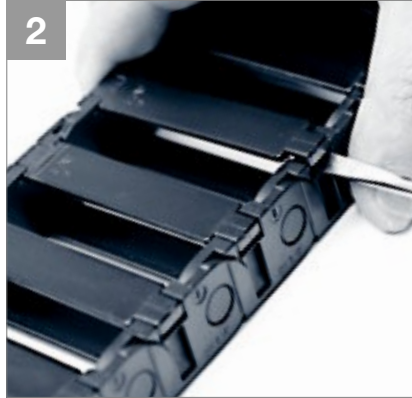
B15i	17	15 - 100	26 - 113	23	038 - 180	1,20	5.112
B17i	32	38	48,5	39	048 - 075	1,00	5.120



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



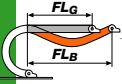
Assembly video available online at ► www.igus.de/en/video

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

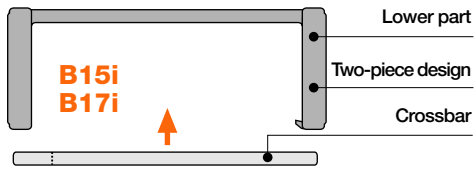
■ FL_G = with straight upper run ■ FL_B = with permitted sag


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

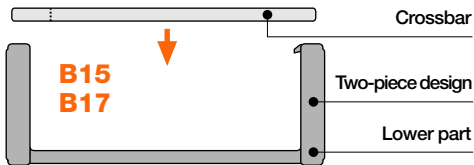
 Part No. one- and two-piece e-chain® links as single parts - System E2 mini


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> 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

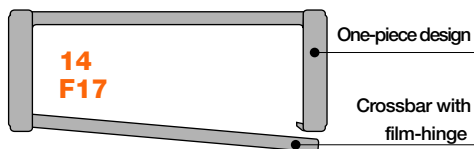



 e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**
B15	170. <i>Bi</i>	B15. <i>Bi</i> 00. <i>R</i>
B17	170. <i>Bi</i>	B17. <i>Bi</i> 00. <i>R</i>

* 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

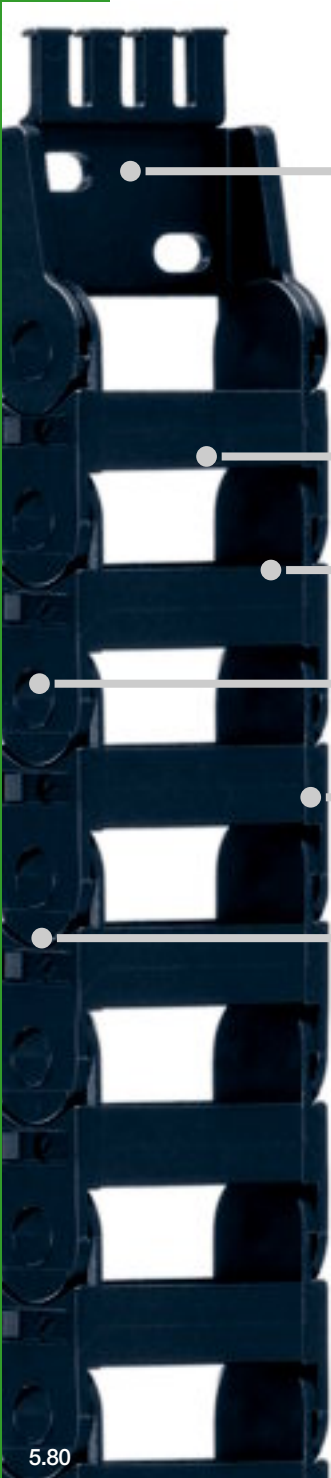
One-piece design, non snap-open



 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

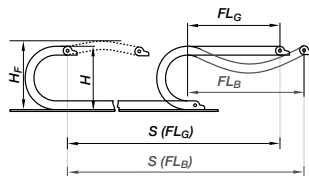
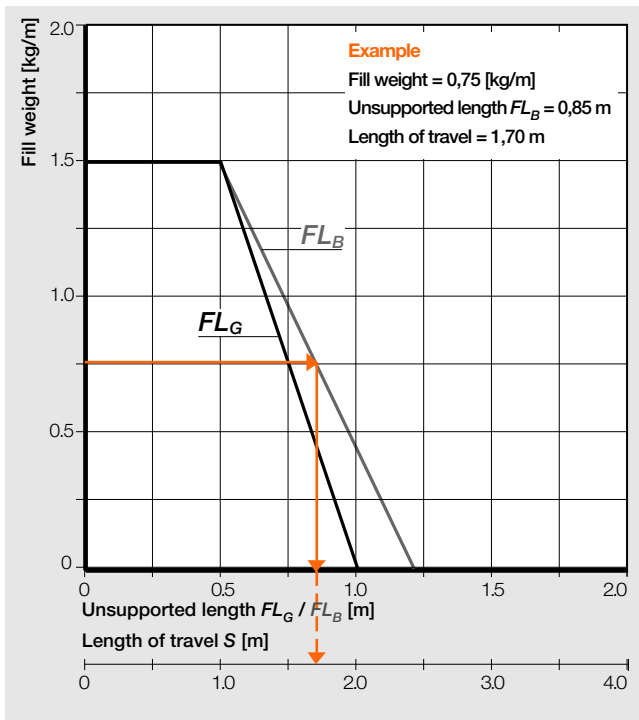


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



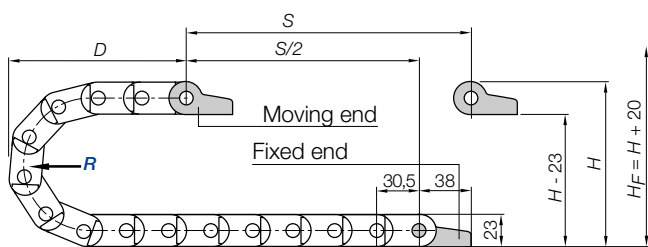
Standard **Unsupported applications**

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®

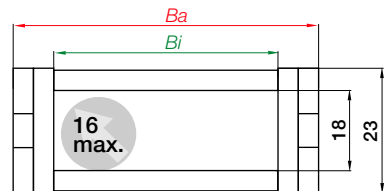
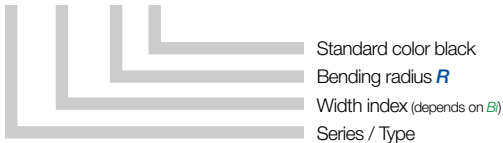
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
10. 015 . <i>R</i> .0	15	26	028 038 048 075 100 110 125 145 180	≈ 0,35
10. 025 . <i>R</i> .0	25	36	028 038 048 075 100 110 125 145 180	≈ 0,40
10. 038 . <i>R</i> .0	38	49	028 038 048 075 100 110 125 145 180	≈ 0,46
10.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



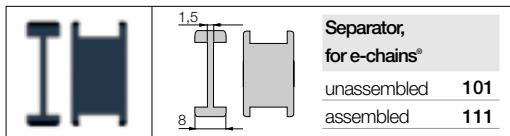
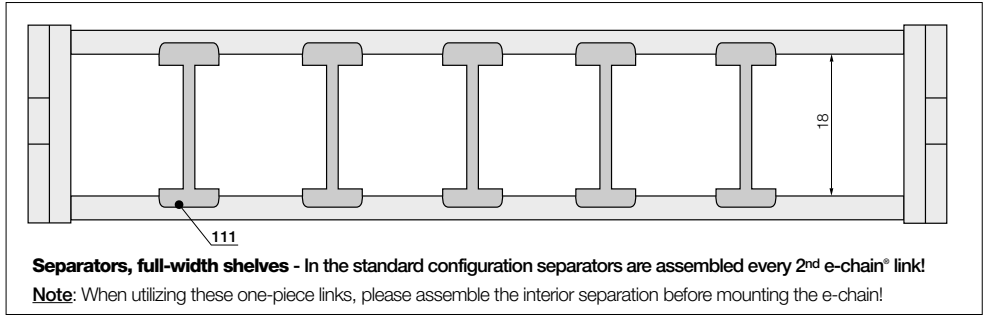
10.025.038.0 = non snap-open e-chain®, *Bi* 25 mm inner width, *R* 038 mm radius, color black

More order examples and configuration options ► page 5.87



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

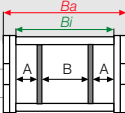
*Delivery time means time until shipping of goods



Separator 101

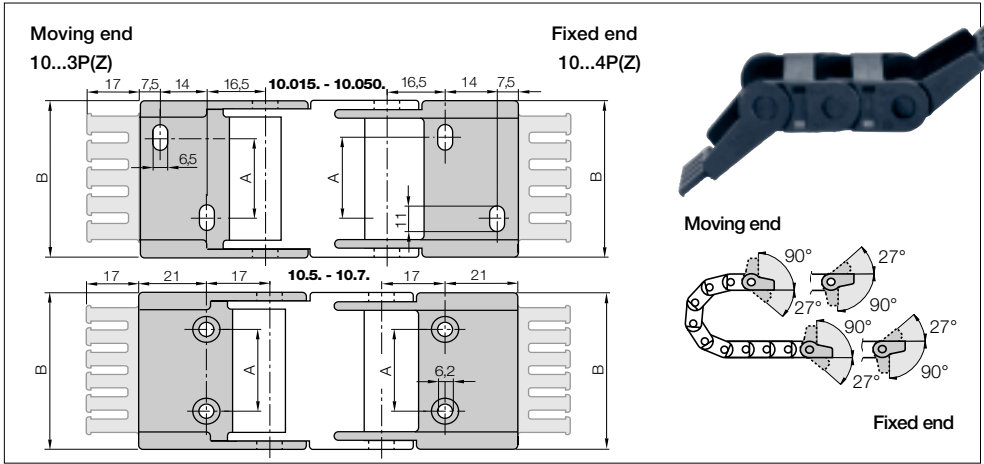
For a simple vertical subdivision on e-chains®. Separators can be arranged anywhere in the e-chain® cross-section.

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

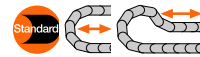
Supplement Part No. with required radius (*R*). Example: 10.038.075.0.S or 10.050.075.0.S

For tight installation conditions

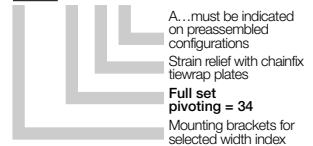
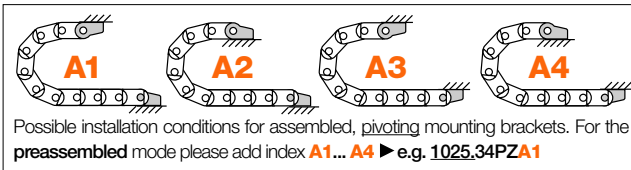
**Polymer pivoting, one-piece | Standard**

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

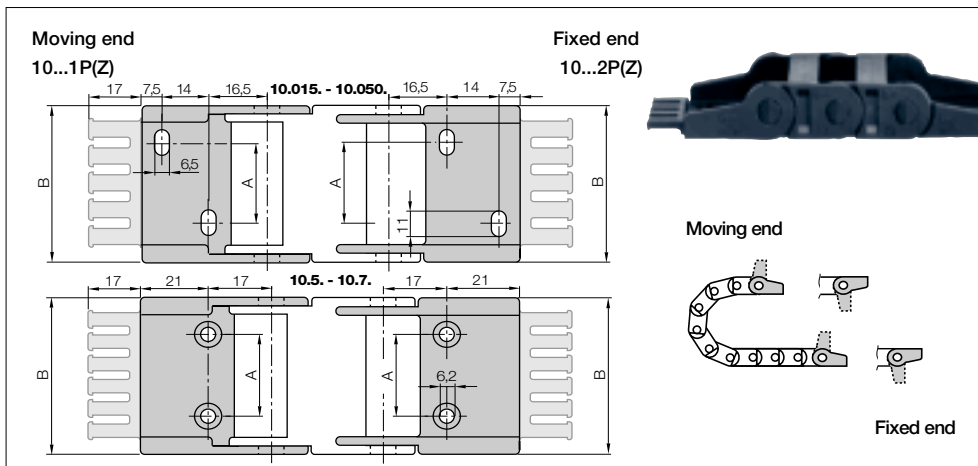


- Standard
- For tight installation conditions
- Strain relief with detachable tiewrap plates
- Variable traverse angle
- Corrosion-resistant
- Various installation options on the fixed end and/or the moving end

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



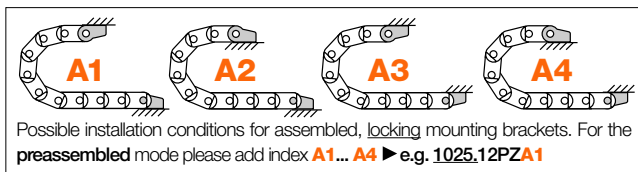
Single-part order

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

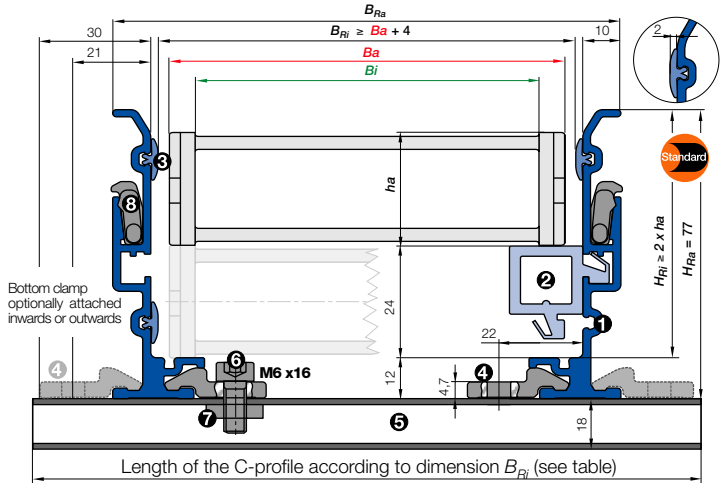
Aluminum "SuperTrough" | Basic Version

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
.050	65	960.30.175
.5	80	960.30.125
.5	80	960.30.175
.6	98	960.30.150
.6	98	960.30.200
.7	117	960.30.175
.7	117	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 $B_{Ri} = 80$**

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)

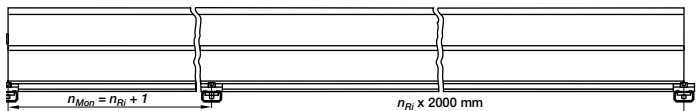
Order text: 17 installation sets **Part No. 960.30.125**

Module for the fixed end ► page 9.16

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_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

 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® 
 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 <small>(2-5 work days at an express surcharge)</small>	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!

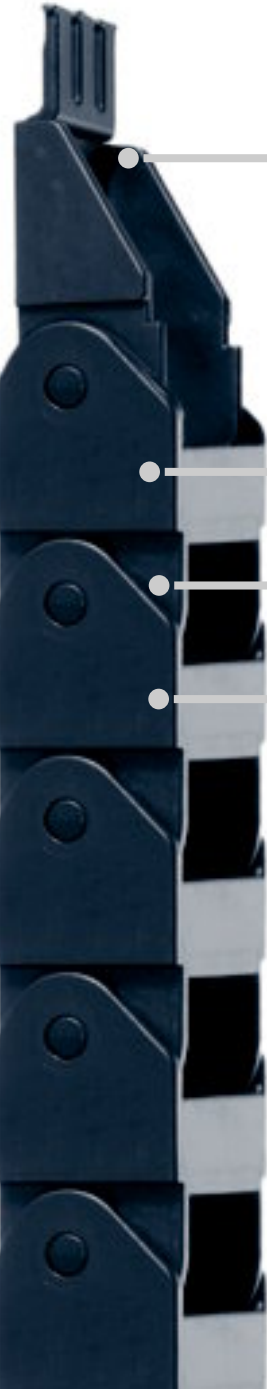
*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

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**

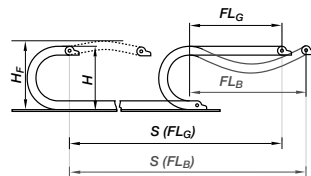
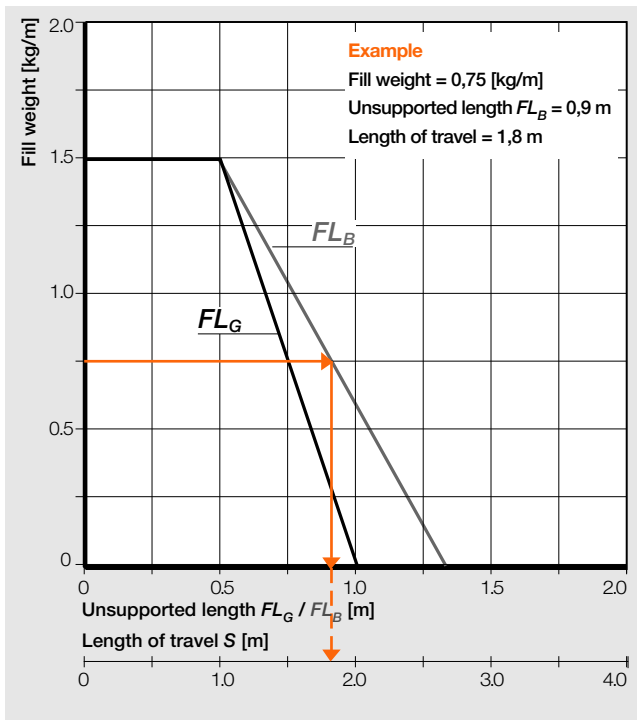


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



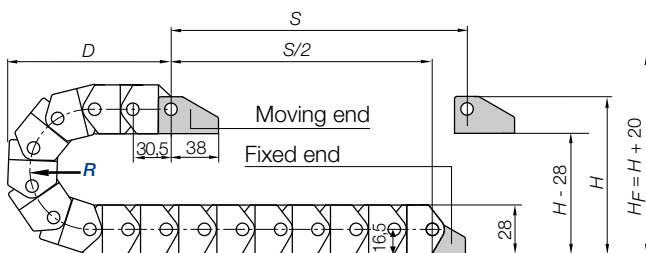
Standard **Unsupported applications**

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	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)

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

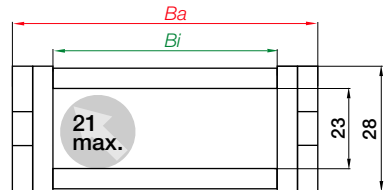
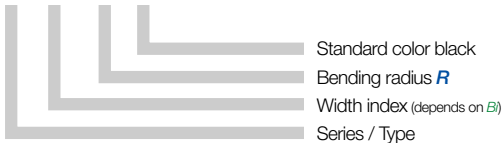
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
11.031.R.0	31	41,2	045 070	≈ 0,43

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



Order key

11.031.045.0



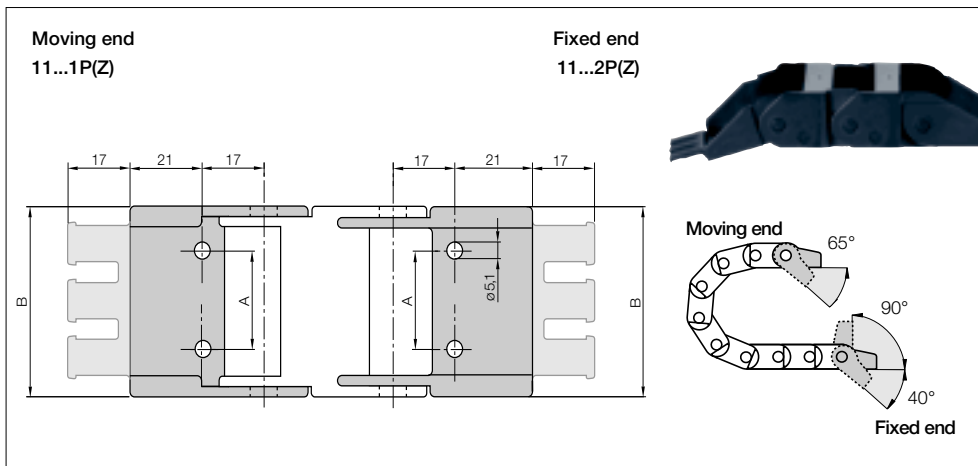
11.031.045.0 = non snap-open e-chain®, *Bi* 31 mm inner width, *R* 045 mm radius, color black

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

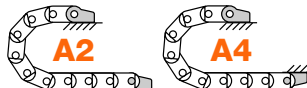


Polymer pivoting, one-piece | Universal for e-chains®
 Recommended for unsupported applications

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



- 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

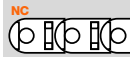
Unsupported
lengths +25%
possible

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](#)

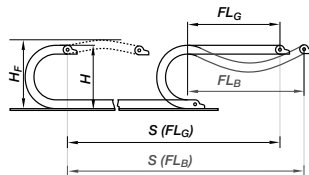
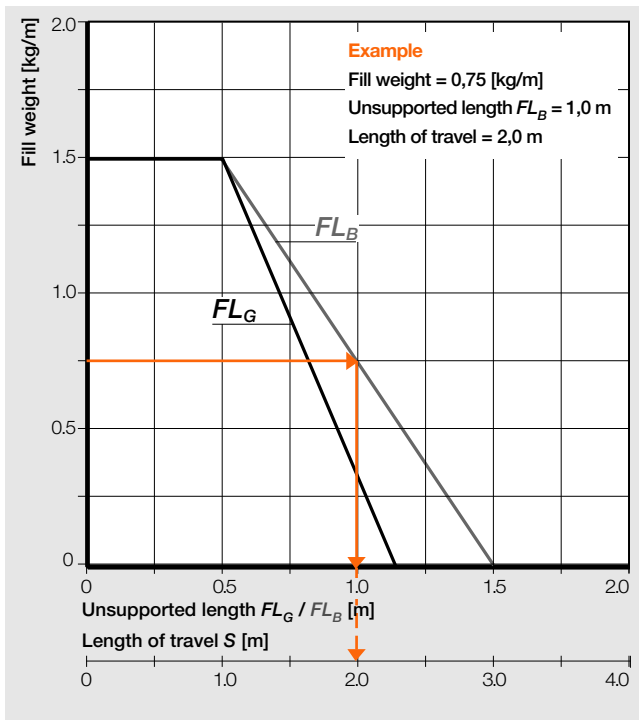


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods

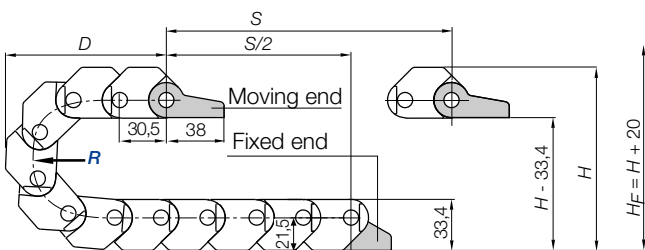


3D-CAD files, configurators, PDF ▶ www.igus.de/en/11.080



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** = $S/2 + K$

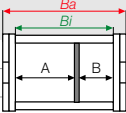
R	038
H	119
D	105
K	185

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

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



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

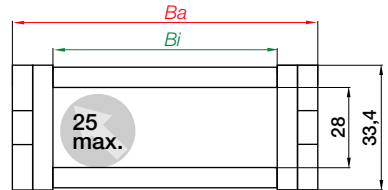
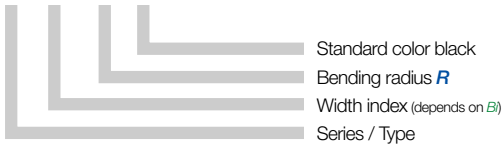
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]		Side compartment Dim. A [mm]	Middle compartment Dim. B [mm]	Weight [kg/m]
11.080 . <i>R</i> .0	80	93	038		46	32	≈ 0,73

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



Order key

11.080.038.0



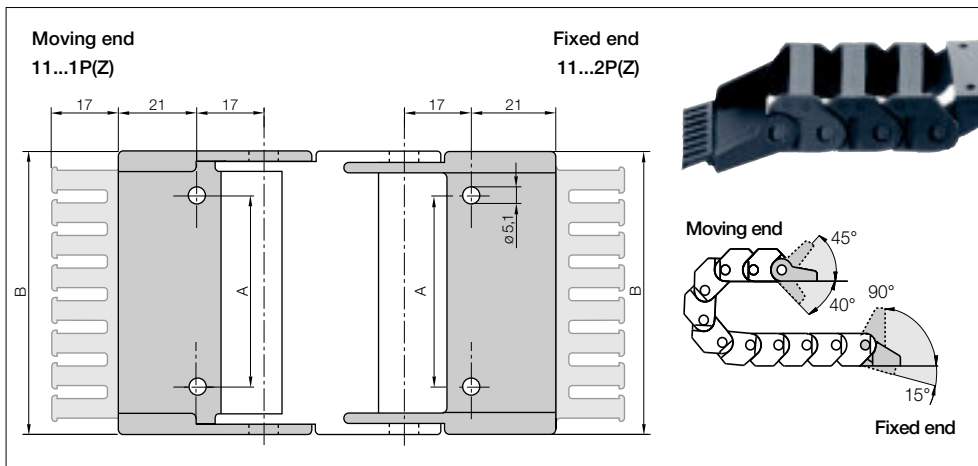
11.080.038.0 = non snap-open e-chain®, *Bi* 80 mm inner width, *R* 038 mm radius, color black

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



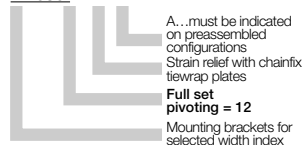
- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible

A2

Possible installation conditions for assembled mounting brackets: For the **preassembled** mode please add index **A2**
▶ e.g. **11.080.12PZA2**

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

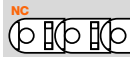
Unsupported
lengths +25%
possible

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!)

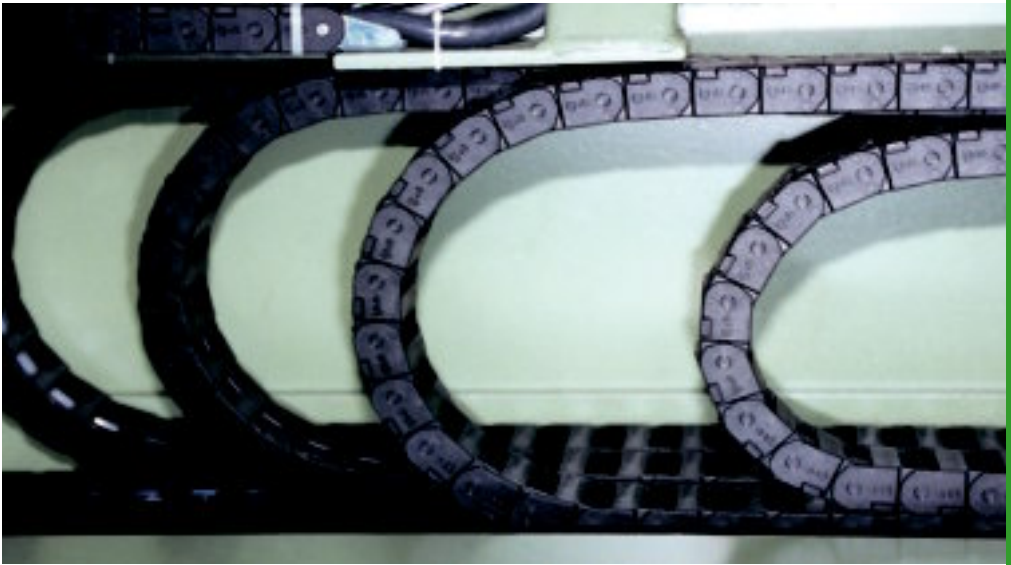
Color options for e-chains® and e-tubes

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**

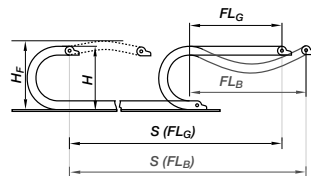
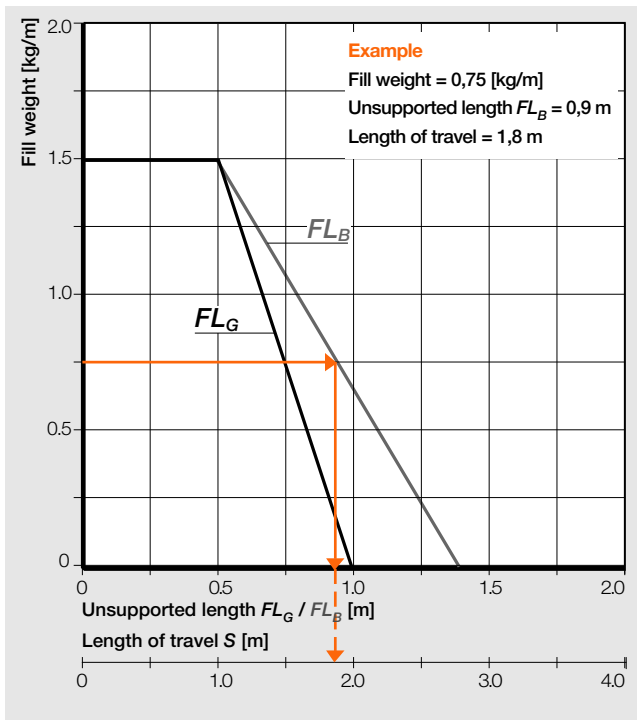


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



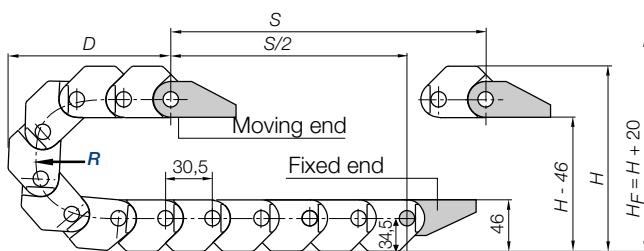
Standard **Unsupported applications**

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



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

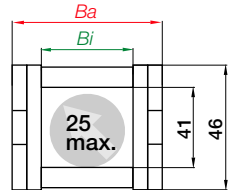
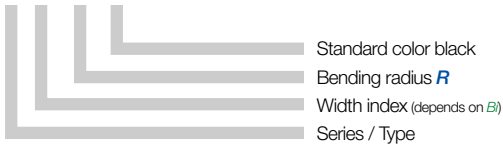
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
11.1 . <i>R</i> .0	15	25,5	040 063 075 100	≈ 0,50
11.2 . <i>R</i> .0	25	35,5	040 063 075 100	≈ 0,53

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



Order key

11.1.040.0



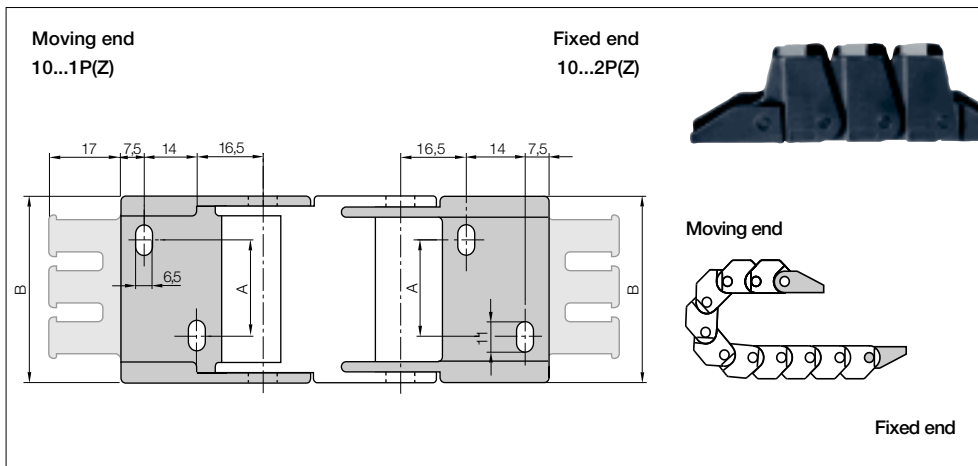
11.1.040.0 = non snap-open e-chain®, *Bi* 15 mm inner width, *R* 040 mm radius, color black

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

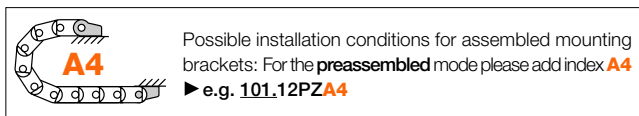


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

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



Standard

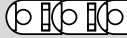
Part No.
Standard
e-chains®



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!)

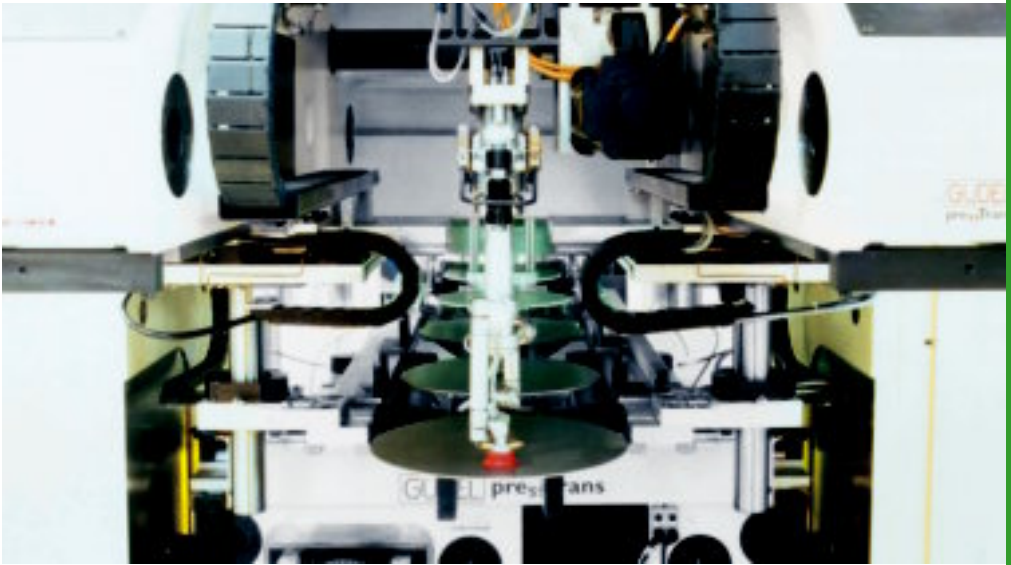
Color options for e-chains® and e-tubes

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**

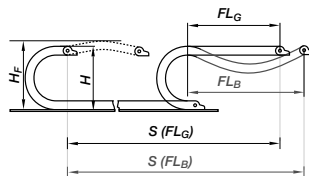
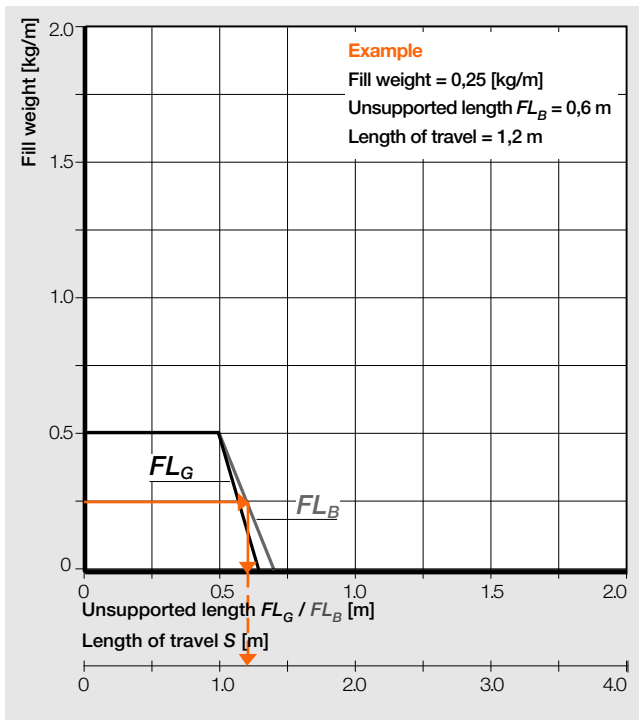


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



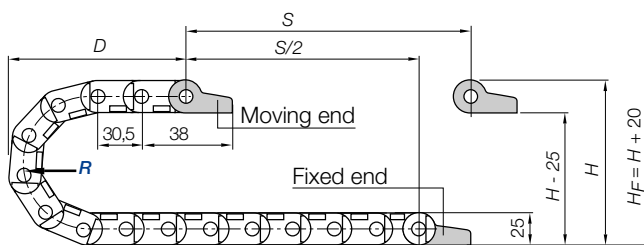
Standard **Unsupported applications**

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

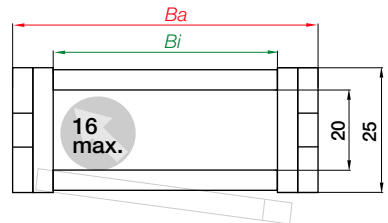
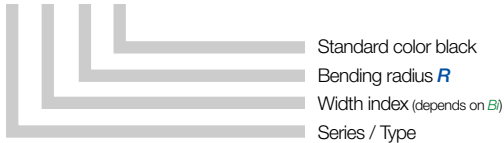
Snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
14.1. <i>R</i> .0	15	26	028 038 048 075 100 125	≈ 0,31
14.2. <i>R</i> .0	25	36	028 038 048 075 100 125	≈ 0,32
14.3. <i>R</i> .0	38	49	028 038 048 075 100 125	≈ 0,40
14.4. <i>R</i> .0	50	61	028 038 048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

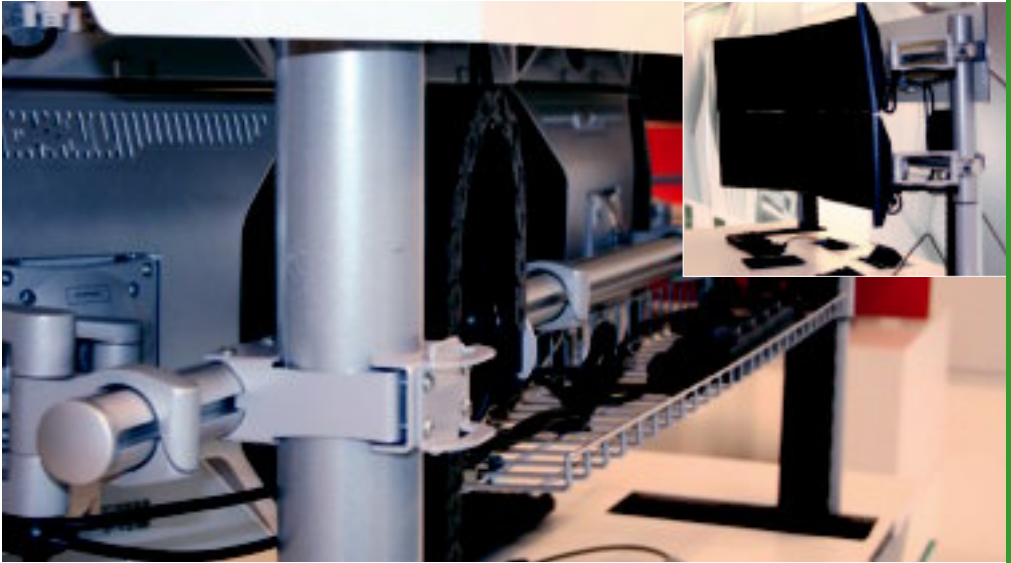
Color options for e-chains® and e-tubes

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

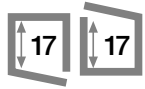


Available from stock. Delivery in 24h or today!*

*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**

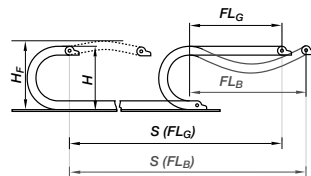
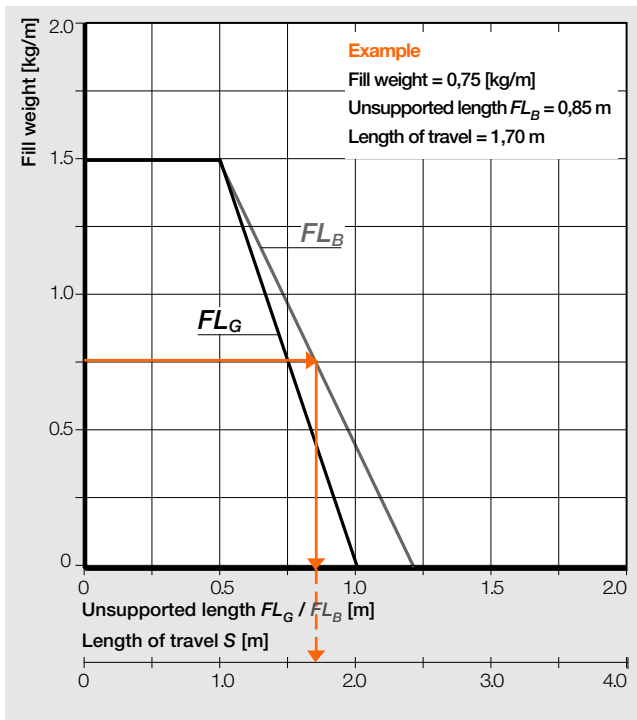


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



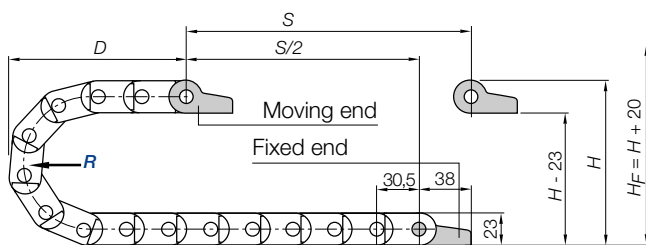
Standard **Unsupported applications**

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**

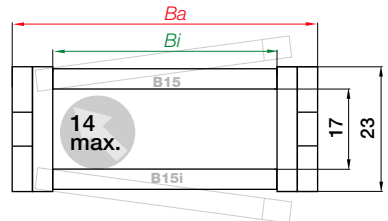
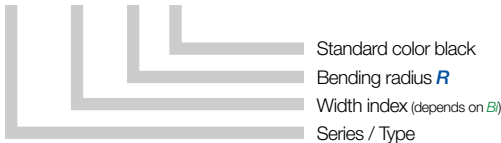
Snap-open along inner radius	Snap-open along outer radius 	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]											B15i [kg/m]	B15 [kg/m]
B15i.015.R.0	B15.015.R.0	15	26	038 048 075 100 110 125 145 180	≈ 0,35	≈ 0,35										
B15i.025.R.0	B15.025.R.0	25	36	038 048 075 100 110 125 145 180	≈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

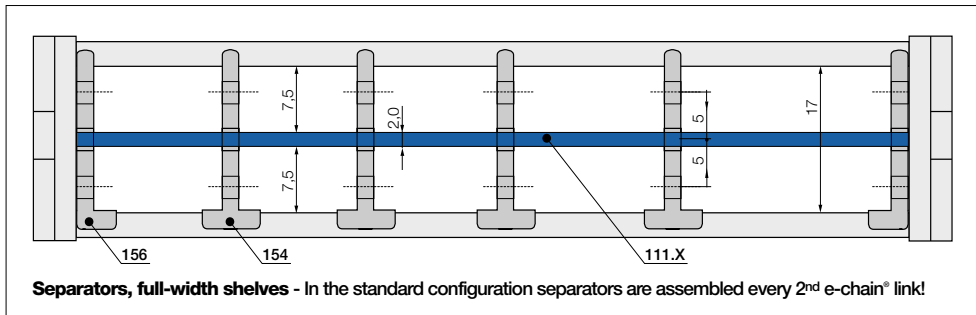


Part No. of e-chain® links as single parts ► page 5.79



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

*Delivery time means time until shipping of goods



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

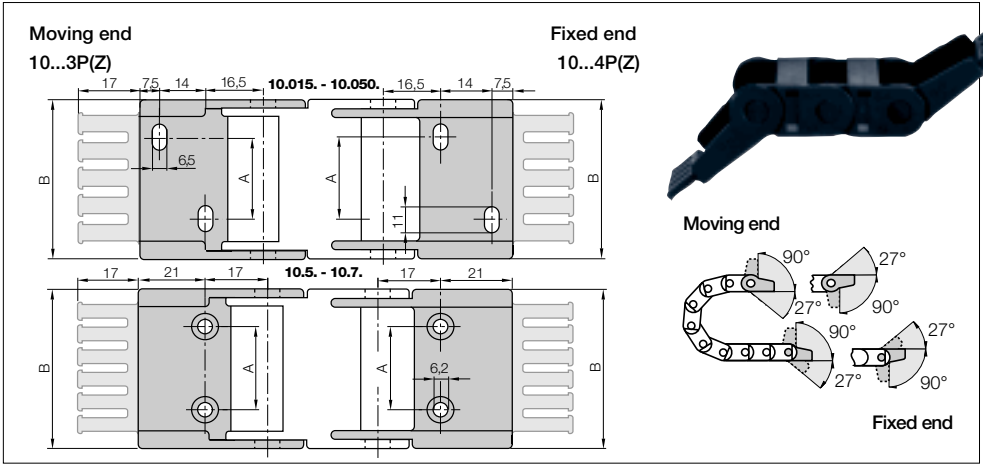
this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

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

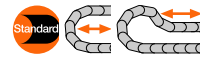
For tight installation conditions



Polymer pivoting, one-piece | Standard

Recommended for unsupported and gliding applications

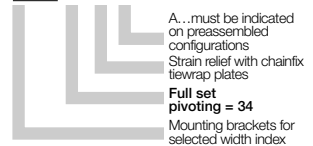
Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
015.	▶ 1015.34PZ	1015.34P	–	25,5	2
025.	▶ 1025.34PZ	1025.34P	10	35,5	3
038.	▶ 1038.34PZ	1038.34P	23	48,5	4
050.	▶ 1050.34PZ	1050.34P	35	60,5	5
5.	▶ 105. 34PZ	105. 34P	48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



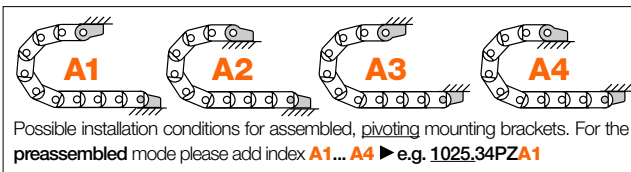
Single-part order

Mounting bracket **Moving end**

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

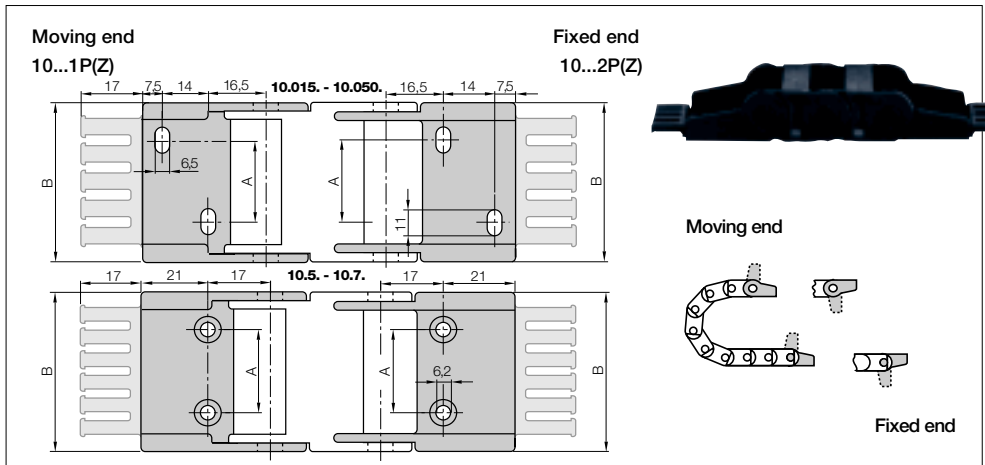
Mounting bracket **Fixed end**

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



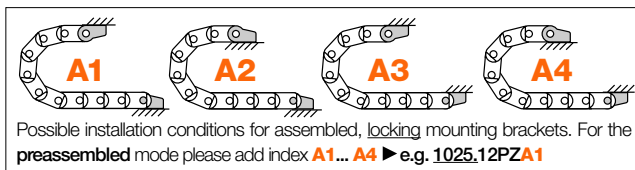
Single-part order

Mounting bracket Moving end

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

Mounting bracket Fixed end

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



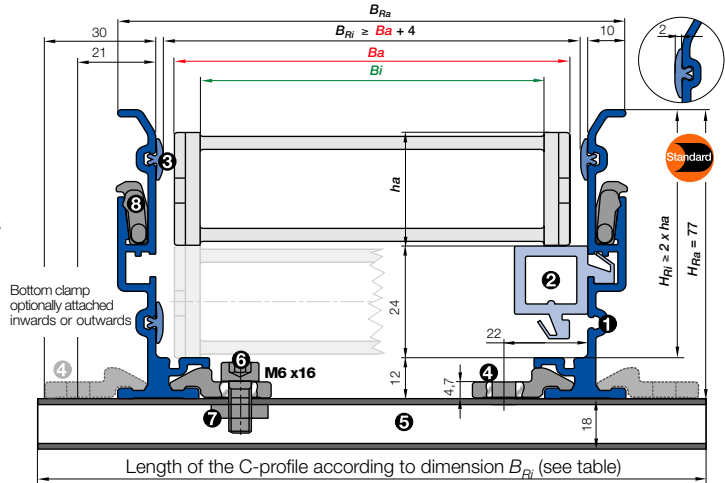
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

B15.025.038.0 ▶ Order example

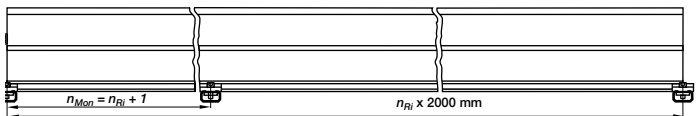
B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.015	30	960.30.125
.025	40	960.30.150
.038	53	960.30.150
.050	65	960.30.125
.050	65	960.30.175
.5	80	960.30.125
.5	80	960.30.175
.6	98	960.30.150
.6	98	960.30.200
.7	117	960.30.175
.7	117	960.30.225









- **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 $B_{Ri} = 40$**




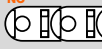





- Guide trough set **without glide bar** (set of 2 trough side parts, incl. glide strips)
Order text: 16 m guide trough without glide bar (8 x 2 m sections) **Part No. 970.30.SL**
- Guide trough set **with glide bar** (set of 2 trough side parts, incl. glide strips)
Order text: 16 m guide trough with 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

 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® 
 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 <small>(2-5 work days at an express surcharge)</small>	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 2 nd link	2 x 154
Order text: 1,0 m B15.025.038.0 + 1025.34PZ + 2 x 154		

 **Order key
B15.025.038.0**

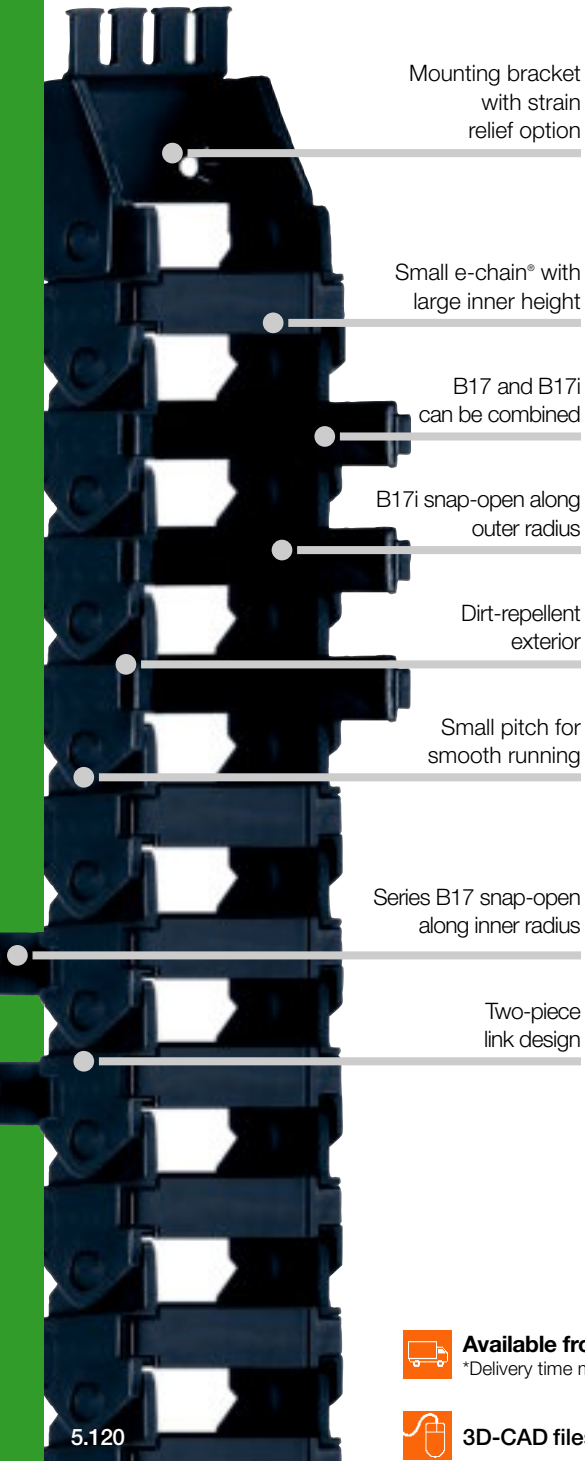


Black e-chains® from stock!
*Colored e-chains® delivered in 15 work days (Delivery in 5 work days at an express surcharge, available upon request!)

Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
 black	.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

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**

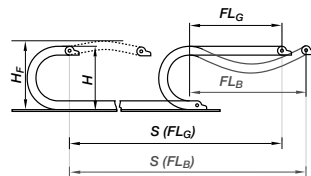
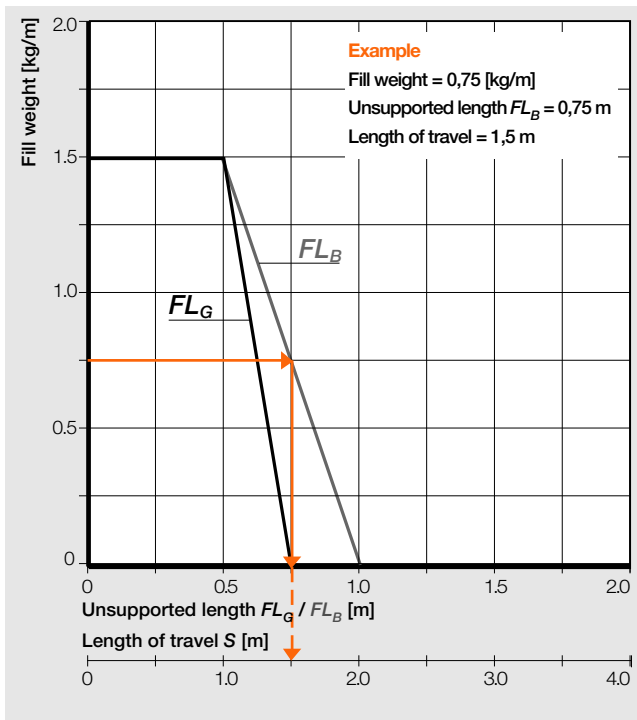


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



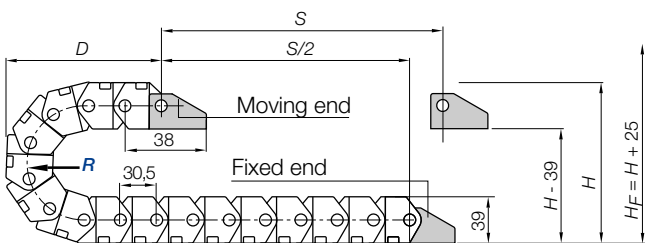
Standard **Unsupported applications**

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 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.

i FL_G = with straight upper run S = Length of travel H = Nominal clearance height D = Overlength e-chain¹⁾, 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 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.

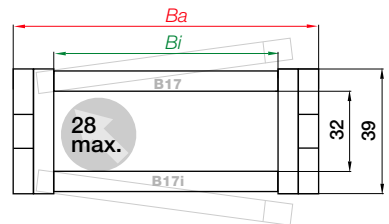
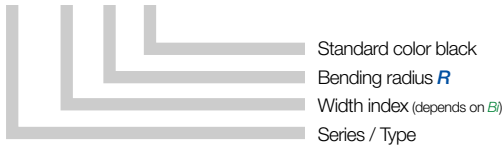
²⁾ For Series B17i - Radii 063, 100, 125 upon request. Delivery time approx. 2-3 weeks after order.

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



Order key

B17. 2. 048. 0



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

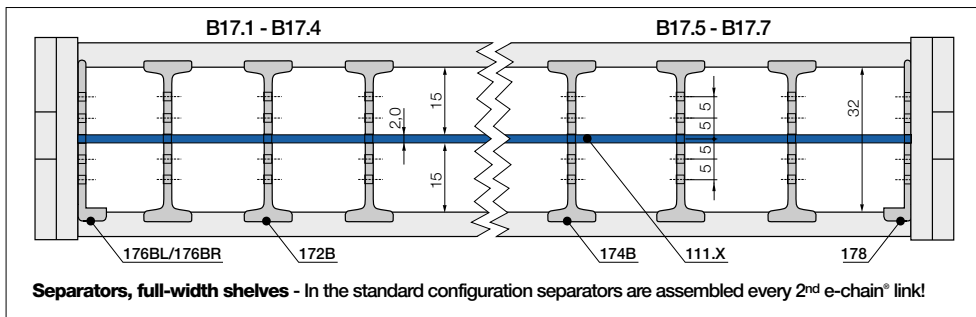


Part No. of e-chain® links as single parts ► page 5.79



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**

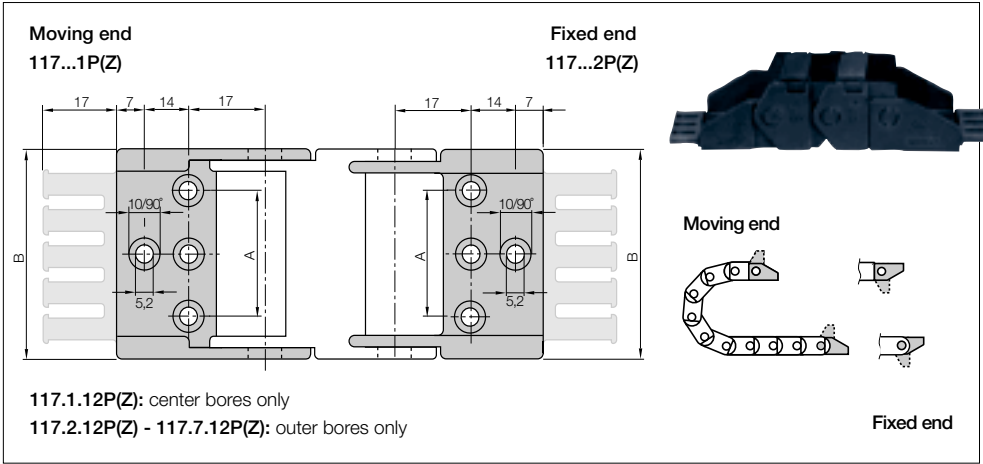
Side plate 177 (B17.5 up to B17.7) Side plate for use with full-width shelf 110.X and slotted separator 173B.

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

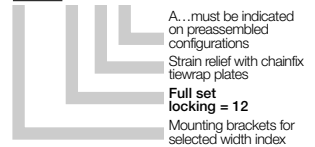
Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
1.	▶ 117.1.12PZ	117.1.12P	–	25,5	2
2.	▶ 117.2.12PZ	117.2.12P	12	35,5	3
3.	▶ 117.3.12PZ	117.3.12P	25	48,5	4
4.	▶ 117.4.12PZ	117.4.12P	37	60,5	5
5.	▶ 117.5.12PZ	117.5.12P	48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



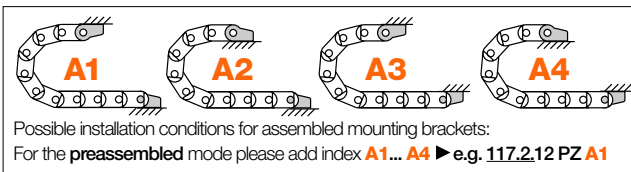
Single-part order

Mounting bracket **Moving end**

117.2.1 PZ A1 (preass. + tiewrap plate)




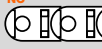





Mounting bracket **Fixed end**

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 <small>(2-5 work days at an express surcharge)</small>	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 2 nd 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

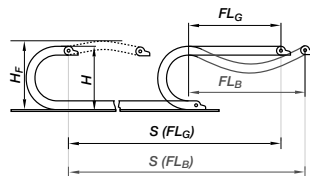
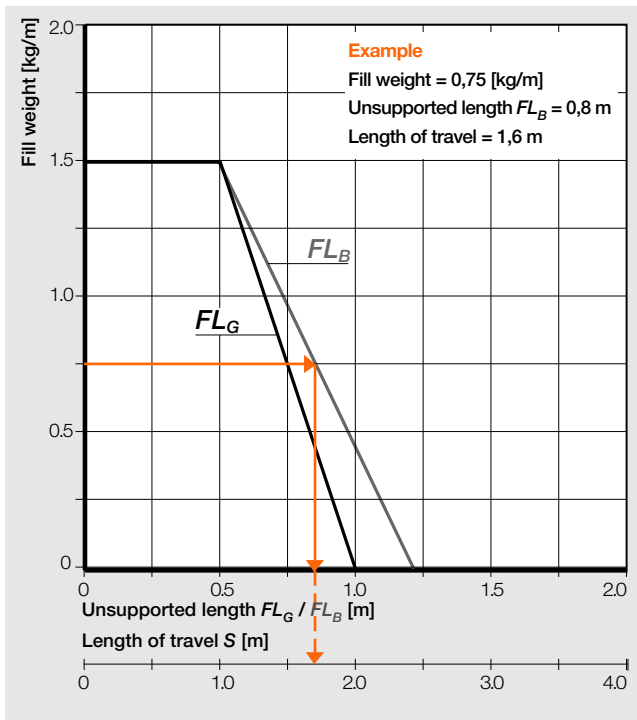


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



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



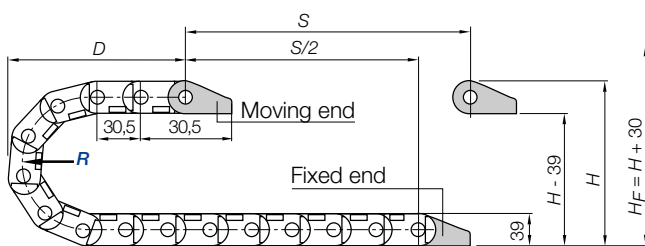
Standard **Unsupported applications**

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

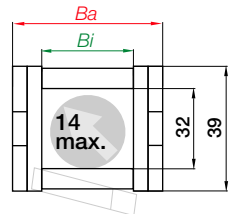
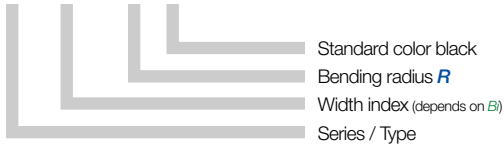
* Radii 063, 075, 100, 125 upon request. Delivery time approx. 4-6 weeks after order.

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

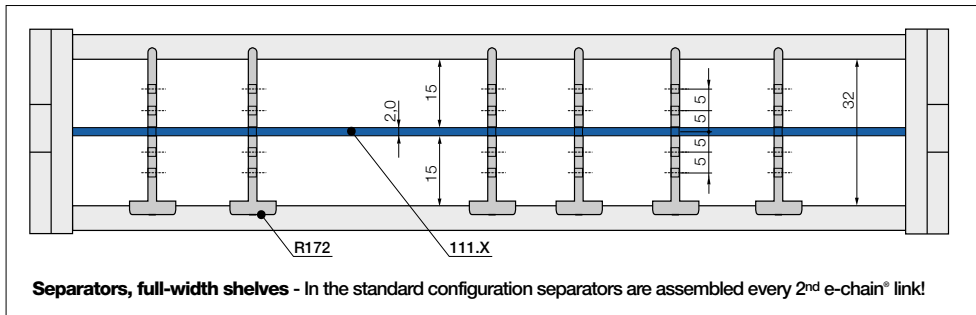


Part No. of e-chain® links as single parts ► page 5.79



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

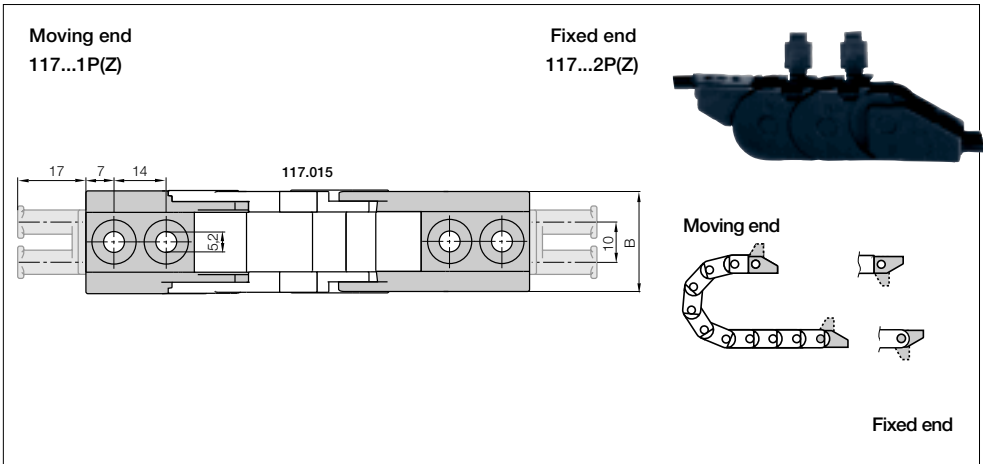
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

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

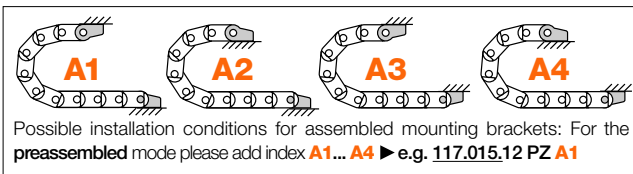


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with 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

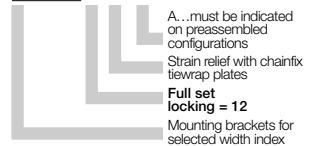


- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Various installation options on the fixed end and/or the moving end
- Inner and outer attachment possible



Order example

117.015.12 PZ A1



Single-part order

Mounting bracket **Moving end**

117.015.1 PZ A1 (preass. + tiewrap plate)



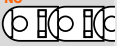





Mounting bracket **Fixed end**

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

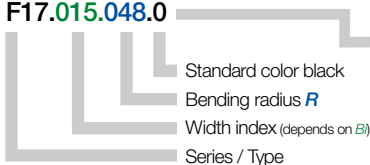
<p> Standard</p> <p>Part No. Standard e-chains®</p> 	<p>NC-Version - (no camber) without pretension</p> <p>Part No. NC-Material e-chains®</p> <p>NC</p> 	<p>Unsupported lengths +25% possible</p> <p>Part No. XXL-Material* e-chains®</p> 	<p>ATEX / ESD classified e-chains®</p>  <p>Part No. ESD-Material e-chains®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

Order example | Order key and color options

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

e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 33 links	F17.015.048.0
+ Mounting brackets	1 set (+ tiewrap plates)	117.015.12PZ
+ Interior separation	with 2 separators assembled every 2 nd 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



Allrounder - e-chains[®] and
e-tubes, medium sizes

E2/000



25000.05

1.1

SPD

E2/000 - with 2-piece link-design for a wide range of applications

E2/000 - the standard

The E2/000 Series is igus® fourth generation in this popular size range. All past experiences went into this Millennium Series: easy and versatile assembly combined with ruggedness - high stability paired with quieter motion - long cable life and many fixation options. The design is consistent within all E2/000 variations. It is the standard product for machine builders around the world.

Typical industries and applications

- Material handling
- Construction machinery
- Woodworking machines
- Glass machines
- Plastic machines
- Long travel applications in many industries
- Semicon
- Theatre, entertainment and amusement parcs
- Vehicles
- General machinery



IPA Qualification Certificate Cleanroom ISO Class 3 (DIN 14644-1), at $v = 2$ m/s, with standard material igumid G - Series 2500.05.055.0



Electrically conductive ESD/ATEX version with PTB-certification upon request



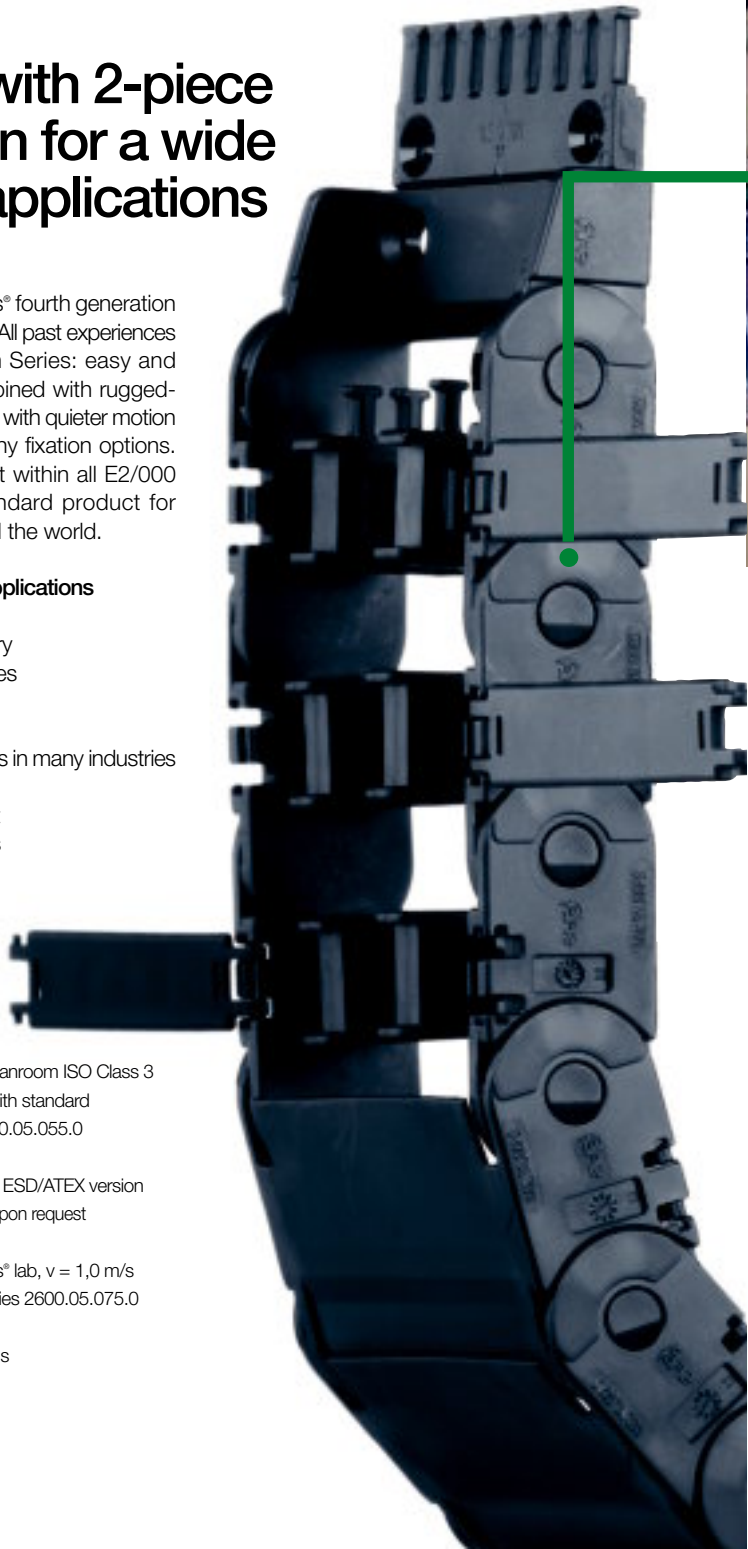
46 dB(A) tested in igus® lab, $v = 1,0$ m/s unsupported, e.g. Series 2600.05.075.0



UL94-V2 classifications upon request



System E2/000 - 2-piece link-design



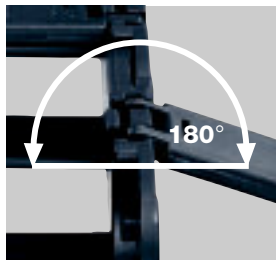


Harnessed E2/000 e-chain® - turnkey solution delivered with cables and sheet metal parts directly to the machine

E2/000 features



New snap-open mechanism, choice of snap-open on left or right



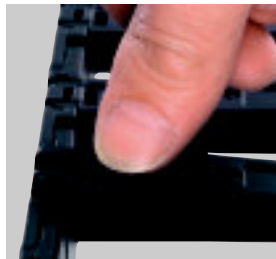
Hinged crossbar can be swiveled by more than 180° on both sides



Secure fit of separators and interior separation even when e-chain® is open



Half e-tube - Fully enclosed in outer radius. Choice of swiveling interior radius to the left or right



Lightning-fast closing by the touch of a thumb - secure fit without additional locking devices



Opening mechanism accessible from above - rapid opening with a screwdriver or the e-chain® opener

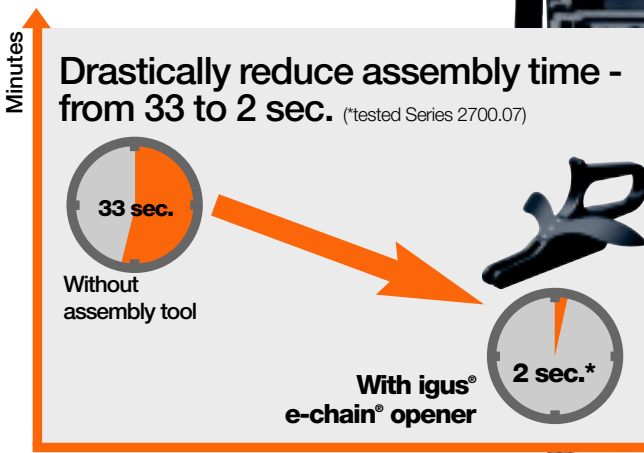
e-chain® opener | Drastically reduce assembly time

NEW in this catalog

Open E2/000 e-chains® in a flash with the new e-chain® opener

The opening of the e-chain® links of E2/000 e-chains® at extremely high speed saves significant installation time. Open a long piece of e-chain® in one go. It's the ideal tool when doing your own mounting or assembly lines in order to minimize the processing time significantly.

- Reduce installation time to open the e-chain® from 33 sec to 2 sec (tested 1 m, Series 2700.07)
- Opening of long e-chain® units in one go
- iF-design award 2011



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

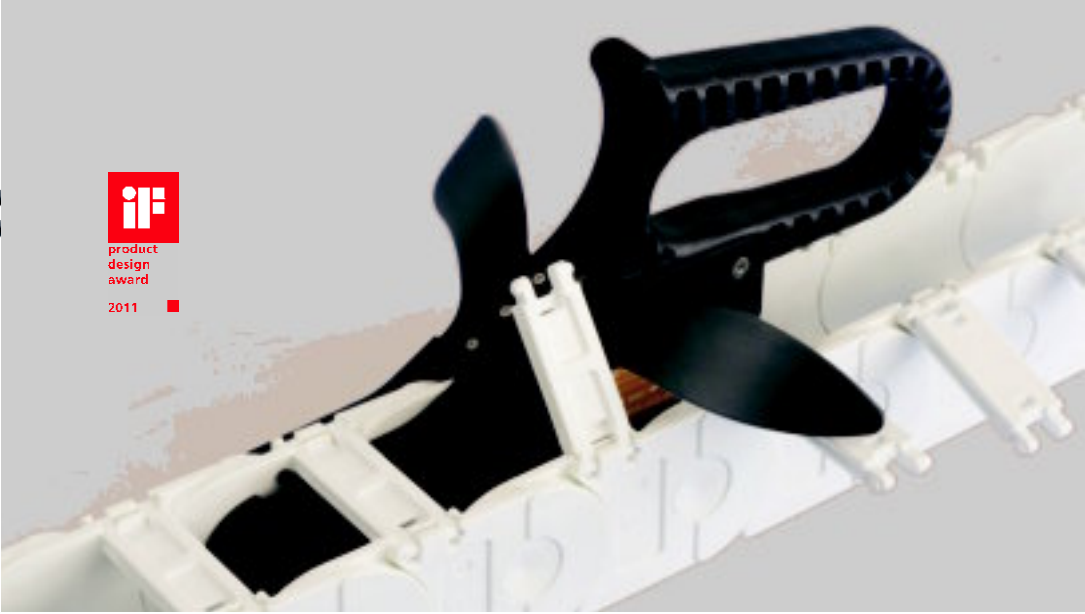
*Delivery time means time until shipping of goods





product
design
award

2011 ■



Opening of long e-chain® units in one go



Compatible mounting tools for each e-chain® size. The ideal tool for your own mounting or assembly lines to minimize the processing time significantly.

Product Range NEW in this catalog

For Series	For widths B_i [mm]	Part No.
1400/1500/1450	20, 50, 68, 80, 100	908.254.1400
2400/2500/2450	05, 07, 09	908.254.2400
2600/2700/2650	06, 07, 09, 10	908.254.2600
3400/3500/3450	50, 75, 100, 115	908.254.3400



Assembly video available online at ► www.igus.eu/savetime

5.137

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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E2/000 e-chains®
Standard for System E2
 snap-open along outer radius from both sides

1500	21	15 - 125	28,5 - 138,5	28	35 - 180	1,75	5.142
2500	25	25 - 125	41,0 - 141,0	35	55 - 250	2,25	5.160
2700	35	50 - 175	66,0 - 194,0	50	63 - 250	2,75	5.182
3500	45	50 - 225	70,0 - 245,0	64	75 - 300	3,00	5.204
255	24	38 - 103	54,0 - 119,0	35	55 - 250	1,80	5.226



E2/000 e-chains®
 snap-open along inner radius from both sides

1400	21	15 - 125	28,5 - 138,5	28	35 - 180	1,75	5.142
2400	25	25 - 125	41,0 - 141,0	35	55 - 250	2,25	5.160
2600	35	50 - 175	66,0 - 194,0	50	63 - 250	2,75	5.182
3400	45	50 - 225	70,0 - 245,0	64	75 - 300	3,00	5.204



Half e-tubes
 snap-open along inner radius from both sides

1450	21	15 - 125	28,5 - 138,5	28	75 - 180	1,75	5.142
2450	25	25 - 103	41,0 - 119,0	35	100 - 250	2,25	5.160
2650	35	50 - 125	66,0 - 141,0	50	100 - 250	2,75	5.182
3450	45	75 - 225	95,0 - 245,0	64	125 - 300	3,00	5.204



Full e-tubes
 snap-open along inner radius from both sides

1480	21	15 - 125	28,5 - 138,5	28	75 - 180	1,75	5.142
2480	25	25 - 103	41,0 - 119,0	35	100 - 250	2,25	5.160
2680	35	50 - 125	66,0 - 141,0	50	100 - 250	2,75	5.182
3480	45	75 - 225	95,0 - 245,0	64	125 - 300	3,00	5.204

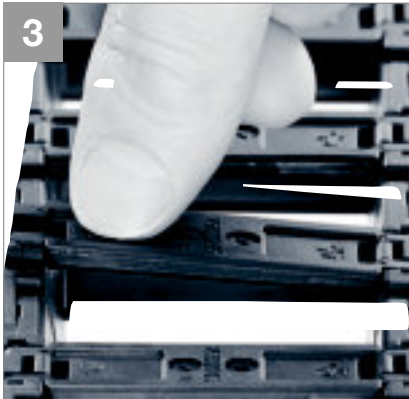




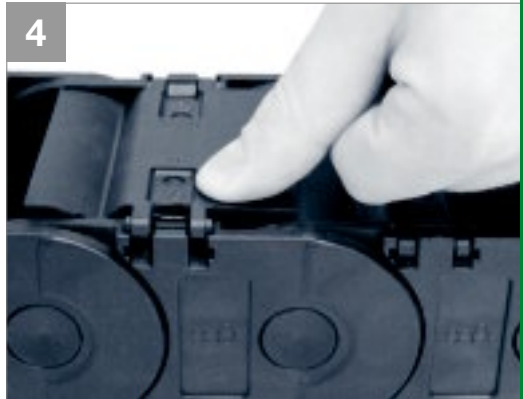
1 Push and click



2 Snap in pin



3 Push and snap crossbars



4 e-tube: push and snap lid



Open E2/000 e-chains® in a flash with the new **e-chain® opener** ► page 5.136



Technical Data overview ► next page



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



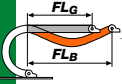
Assembly video available online at ► www.igus.de/en/E2000assembly

Technical Data - System E2/000



Gliding speed / acceleration (maximum)

max. 10 [m/s] / max. 50 [m/s²]



Speed / acceleration FL_G max.

max. 20 [m/s] / max. 200 [m/s²]

Speed / acceleration FL_B max.

max. 3 [m/s] / max. 6 [m/s²]



Material - permitted temperature °C

igumid G / -40° up to +120° C



Flammability class, igumid G

VDE 0304 IIC UL94 HB

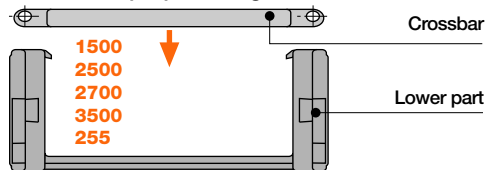
■ FL_G = with straight upper run ■ FL_B = with permitted sag

Installation methods overview, maximum travels - System E2/000

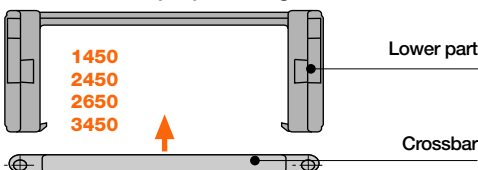
e-chain® / e-tube Series	Unsupported application	Gliding application	Vertical hanging	Vertical standing	Side mounted unsupported	Rotary application	Zig-zag application	Unsupp. length of upper run
1400/1500/1450/1480	≤ 1,75 m	≤ 75 m	≤ 20 m	≤ 2,0 m	≤ 0,7 m	with rework	upon request	upon request
2400/2500/2450/2480	≤ 2,25 m	≤ 100 m	≤ 40 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request
2600/2700/2650/2680	≤ 2,75 m	≤ 120 m	≤ 50 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request
3400/3500/3450/3480	≤ 3,00 m	≤ 150 m	≤ 80 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request
255	≤ 1,80 m	≤ 100 m	≤ 40 m	≤ 3,0 m	≤ 1,0 m	with rework	upon request	upon request

 Part No. two-piece e-chain® links as single parts - System E2/000

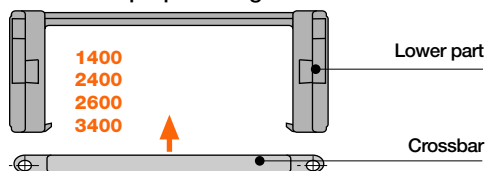
e-chain® snap-open along outer radius



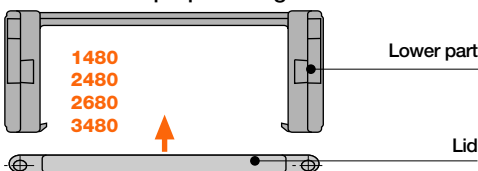
Half e-tube snap-open along inner radius




e-chain® snap-open along inner radius



Full e-tube snap-open along inner radius



 e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**	 e-tube Series	e-tube Crossbar/lid*	e-tube Lower parts**
1400	15000. <i>Bi</i>	1400. <i>Bi</i> 00. <i>R</i>	1450	15000. <i>Bi</i>	1450. <i>Bi</i> 00. <i>R</i>
1500	15000. <i>Bi</i>	1500. <i>Bi</i> 00. <i>R</i>	1480	14800. <i>Bi</i>	1450. <i>Bi</i> 00. <i>R</i>
2400	25000. <i>Bi</i>	2400. <i>Bi</i> 00. <i>R</i>	2450	25000. <i>Bi</i>	2450. <i>Bi</i> 00. <i>R</i>
2500	25000. <i>Bi</i>	2500. <i>Bi</i> 00. <i>R</i>	2480	24800. <i>Bi</i>	2450. <i>Bi</i> 00. <i>R</i>
2600	27000. <i>Bi</i>	2600. <i>Bi</i> 00. <i>R</i>	2650	27000. <i>Bi</i>	2650. <i>Bi</i> 00. <i>R</i>
2700	27000. <i>Bi</i>	2700. <i>Bi</i> 00. <i>R</i>	2680	26800. <i>Bi</i>	2650. <i>Bi</i> 00. <i>R</i>
3400	35000. <i>Bi</i>	3400. <i>Bi</i> 00. <i>R</i>	3450	35000. <i>Bi</i>	3450. <i>Bi</i> 00. <i>R</i>
3500	35000. <i>Bi</i>	3500. <i>Bi</i> 00. <i>R</i>	3480	34800. <i>Bi</i>	3450. <i>Bi</i> 00. <i>R</i>
255	2550. <i>Bi</i>	255. <i>Bi</i> 00. <i>R</i>	–	–	–

* Crossbar / Lid / bottom - supplement Part No. with required width index (*Bi*). Example: 25000.100

** Lower parts - supplement Part No. with required width index (*Bi*) and radius (*R*). Example: 2500.10000.100

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

*Delivery time means time until shipping of goods



Many mounting options with or without strain relief

System with 4 variations

Large pin for high stability

Opening system from left or right

Lateral glide surfaces

Double stop dog for long unsupported travels

+ Small radii, high stability

When to use Series 1400-1450-1480-1500:

- If a medium-sized, stable system with an inner height of 21 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 125 mm are required
- For unsupported lengths up to 1,75 m and fill weights up to 2,0 kg/m
- For long travels up to 75 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
- ▶ **System E4.1, Series E4.21, page 7.18**
- For simple applications and easy filling
- ▶ **easy chain®, Series E14, page 3.32**
- If e-tubes with smaller bending radii are required
- ▶ **e-tubes E2, Series R117, page 6.6**

 **Open E2/000 e-chains® in a flash with the e-chain® opener ▶ page 5.136**

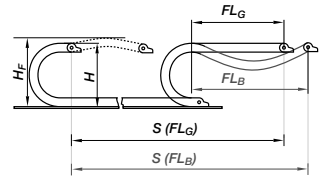
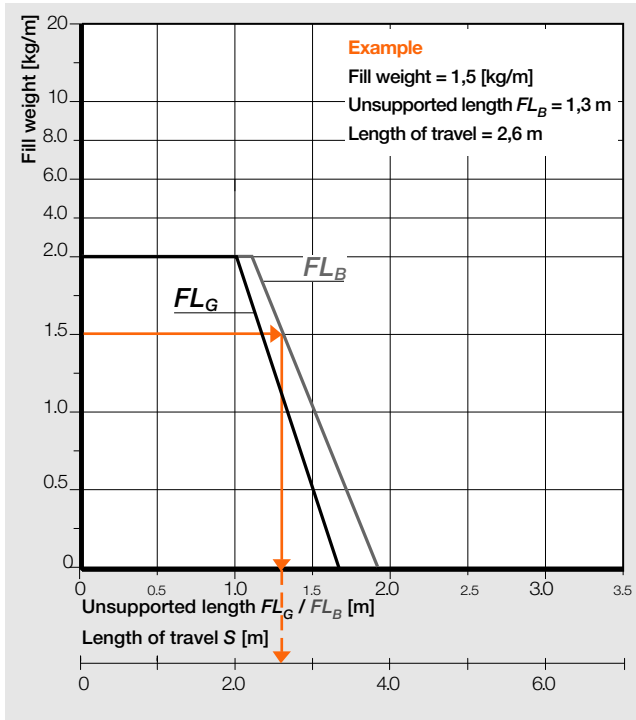


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000

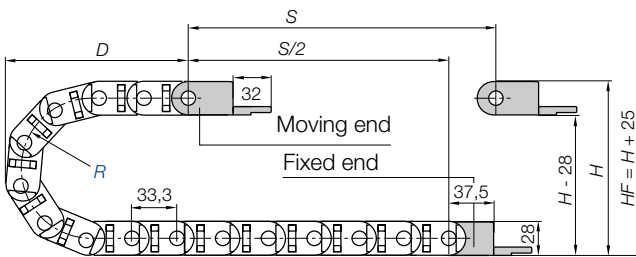


Standard Unsupported applications

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](#)

Gliding applications

Long travels up to 75 m.
 More information ► [page 5.156](#)



Technical Data

Speed, material, temperature and flammability class ► [page 5.140](#)

- Pitch** = 33,3 mm/link
- Links/m** = 30 (1000 mm)
- Chain length** = $S/2 + K$

R	035*	038*	048*	075	100	125	145	180
H	98	104	124	178	228	278	318	388
D	99	102	112	139	164	189	209	244
K	180	190	220	305	385	460	525	635

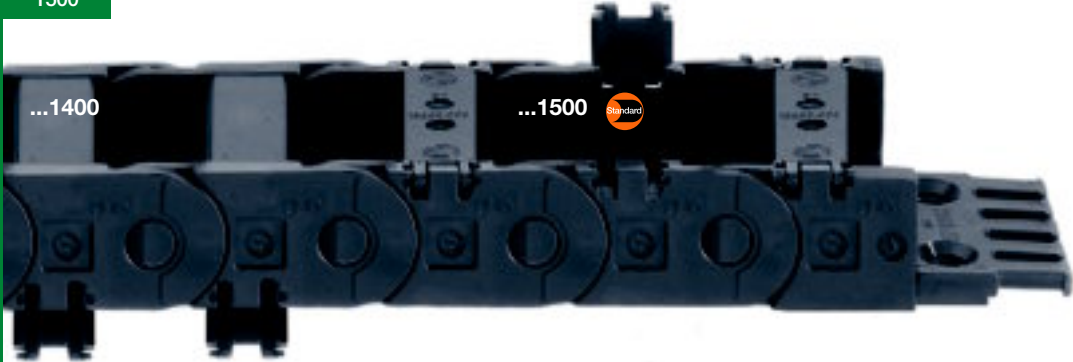
The required clearance height: $H_F = H + 25$ mm (with 0,5 kg/m fill weight)

*for Series 1450/1480 upon request. Before using Series 1400/1450/1480 please consult igus®.


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

1400
1450
1480
1500

E2/000 | 1400-1500 | Product Range | Standard




e-chains® | Series 1400 snap-open along inner radius
e-chains® | Series 1500 snap-open along outer radius | Standard

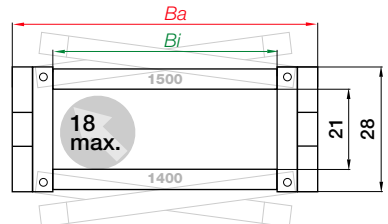
e-chains® snap-open along inner radius	e-chains® snap-open along outer radius		<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	1400 [kg/m]	1500 [kg/m]
1400.015.R.0	1500.015.R.0		15	28,5	035 038 048 075 100 125 145 180	≈ 0,46	≈ 0,46
1400.020.R.0	1500.020.R.0		20	33,5	035 038 048 075 100 125 145 180	≈ 0,47	≈ 0,47
1400.025.R.0	1500.025.R.0		25	38,5	035 038 048 075 100 125 145 180	≈ 0,49	≈ 0,49
1400.038.R.0	1500.038.R.0		38	51,5	035 038 048 075 100 125 145 180	≈ 0,53	≈ 0,53
1400.050.R.0	1500.050.R.0		50	63,5	035 038 048 075 100 125 145 180	≈ 0,56	≈ 0,56
1400.068.R.0	1500.068.R.0		68	81,5	035 038 048 075 100 125 145 180	≈ 0,63	≈ 0,63
1400.080.R.0	1500.080.R.0		80	93,5	035 038 048 075 100 125 145 180	≈ 0,67	≈ 0,67
1400.100.R.0	1500.100.R.0		100	113,5	035 038 048 075 100 125 145 180	≈ 0,74	≈ 0,74
1400.125.R.0	1500.125.R.0		125	138,5	035 038 048 075 100 125 145 180	≈ 0,83	≈ 0,83


Supplement Part No. with required radius. Example: **1500.038.100.0**

When to use Series 1400: ● If snap-open accessibility along inner radius is required ● For long travels please consult igus®! **When to use Series 1500:** ● For long travels ● If snap-open accessibility along outer radius is required

 **Order key**
1400. 038. 100. 0 e-chain®
1500. 038. 100. 0 e-chain®

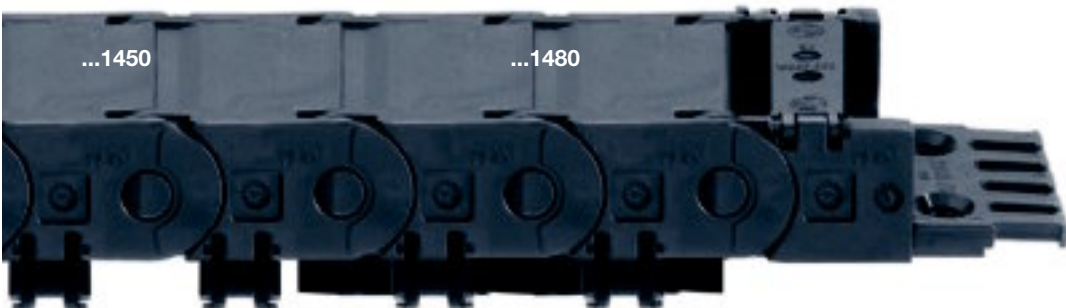
 Standard color black
 Bending radius *R*
 Width index (depends on *Bi*)
 Series / Type



 **1400.038.100.0** = e-chain® snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black
1500.038.100.0 = e-chain® snap-open along outer radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black
 More order examples and configuration options ► page 5.158

 **Part No. of e-chain® links as single parts** ► page 5.141

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



Half e-tubes | Serie 1450 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 1480 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	1450 [kg/m]	1480 [kg/m]
1450.015.R.0	1480.015.R.0	15	28,5	035* 038* 048* 075 100 125 145 180	≈ 0,48	≈ 0,50
1450.020.R.0**	1480.020.R.0**	20	33,5	035* 038* 048* 075 100 125 145 180	≈ 0,51	≈ 0,51
1450.025.R.0	1480.025.R.0	25	38,5	035* 038* 048* 075 100 125 145 180	≈ 0,54	≈ 0,57
1450.038.R.0	1480.038.R.0	38	51,5	035* 038* 048* 075 100 125 145 180	≈ 0,59	≈ 0,61
1450.050.R.0	1480.050.R.0	50	63,5	035* 038* 048* 075 100 125 145 180	≈ 0,65	≈ 0,67
1450.068.R.0	1480.068.R.0	68	81,5	035* 038* 048* 075 100 125 145 180	≈ 0,74	≈ 0,77
1450.080.R.0	1480.080.R.0	80	93,5	035* 038* 048* 075 100 125 145 180	≈ 0,80	≈ 0,84
1450.100.R.0	1480.100.R.0	100	113,5	035* 038* 048* 075 100 125 145 180	≈ 0,90	≈ 0,95
1450.125.R.0	1480.125.R.0	125	138,5	035* 038* 048* 075 100 125 145 180	≈ 1,03	≈ 1,08

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 1450/1480 available upon request. Delivery time approx. 1-2 weeks after order.

For radii 035, 038, 048 the e-tube is not fully enclosed. Please consult igus®!

Supplement Part No. with required radius. Example: 1450.038.100.0

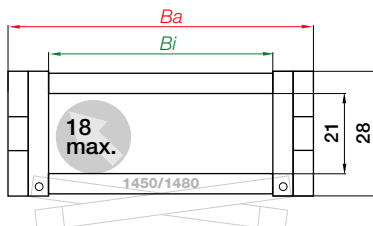
When to use Series 1450: ● Half e-tube snap-open along the inner radius - for long travels please consult igus®. **When to use Series 1480:** ● Full e-tube snap-open along the inner radius - for long travels please consult igus®.



Order key

1450. 038. 100. 0 Half e-tube

1480. 038. 100. 0 Full e-tube



1450.038.100.0 = Half e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black
 1480.038.100.0 = Full e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black
 More order examples and configuration options ► page 5.158



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes available from stock. **Delivery in 24h or today!***
 *Delivery time means time until shipping of goods

...-5 dB(A)

depends on environmental conditions,
similar to figureNoise dampening | Noise reduction \approx 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		R Bending radii [mm]	Bi [mm]
S1400.015.	S1450.015.	S1480.015.	R.0	035* 038* 048* 075 100 125 145 180	15
S1400.020.	S1450.020.**	S1480.020.**	R.0	035* 038* 048* 075 100 125 145 180	20
S1400.025.	S1450.025.	S1480.025.	R.0	035* 038* 048* 075 100 125 145 180	25
S1400.038.	S1450.038.	S1480.038.	R.0	035* 038* 048* 075 100 125 145 180	38
S1400.050.	S1450.050.	S1480.050.	R.0	035* 038* 048* 075 100 125 145 180	50
S1400.068.	S1450.068.	S1480.068.	R.0	035* 038* 048* 075 100 125 145 180	68
S1400.080.	S1450.080.	S1480.080.	R.0	035* 038* 048* 075 100 125 145 180	80
S1400.100.	S1450.100.	S1480.100.	R.0	035* 038* 048* 075 100 125 145 180	100
S1400.125.	S1450.125.	S1480.125.	R.0	035* 038* 048* 075 100 125 145 180	125

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 1450/1480 available upon request. Delivery time approx. 1-2 weeks after order.

For radii 035, 038, 048 the e-tube is not fully enclosed. Please consult igus!

Supplement Part No. with required radius. Example: **S1400.038.100.0**

For e-chains® with noise dampening pads supplement Part No. with required index "S"

Example: Part No. **S1400.038.100.0** = e-chain® snap-open along inner radius with noise dampening pads**e-chain® with noise dampening pads - Delivery time: 3-5 work days.**

*Delivery time means time until shipping of goods

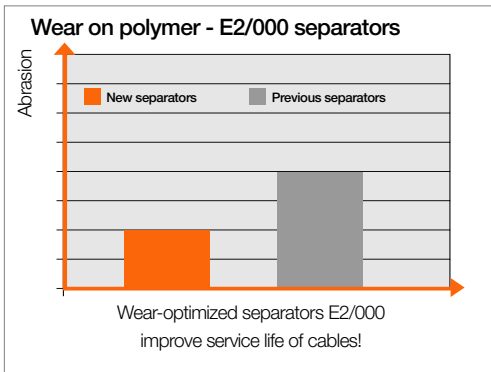


Installation-optimized delivery of an igus® readychain®- here system E2/000



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



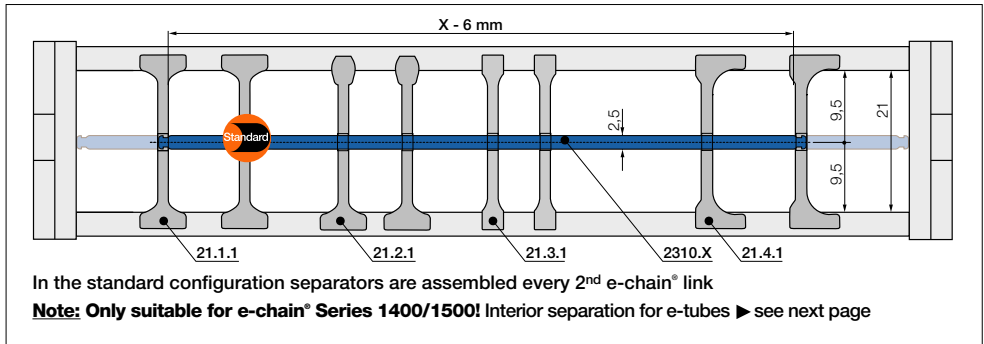

- ① Standard separator, wide base - Part No. 21.1 ③ Separator, narrow base - Part No. 21.3 ⑤ Full-width shelf, lockable* - Part No. 2300.XX
 ② Separator with narrow head - Part No. 21.2 ④ Separator, asymmetrical - Part No. 21.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order



Interior separation single order - Delivery in 24h or today!*

*Delivery time means time until shipping of goods


New generation of interior separation

Standard separator, wide base

unassembled	21.1
assembled	21.1.1


Standard - for all applications
 Separator with wide base for maximum locking strength and safe standing in e-chains®.



Separator, narrow head*

unassembled	21.2
assembled	21.2.1


For even faster installation
 Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).



Separator, narrow base*

unassembled	21.3
assembled	21.3.1


For many thin cables
 Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.



Separator, asymmetrical*

unassembled	21.4
assembled	21.4.1

For side-mounted applications
 Asymmetrical separator, for defined distance. No additional spacers necessary.



Full-width shelf, lockable*

unassembled	2300.X
assembled	2310.X

Horizontal separation
 Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 1 level.

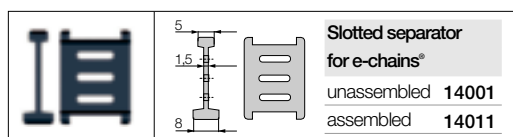
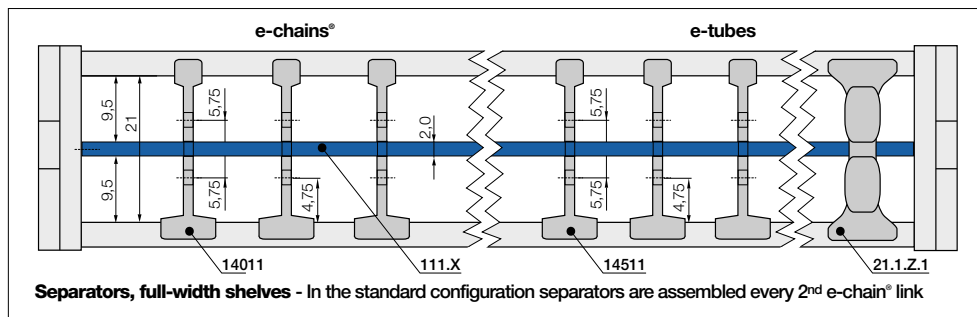
*Available upon request. Delivery time approx. 1-2 weeks after intake of order.



Lockable full-width shelves - for the standard interior separation

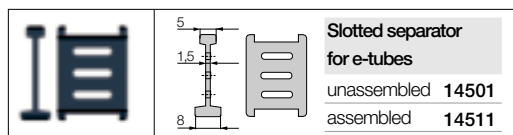
Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	2300.15	2310.15	060	2300.60	2310.60	087	2300.87	2310.87
025	2300.25	2310.25	062	2300.62	2310.62	090	2300.90	2310.90
030	2300.30	2310.30	065	2300.65	2310.65	100	2300.100	2310.100
038	2300.38	2310.38	070	2300.70	2310.70	103	2300.103	2310.103
040	2300.40	2310.40	075	2300.75	2310.75	110	2300.110	2310.110
050	2300.50	2310.50	077	2300.77	2310.77	120	2300.120	2310.120
057	2300.57	2310.57	080	2300.80	2310.80	125	2300.125	2310.125

Previous interior separation



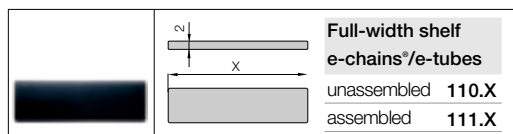
Slotted separator 14001 (e-chains[®] only)

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



Slotted separator 14501 (e-tubes only)

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

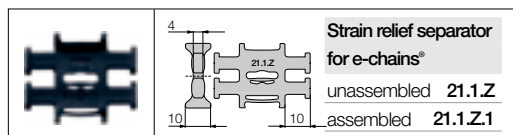


Full-width shelf 110.X (e-chains[®]/e-tubes)

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 5,75 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	038	110.38	111.38	080	110.80	111.80
020	110.20	111.20	050	110.50	111.50	100	110.100	111.100
025	110.25	111.25	068	110.68	111.68	125	110.125	111.125



Additional elements for interior separation

NEW in this catalog

Strain relief separator 21.1.Z (e-chains[®] only)

Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.



E2/000 Series 1400 in aircraft refuelling truck; telescopic crane with six sections

Optional: Support tray tool kit.

For support of the lower run.

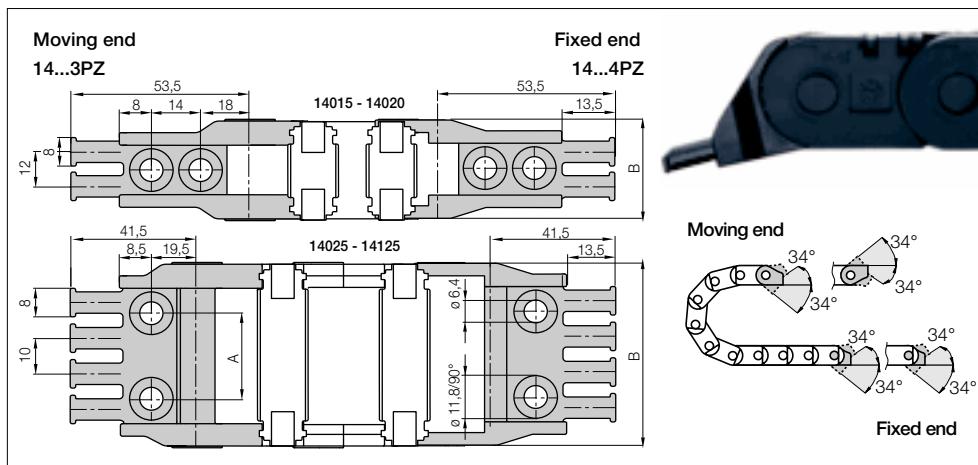
Simple one-piece support trays according to your requirements and specification. Available upon request.

The complete range with order options ► from page 9.70



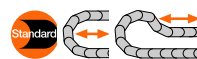
1400-1450-1480-1500 | Mounting brackets **pivoting**

For tight installation conditions



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

For width index	Part No. full set with tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.015. ▶	14015.34PZ	–	28,5	2
.020. ▶	14020.34PZ	–	33,5	2
.025. ▶	14025.34PZ	13	38,5	2
.038. ▶	14038.34PZ	24	51,5	4
.050. ▶	14050.34PZ	36	63,5	5
.068. ▶	14068.34PZ	54	81,5	7
080. ▶	14080.34PZ	66	93,5	8
100. ▶	14100.34PZ	86	113,5	10
125. ▶	14125.34PZ	111	138,5	13



- Standard
- For tight installation conditions
- One-piece, stable mounting brackets
- Integrated molded strain relief
- Corrosion resistant
- Various installation options on the fixed end and/or the moving end

Part No. structure (pivoting)

14038. 34 PZ A1



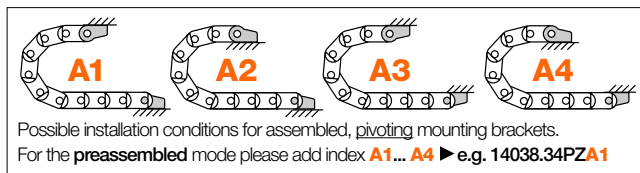
Single-part order

Mounting bracket **Moving end**

14038. 3 PZ A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

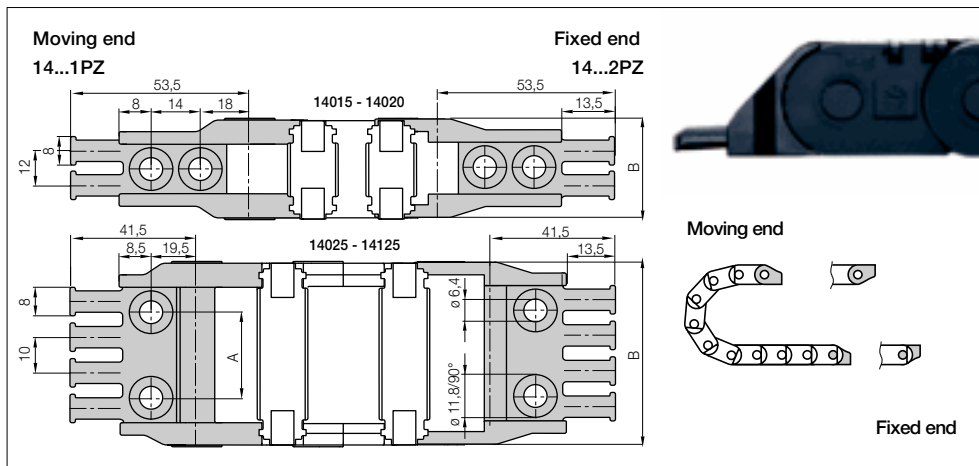
14038. 4 PZ A1 (preassembled + tiewrap plate)



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

1400·1450·1480·1500 | Mounting brackets locking

For very high speed and acceleration



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

Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.015. ▶	14015.12PZ	–	28,5	2
.020. ▶	14020.12PZ	–	33,5	2
.025. ▶	14025.12PZ	13	38,5	2
.038. ▶	14038.12PZ	24	51,5	4
.050. ▶	14050.12PZ	36	63,5	5
.068. ▶	14068.12PZ	54	81,5	7
080. ▶	14080.12PZ	66	93,5	8
100. ▶	14100.12PZ	86	113,5	10
125. ▶	14125.12PZ	111	138,5	13



- 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)

14038. 12 PZ A1



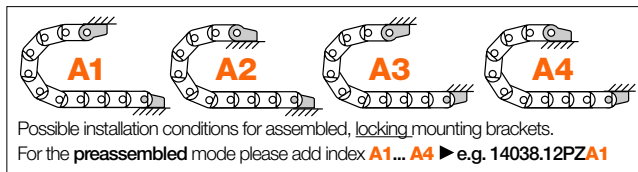
Single-part order

Mounting bracket **Moving end**

14038. 1 PZ A1 (preassembled + tiewrap plate)

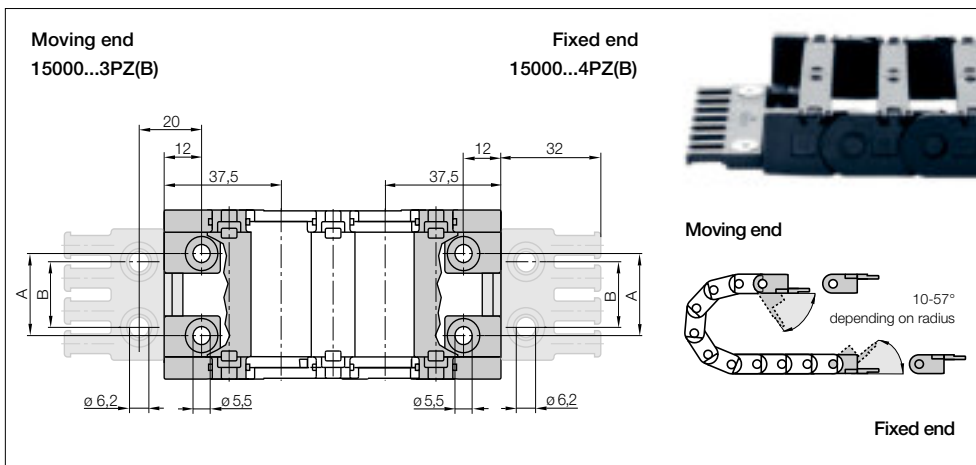
Mounting bracket **Fixed end**

14038. 2 PZ A1 (preassembled + 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

1400-1450-1480-1500 | Mounting brackets pivoting

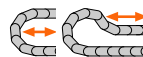
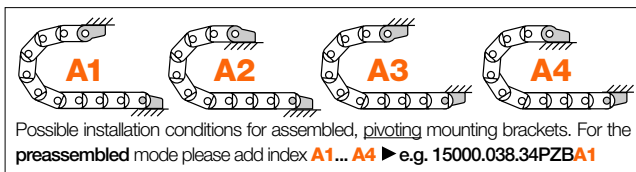


Polymer pivoting | Universal for e-chains® and e-tubes
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.015.	▶ -	-	-	-	-
.020.	▶ -	-	-	-	-
.025.	▶ 15000.025.34PZB	15000.025.34PZ	12	15	3
.038.	▶ 15000.038.34PZB	15000.038.34PZ	25	20	4
.050.	▶ 15000.050.34PZB	15000.050.34PZ	37	30	5
.068.	▶ 15000.068.34PZB	15000.068.34PZ	55	40	6
.080.	▶ 15000.080.34PZB	15000.080.34PZ	67	60	8
.100.	▶ 15000.100.34PZB	15000.100.34PZ	87	80	10
.125.	▶ 15000.125.34PZB*	15000.125.34PZ*	112	100	12

*Tiewrap plate (consists of 2x2050.ZB) does not snap on but needs to be bolted down separately

Note: Mounting brackets not to assemble at the gable end



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

Part No. structure (pivoting)

15000.038.34PZA1****




Single-part order

Mounting bracket **Moving end**

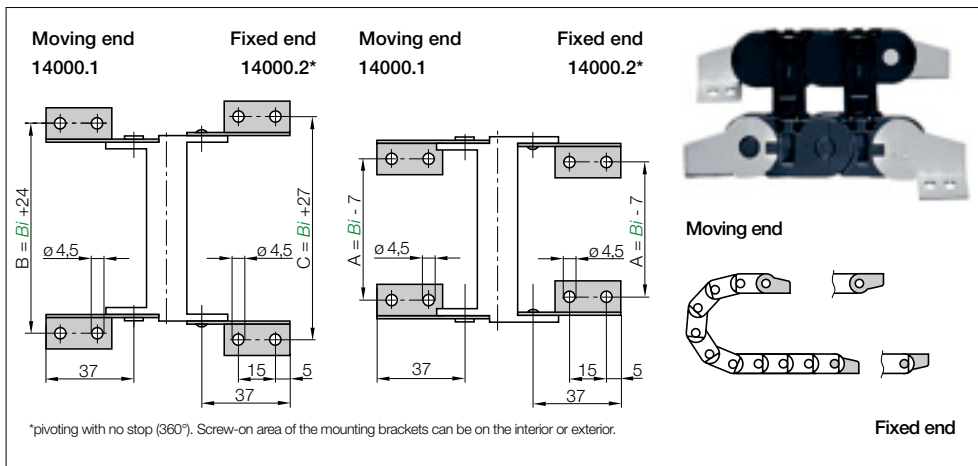
15000.038.4PZA1**** (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

15000.038.3PZA1**** (preassembled + 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

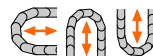
1400·1450·1480·1500 | Steel mounting brackets locking



Steel locking | - For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

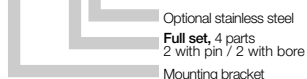
For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]
.015. ▶	14000.12	14000.12.E	8	39	42
.020. ▶	14000.12	14000.12.E	13	44	47
.025. ▶	14000.12	14000.12.E	18	49	52
.038. ▶	14000.12	14000.12.E	31	62	65
.050. ▶	14000.12	14000.12.E	43	74	77
.068. ▶	14000.12	14000.12.E	61	92	95
080. ▶	14000.12	14000.12.E	73	104	107
100. ▶	14000.12	14000.12.E	93	124	127
125. ▶	14000.12	14000.12.E	118	149	152



- Locked connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

14000.12.E



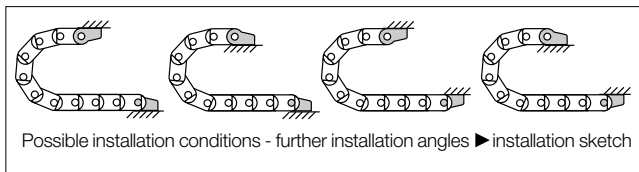
Single-part order

Mounting bracket **Moving end**

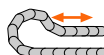
14000.1 (1 part left / right)

Mounting bracket **Fixed end**

14000.2 (1 part left / right)

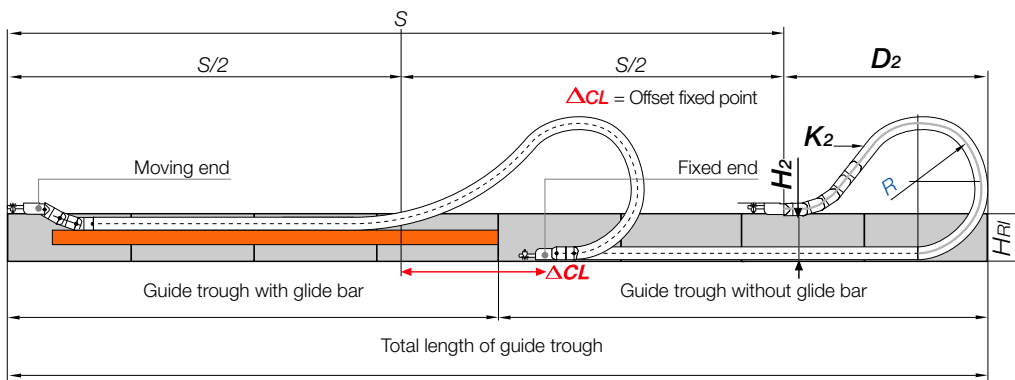


Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



Gliding applications | For long travels from 10 m to max. 75 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 1400/1450/1480 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 1500** that snaps open along the outer radius. **In case of travels between 4 and 10 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



Pitch = 33,3 mm/link · Links/m = 30 (1000 mm) · Chain length = $S/2 + K$

R	035*	038*	048*	075	100	125	145	180
H ₂	70	76	96	150	100	100	100	100
D ₂ +25	99	102	112	139	340	495	540	690
K ₂	180	190	220	305	600	800	940	1170
ΔCL	-	-	-	-	179	305	340	445

*for Series 1450/1480 upon request. Before using Series 1400/1450/1480 on long travels please consult igus®. **Values upon request!



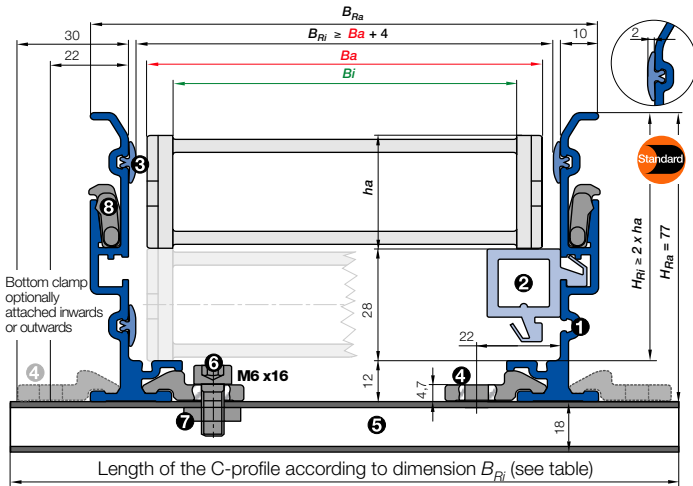
The complete range of special solutions for long travel applications incl. order function ► from page 9.77



H₂ = Mounting height (if the moving end is set lower) K₂ = Further add-on (if the moving end is set lower) ΔCL = Offset fixed point S = Length of travel
D₂ = Overlength - long travels, gliding R = Bending radius H_{RI} = Inner trough height S/2 = Half length of travel

Part No. 970.30 | 970.32 | Trough height: 77 mm
Aluminum "SuperTrough" | Basic Version

1400
 1450
 1480
 1500



Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

1500.050.035.0 ▶ Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.015	33	960.30.125
.020	38	960.30.125
.025	43	960.30.150
.038	56	960.30.150
.050	68	960.30.125 960.30.175
.068	86	960.30.150 960.30.175
.080	98	960.30.150 960.30.200
.100	118	960.30.175 960.30.225
.125	143	960.30.200 960.30.250

- **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 1500.050.035.0 with $B_{Ri} = 68$

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. 970.32.SL**

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

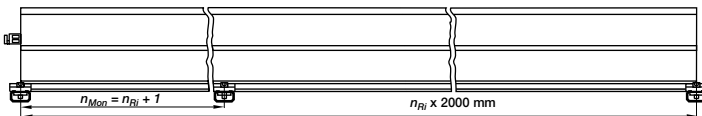
Order text: 17 installation sets **Part No. 960.30.125**

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

Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ▶ from page 9.22

- Trough set
- C-Profile
- Installation set
- Ba = Outer width e-chains*
- Glide bar
- Bi = Inner width e-chains*
- B_{Ri} = Inner trough width
- B_{Ro} = Outer trough width
- H_{Ri} = Inner trough height
- H_{Ro} = Outer trough height
- n_{Mon} = Number of installation sets
- n_T = Number of trough sets

1400-1450-1480-1500 | Options and order key



Standard

Part No.
Standard
e-chains®/e-tubes



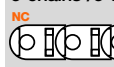
Additional noise dampening with pads

Part No.
Low noise (with pads)
e-chains®/e-tubes



NC-Version - (no camber) without pretension

Part No.
NC-Material
e-chains®/e-tubes



Reverse bending radius for circular movements

Part No.
RBR
e-chains®/e-tubes



1400.038.R.0

e-chain* snap-open along inner radius*

1500.038.R.0

e-chain* snap-open along outer radius

1450.038.R.0

Half e-tube snap-open along inner radius*

1480.038.R.0

e-tube snap-open along inner radius*

S1400.038.R.0

e-chain* snap-open along inner radius*

S1450.038.R.0

Half e-tube snap-open along inner radius*

S1480.038.R.0

e-tube snap-open along inner radius*

1400.038.R.0.NC

e-chain* snap-open along inner radius*

1500.038.R.0.NC

e-chain* snap-open along outer radius

1450.038.R.0.NC

Half e-tube snap-open along inner radius*

1480.038.R.0.NC

e-tube snap-open along inner radius*

1400.038.R1/R2.0

e-chain* snap-open along inner radius*

1500.038.R1/R2.0

e-chain* snap-open along outer radius

1450.038.R1/R2.0**

Half e-tube snap-open along inner radius*

1480.038.R1/R2.0**

e-tube snap-open along inner radius*



Delivery time
24h or today!*

Delivery time
3-5 work days

Delivery time
3-5 work days

Delivery time
10 work days

(2-5 work days at an express surcharge) **upon request

Combination possibilities | Examples

	Low-noise option	NC-Version	RBR-Version	XXL-Material	HT-Material*	ESD-Material
Low-noise-option		S1400.038.R.0.NC	-	S1400.038.R.0.XXL	S1480.038.R.0.HT	S1400.038.R.0.ESD
NC-Version	S1400.038.R.0.NC		-	-	1480.30.R.0.HT.NC	1400.038.R.0.ESD.NC
RBR-Version	-	-		-	1480.038.R1/R2.0.HT	1400.038.R1/R2.0.ESD
XXL-Material	S1400.038.R.0.XXL	-	-		-	-
HT-Material*	S1480.038.R.0.HT	1480.30.R.0.HT.NC	1480.30.R1/R2.0.HT	-		-
ESD-Material	S1400.038.R.0.ESD	1400.038.R.0.ESD.NC	1400.038.R1/R2.0.ESD	-	-	

for gliding applications please consult igus

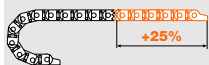
1400-1450-1480-1500 | Options and order key

Unsupported lengths +25% possible

No burning-in of hot chips up to 850°C (1562°F)

ATEX / ESD classified e-chains®
II 2 GD

Part No.
XXL-Material**
e-chains®/e-tubes



1400.038.R.0.XXL

e-chain* snap-open along inner radius*

1500.038.R.0.XXL

e-chain* snap-open along outer radius

1450.038.R.0.XXL

Half e-tube snap-open along inner radius*

1480.038.R.0.XXL

e-tube snap-open along inner radius*

Delivery time
1-2 weeks

**Lower part made of XXL-material

Part No.
HT-Material
only for e-tubes



1480/1450.038.R.0.HT

Complete e-tube**

1480/1450.038.R.0

Bottom only

Delivery time
10 work days

Part No.
ESD-Material
e-chains®/e-tubes



1400.038.R.0.ESD

e-chain* snap-open along inner radius*

1500.038.R.0.ESD

e-chain* snap-open along outer radius

1450.038.R.0.ESD

Half e-tube snap-open along inner radius*

1480.038.R.0.ESD

e-tube snap-open along inner radius*

Delivery time
5 work days

*for gliding applications
please consult igus®

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 30 links **1500.038.100.0**

+ Mounting brackets 1 set (with tiewrap plates) **15000.038.34PZB**

+ Interior separation with 2 separators assembled every 2nd link **2 x 21.1**

Order text: 1,0 m 1500.038.100.0 + 15000.038.34PZB + 2 x Part No. 21.1



Order key
1500.038.100.0



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



Many mounting options with or without strain relief

Opening system from left or right

System with 4 variations

Large pin for high stability

Double stop dog for long unsupported travels

Lateral glide surfaces

Allrounder, high stability

When to use Series 2400-2450-2480-2500:

- If a medium-sized, stable system with an inner height of 25 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 125 mm are required
- For unsupported lengths up to 2,25 m and fill weights up to 4,8 kg/m
- For long travels up to 100 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
- ▶ **System E4.1, Series E4.21**, page 7.18
- For simple applications and easy filling
- ▶ **easy chain®**, Series E200, page 3.36
- If e-tubes with smaller bending radii are required
- ▶ **e-tubes E2, Series R48**, page 6.26



Open E2/000 e-chains® in a flash with the **e-chain® opener** ▶ page 5.136

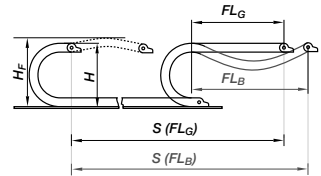
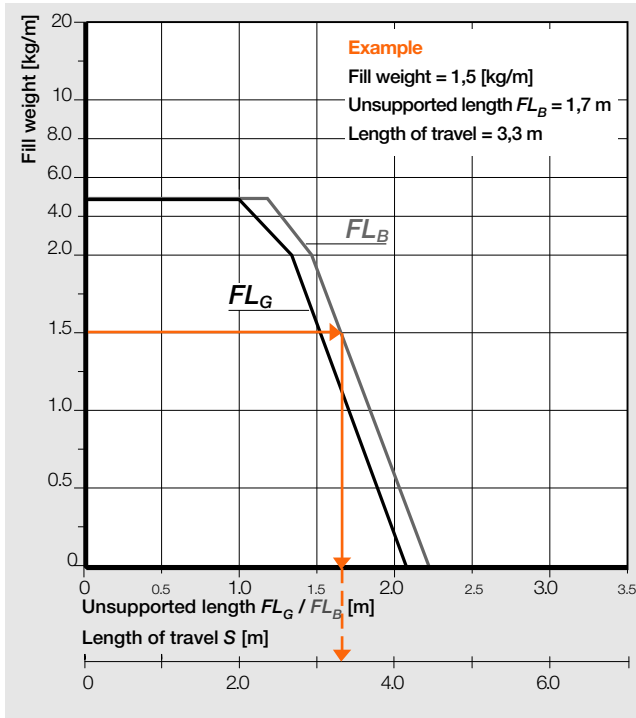


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000

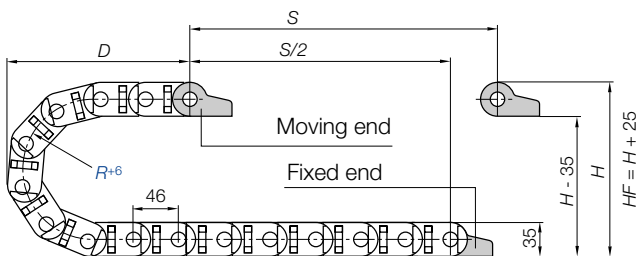


Standard **Unsupported applications**

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**

Gliding applications

Long travels up to 100 m.
 More information ► **page 5.178**



Technical Data

Speed, material, temperature and flammability class ► **page 5.140**

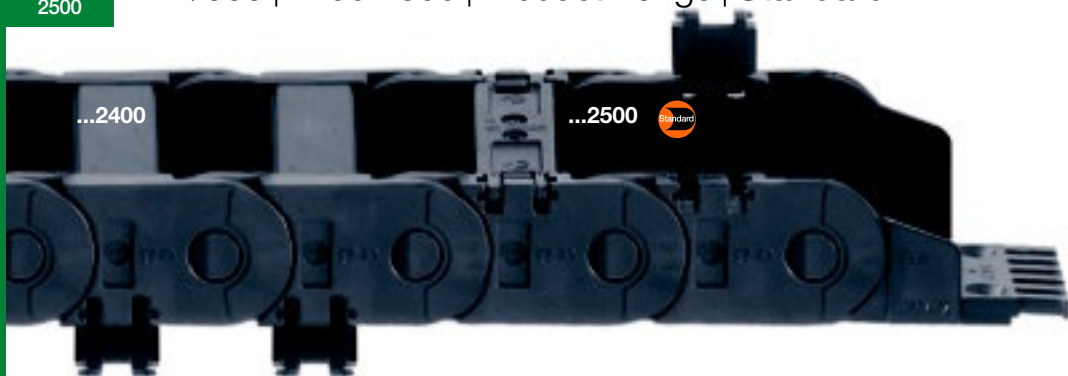
- Pitch** = 46 mm/link
- Links/m** = 22 (1012 mm)
- Chain length** = $S/2 + K$

R	055*	075	100	125	150	175	200	225	250
H	145	185	235	285	335	385	435	485	535
D	142	162	187	212	237	262	287	312	337
K	265	330	410	485	565	645	725	800	880


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

*for Series 2450/2480 upon request. Before using Series 2400/2450/2480 on long travels please consult igus®.

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



e-chains® | Series 2400 snap-open along inner radius
e-chains® | Series 2500 snap-open along outer radius | Standard

e-chains® snap-open along inner radius	e-chains® snap-open along outer radius	 <i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	2400 [kg/m]	2500 [kg/m]
2400. 02 .R.0	2500. 02 .R.0	25	41	055 075 100 125 150 175 200 225 250	≈ 0,77	≈ 0,77
2400. 03 .R.0	2500. 03 .R.0	38	54	055 075 100 125 150 175 200 225 250	≈ 0,83	≈ 0,83
2400. 05 .R.0	2500. 05 .R.0	57	73	055 075 100 125 150 175 200 225 250	≈ 0,91	≈ 0,91
2400. 07 .R.0	2500. 07 .R.0	77	93	055 075 100 125 150 175 200 225 250	≈ 1,01	≈ 1,01
2400. 09 .R.0	2500. 09 .R.0	89	105	055 075 100 125 150 175 200 225 250	≈ 1,08	≈ 1,08
2400. 10 .R.0	2500. 10 .R.0	103	119	055 075 100 125 150 175 200 225 250	≈ 1,15	≈ 1,15
2400. 12 .R.0	2500. 12 .R.0	125	141	055 075 100 125 150 175 200 225 250	≈ 1,22	≈ 1,22

Supplement Part No. with required radius. Example: 2500.03.100.0

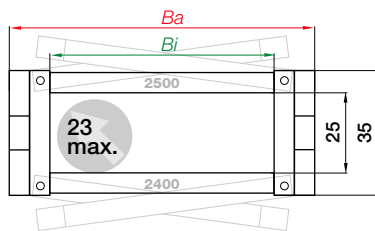
When to use Series 2400: ● e-chain® with snap-open accessibility along inner radius - for long travels please consult igus® (autoglide System ► page 9.90). **When to use Series 2500:** ● e-chain® with snap-open accessibility along outer radius - suitable for long travels.



Order key

2400. **03**. **100**. 0 e-chain®
2500. **03**. **100**. 0 e-chain®

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



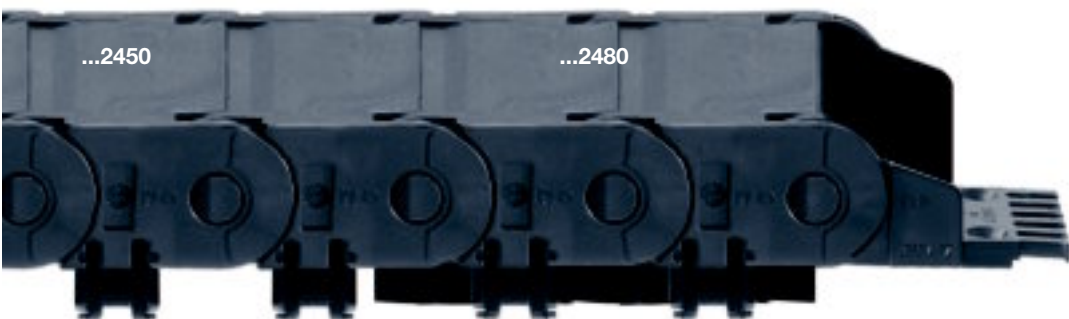
2400.03.100.0 = e-chain® snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black
2500.03.100.0 = e-chain® snap-open along outer radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black
More order examples and configuration options ► page 5.180



Part No. of e-chain® links as single parts ► page 5.141



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



Half e-tubes | Serie 2450 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 2480 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	2450 [kg/m]	2480 [kg/m]
2450.02.R.0	2480.02.R.0	25	41	055* 075 100 125 150 175 200 225 250	≈ 0,80	≈ 0,82
2450.03.R.0	2480.03.R.0	38	54	055* 075 100 125 150 175 200 225 250	≈ 0,88	≈ 0,92
2450.05.R.0	2480.05.R.0	57	73	055* 075 100 125 150 175 200 225 250	≈ 0,99	≈ 1,03
2450.07.R.0	2480.07.R.0	77	93	055* 075 100 125 150 175 200 225 250	≈ 1,12	≈ 1,17
2450.09.R.0	2480.09.R.0	89	105	055* 075 100 125 150 175 200 225 250	≈ 1,20	≈ 1,26
2450.10.R.0	2480.10.R.0	103	119	055* 075* 100 125 150 175 200 225 250	≈ 1,27	≈ 1,34
2450.12.R.0	2480.12.R.0	125	141	055* 075 100 125 150 175 200 225 250	≈ 1,35	≈ 1,43

*Radius Series 2450/2480 available upon request. Delivery time approx. 1-2 weeks after intake of order.

Radius 055: the e-tube is not completely enclosed. Please consult igus®!

Supplement Part No. with required radius. Example: 2450.03.100.0

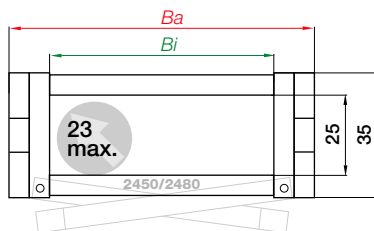
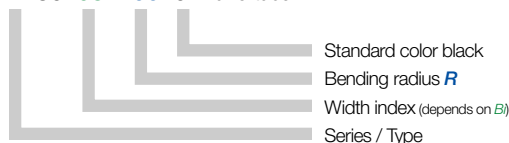
When to use Series 2450: ● Half e-tube snap-open along the inner radius - for long travels please consult igus®.
When to use Series 2480: ● Full e-tube snap-open along the inner radius - for long travels please consult igus®.



Order key

2450.03.100.0 Half e-tube

2480.03.100.0 Full e-tube



2450.03.100.0 = Half e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

2480.03.100.0 = Full e-tube snap-open along inner radius, *Bi* 38 mm inner width, *R* 100 mm radius, color black

More order examples and configuration options ► page 5.180



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes incl. accessories from stock. **Delivery in 24h or today.***

*Delivery time means time until shipping of goods



...-5 dB(A)

depends on environmental conditions,
similar to figure



Noise dampening | Noise reduction \approx 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		R Bending radii [mm]	Bi [mm]
S2400.02	S2450.02	S2480.02	R.0	055* 075 100 125 150 175 200 225 250	25
S2400.03	S2450.03	S2480.03	R.0	055* 075 100 125 150 175 200 225 250	38
S2400.05	S2450.05	S2480.05	R.0	055* 075 100 125 150 175 200 225 250	57
S2400.07	S2450.07	S2480.07	R.0	055* 075 100 125 150 175 200 225 250	77
S2400.09	S2450.09	S2480.09	R.0	055* 075 100 125 150 175 200 225 250	89
S2400.10	S2450.10	S2480.10	R.0	055* 075 100 125 150 175 200 225 250	103
S2400.12	S2450.12	S2480.12	R.0	055* 075 100 125 150 175 200 225 250	125

*Radius Series 2450/2480 available upon request. Delivery time approx. 1-2 weeks after intake of order.

Radius 055: the e-tube is not completely enclosed. Please consult igus!

Supplement Part No. with required radius. Example: **S2400.03.100.0**



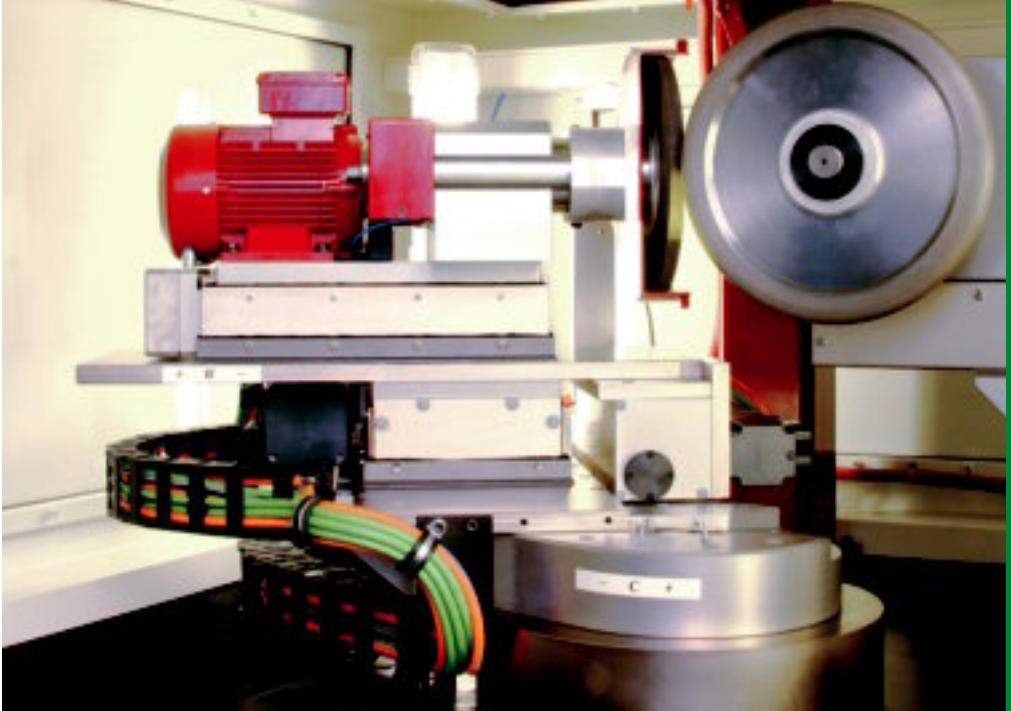
For e-chains® with noise dampening pads: supplement Part No. with required index "S"

Example: Part No. **S2400.03.100.0** = e-chain® snap-open along inner radius with noise dampening pads



e-chain® with noise dampening pads - Delivery time 3-5 work days.

*Delivery time means time until shipping of goods

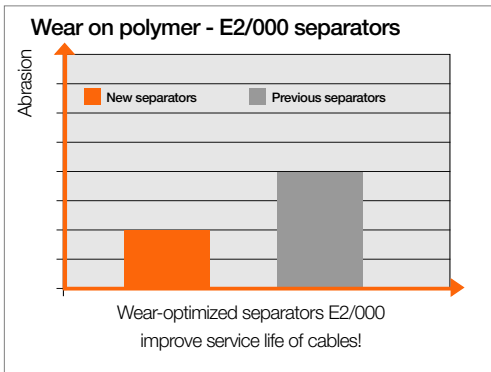


Two fully harnessed and side-mounted E2/000 e-chains® with high fill weight



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



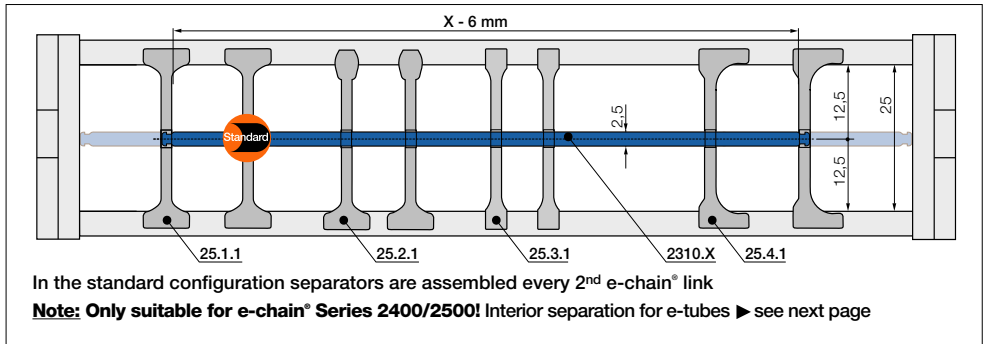

- ① Standard separator, wide base - Part No. 25.1 ③ Separator, narrow base - Part No. 25.3 ⑤ Full-width shelf, lockable* - Part No. 2300.XX
 ② Separator with narrow head - Part No. 25.2 ④ Separator, asymmetrical - Part No. 25.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order



Interior separation single order - Delivery time 24h or today!*

*Delivery time means time until shipping of goods


New generation of interior separation

Standard separator, wide base

unassembled	25.1
assembled	25.1.1


Standard - for all applications
Separator with a wide base for maximum locking strength and safe standing in e-chains®.



Separator, narrow head

unassembled	25.2
assembled	25.2.1


For even faster installation
Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).



Separator, narrow base

unassembled	25.3
assembled	25.3.1


For many thin cables
Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.



Separator, asymmetrical

unassembled	25.4
assembled	25.4.1

For side-mounted applications
Asymmetrical separator, for defined distance. No additional spacers necessary.



Full-width shelf, lockable

unassembled	2300.X
assembled	2310.X

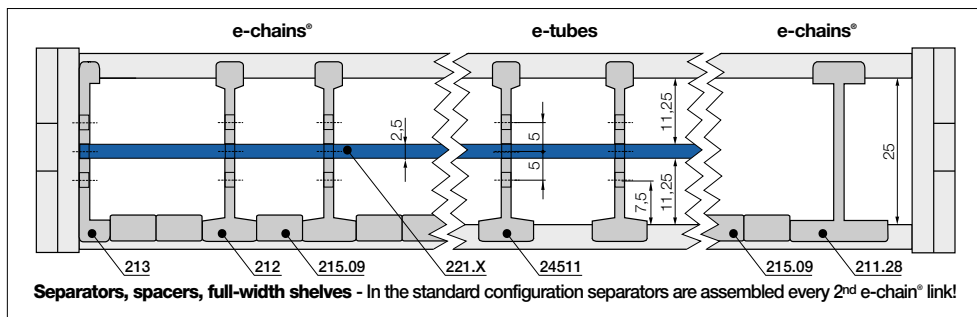
Horizontal separation
Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 1 level.

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.



Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
015	2300.15	2310.15	060	2300.60	2310.60	087	2300.87	2310.87
025	2300.25	2310.25	062	2300.62	2310.62	090	2300.90	2310.90
030	2300.30	2310.30	065	2300.65	2310.65	100	2300.100	2310.100
038	2300.38	2310.38	070	2300.70	2310.70	103	2300.103	2310.103
040	2300.40	2310.40	075	2300.75	2310.75	110	2300.110	2310.110
050	2300.50	2310.50	077	2300.77	2310.77	120	2300.120	2310.120
057	2300.57	2310.57	080	2300.80	2310.80	125	2300.125	2310.125



		Slotted separator for e-chains* unassembled 202 assembled 212
--	--	--

Slotted separator 202 (e-chains* only)

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

		Slotted separator for e-tubes unassembled 24501 assembled 24511
--	--	--

Slotted separator 24501 (e-tubes only)

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

		Separator, wide base* for e-chains* unassembled 201.28 assembled 211.28
--	--	--

Separator, wide base* 201.28 (e-chains* only)

If a wide space between the separators has to be kept or separators have to be fixed in their position.

(*for side-mounted applications)

		Side plate for e-chains* unassembled 203 assembled 213
--	--	---

Side plate 203 (e-chains* only)

Side plate for use with full-width shelf 220.X and slotted separator 202.

		Spacer* for e-chains* unassembled 205.09 assembled 215.09
--	--	--

Spacer* 205.09 (e-chains* only)

Separators can be fixed in position. Only mountable onto the fixed crossbar. (*for side-mounted applications)

		Full-width shelf for e-chains*/e-tubes unassembled 220.X assembled 221.X
--	--	---

Full-width shelf 220.X (e-chains* and e-tubes)

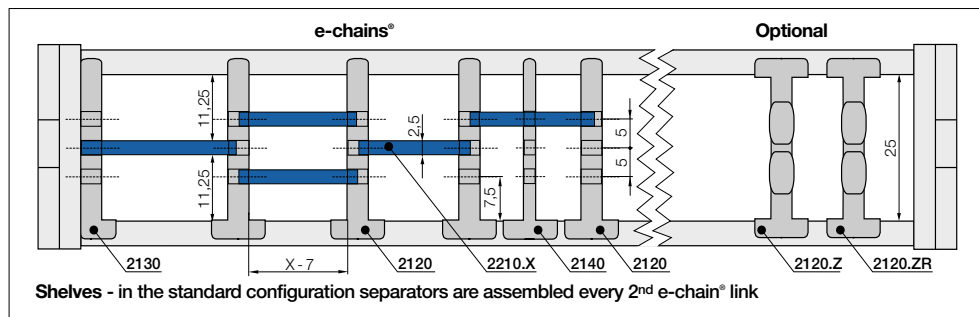

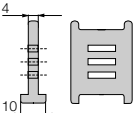
This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
025	220.25	221.25	077	220.77	221.77	125	220.125	221.125
038	220.38	221.38	090	220.90	221.90			
057	220.57	221.57	103	220.103	221.103			

2400·2450·2480·2500 | Interior separation | Options


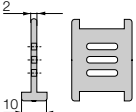
Previous interior separation

Slotted middle plate e-chains®

unassembled	2020
assembled	2120


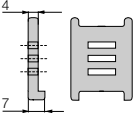
Middle plate 2020 (e-chains® only)
To achieve a modular shelving by shelf 2200.X arranged at 3 different heights (in 5 mm increments)

Slotted separator for e-chains®

unassembled	2040
assembled	2140


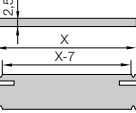
Slotted separator 2040 (e-chains® only)
For a very fine subdivision.
No snap-in option for shelves, freely movable.

Side plate for e-chains®

unassembled	2030
assembled	2130

Side plate 2030 (e-chains® only)
Side plate for use with middle plate 2020, slotted separator 2040 and shelf 2200.


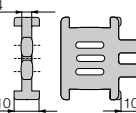
Shelf for e-chains®

unassembled	2220.X
assembled	2210.X

Shelf 2200 (e-chains® only)
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 3 different heights (in 5 mm increments).

Shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	2200.18	2210.18	038	2200.38	2210.38	068	2200.68	2210.68
023	2200.23	2210.23	043	2200.43	2210.43	073	2200.73	2210.73
028	2200.28	2210.28	048	2200.48	2210.48	088	2200.88	2210.88
033	2200.33	2210.33	058	2200.58	2210.58	099	2200.99	2210.99


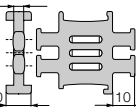



Strain relief separator for e-chains®

unassembled	2020.Z
assembled	2120.Z

Additional elements for interior separation

Strain relief separator 2020.Z (e-chains® only)
Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

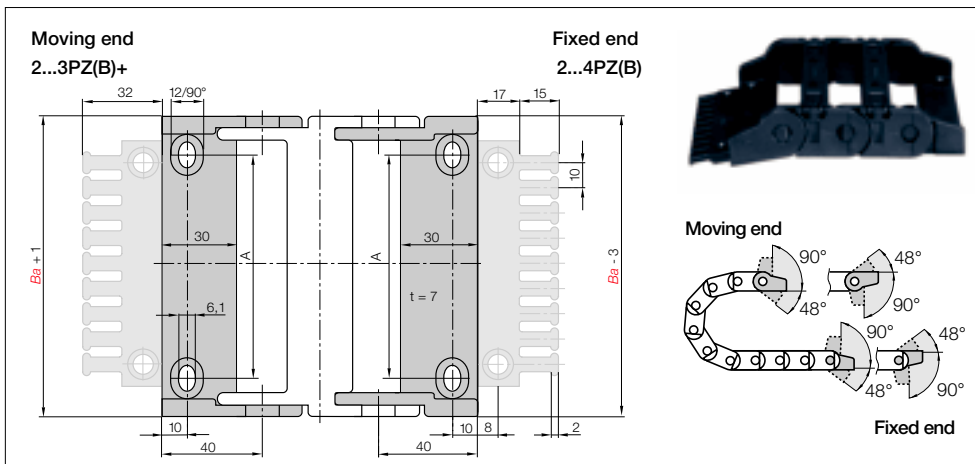
Strain relief separator for e-tubes

unassembled	2020.ZR
assembled	2120.ZR

Strain relief separator 2020.ZR (e-tubes only)
Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

2400·2450·2480·2500 | Mounting brackets **pivoting**

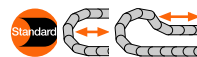
For tight installation conditions



Polymer **pivoting** | Standard - Universal for e-chains® and e-tubes

Recommended for unsupported and gliding applications

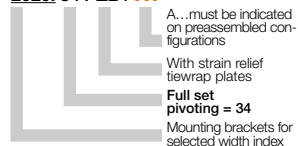
For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
.02. ▶	2020.34PZB+	2020.34PZBK1+	2020.34PZ+	12	3
.03. ▶	2030.34PZB+	2030.34PZBK1+	2030.34PZ+	25	4
.05. ▶	2050.34PZB+	2050.34PZBK1+	2050.34PZ+	44	6
.07. ▶	2070.34PZB+	2070.34PZBK1+	2070.34PZ+	64	8
.09. ▶	2090.34PZB+	2090.34PZBK1+	2090.34PZ+	77	10
.10. ▶	2100.34PZB+	2100.34PZBK1+	2100.34PZ+	90	10
.12. ▶	2125.34PZB+	2125.34PZBK1+	2125.34PZ+	112	12



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

Part No. structure (pivoting)

2020, 34 PZB+ **A1**



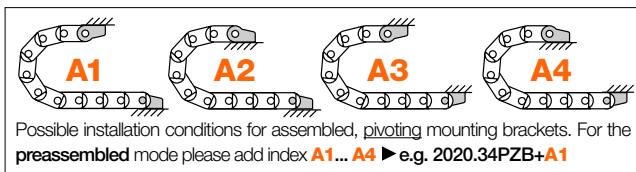
Single-part order

Mounting bracket **Moving end**

2020, 3 PZB+ **A1** (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

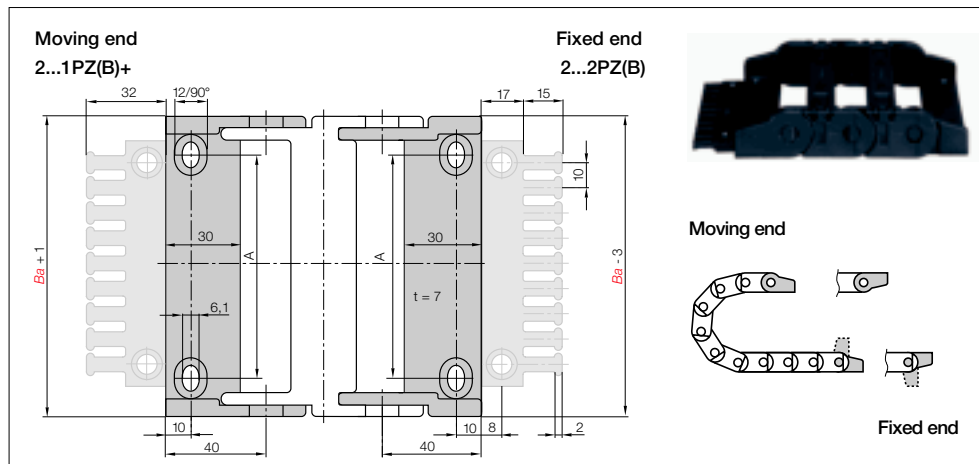
2020, 4 PZB **A1** (preassembled + tiewrap plate)



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

2400·2450·2480·2500 | Mounting brackets locking

For very high speed and acceleration



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

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
.02.	▶ 2020.12PZB+	2020.12PZBK1+	2020.12PZ+	12	3
.03.	▶ 2030.12PZB+	2030.12PZBK1+	2030.12PZ+	25	4
.05.	▶ 2050.12PZB+	2050.12PZBK1+	2050.12PZ+	44	6
.07.	▶ 2070.12PZB+	2070.12PZBK1+	2070.12PZ+	64	8
.09.	▶ 2090.12PZB+	2090.12PZBK1+	2090.12PZ+	77	10
.10.	▶ 2100.12PZB+	2100.12PZBK1+	2100.12PZ+	90	10
.12.	▶ 2125.12PZB+	2125.12PZBK1+	2125.12PZ+	112	12



- 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)

2020.12PZB+ A1

A...must be indicated on preassembled configurations



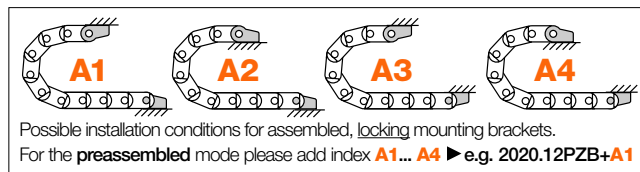
Single-part order

Mounting bracket **Moving end**

2020.12PZB+ A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

2020.12PZB A1 (preassembled + tiewrap plate)



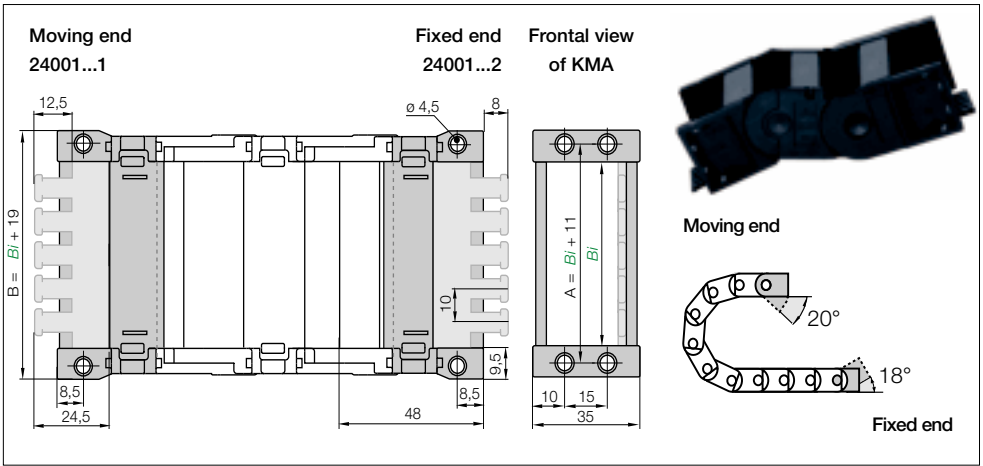
Possible installation conditions for assembled, locking mounting brackets.

For the **preassembled** mode please add index **A1... A4** ▶ e.g. **2020.12PZB+A1**



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

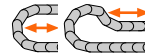
For tight installation conditions, all-sides attachment



KMA pivoting | All-sides attachment - Universal for e-chains® (Series 2400-2500)

Recommended for unsupported and gliding applications

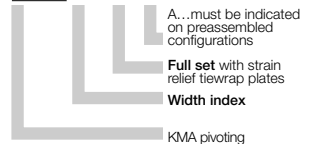
For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02.	▶ 24001.02.12ZB	24001.02.12	36	44	2
.03.	▶ 24001.03.12ZB	24001.03.12	49	57	4
.05.	▶ 24001.05.12ZB	24001.05.12	68	76	6
.07.	▶ 24001.07.12ZB	24001.07.12	88	86	7
.09.	▶ 24001.09.12ZB	24001.09.12	100	108	9
.10.	▶ 24001.10.12ZB	24001.10.12	114	122	10
.12.	▶ 24001.12.12ZB	24001.12.12	136	144	12



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-chain®

24001. 02. 12ZBA



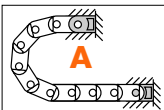
Single-part order

Mounting bracket **Moving end**

24001.02. 1ZBA (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

24001.02. 2ZBA (preassembled + tiewrap plate)



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **24001. 02. 12ZBA**

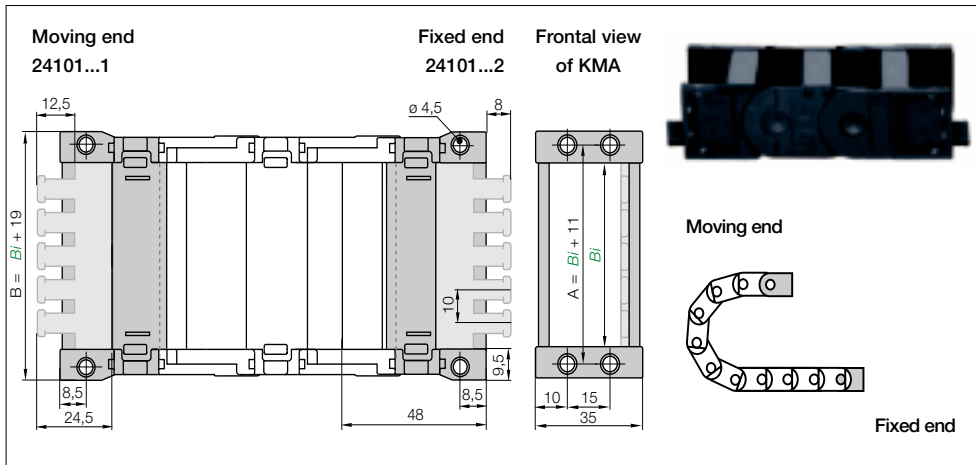


Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

e-chains® | 2400-2500 | KMA mounting brackets locking

2400
2500

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2400-2500)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02. ▶	24101.02.12ZB	24101.02.12	36	44	2
.03. ▶	24101.03.12ZB	24101.03.12	49	57	4
.05. ▶	24101.05.12ZB	24101.05.12	68	76	6
.07. ▶	24101.07.12ZB	24101.07.12	88	86	7
.09. ▶	24101.09.12ZB	24101.09.12	100	108	9
.10. ▶	24101.10.12ZB	24101.10.12	114	122	10
.12. ▶	24101.12.12ZB	24101.12.12	136	144	12



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

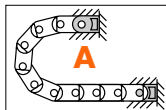
Part No. structure (locking) - e-chain®

24101. 02. 12ZBA



Single-part order

- Mounting bracket **Moving end**
24101.02. 1ZBA (preassembled + tiewrap plate)
 Mounting bracket **Fixed end**
24101.02. 2ZBA (preassembled + tiewrap plate)



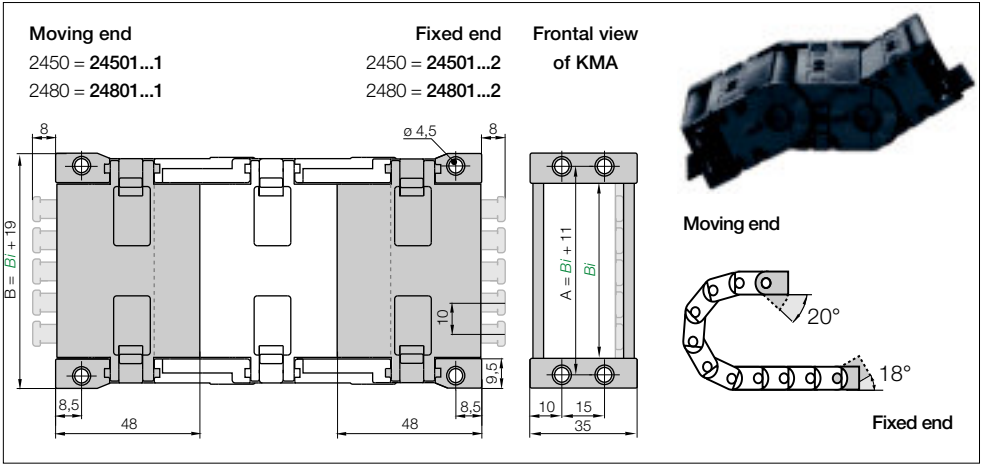
These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **24101. 02. 12ZBA**



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

e-tubes | 2450-2480 | KMA mounting brackets **pivoting**

For tight installation conditions, all-sides attachment

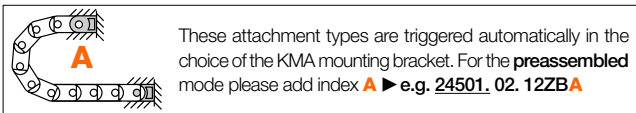


KMA pivoting | All-sides attachment - Universal for e-chains® (Series 2450-2480)

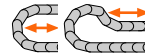
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02.	▶ 24501 24801 .02.12ZB	24501 24801 .02.12	36	44	2
.03.	▶ 24501 24801 .03.12ZB	24501 24801 .03.12	49	57	4
.05.	▶ 24501 24801 .05.12ZB	24501 24801 .05.12	68	76	6
.07.	▶ 24501 24801 .07.12ZB	24501 24801 .07.12	88	86	7
.09.	▶ 24501 24801 .09.12ZB	24501 24801 .09.12	100	108	9
.10.	▶ 24501 24801 .10.12ZB	24501 24801 .10.12	114	122	10
.12.	▶ 24501 24801 .12.12ZB	24501 24801 .12.12	136	144	12

i KMA pivoting Part No. 24501... for half e-tube Series 2450
KMA pivoting Part No. 24801... for full e-tube Series 2480



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



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-tube



Single-part order

Mounting bracket **Moving end**

24501.02. 1ZBA (preassembled + tiewrap plate)

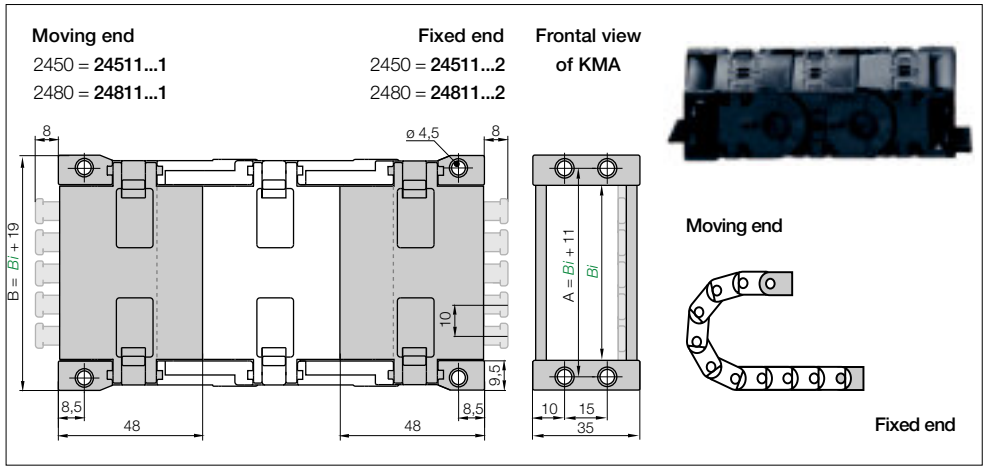
Mounting bracket **Fixed end**

24501.02. 2ZBA (preassembled + tiewrap plate)

e-tubes | 2450-2480 | KMA mounting brackets locking

2450
2480

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2450-2480)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Dim. A [mm]	Dim. B [mm]	Number of teeth
.02.	▶ 24511 24811 .02.12ZB	24511 24811 .02.12	36	44	2
.03.	▶ 24511 24811 .03.12ZB	24511 24811 .03.12	49	57	4
.05.	▶ 24511 24811 .05.12ZB	24511 24811 .05.12	68	76	6
.07.	▶ 24511 24811 .07.12ZB	24511 24811 .07.12	88	86	7
.09.	▶ 24511 24811 .09.12ZB	24511 24811 .09.12	100	108	9
.10.	▶ 24511 24811 .10.12ZB	24511 24811 .10.12	114	122	10
.12.	▶ 24511 24811 .12.12.ZB	24511 24811 .12.12	136	144	12



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- Pluggable strain relief tiewrap plate, adjustable to 3 heights
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

i **KMA locking Part No. 24511... for half e-tube Series 2450**
KMA locking Part No. 24811... for full e-tube Series 2480

Part No. structure (locking) - e-tube

24511. 02. 12ZBA



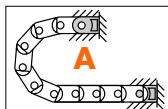
Single-part order

Mounting bracket **Moving end**

24511.02. 12ZBA (preassembled + tiewrap plate)

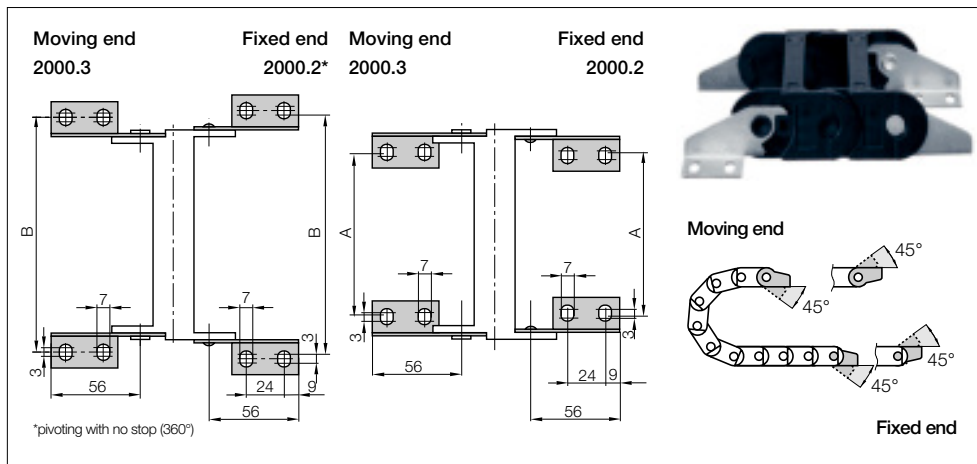
Mounting bracket **Fixed end**

24511.02. 22ZBA (preassembled + tiewrap plate)



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **24511. 02. 12ZBA**

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

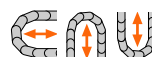
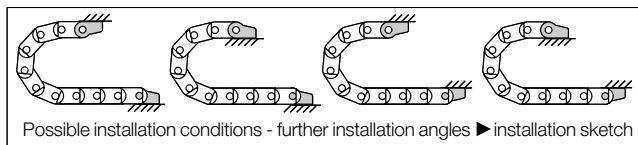


Steel pivoting | For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]
.02. ▶	2000.32	2000.32.E	–	60
.03. ▶	2000.32	2000.32.E	25	73
.05. ▶	2000.32	2000.32.E	44	92
.07. ▶	2000.32	2000.32.E	64	112
.09. ▶	2000.32	2000.32.E	76	124
.10. ▶	2000.32	2000.32.E	90	138
.12. ▶	2000.32	2000.32.E	112	160

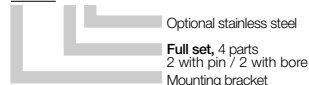
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Pivoting connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

2000.32.E



Single-part order

Mounting bracket **Moving end**

2020.3 (1 part left / right)

Mounting bracket **Fixed end**

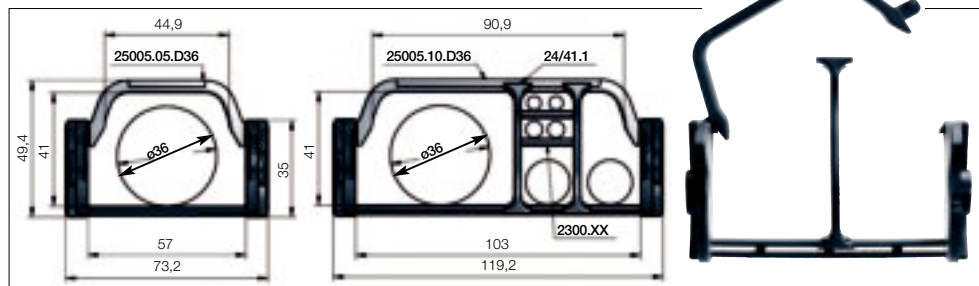
2020.2 (1 part left / right)



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

2400·2450·2480·2500 | More options and accessories

NEW in this catalog



Extender crossbars Series 2400-2500-2450 - Enormous increase of the interior for the smooth guiding of hoses

- Suitable for hoses with an outer diameter of max. 36 mm
- Optionally openable along the inner or outer radius, swivelling
- Modular interior separation **Part No. 25/41.1** (not for Series 2450)
- Cable-friendly design of extender crossbar and interior separation
- High holding force of the extender crossbar



Order example

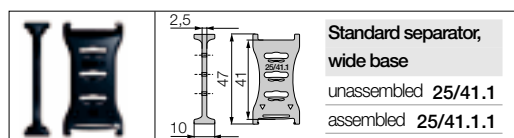
e-chain® with extender crossbar
snap-open along outer radius,
Bi 57 mm, *R* 100 mm:
Part No. 2500.05D36.100.0

Extender crossbars for e-chains® snap-open along inner radius	Extender crossbars for e-chains® snap-open along outer radius	Extender crossbars for half e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]
2400.05D36.R.0	2500.05D36.R.0	2450.05D36.R.0	57	73	055* 075 100 125 150 175 200 225 250
2400.10D36.R.0	2500.10D36.R.0	2450.10D36.R.0	103	119	055* 075 100 125 150 175 200 225 250

*Radius 055 only possible with e-chains® Series 2500 !

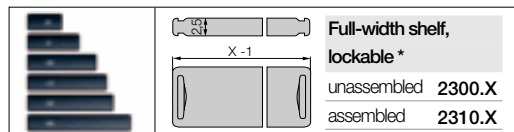
Supplement Part No. with required radius. Example: **2500.05D36.100.0**

Series 2400-2500 | Interior separation for extender crossbars (not for Series 2450)



Standard separator, wide base

For maximum locking strength and safe standing. In standard configuration separators are assembled every 2nd link!



Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 3 levels.

Product range ▶ page 5.149

*Available upon request. Delivery time approx. 1-2 weeks after intake of order.

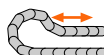
Note: Only suitable for e-chain® Series 2400/2500!

Optional: **Support tray tool kit.**

For support of the lower run.

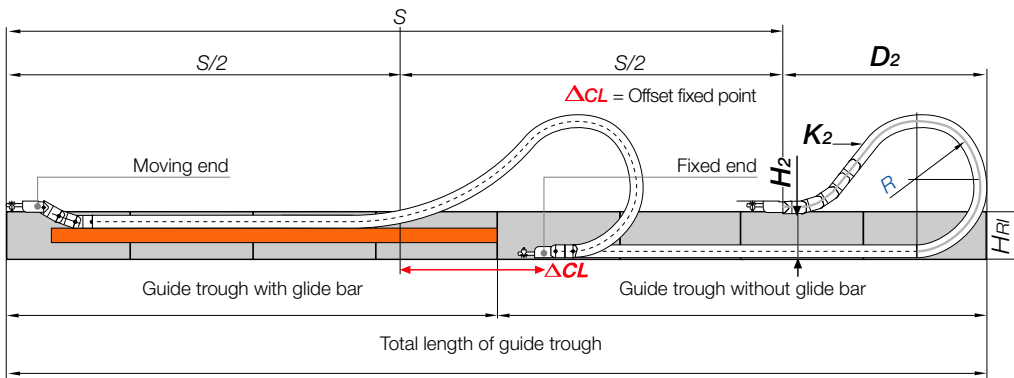
Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.011.05.1000.0** The complete range with order options ▶ from page 9.70





Gliding applications | For long travels from 10 m to max. 100 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 2400/2450/2480 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 2500** that snaps open along the outer radius. **In case of travels between 4 and 10 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



Pitch = 46 mm/link · Links/m = 22 (1012 mm) · Chain length = $S_2 + K$

R	055*	075	100	125	150	175	200	225	250
H ₂	110	150	100	100	100	100	100	100	100
D ₂ +25	142	162	380	440	590	755	950	1040	1130
K ₂	265	330	644	736	1012	1242	1472	1610	1794
ΔCL	-	-	204	244	364	504	674	754	804

*for Series 2450/2480 upon request. Before using Series 2400/2450/2480 on long travels please consult igus®.

More details | For long travel applications

autoglide 2400.Bi.AG.R - self-guiding, no guide troughs - travel lengths ≤ 50 m

v_{max} 1,5 m/s

Self-guiding e-chainsystems® - no need for guide troughs ► page 9.90

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height

v_{max} 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s². No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



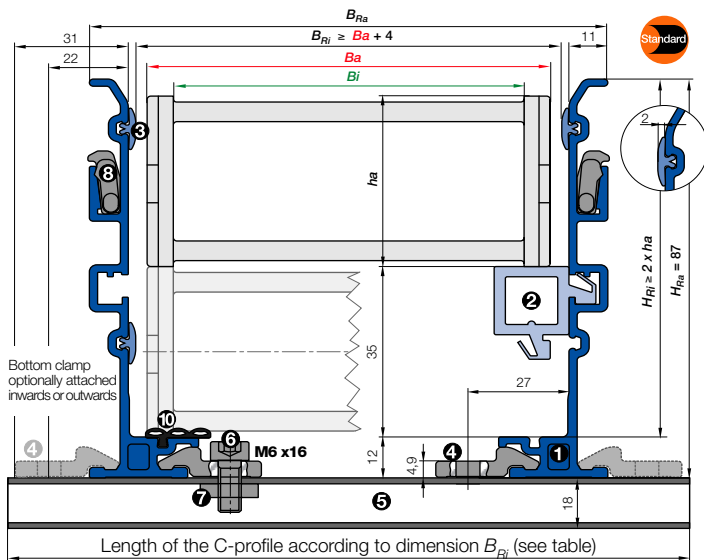
H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

ΔCL = Offset fixed point
H_{RI} = Inner trough height

S = Length of travel
S/2 = Half length of travel

Part No. 971.30 | 971.31 | Trough height: 87 mm
Aluminum "SuperTrough" | Basic Version



Installation set "Basic" with C-Profile
Bottom Clamp optionally attached inwards or outwards
2500.05.200.0 ► Order example

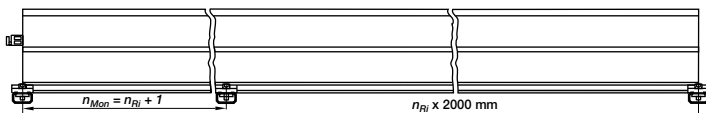
B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.02 45	-	960.30.150
.03 58	-	960.30.150
.05 77	960.30.125	960.30.175
.07 97	960.30.150	960.30.200
.09 109	960.30.175	960.30.225
.10 123	960.30.175	960.30.225
.12 145	960.30.200	960.30.250

Insert for the installation set "Heavy-Duty": **971.50.XXX** instead of **960.30.XXX** on the right column "attached outwards"

- **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) ⑩ Optional: Silencer profile, rubber
- **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 2500.05.200.0 with $B_{Ri} = 77$

- 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. 971.30.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. 971.31.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. 971.80**
- Option:** For an additional noise dampening with silencer profile, please add Index A - Example: **Part No. 971.30.SLA**



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

Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ► from page 9.24

- Trough set
- Installation set
- Glide bar
- C-Profile
- Ba = Outer width e-chains
- Bi = Inner width e-chains
- B_{Ri} = Inner trough width
- B_{Ro} = Outer trough width
- H_{Ri} = Inner trough height
- H_{Ro} = Outer trough height
- n_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

2400-2450-2480-2500 | Options and order key



Standard

Part No.
Standard
e-chains®/e-tubes



Additional noise dampening with pads

Part No.
Low noise (with pads)
e-chains®/e-tubes



NC-Version - (no camber) without pretension

Part No.
NC-Material
e-chains®/e-tubes



Reverse bending radius for circular movements

Part No.
RBR
e-chains®/e-tubes



2400.03.R.0

e-chain* snap-open along inner radius*

2500.03.R.0

e-chain* snap-open along outer radius

2450.03.R.0

Half e-tube snap-open along inner radius*

2480.03.R.0

e-tube snap-open along inner radius*

S2400.03.R.0

e-chain* snap-open along inner radius*

S2450.03.R.0

Half e-tube snap-open along inner radius*

S2480.03.R.0

e-tube snap-open along inner radius*

2400.03.R.0.NC

e-chain* snap-open along inner radius*

2500.03.R.0.NC

e-chain* snap-open along outer radius

2450.03.R.0.NC

Half e-tube snap-open along inner radius*

2480.03.R.0.NC

e-tube snap-open along inner radius*

2400.03.R1/R2.0

e-chain* snap-open along inner radius*

2500.03.R1/R2.0

e-chain* snap-open along outer radius

2450.03.R1/R2.0**

Half e-tube snap-open along inner radius*

2480.03.R1/R2.0**

e-tube snap-open along inner radius*



Delivery time
24h or today!*

Delivery time:
3-5 work days

Delivery time:
3-5 work days

Delivery time:
10 work days

(2-5 work days at an express surcharge) **upon request

Combination possibilities | Examples

	Low-noise option	NC-Version	RBR-Version	XXL-Material	HT-Material*	ESD-Material
Low-noise option		S2400.03.R.0.NC	-	S2400.03.R.0.XXL	S2480.03.R.0.HT	S2400.03.R.0.ESD
NC-Version	S2400.03.R.0.NC		-	-	2480.30.R.0.HT.NC	2400.03.R.0.ESD.NC
RBR-Version	-	-		-	2480.03.R1/R2.0.HT	2400.03.R1/R2.0.ESD
XXL-Material	S2400.03.R.0.XXL	-	-		-	-
HT-Material*	S2480.03.R.0.HT	2480.30.R.0.HT.NC	2480.30.R1/R2.0.HT	-		-
ESD-Material	S2400.03.R.0.ESD	2400.03.R.0.ESD.NC	2400.03.R1/R2.0.ESD	-	-	

for gliding applications please consult igus

2400·2450·2480·2500 | Options and order key

Unsupported lengths +25% possible

No burning-in of hot chips up to 850°C (1562°F)

ATEX / ESD classified e-chains®
II 2 GD

Part No. XXL-Material**
e-chains®/e-tubes

Part No. HT-Material
only for e-tubes

Part No. ESD-Material
e-chains®/e-tubes

2400.03.R.0.XXL
e-chain* snap-open along inner radius*

2480/2450.03.R.0.HT
Complete e-tube**

2400.03.R.0.ESD
e-chain* snap-open along inner radius*

2500.03.R.0.XXL
e-chain* snap-open along outer radius

2480/2450.03.HT.R.0
Bottom only

2500.03.R.0.ESD
e-chain* snap-open along outer radius

2450.03.R.0.XXL
Half e-tube snap-open along inner radius*

2450.03.R.0.ESD
Half e-tube snap-open along inner radius*

2480.03.R.0.XXL
e-tube snap-open along inner radius*

2480.03.R.0.ESD
e-tube snap-open along inner radius*

Delivery time:
1-2 weeks

Delivery time:
10 work days

Delivery time:
5 work days

*for gliding applications please consult igus®

**Lower part made of XXL-Material

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 22 links **2500.03.100.0**

+ Mounting brackets 1 set (with tiewrap plates) **2100.34PZB+**

+ Interior separation with 2 separators assembled every 2nd link **2 x 211**

Order text: 1,0 m 2500.03.100.0 + 2100.34PZB + 2 x Part No. 211

Order key
2500.03.100.0



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



Many mounting options with or without strain relief

Opening system from left or right

System with 4 variations

Large pin for high stability

Double stop dog for long unsupported travels

Lateral glide surfaces

⊕ Optimal height, high stability

When to use Series 2600-2650-2680-2700:

- If a medium-sized, stable system with an inner height of 35 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 175 mm are required
- For unsupported lengths up to 2,70 m and fill weights up to 8,0 kg/m
- For long travels up to 120 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
- ▶ **System E4.1, Series E4.32, page 7.42**
- For simple applications and easy filling
- ▶ **easy chain®, Series E26, page 3.46**
- If e-tubes with smaller bending radii are required
- ▶ **e-tubes E2, Series R58, page 6.34**



Open E2/000 e-chains® in a flash with the e-chain® opener ▶ page 5.136

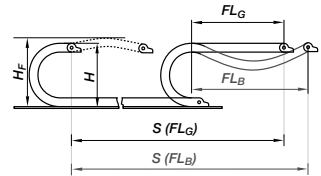
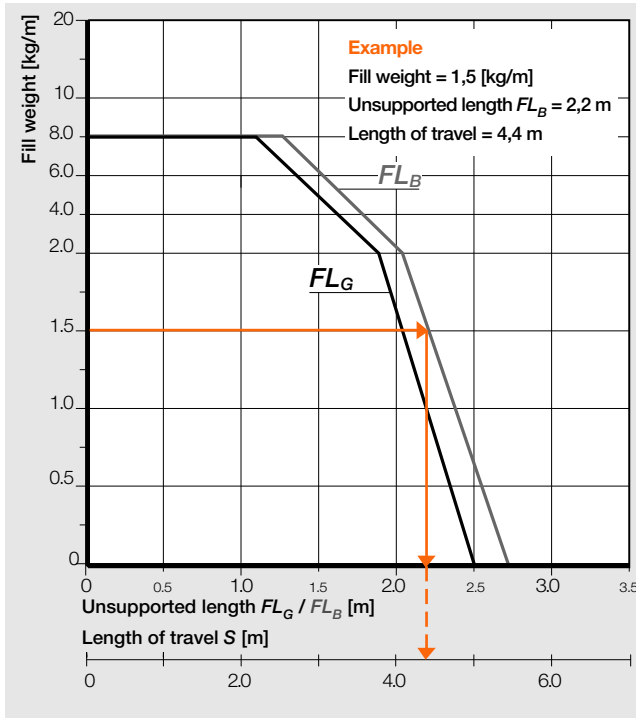


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000

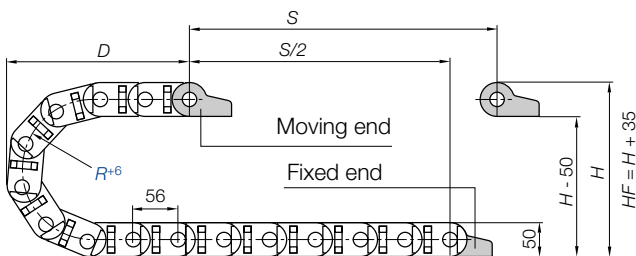


Standard Unsupported applications

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](#)

Gliding applications

Long travels up to 120 m.
 More information ► [page 5.200](#)



Technical Data

Speed, material, temperature and flammability class ► [page 5.140](#)

- Pitch** = 56 mm/link
- Links/m** = 18 (1008 mm)
- Chain length** = $S/2 + K$

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


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

*for Series 2650/2680 upon request. Before using Series 2600/2650/2680 on long travels please consult igus®.

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



e-chains® | Series 2600 snap-open along inner radius
e-chains® | Series 2700 snap-open along outer radius | Standard

e-chains® snap-open along inner radius	e-chains® snap-open along outer radius	 Bi [mm]	Ba [mm]	R Bending radii [mm]	2600 [kg/m]	2700 [kg/m]
2600. 05 .R.0	2700. 05 .R.0	50	66	063* 075* 100 125 150 175 200 250	≈ 1,17	≈ 1,17
2600. 06 .R.0	2700. 06 .R.0	65	81	063* 075* 100 125 150 175 200 250	≈ 1,24	≈ 1,24
2600. 07 .R.0	2700. 07 .R.0	75	91	063* 075* 100 125 150 175 200 250	≈ 1,30	≈ 1,30
2600. 09 .R.0	2700. 09 .R.0	90	106	063* 075* 100 125 150 175 200 250	≈ 1,37	≈ 1,37
2600. 10 .R.0	2700. 10 .R.0	100	116	063* 075* 100 125 150 175 200 250	≈ 1,39	≈ 1,39
2600. 12 .R.0	2700. 12 .R.0	125	141	063* 075* 100 125 150 175 200 250	≈ 1,48	≈ 1,48
2600. 15 .R.0	2700. 15 .R.0	150	166	063* 075* 100 125 150 175 200 250	≈ 1,62	≈ 1,62
2600. 17 .R.0	2700. 17 .R.0	175	194	063* 075* 100 125 150 175 200 250	≈ 1,85	≈ 1,85

Supplement Part No. with required radius. Example: **2700.05.100.0**

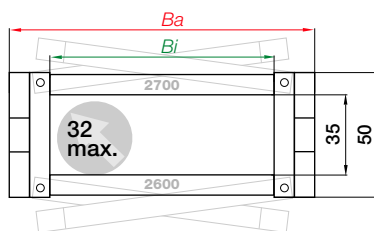
When to use Series 2600: ● e-chain® with snap-open accessibility along inner radius - for long travels please consult igus® (autoglide System ► page 9.90). **When to use Series 2700:** ● e-chain® with snap-open accessibility along outer radius - suitable for long travels.



Order key

2600. 05. 100. 0 e-chain®
2700. 05. 100. 0 e-chain®

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



2600.05.100.0 = e-chain® snap-open along inner radius, **Bi 50** mm inner width, **R 100** mm radius, color black
2700.05.100.0 = e-chain® snap-open along outer radius, **Bi 50** mm inner width, **R 100** mm radius, color black
 More order examples and configuration options ► page 5.202



Part No. of e-chain® links as single parts ► page 5.141



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



Half e-tubes | Serie 2650 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 2680 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	2650 [kg/m]	2680 [kg/m]
2650.05.R.0	2680.05.R.0	50	66	063* 075* 100 125 150 175 200 250	≈ 1,25	≈ 1,33
2650.06.R.0	2680.06.R.0	65	81	063* 075* 100 125 150 175 200 250	≈ 1,36	≈ 1,43
2650.07.R.0	2680.07.R.0	75	91	063* 075* 100 125 150 175 200 250	≈ 1,40	≈ 1,51
2650.09.R.0	2680.09.R.0	90	106	063* 075* 100 125 150 175 200 250	≈ 1,55	≈ 1,62
2650.10.R.0	2680.10.R.0	100	116	063* 075* 100 125 150 175 200 250	≈ 1,61	≈ 1,81
2650.12.R.0	2680.12.R.0	125	141	063* 075* 100 125 150 175 200 250	≈ 1,70	≈ 1,99
2650.15.R.0	2680.15.R.0	150	166	063* 075* 100 125 150 175 200 250	≈ 1,80	≈ 2,17
2650.17.R.0**	2680.17.R.0**	175	194	063* 075* 100 125 150 175 200 250	≈ 2,00	≈ 2,35

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 2650/2680 available upon request. Delivery time approx. 1-2 weeks after order.

Radii 063, 075: the e-tube is not completely enclosed. Please consult igus*!

Supplement Part No. with required radius. Example: 2650.05.100.0

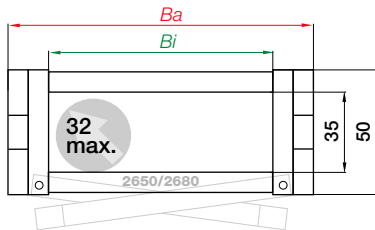
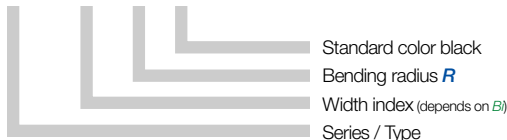
When to use Series 2650: ● Half e-tube snap-open along the inner radius - for long travels please consult igus*. **When to use Series 2680:** ● Full e-tube snap-open along the inner radius - for long travels please consult igus*.



Order key

2650.05.100.0 Half e-tube

2680.05.100.0 Full e-tube



2650.05.100.0 = Half e-tube snap-open along inner radius, Bi 50 mm inner width, R 100 mm radius, color black

2680.05.100.0 = Full e-tube snap-open along inner radius, Bi 50 mm inner width, R 100 mm radius, color black

More order examples and configuration options ► page 5.202



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes incl. accessories from stock. Delivery in 24h or today.*

*Delivery time means time until shipping of goods

...-5 dB(A)

depends on environmental conditions,
similar to figure



Noise dampening | Noise reduction \approx 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		R Bending radii [mm]	Bi [mm]
S2600.05	S2650.05	S2680.05	.R.0	063* 075* 100 125 150 175 200 250	50
S2600.06	S2650.06	S2680.06	.R.0	063* 075* 100 125 150 175 200 250	65
S2600.07	S2650.07	S2680.07	.R.0	063* 075* 100 125 150 175 200 250	75
S2600.09	S2650.09	S2680.09	.R.0	063* 075* 100 125 150 175 200 250	90
S2600.10	S2650.10	S2680.10	.R.0	063* 075* 100 125 150 175 200 250	100
S2600.12	S2650.12	S2680.12	.R.0	063* 075* 100 125 150 175 200 250	125
S2600.15	S2650.15	S2680.15	.R.0	063* 075* 100 125 150 175 200 250	150
S2600.17	S2680.17**	S2680.17**	.R.0	063* 075* 100 125 150 175 200 250	175

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 2650/2680 available upon request. Delivery time approx. 1-2 weeks after order.

Radii 063, 075: the e-tube is not completely enclosed. Please consult igus!

Supplement Part No. with required radius. Example: **S2600.05.100.0**



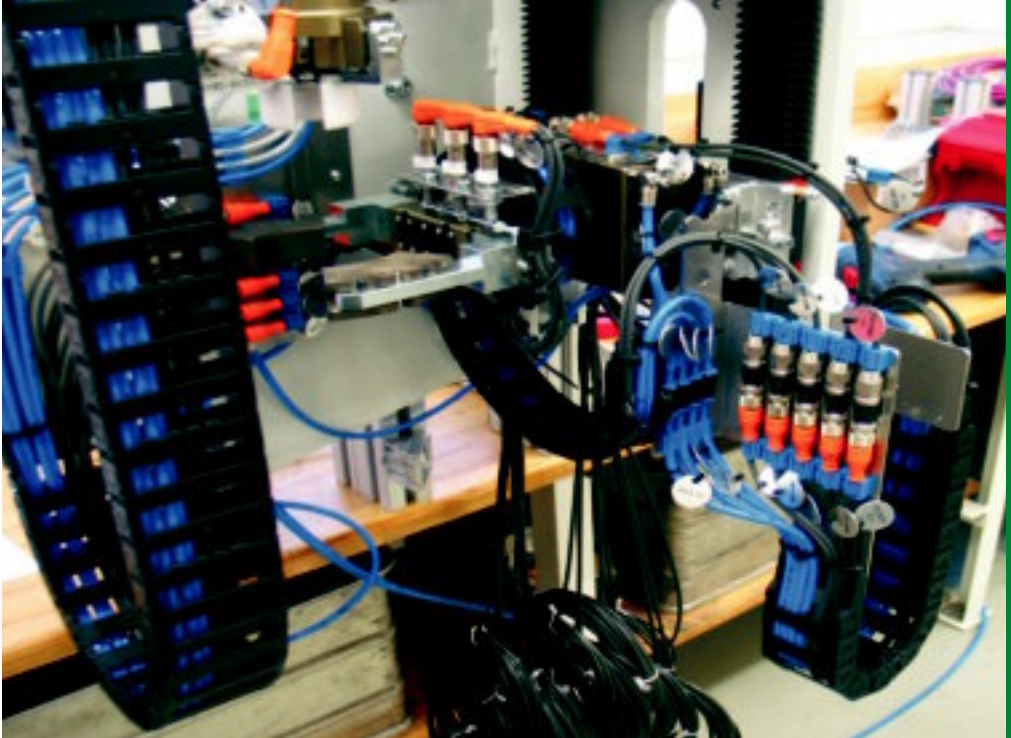
For e-chains® with noise dampening pads supplement Part No. with required index "S"

Example: Part No. **S2600.05.100.0** = e-chain® snap-open along inner radius with noise dampening pads



e-chain® with noise dampening pads - Delivery time 3-5 work days.

*Delivery time means time until shipping of goods

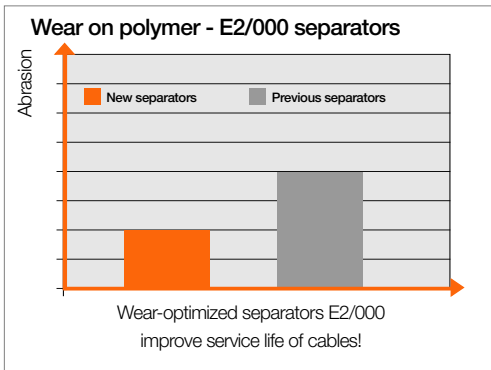


E2/000 - dirt-unsensible e-chain® which saves installation space. Machine tool for workpieces pictured here



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



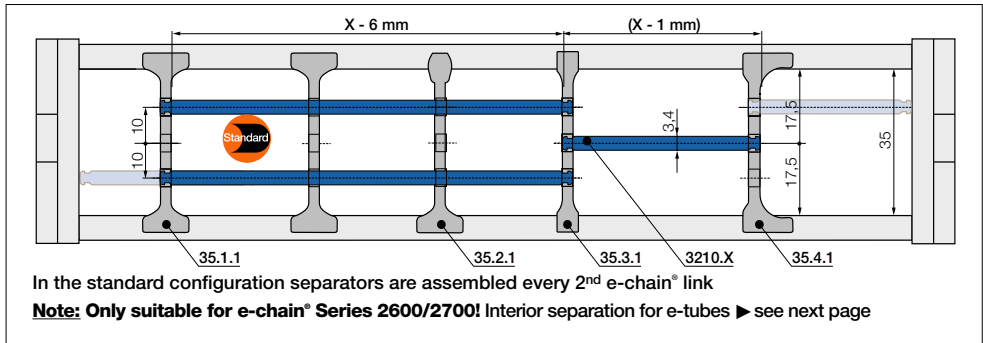

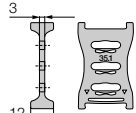
- ① Standard separator, wide base - Part No. 35.1 ③ Separator, narrow base - Part No. 35.3 ⑤ Full-width shelf, lockable* - Part No. 3200.XX
 ② Separator with narrow head - Part No. 35.2 ④ Separator, asymmetrical - Part No. 35.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order



Interior separation single order - Delivery time 24h or today.*

*Delivery time means time until shipping of goods


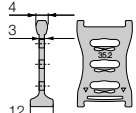
New generation of interior separation

Standard separator, wide base

unassembled	35.1
assembled	35.1.1


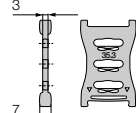
Standard - for all applications
 Separator with a wide base for maximum locking strength and safe standing in e-chains®.

Separator, narrow head

unassembled	35.2
assembled	35.2.1


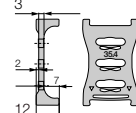
For even faster installation
 Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).

Separator, narrow base

unassembled	35.3
assembled	35.3.1


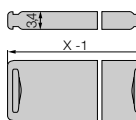
For many thin cables
 Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.

Separator, asymmetrical

unassembled	35.4
assembled	35.4.1

For side-mounted applications
 Asymmetrical separator, for defined distance. No additional spacers necessary.

Full-width shelf, lockable

unassembled	3200.X
assembled	3210.X

Horizontal separation
 Full-width shelf locks safely into separators on both ends, fixed width possible. To be used as full-width shelf for a consequent subdivision or as shelf for a pattern system in 3 levels.

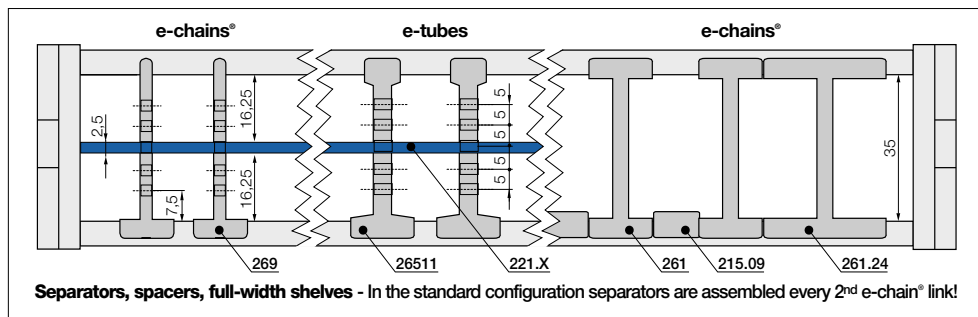
*Available upon request. Delivery time approx. 1-2 weeks after intake of order



Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	3200.050	3210.050	115	3200.115	3210.115	175	3200.175	3210.175
075	3200.075	3210.075	125	3200.125	3210.125			
100	3200.100	3210.100	150	3200.150	3210.150			

Previous interior separation



		Slotted separator for e-chains[®] unassembled 268 assembled 269
--	--	---

Slotted separator 268 (e-chains[®] only)

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

		Slotted separator for e-tubes unassembled 26501 assembled 26511
--	--	--

Slotted separator 26501 (e-tubes only)

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

		Separator, for e-chains[®] unassembled 260 assembled 261
--	--	--

Separator 260 (e-chains[®] only)

For a simple vertical subdivision on e-chains[®].

		Separator, wide base* for e-chains[®] unassembled 260.24 assembled 261.24
--	--	---

Separator, wide base* 260.24 (e-chains[®] only)

If a wide space between the separators has to be kept or separators have to be fixed in their position.

(*for side-mounted applications)

		Spacer* e-chains[®] unassembled 205.09 assembled 215.09
--	--	---

Spacer* 205.09 (e-chains[®] only)

Separators can be fixed in position. Only mountable onto the fixed crossbar. (*for side-mounted applications)

		Full-width shelf e-chains[®]/e-tubes unassembled 220.X assembled 221.X
--	--	--

Full-width shelf 220.X (e-chains[®] and e-tubes)

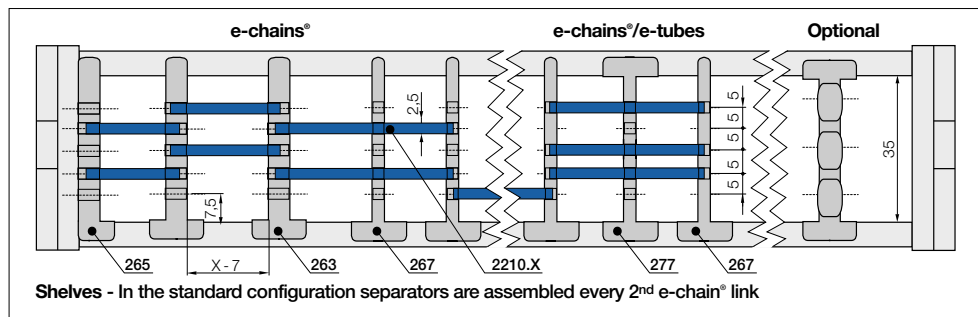
This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 5 different heights (in 5 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	220.50	221.50	090	220.90	221.90	150	220.150	221.150
065	220.65	221.65	100	220.100	221.100	175	220.175	221.175
075	220.75	221.75	125	220.125	221.125			

2600·2650·2680·2700 | Interior separation | Options

Previous interior separation



Slotted middle plate for e-chains®

unassembled	262
assembled	263

Middle plate 262 (e-chains® only)
To achieve a modular shelving by shelf 2200.X arranged at 5 different heights (in 5 mm increments)

Slotted separator for e-chains®

unassembled	266
assembled	267

Slotted separator 266 (e-chains® only)
For a very fine subdivision. No retrofitting into an existing separation system without dismantling the interior separators first.

Open slotted separator for e-chains® / e-tubes

unassembled	276
assembled	277

Open slotted separator 276 (e-chains® and e-tubes)
Quick assembly - retrofitting into an existing interior separation system without dismantling.

Side plate for e-chains®

unassembled	264
assembled	265

Side plate 264 (e-chains® only)
Works like middle plate.
Allows modular shelving close to the side links.

Shelf for e-chains® / e-tubes

unassembled	2200.X
assembled	2210.X

Shelf 2200.X (e-chains® and e-tubes)
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 5 different heights (in 5 mm increments).

Shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	2200.18	2210.18	043	2200.43	2210.43	088	2200.88	2210.88
023	2200.23	2210.23	048	2200.48	2210.48	099	2200.99	2210.99
028	2200.28	2210.28	058	2200.58	2210.58	124	2200.124	2210.124
033	2200.33	2210.33	068	2200.68	2210.68	149	2200.149	2210.149
038	2200.38	2210.38	073	2200.73	2210.73			

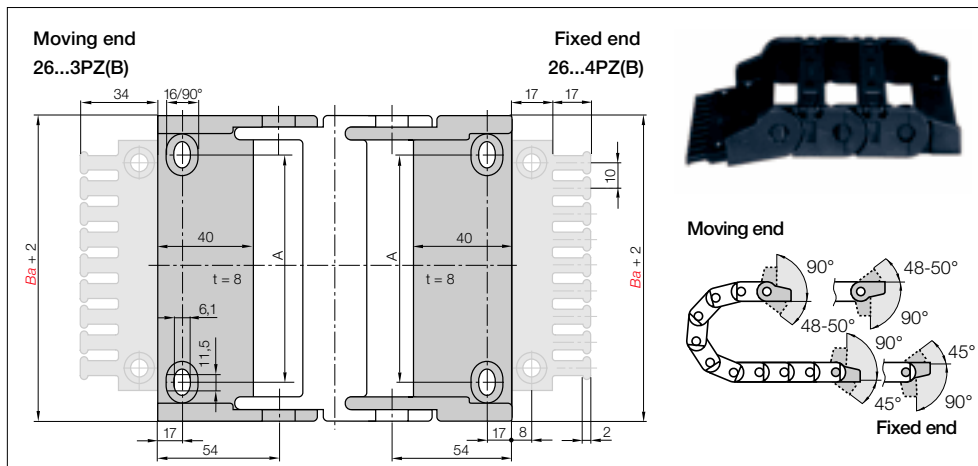
Strain relief separator for e-chains®

unassembled	262.Z
assembled	263.Z

Additional elements for interior separation
Strain relief separator 262.Z (e-chains® only)
Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

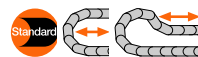
2600·2650·2680·2700 | Mounting brackets **pivoting**

For tight installation conditions



Polymer pivoting | Standard - Universal for e-chains® and e-tubes
Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
05. ▶	2605.34PZB	2605.34PZBK1	2605.34PZ	30	5
06. ▶	2606.34PZB	2606.34PZBK1	2606.34PZ	45	5
07. ▶	2607.34PZB	2607.34PZBK1	2607.34PZ	55	7
09. ▶	2609.34PZB	2609.34PZBK1	2609.34PZ	70	9
10. ▶	2610.34PZB	2610.34PZBK1	2610.34PZ	80	10
12. ▶	2612.34PZB	2612.34PZBK1	2612.34PZ	105	12
15. ▶	2615.34PZB	2615.34PZBK1	2615.34PZ	130	15
17. ▶	2617.34PZB	2617.34PZBK1	2617.34PZ	155	17



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

Part No. structure (pivoting)

2605, 34 PZB A1



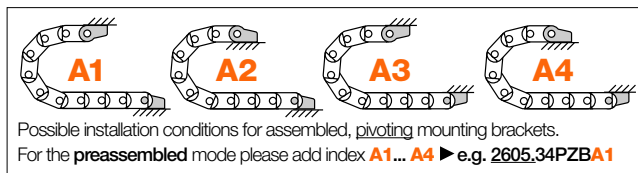
Single-part order

Mounting bracket **Moving end**

2605, 3 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

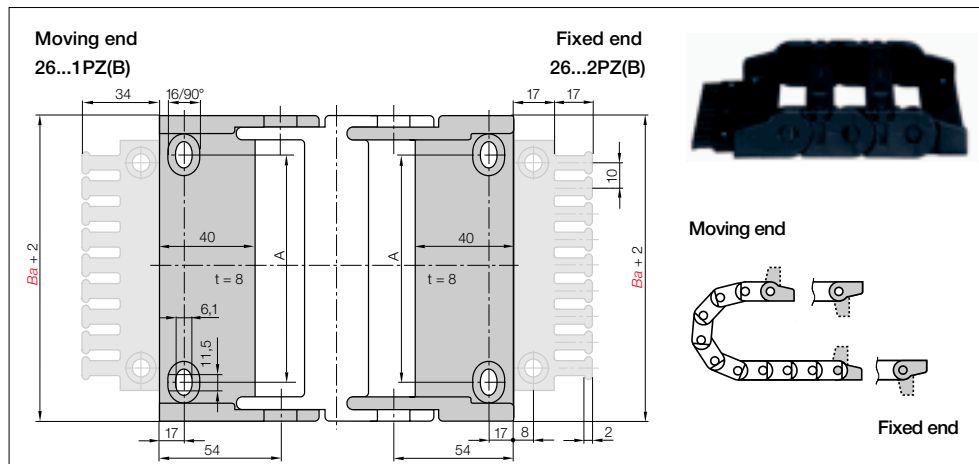
2605, 4 PZB A1 (preassembled + tiewrap plate)



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

2600·2650·2680·2700 | Mounting brackets locking

For very high speed and acceleration



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

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
05.	▶ 2605.12PZB	2605.12PZBK1	2605.12PZ	30	5
06.	▶ 2606.12PZB	2606.12PZBK1	2606.12PZ	45	5
07.	▶ 2607.12PZB	2607.12PZBK1	2607.12PZ	55	7
09.	▶ 2609.12PZB	2609.12PZBK1	2609.12PZ	70	9
10.	▶ 2610.12PZB	2610.12PZBK1	2610.12PZ	80	10
12.	▶ 2612.12PZB	2612.12PZBK1	2612.12PZ	105	12
15.	▶ 2615.12PZB	2615.12PZBK1	2615.12PZ	130	15
17.	▶ 2617.12PZB	2617.12PZBK1	2617.12PZ	155	17



- 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)

2605. 12 PZB A1

A...must be indicated on preassembled configurations

With strain relief tiewrap plates

Full set locking = 12

Mounting brackets for selected width index

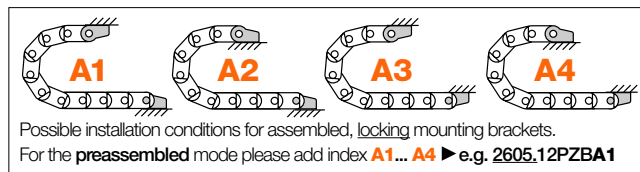
Single-part order

Mounting bracket **Moving end**

2605. 1 PZB A1 (preassembled + tiewrap plate)

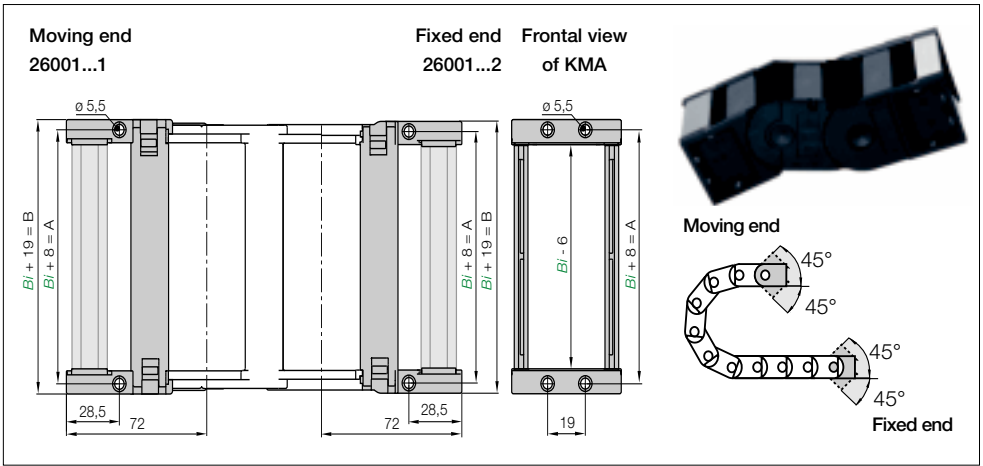
Mounting bracket **Fixed end**

2605. 2 PZB A1 (preassembled + 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 tight installation conditions, all-sides attachment

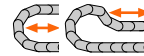


KMA pivoting | All-sides attachment - Universal for e-chains® (Series 2600-2700)

Recommended for unsupported and gliding applications

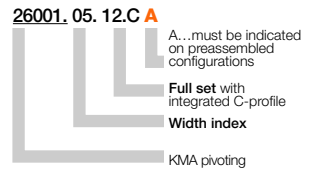
For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
05.	▶ 26001.05.12.C	26001.05.12	58	69
06.	▶ 26001.06.12.C	26001.06.12	73	84
07.	▶ 26001.07.12.C	26001.07.12	83	94
09.	▶ 26001.09.12.C	26001.09.12	98	109
10.	▶ 26001.10.12.C	26001.10.12	108	119
12.	▶ 26001.12.12.C	26001.12.12	133	144
15.	▶ 26001.15.12.C	26001.15.12	158	169
17.	▶ 26001.17.12.C	26001.17.12	183	194

KMA pivoting to one side: Moving end 26101...3 / Fixed end 26101...4



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-chain®



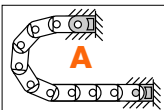
Single-part order

Mounting bracket **Moving end**

26001. 05. 1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

26001. 05. 2.C A (preassembled + C-profile)

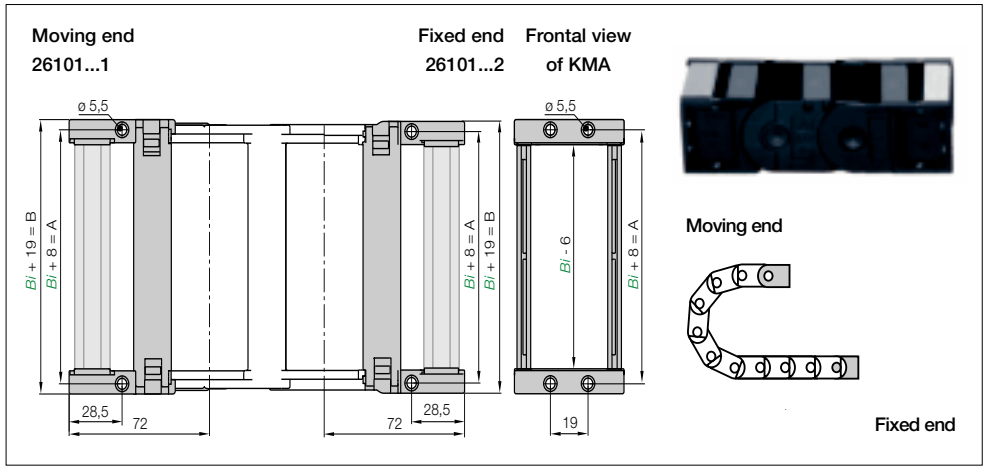


These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **26001.05.12.C A**



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, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2600-2700)
Recommended for vertical hanging and standing applications

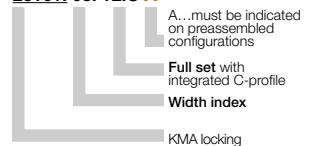
For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
05. ▶	26101.05.12.C	26101.05.12	58	69
06. ▶	26101.06.12.C	26101.06.12	73	84
07. ▶	26101.07.12.C	26101.07.12	83	94
09. ▶	26101.09.12.C	26101.09.12	98	109
10. ▶	26101.10.12.C	26101.10.12	108	119
12. ▶	26101.12.12.C	26101.12.12	133	144
15. ▶	26101.15.12.C	26101.15.12	158	169
17. ▶	26101.17.12.C	26101.17.12	183	194



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-chain®

26101. 05. 12.C A



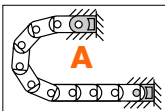
Single-part order

Mounting bracket **Moving end**

26101. 05. 1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

26101. 05. 2.C A (preassembled + C-profile)



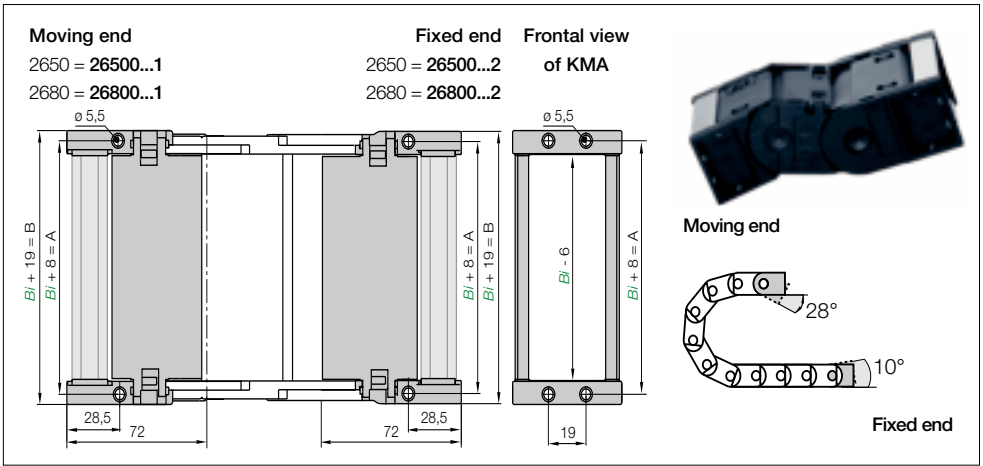
These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **26101.05.12.C A**



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

e-tubes | 2650-2680 | KMA mounting brackets **pivoting**

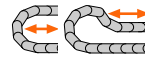
For tight installation conditions, all-sides attachment



KMA pivoting | All-sides attachment - Universal for e-chains® (Series 2650-2680)

Recommended for unsupported and gliding applications

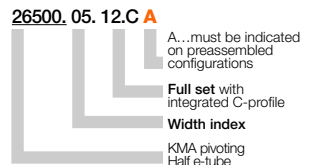
For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
05.	▶ 26500 26800 .05.12.C	26500 26800 .05.12	58	69
06.	▶ 26500 26800 .06.12.C	26500 26800 .06.12	73	84
07.	▶ 26500 26800 .07.12.C	26500 26800 .07.12	83	94
09.	▶ 26500 26800 .09.12.C	26500 26800 .09.12	98	109
10.	▶ 26500 26800 .10.12.C	26500 26800 .10.12	108	119
12.	▶ 26500 26800 .12.12.C	26500 26800 .12.12	133	144
15.	▶ 26500 26800 .15.12.C	26500 26800 .15.12	158	169
17.	▶ 26500 26800 .17.12.C	26500 26800 .17.12	183	194



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

i KMA pivoting Part No. 26500... for half e-tube Series 2650
KMA pivoting Part No. 26800... for full e-tube Series 2680

Part No. structure (pivoting) - e-tube



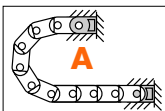
Single-part order

Mounting bracket **Moving end**

26500.05.1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

26500.05.1.C A (preassembled + C-profile)



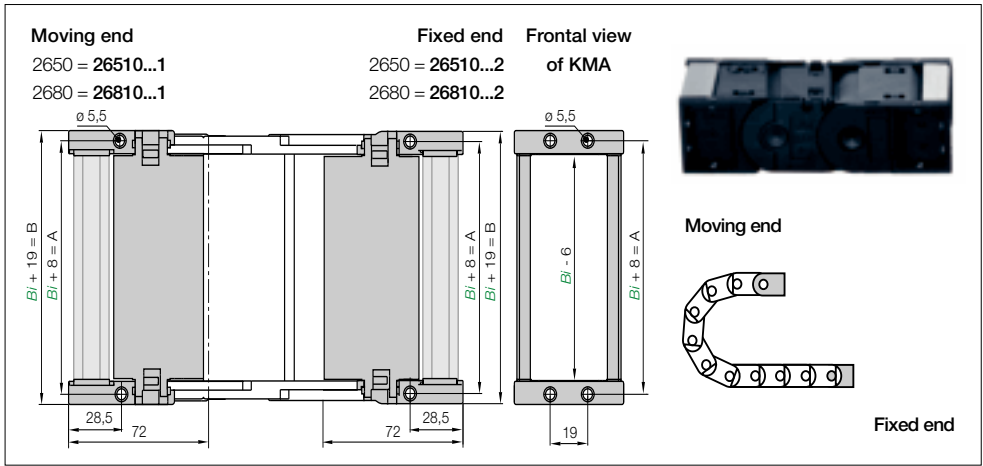
These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **26500.05.12.CA**



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

e-tubes | 2650-2680 | KMA mounting brackets locking

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 2650-2680)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
05.	▶ 26510 26810 .05.12.C	26510 26810 .05.12	58	69
06.	▶ 26510 26810 .06.12.C	26510 26810 .06.12	73	84
07.	▶ 26510 26810 .07.12.C	26510 26810 .07.12	83	94
09.	▶ 26510 26810 .09.12.C	26510 26810 .09.12	98	109
10.	▶ 26510 26810 .10.12.C	26510 26810 .10.12	108	119
12.	▶ 26510 26810 .12.12.C	26510 26810 .12.12	133	144
15.	▶ 26510 26810 .15.12.C	26510 26810 .15.12	158	169
17.	▶ 26510 26810 .17.12.C	26510 26810 .17.12	183	194



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

i KMA locking Part No. 26510... for half e-tube Series 2650
KMA locking Part No. 26810... for full e-tube Series 2680

Part No. structure (locking) - e-tube

26510. 05. 12.C **A**



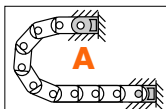
Single-part order

Mounting bracket **Moving end**

26510. 05. 1.C **A** (preassembled + C-profile)

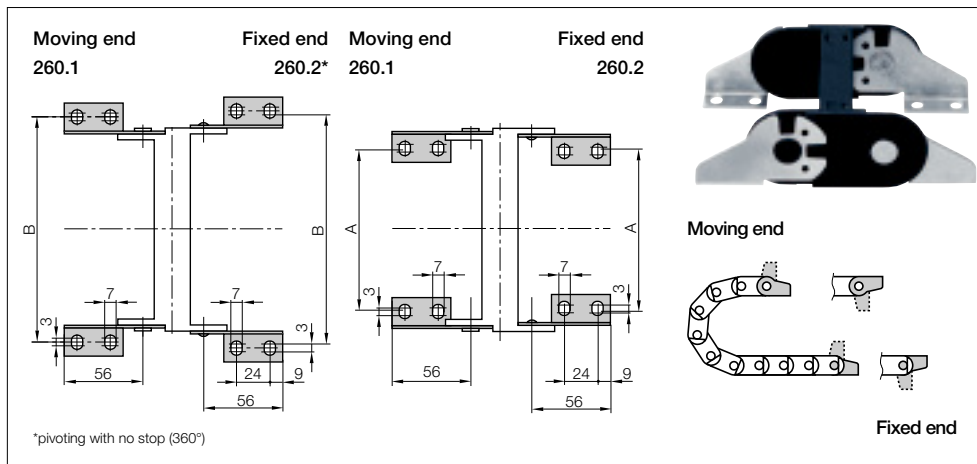
Mounting bracket **Fixed end**

26510. 05. 2.C **A** (preassembled + C-profile)



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **26510.05.12.CA**

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

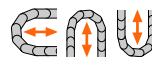


Steel pivoting | For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]
05. ▶	260.12	260.12.E	37	83
06. ▶	260.12	260.12.E	52	98
07. ▶	260.12	260.12.E	62	108
09. ▶	260.12	260.12.E	77	123
10. ▶	260.12	260.12.E	87	133
12. ▶	260.12	260.12.E	112	158
15. ▶	260.12	260.12.E	137	183
17. ▶	260.12	260.12.E	163	209

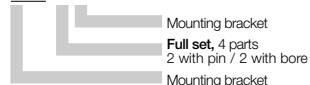
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Pivoting connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

260.12.E



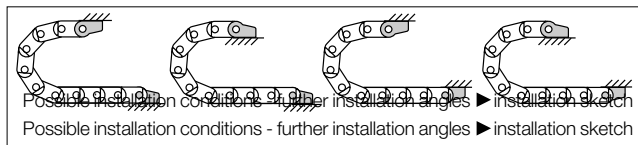
Single-part order

Mounting bracket **Moving end**

260.1 (1 part left / right)

Mounting bracket **Fixed end**

260.2 (1 part left / right)



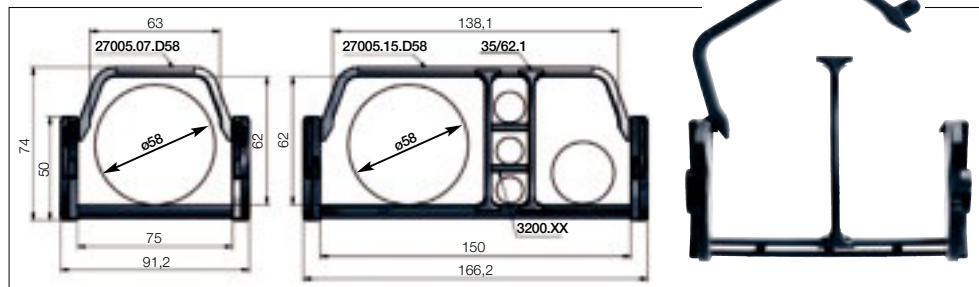
Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available



from stock. The complete chainfix range with order options ▶ from page 10.1

2600·2650·2680·2700 | More options and accessories

NEW in this catalog



Extender crossbars Series 2600-2700-2650 - Enormous increase of the interior for the smooth guiding of hoses

- Suitable for hoses with an outer diameter of max. 58 mm
- Optionally openable along the inner or outer radius, swivelling
- Modular interior separation **Part No. 35/62.1**
- Cable-friendly design of extender crossbar and interior separation
- High holding force of the extender crossbar



Order example

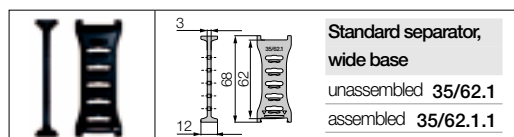
e-chain® with extender crossbar
snap-open along outer radius,
Bi 75 mm, R 100 mm:
Part No. 2700.15D58.100.0

Extender crossbars for e-chains® snap-open along inner radius	Extender crossbars for e-chains® snap-open along outer radius	Extender crossbars for half e-tubes snap-open along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]
2600.07D58.R.0	2700.07D58.R.0	2650.07D58.R.0	75	91	063* 075* 100 125 150 175 200 250
2600.15D36.R.0	2700.15D36.R.0	2650.15D36.R.0	150	166	063* 075* 100 125 150 175 200 250

*Radius 063 and 075 only possible with e-chains® Series 2700 !

Supplement Part No. with required radius. Example: 2700.15D58.100.0

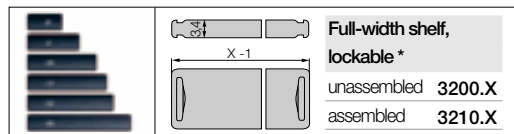
Series 2600-2700-2650 | Interior separation for extender crossbars



Standard separator, wide base
unassembled **35/62.1**
assembled **35/62.1.1**

Standard separator, wide base

For maximum locking strength and safe standing. In standard configuration separators are assembled every 2nd link!



Full-width shelf, lockable *
unassembled **3200.X**
assembled **3210.X**

Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 5 levels.

Product range ► page 5.189

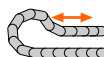
*Available upon request. Delivery time approx. 1-2 weeks after intake of order.

Optional: **Support tray tool kit.**

For support of the lower run.

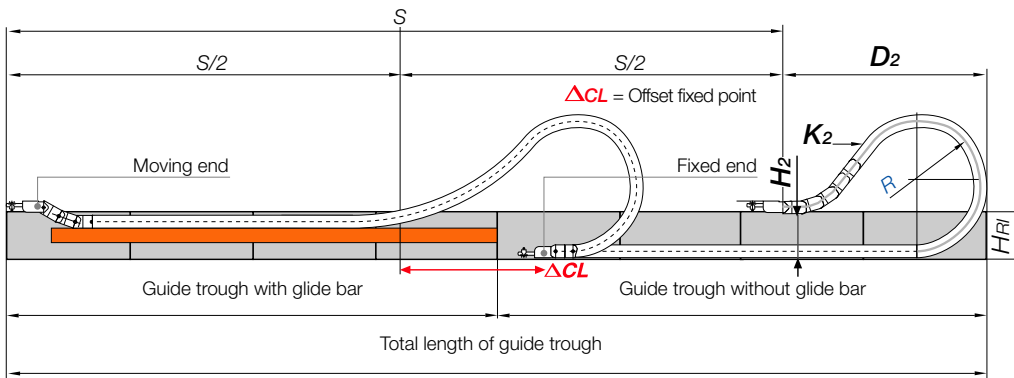
Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.011.15.1000.0**. The complete range with order options ► from page 9.70





Gliding applications | For long travels from 10 m to max. 120 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 2600/2650/2680 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 2700** that snaps open along the outer radius. **In case of travels between 5 and 10 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



Pitch = 56 mm/link · Links/m = 18 (1008 mm) · Chain length = $S_2 + K$

R	063*	075*	100	125	150	175	200	250
H ₂	130	150	166	166	166	166	166	166
D ₂ +25	140	150	350	475	500	655	770	950
K ₂	335	375	616	784	896	1120	1288	1624
ΔCL	-	-	144	244	244	374	464	594

*for Series 2650/2680 upon request. Before using Series 2600/2650/2680 on long travels please consult igus®.

More details | For long travel applications

autoglide 2700.Bi.AG.R - self-guiding, no guide troughs - travel lengths ≤ 50 m

v_{max} 1,5 m/s

Self-guiding e-chainsystems® - no need for guide troughs ► page 9.90

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height

v_{max} 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s². No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

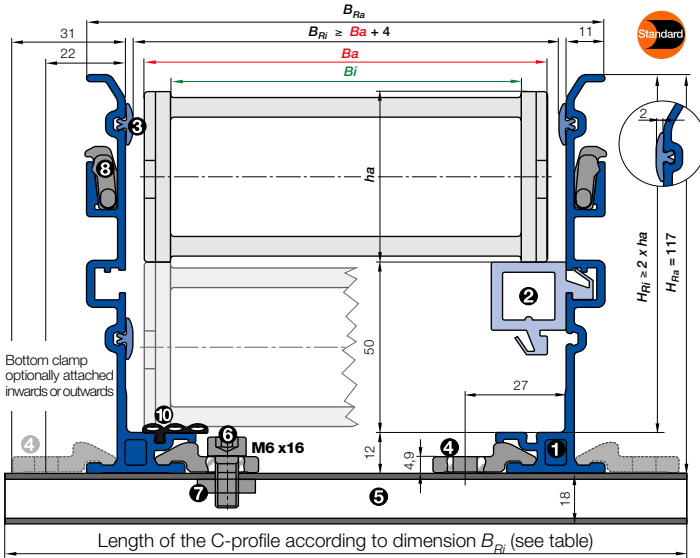
K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

ΔCL = Offset fixed point
H_{PR} = Inner trough height

S = Length of travel
S/2 = Half length of travel

Part No. 972.30 | 972.32 | Trough height: 117 mm
Aluminum "SuperTrough" | Basic Version

2600
 2650
 2680
 2700



Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

2700.05.100.0 ► Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.05	-	960.30.175
.06	960.30.150	960.30.200
.07	960.30.150	960.30.200
.09	960.30.175	960.30.225
.10	960.30.175	960.30.225
.12	960.30.200	960.30.250
.15	960.30.225	960.30.275
.17	960.30.250	960.30.300

Insert for the installation set "Heavy-Duty":
972.50.XXX instead of **960.30.XXX** on
 the right column "attached outwards"

- **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) ⑩ Optional: Silencer profile, rubber
- **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 2700.05.100.0 with $B_{Ri} = 70$

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. 972.30.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. 972.32.SL**

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

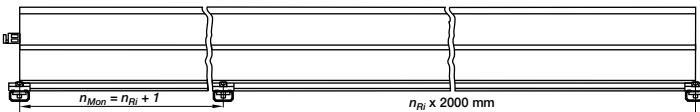
Order text: 17 installation sets **Part No. 960.30.150**

Module for the fixed end ► page 9.16

Order text: 1 set **Part No. 972.81**

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: **Part No. 972.30.SLA**



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



Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ► from page 9.30



- Trough set
- C-Profile
- Installation set
- 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_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

2600-2650-2680-2700 | Options and order key



Standard

Part No.
Standard
e-chains®/e-tubes



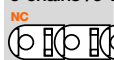
Additional noise dampening with pads

Part No.
Low noise (with pads)
e-chains®/e-tubes



NC-Version - (no camber) without pretension

Part No.
NC-Material
e-chains®/e-tubes



Reverse bending radius for circular movements

Part No.
RBR
e-chains®/e-tubes



2600.05.R.0

e-chain* snap-open along inner radius*

2700.05.R.0

e-chain* snap-open along outer radius

2650.05.R.0

Half e-tube snap-open along inner radius*

2680.05.R.0

e-tube snap-open along inner radius*

S2600.05.R.0

e-chain* snap-open along inner radius*

S2650.05.R.0

Half e-tube snap-open along inner radius*

S2680.05.R.0

e-tube snap-open along inner radius*

2600.05.R.0.NC

e-chain* snap-open along inner radius*

2700.05.R.0.NC

e-chain* snap-open along outer radius

2650.05.R.0.NC

Half e-tube snap-open along inner radius*

2680.05.R.0.NC

e-tube snap-open along inner radius*

2600.05.R1/R2.0

e-chain* snap-open along inner radius*

2700.05.R1/R2.0

e-chain* snap-open along outer radius

2650.05.R1/R2.0**

Half e-tube snap-open along inner radius*

2680.05.R1/R2.0**

e-tube snap-open along inner radius*



Delivery time
24h or today!*

Delivery time:
3-5 work days

Delivery time:
3-5 work days

Delivery time:
10 work days

(2-5 work days at an express surcharge) **upon request

Combination possibilities | Examples

	Low-noise option	NC-Version	RBR-Version	XXL-Material	HT-Material*	ESD-Material
Low-noise option		S2600.05.R.0.NC	-	S2600.05.R.0.XXL	S2680.05.R.0.HT	S2600.05.R.0.ESD
NC-Version	S2600.05.R.0.NC		-	-	2680.05.R.0.HT.NC	2600.05.R.0.ESD.NC
RBR-Version	-	-		-	2680.05.R1/R2.0.HT	2600.05.R1/R2.0.ESD
XXL-Material	S2600.05.R.0.XXL	-	-		-	-
HT-Material*	S2680.05.R.0.HT	2680.05.R.0.HT.NC	2680.05.R1/R2.0.HT	-		-
ESD-Material	S2600.05.R.0.ESD	2600.05.R.0.ESD.NC	2600.05.R1/R2.0.ESD	-	-	

for gliding applications please consult igus

2600·2650·2680·2700 | Options and order key

Unsupported lengths +25% possible

No burning-in of hot chips up to 850°C (1562° F)

ATEX / ESD classified e-chains®
II 2 GD

Part No. XXL-Material**
e-chains®/e-tubes

2600.05.R.0.XXL

e-chain* snap-open along inner radius*

2700.05.R.0.XXL

e-chain* snap-open along outer radius

2650.05.R.0.XXL

Half e-tube snap-open along inner radius*

2680.05.R.0.XXL

e-tube snap-open along inner radius*

Delivery time:
1-2 weeks

**Lower part made of XXL-Material

Part No. HT-Material
only for e-tubes

2680/2650.05.R.0.HT

Complete e-tube**

2680/2650.05.HT.R.0

Bottom only

Delivery time:
10 work days

Part No. ESD-Material
e-chains®/e-tubes

2600.05.R.0.ESD

e-chain* snap-open along inner radius*

2700.05.R.0.ESD

e-chain* snap-open along outer radius

2650.05.R.0.ESD

Half e-tube snap-open along inner radius*

2680.05.R.0.ESD

e-tube snap-open along inner radius*

Delivery time:
5 work days

*for gliding applications please consult igus®

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 22 links **2700.05.100.0**

+ Mounting brackets 1 set (with tiewrap plates) **2610.34PZB**

+ Interior separation with 2 separators assembled every 2nd link **2 x 35.1**

Order text: 1,0 m 2700.05.100.0 + 2610.34PZB + 2 x Part No. 35.1

Order key
2700.05.100.0



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



Many mounting options with or without strain relief

Opening system from left or right

System with 4 variations

Lateral glide surfaces

Large pin for high stability

Double stop dog for long unsupported travels

+ Large inner height, high stability

When to use Series 3400-3450-3480-3500:

- If a medium-sized, stable system with an inner height of 21 mm is required (e-chains®, half and full e-tubes)
- If inner widths up to 250 mm are required
- For unsupported lengths up to 3,0 m and fill weights up to 13 kg/m
- For long travels up to 150 m
- If an optimized system for quick opening of crossbars from left or right is required



When to use a different igus® Series:

- If more stability is required
- ▶ **System E4.1, Series E4.42, page 7.60**
- For simple applications and easy filling
- ▶ **easy chain®, Series E300, page 3.52**



Open E2/000 e-chains® in a flash with the **e-chain® opener** ▶ page 5.136

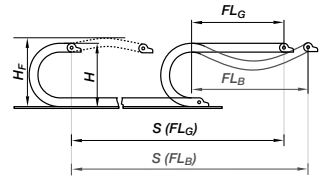
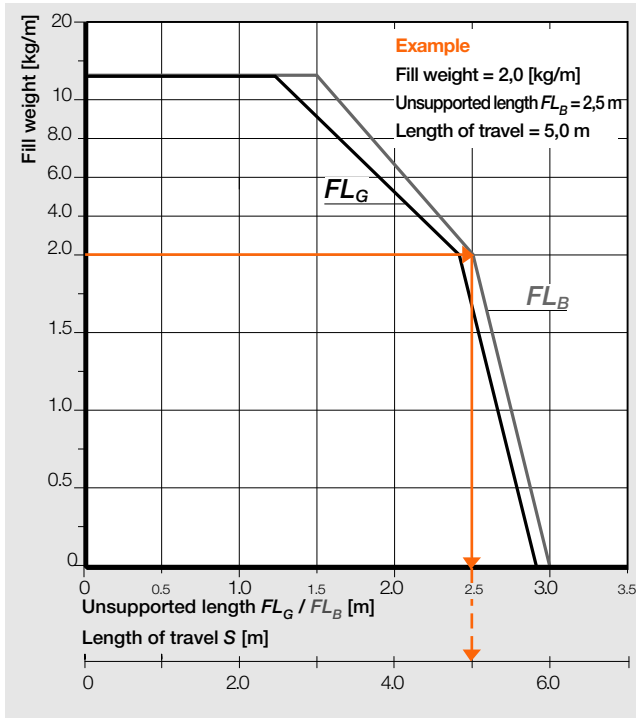


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/E2000

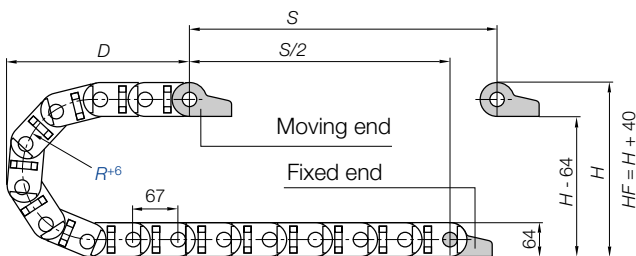


Standard Unsupported applications

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](#)

Gliding applications

Long travels up to 150 m.
 More information ► [page 5.222](#)



Technical Data

Speed, material, temperature and flammability class ► [page 5.140](#)

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

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

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

*for Series 3450/3480 upon request. Before using Series 3400/3450/3480 on long travels please consult igus®.

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



e-chains® | Series 3400 snap-open along inner radius
e-chains® | Series 3500 snap-open along outer radius | Standard

e-chains® snap-open along inner radius	e-chains® snap-open along outer radius	Standard	Bi [mm]	Ba [mm]	R Bending radii [mm]	3400 [kg/m]	3500 [kg/m]
3400. 050 .R.0	3500. 050 .R.0		50	70	075 100 125 150 200 250 300	≈ 1,60	≈ 1,60
3400. 075 .R.0	3500. 075 .R.0		75	95	075 100 125 150 200 250 300	≈ 1,78	≈ 1,78
3400. 100 .R.0	3500. 100 .R.0		100	120	075 100 125 150 200 250 300	≈ 1,93	≈ 1,93
3400. 115 .R.0	3500. 115 .R.0		115	135	075 100 125 150 200 250 300	≈ 1,99	≈ 1,99
3400. 125 .R.0	3500. 125 .R.0		125	145	075 100 125 150 200 250 300	≈ 2,03	≈ 2,03
3400. 150 .R.0	3500. 150 .R.0		150	170	075 100 125 150 200 250 300	≈ 2,17	≈ 2,17
3400. 175 .R.0	3500. 175 .R.0		175	195	075 100 125 150 200 250 300	≈ 2,28	≈ 2,28
3400. 200 .R.0	3500. 200 .R.0		200	220	075 100 125 150 200 250 300	≈ 2,45	≈ 2,45
3400. 225 .R.0	3500. 225 .R.0		225	245	075 100 125 150 200 250 300	≈ 2,59	≈ 2,59
3400. 250 .R.0	3500. 250 .R.0		250	270	075 100 125 150 200 250 300	≈ 2,73	≈ 2,73

Supplement Part No. with required radius. Example: **3500.075.200.0**

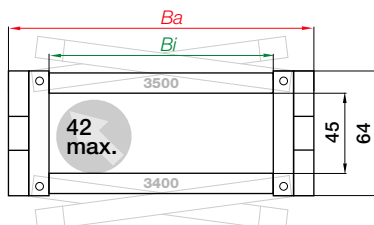
When to use Series 3400: ● e-chain® with snap-open accessibility along inner radius - for long travels please consult igus® (autoglide System ▶ page 9.90). **When to use Series 3500:** ● e-chain® with snap-open accessibility along outer radius - suitable for long travels.



Order key

3400. 075. 200. 0 e-chain®

3500. 075. 200. 0 e-chain®



3400.075.200.0 = e-chain® snap-open along inner radius, **Bi 75** mm inner width, **R 200** mm radius, color black
3500.075.200.0 = e-chain® snap-open along outer radius, **Bi 75** mm inner width, **R 200** mm radius, color black
 More order examples and configuration options ▶ page 5.224



Part No. of e-chain® links as single parts ▶ page 5.141



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



Half e-tubes | Serie 3450 snap-open along inner radius, closed along outer radius
Full e-tubes | Serie 3480 snap-open along inner radius, fully enclosed

Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius	Bi [mm]	Ba [mm]	R Bending radii [mm]	3450 [kg/m]	3480 [kg/m]
3450. 050 .R.0	3480. 050 .R.0	50	70	075* 100* 125 150 200 250 300	≈ 1,77	≈ 1,96
3450. 075 .R.0	3480. 075 .R.0	75	95	075* 100* 125 150 200 250 300	≈ 1,95	≈ 2,07
3450. 100 .R.0	3480. 100 .R.0	100	120	075* 100* 125 150 200 250 300	≈ 2,15	≈ 2,30
3450. 115 .R.0	3480. 115 .R.0	115	135	075* 100* 125 150 200 250 300	≈ 2,30	≈ 2,46
3450. 125 .R.0	3480. 125 .R.0	125	145	075* 100* 125 150 200 250 300	≈ 2,42	≈ 2,49
3450. 150 .R.0	3480. 150 .R.0	150	170	075* 100* 125 150 200 250 300	≈ 2,60	≈ 2,62
3450. 175 .R.0	3480. 175 .R.0	175	195	075* 100* 125 150 200 250 300	≈ 2,75	≈ 2,80
3450. 200 .R.0	3480. 200 .R.0	200	220	075* 100* 125 150 200 250 300	≈ 2,90	≈ 2,94
3450. 225 .R.0	3480. 225 .R.0	225	245	075* 100* 125 150 200 250 300	≈ 3,15	≈ 3,12
3450. 250 .R.0	3480. 250 .R.0	250	270	075* 100* 125 150 200 250 300	≈ 3,30	≈ 3,28

**Width available upon request. Delivery time approx. 6-8 weeks after order. *Radius Series 3450/3480 available upon request. Delivery time approx. 1-2 weeks after order.

Radii 075, 100: the e-tube is not completely enclosed. Please consult igus!

Supplement Part No. with required radius. Example: **3450.075.200.0**

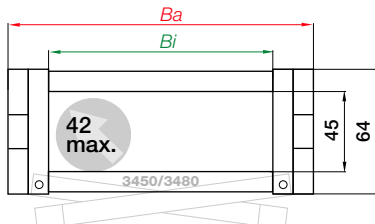
When to use Series 3450: ● Half e-tube snap-open along the inner radius - for long travels please consult igus®. **When to use Series 3480:** ● Full e-tube snap-open along the inner radius - for long travels please consult igus®.



Order key

3450. 075. 200. 0 Half e-tube

3480. 075. 200. 0 Full e-tube



3450.075.200.0 = Half e-tube snap-open along inner radius, **Bi 75** mm inner width, **R 200** mm radius, color black
3480.075.200.0 = Full e-tube * snap-open along inner radius, **Bi 75** mm inner width, **R 200** mm radius, color black
 More order examples and configuration options ► page 5.224



Part No. of e-chain® links as single parts ► page 5.141



Standard half and full e-tubes incl. accessories from stock. Delivery in 24h or today.*
 *Delivery time means time until shipping of goods

...-5 dB(A)

depends on environmental conditions,
similar to figure



Noise dampening | Noise reduction \approx 5 dB(A)

e-chains* snap-open along inner radius	Half e-tubes snap-open along inner radius	Full e-tubes snap-open along inner radius		R Bending radii [mm]	Bi [mm]
S3400.050	S3450.050	S3480.050	.R.0	075* 100* 125 150 200 250 300	50
S3400.075	S3450.075	S3480.075	.R.0	075* 100* 125 150 200 250 300	75
S3400.100	S3450.100	S3480.100	.R.0	075* 100* 125 150 200 250 300	100
S3400.115	S3450.115	S3480.115	.R.0	075* 100* 125 150 200 250 300	115
S3400.125	S3450.125	S3480.125	.R.0	075* 100* 125 150 200 250 300	125
S3400.150	S3450.150	S3480.150	.R.0	075* 100* 125 150 200 250 300	150
S3400.175	S3450.175	S3480.175	.R.0	075* 100* 125 150 200 250 300	175
S3400.200	S3450.200	S3480.200	.R.0	075* 100* 125 150 200 250 300	200
S3400.225	S3450.225	S3480.225	.R.0	075* 100* 125 150 200 250 300	225
S3400.250	S3450.250	S3480.250	.R.0	075* 100* 125 150 200 250 300	250

*Radius Series 3450/3480 available upon request. Delivery time approx. 1-2 weeks after order.

Radii 075, 100: the e-tube is not completely enclosed. Please consult igus!

Supplement Part No. with required radius. Example: S3400.075.200.0



For e-chains® with noise dampening pads supplement Part No. with required index "S"

Example: Part No. S3400.075.200.0 = e-chain® snap-open along inner radius with noise dampening pads



e-chain® with noise dampening pads - Delivery time 3-5 work days.

*Delivery time means time until shipping of goods

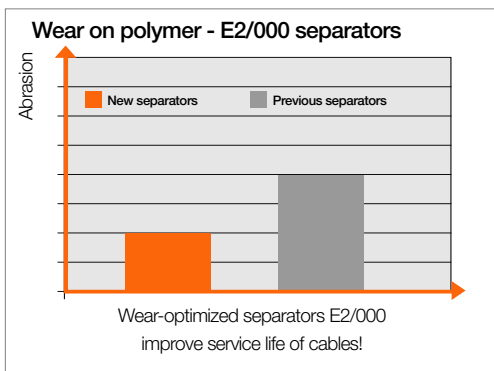


E2/000 - stability for the energy supply system elevator in a Post Tower



75% less wear...

New range of separators for E2/000, increased service life!



Increase the service life of cables even further

A new design of interior separators for E2/000 allround e-chain® range. Separators optimally adapted to cable geometry increase the service life of the cables by a factor of 4. A better interior separation can be executed with fewer elements:

Vertical separation - Vertical separators

- Abrasion-optimized, cable-friendly design, long service life
- Mounting-optimized - a simpler and faster assembly
- Non-positive, secure fit
- Easy-to-use interior separation range for all applications

Horizontal separation: Full-width shelves

- Locks at both ends
- Separators can be moved horizontally as needed
- Side plates not required
- Even partial horizontal subdivision is possible



- ① Standard separator, wide base - Part No. 45.1 ③ Separator, narrow base - Part No. 45.3 ⑤ Full-width shelf, lockable* - Part No. 3200.XX
 ② Separator with narrow head - Part No. 45.2 ④ Separator, asymmetrical - Part No. 45.4 *Available upon request. Delivery time approx. 1-2 weeks after intake of order

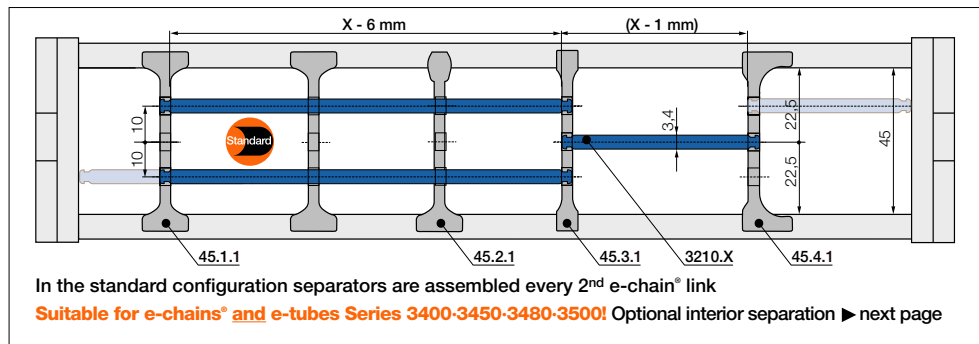

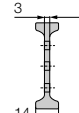


Interior separation single order - Delivery time 24h or today.*

*Delivery time means time until shipping of goods

3400·3450·3480·3500 | Interior separation | Standard


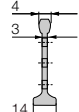
New generation of interior separation

Standard separator, wide base
 unassembled **45.1**
 assembled **45.1.1**

Standard - for all applications


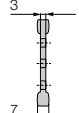
Separator with a wide base for maximum locking strength and safe standing in e-chains®.

Separator, narrow head
 unassembled **45.2**
 assembled **45.2.1**

For even faster installation


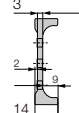
Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip).

Separator, narrow base
 unassembled **45.3**
 assembled **45.3.1**

For many thin cables



Separator with a narrow base for a large number of thin cables side by side. Saves space in e-chains®.

Separator, asymmetrical
 unassembled **45.4**
 assembled **45.4.1**

For side-mounted applications

Asymmetrical separator, for defined distance. No additional spacers necessary.

Full-width shelf, lockable
 unassembled **3200.X**
 assembled **3210.X**

Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. To be used as full-width shelf for a consequent subdivision or as shelf for a pattern system in 3 levels.

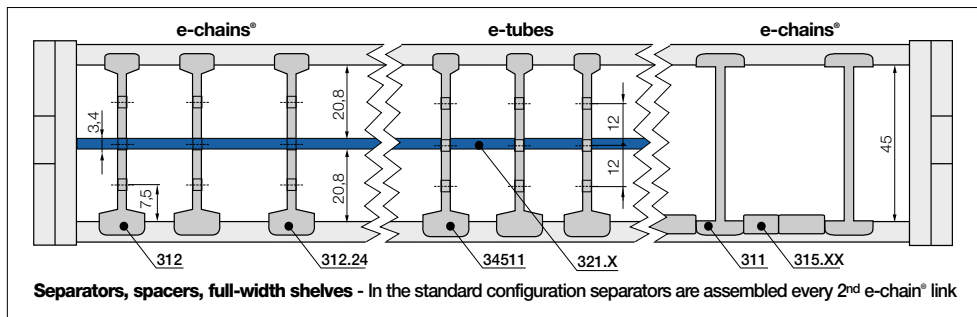
*Available upon request. Delivery time approx. 1-2 weeks after intake of order



Lockable full-width shelves - for the standard interior separation

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	3200.050	3210.050	115	3200.115	3210.115	175	3200.175	3210.175
075	3200.075	3210.075	125	3200.125	3210.125			
100	3200.100	3210.100	150	3200.150	3210.150			

Previous interior separation



Slotted separator for e-chains®

unassembled	302
assembled	312

Slotted separator 302 (e-chains® only)

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

Slotted separator for e-tubes

unassembled	34501
assembled	34511

Slotted separator 34501 (e-tubes only)

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

Separator for e-chains®

unassembled	301
assembled	311

Separator 301 (e-chains® only)

For a simple vertical subdivision on e-chains®.

Separator, wide base* for e-chains®

unassembled	302.24
assembled	312.24

Separator, wide base* 302.24 (e-chains® only)

If a wide space between the separators has to be kept or separators have to be fixed in their position.

(*for side-mounted applications)

Spacer* e-chains®

unassembled	305.XX
assembled	315.XX

Spacer* 305.XX (e-chains® only)

Separators can be fixed in position. Only mountable onto the fixed crossbar. XX = width of spacer, available 8, 12 mm.

(*for side-mounted applications)

Full-width shelf for e-chains®/e-tubes

unassembled	320.X
assembled	321.X

Full-width shelf 320.X (e-chains® and e-tubes)

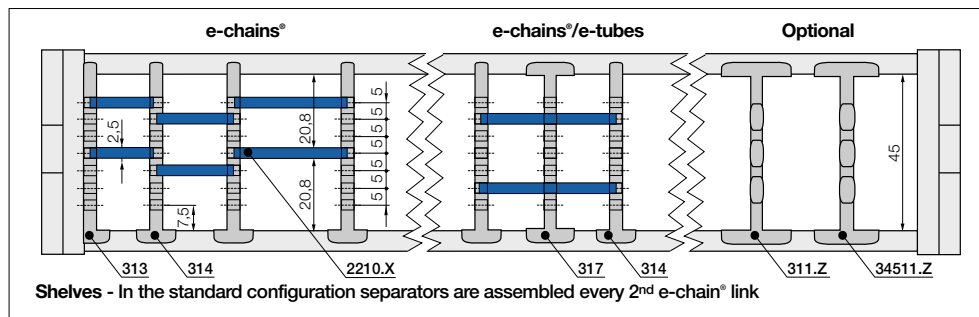
This option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision. Full-width shelves can be arranged at 3 different heights (in 12 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
050	320.050	321.050	125	320.125	321.125	225	320.225	321.225
075	320.075	321.075	150	320.150	321.150	250	320.250	321.250
100	320.100	321.100	175	320.175	321.175			
115	320.115	321.115	200	320.200	321.200			

3400·3450·3480·3500 | Interior separation | Options

Previous interior separation



Slotted middle plate for e-chains®
unassembled **304**
assembled **314**

Middle plate 304 (e-chains® only)
To achieve a modular shelving by shelf 2200.X arranged at 7 different heights (in 5 mm increments)

Open slotted separator for e-chains® / e-tubes
unassembled **307**
assembled **317**

Open slotted separator 307 (e-chains® and e-tubes)
Quick assembly - retrofitting into an existing interior separation system without dismantling.

Side plate for e-chains®
unassembled **303**
assembled **313**

Side plate 303 (e-chains® only)
Works like middle plate.
Allows modular shelving close to the side links.

Shelf for e-chains® / e-tubes
unassembled **2200.X**
assembled **2210.X**

Shelf 2200.X (e-chains® and e-tubes)
For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 7 different heights (in 5 mm increments).

Shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	2200.18	2210.18	043	2200.43	2210.43	088	2200.88	2210.88
023	2200.23	2210.23	048	2200.48	2210.48	099	2200.99	2210.99
028	2200.28	2210.28	058	2200.58	2210.58	124	2200.124	2210.124
033	2200.33	2210.33	068	2200.68	2210.68	149	2200.149	2210.149
038	2200.38	2210.38	073	2200.73	2210.73			

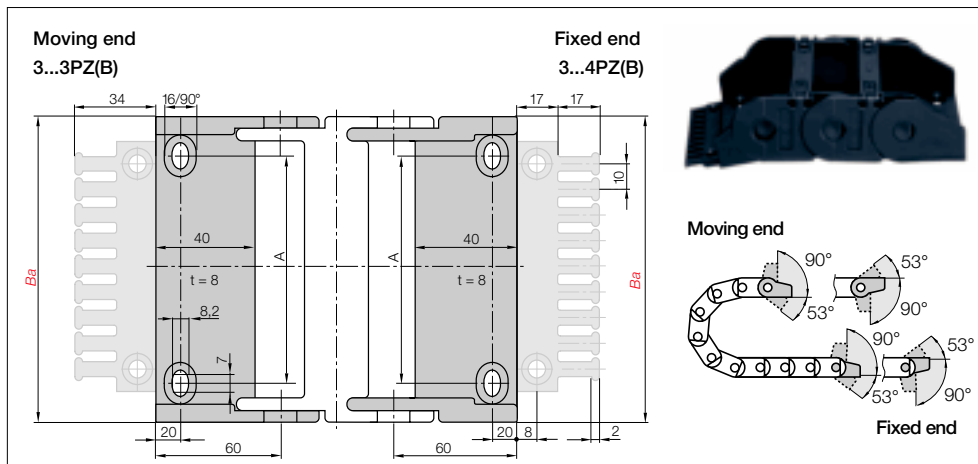
Strain relief separator for e-chains®
unassembled **301.Z**
assembled **311.Z**

Additional elements for interior separation

Strain relief separator 301.Z (e-chains® only)
Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.

Strain relief separator for e-tubes
unassembled **34501.Z**
assembled **34511.Z**

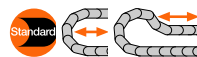
Strain relief separator 34501.Z (e-tubes only)
Can be integrated into the mounting bracket and can be placed there at any point. It combines strain relief and interior separation.



Polymer **pivoting** | Standard - Universal for e-chains® and e-tubes

Recommended for unsupported and gliding applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
050.	▶ 3050.34PZB	3050.34PZBK1	3050.34PZ	28	5
075.	▶ 3075.34PZB	3075.34PZBK1	3075.34PZ	53	7
100.	▶ 3100.34PZB	3100.34PZBK1	3100.34PZ	78	10
115.	▶ 3115.34PZB	3115.34PZBK1	3115.34PZ	93	11
125.	▶ 3125.34PZB	3125.34PZBK1	3125.34PZ	103	12
150.	▶ 3150.34PZB	3150.34PZBK1	3150.34PZ	128	15
175.	▶ 3175.34PZB	3175.34PZBK1	3175.34PZ	153	17
200.	▶ 3200.34PZB	3200.34PZBK1	3200.34PZ	178	20
225.	▶ 3225.34PZB	3225.34PZBK1	3225.34PZ	203	22
250.	▶ 3250.34PZB	3250.34PZBK1	3250.34PZ	228	25



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

Part No. structure (pivoting)

3075, 34 PZB A1



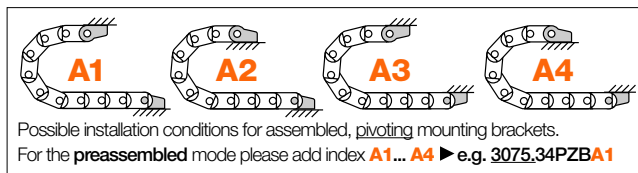
Single-part order

Mounting bracket **Moving end**

3075, 3 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

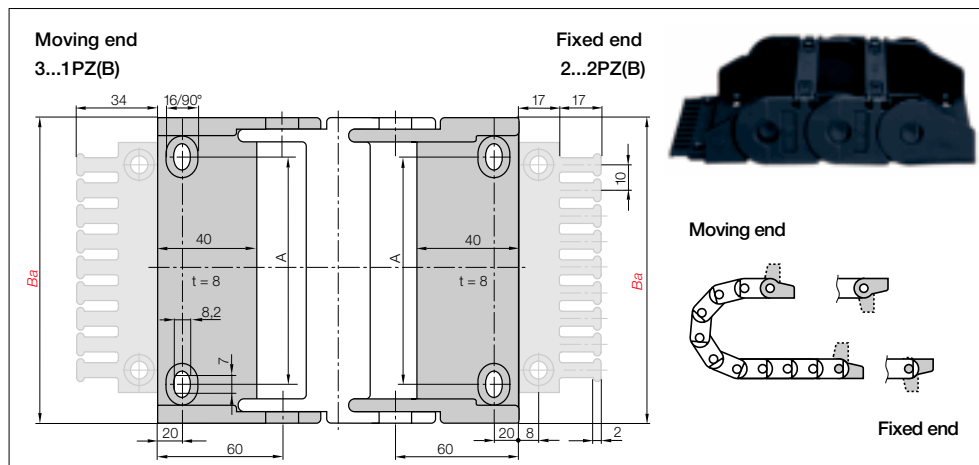
3075, 4 PZB A1 (preassembled + tiewrap plate)



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

3400·3450·3480·3500 | Mounting brackets locking

For very high speed and acceleration



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

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Number of teeth
050.	▶ 3050.12PZB	3050.12PZBK1	3050.12PZ	28	5
075.	▶ 3075.12PZB	3075.12PZBK1	3075.12PZ	53	7
100.	▶ 3100.12PZB	3100.12PZBK1	3100.12PZ	78	10
115.	▶ 3115.12PZB	3115.12PZBK1	3115.12PZ	93	11
125.	▶ 3125.12PZB	3125.12PZBK1	3125.12PZ	103	12
150.	▶ 3150.12PZB	3150.12PZBK1	3150.12PZ	128	15
175.	▶ 3175.12PZB	3175.12PZBK1	3175.12PZ	153	17
200.	▶ 3200.12PZB	3200.12PZBK1	3200.12PZ	178	20
225.	▶ 3225.12PZB	3225.12PZBK1	3225.12PZ	203	22
250.	▶ 3250.12PZB	3250.12PZBK1	3250.12PZ	228	25



- 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)

3075. 12 PZB A1



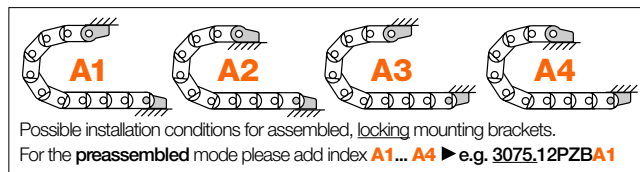
Single-part order

Mounting bracket **Moving end**

3075. 1 PZB A1 (preassembled + tiewrap plate)

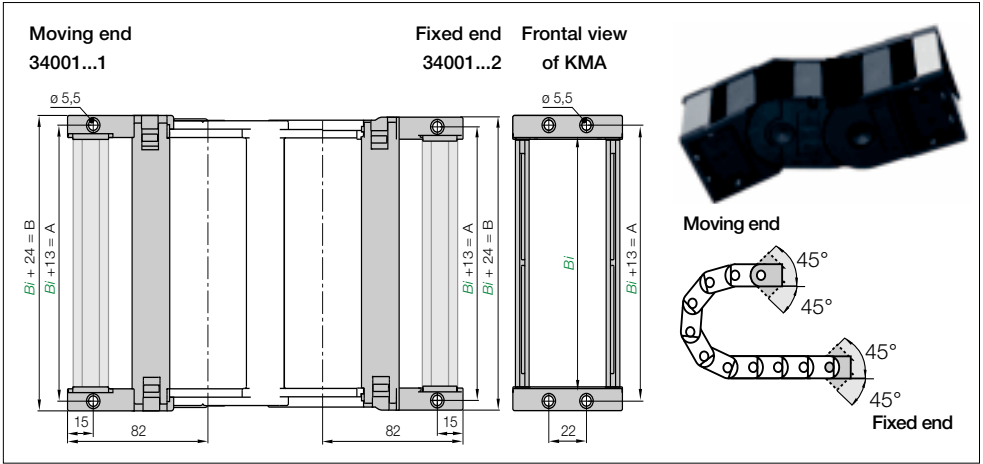
Mounting bracket **Fixed end**

3075. 2 PZB A1 (preassembled + 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 tight installation conditions, all-sides attachment

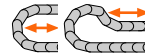


KMA pivoting | All-sides attachment - Universal for e-chains® (Series 3400-3500)

Recommended for unsupported and gliding applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050. ▶	34001.050.12.C	34001.050.12	63	74
075. ▶	34001.075.12.C	34001.075.12	88	99
100. ▶	34001.100.12.C	34001.100.12	113	124
115. ▶	34001.115.12.C	34001.115.12	128	139
125. ▶	34001.125.12.C	34001.125.12	138	149
150. ▶	34001.150.12.C	34001.150.12	163	174
175. ▶	34001.175.12.C	34001.175.12	188	199
200. ▶	34001.200.12.C	34001.200.12	213	224
225. ▶	34001.225.12.C	34001.225.12	238	249
250. ▶	34001.250.12.C	34001.250.12	263	274

KMA pivoting to one side: **Moving end 34001...3** / **Fixed end Art. Nr. 34001...4**



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-chain®

34001.075.12.C A



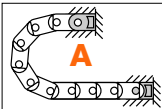
Single-part order

Mounting bracket **Moving end**

34001.075.1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

34001.075.2.C A (preassembled + C-profile)

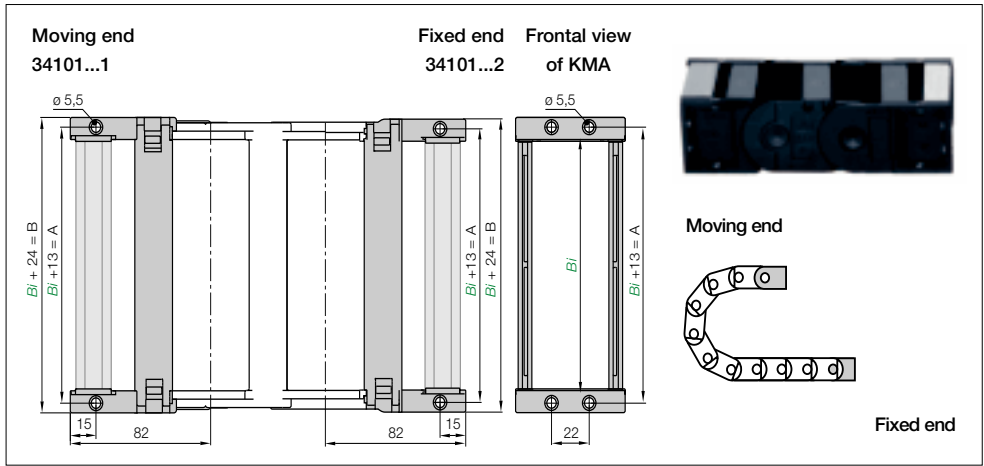


These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **34001.075.12.CA**



Strain relief e.g. clamps, tiwrap 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, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 3400-3500)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050. ▶	34101.050.12.C	34101.050.12	63	74
075. ▶	34101.075.12.C	34101.075.12	88	99
100. ▶	34101.100.12.C	34101.100.12	113	124
115. ▶	34101.115.12.C	34101.115.12	128	139
125. ▶	34101.125.12.C	34101.125.12	138	149
150. ▶	34101.150.12.C	34101.150.12	163	174
175. ▶	34101.175.12.C	34101.175.12	188	199
200. ▶	34101.200.12.C	34101.200.12	213	224
225. ▶	34101.225.12.C	34101.225.12	238	249
250. ▶	34101.250.12.C	34101.250.12	263	274



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-chain®

34101.075.12.C.A



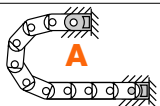
Single-part order

Mounting bracket **Moving end**

34101.075.1.C.A (preassembled + C-profile)

Mounting bracket **Fixed end**

34101.075.2.C.A (preassembled + C-profile)



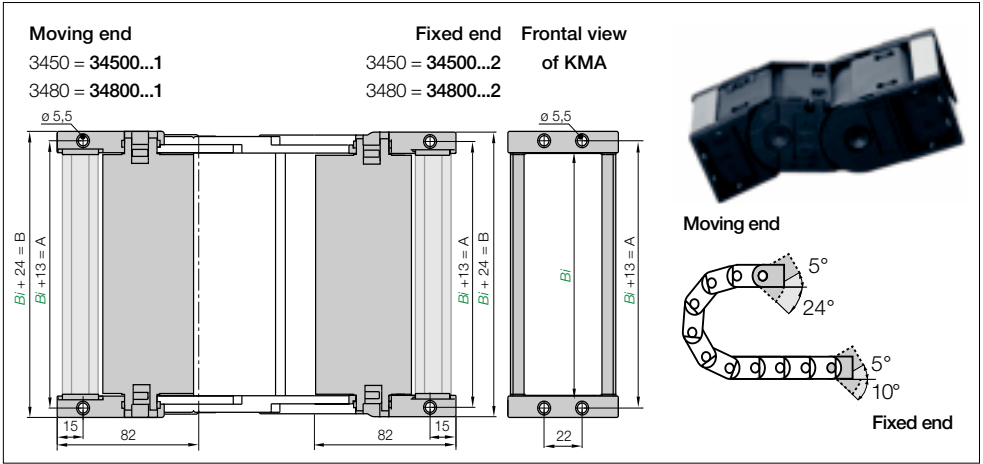
These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **34101.075.12.C.A**



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

e-tubes | 3450-3480 | KMA mounting brackets **pivoting**

For tight installation conditions, all-sides attachment

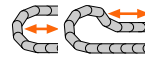


KMA pivoting | All-sides attachment - Universal for e-chains® (Series 3450-3480)

Recommended for unsupported and gliding applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050.	▶ 34500 34800 .050.12.C	34500 34800 .050.12	63	74
075.	▶ 34500 34800 .075.12.C	34500 34800 .075.12	88	99
100.	▶ 34500 34800 .100.12.C	34500 34800 .100.12	113	124
115.	▶ 34500 34800 .115.12.C	34500 34800 .115.12	128	139
125.	▶ 34500 34800 .125.12.C	34500 34800 .125.12	138	149
150.	▶ 34500 34800 .150.12.C	34500 34800 .150.12	163	174
175.	▶ 34500 34800 .175.12.C	34500 34800 .175.12	188	199
200.	▶ 34500 34800 .200.12.C	34500 34800 .200.12	213	224
225.	▶ 34500 34800 .225.12.C	34500 34800 .225.12	238	249
250.	▶ 34500 34800 .250.12.C	34500 34800 .250.12	263	274

i KMA pivoting Part No. 34500... for half e-tube Series 3450
KMA pivoting Part No. 34800... for full e-tube Series 3480



- Bolted connection outside of chain cross-section possible
- For tight installation conditions
- Universally mountable with attachment capability on all sides
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (pivoting) - e-tube



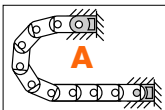
Single-part order

Mounting bracket **Moving end**

34500.075.1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

34500.075.1.C A (preassembled + C-profile)



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled** mode please add index **A** ▶ e.g. **34500.075.12.CA**

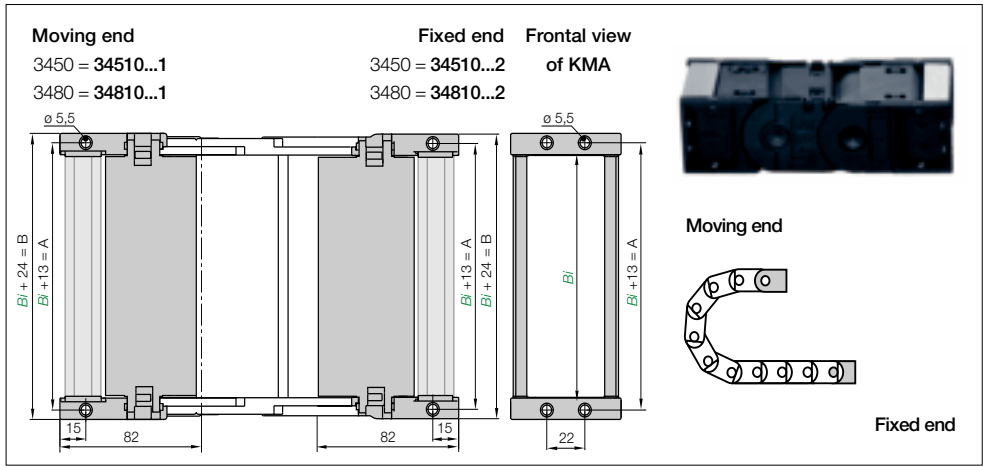


Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1

e-tubes | 3450-3480 | KMA mounting brackets locking

3450
3480

For very high speed and acceleration, all-sides attachment



KMA locking | All-sides attachment - Universal for e-chains® (Series 3450-3480)
Recommended for vertical hanging and standing applications

For width index	Part No. full set with C-profile	Part No. full set without C-profile	Dim. A [mm]	Dim. B [mm]
050.	▶ 34510 34810 .050.12.C	34510 34810 .050.12	63	74
075.	▶ 34510 34810 .075.12.C	34510 34810 .075.12	88	99
100.	▶ 34510 34810 .100.12.C	34510 34810 .100.12	113	124
115.	▶ 34510 34810 .115.12.C	34510 34810 .115.12	128	139
125.	▶ 34510 34810 .125.12.C	34510 34810 .125.12	138	149
150.	▶ 34510 34810 .150.12.C	34510 34810 .150.12	163	174
175.	▶ 34510 34810 .175.12.C	34510 34810 .175.12	188	199
200.	▶ 34510 34810 .200.12.C	34510 34810 .200.12	213	224
225.	▶ 34510 34810 .225.12.C	34510 34810 .225.12	238	249
250.	▶ 34510 34810 .250.12.C	34510 34810 .250.12	263	274



- Bolted connection outside of chain cross-section possible
- At very high speed and/or acceleration
- Universally mountable
- C-profile option
- Option: threaded sockets upon request (KMA = Polymer Metal Mounting Bracket)

Part No. structure (locking) - e-tube

34510.075.12.C A



Single-part order

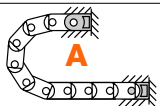
Mounting bracket **Moving end**

34510.075.1.C A (preassembled + C-profile)

Mounting bracket **Fixed end**

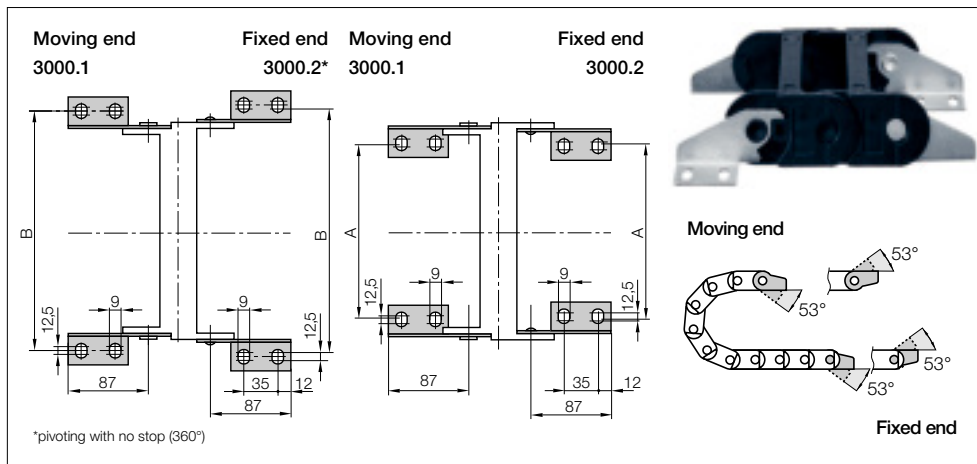
34510.075.2.C A (preassembled + C-profile)

i **KMA pivoting Part No. 34510... for half e-tube Series 3450**
KMA pivoting Part No. 34810... for full e-tube Series 3480



These attachment types are triggered automatically in the choice of the KMA mounting bracket. For the **preassembled mode** please add index **A** ▶ e.g. **34510.075.12.CA**

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

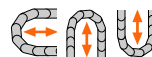
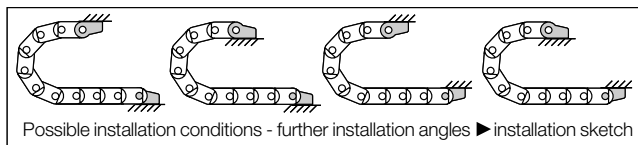


Steel pivoting | For e-chains® and e-tubes

Recommended for unsupported, vertical hanging and standing applications

For width index	Part No. full set	Part No. full set stainless steel**	Dim. A [mm]	Dim. B [mm]
050. ▶	3000.12	3000.12.E	28	86
075. ▶	3000.12	3000.12.E	53	111
100. ▶	3000.12	3000.12.E	78	136
115. ▶	3000.12	3000.12.E	93	151
125. ▶	3000.12	3000.12.E	103	161
150. ▶	3000.12	3000.12.E	128	186
175. ▶	3000.12	3000.12.E	153	212
200. ▶	3000.12	3000.12.E	178	236
225. ▶	3000.12	3000.12.E	203	261
250. ▶	3000.12	3000.12.E	228	286

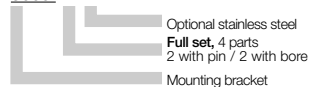
Note: By ordering steel mounting brackets in combination with an e-chain® / e-tube, they will be delivered assembled!



- Pivoting connections
- One part (2-piece) for all e-chain® widths
- Electrically conductive
- Bolted connection outside of chain cross-section possible
- Stainless steel version available (**Material: stainless steel 1.4301)

Part no. structure

3000.12.E



Single-part order

Mounting bracket **Moving end**

3000.1 (1 part left / right)

Mounting bracket **Fixed end**

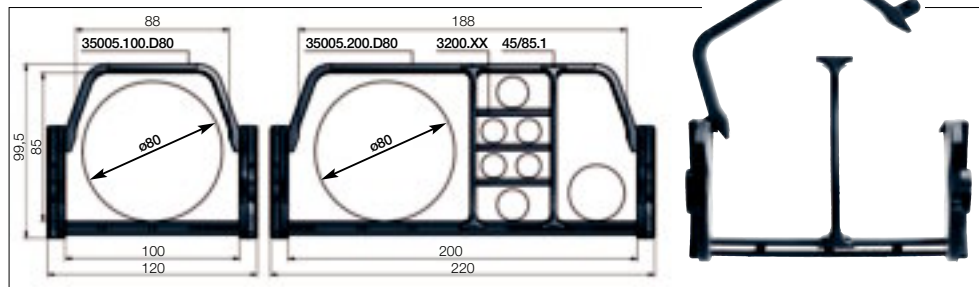
3000.2 (1 part left / right)



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

3400·3450·3480·3500 | More options and accessories

NEW in this catalog



Extender crossbars Series 3400-3500-3450 - Enormous increase of the interior for the smooth guiding of hoses

- Suitable for hoses with an outer diameter of max. 80 mm
- Optionally openable along the inner or outer radius, swivelling
- Modular interior separation **Part No. 45/85.1**
- Cable-friendly design of extender crossbar and interior separation
- High holding force of the extender crossbar



Order example

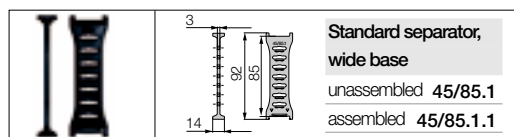
e-chain® with extender crossbar
snap-open along outer radius,
Bi 100 mm, *R* 200 mm:
Part No. 3500.100D80.200.0

Extender crossbars for e-chains® snap-open along inner radius	Extender crossbars for e-chains® snap-open along outer radius	Extender crossbars for half e-tubes snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]
3400.100D80. <i>R.0</i>	3500.100D80. <i>R.0</i>	3450.100D80. <i>R.0</i>	100	120	075* 100* 125 150 200 250 300
3400.200D80. <i>R.0</i>	3500.200D80. <i>R.0</i>	3450.200D80. <i>R.0</i>	200	220	075* 100* 125 150 200 250 300

*Radius 075 and 100 only possible with e-chains® Series 3500!

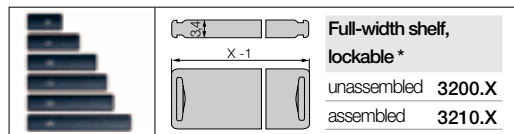
Supplement Part No. with required radius. Example: **3500.100D80.200.0**

Serie 3400-3500-3450 | Interior separation for extender crossbars



Standard separator, wide base

For maximum locking strength and safe standing. In standard configuration separators are assembled every 2nd link!



Horizontal separation

Full-width shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Usable in 7 levels.

Product range ▶ page 5.189

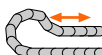
*Available upon request. Delivery time approx. 1-2 weeks after intake of order.

Optional: **Support tray tool kit.**

For support of the lower run.

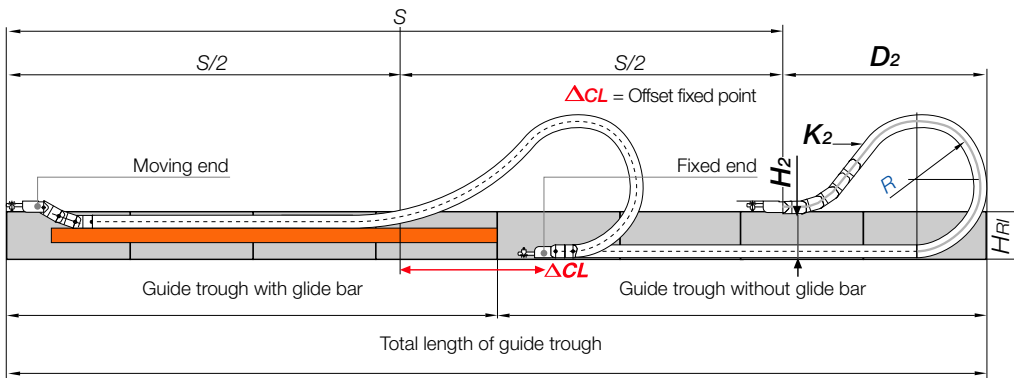
Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.021.10.1000.0**. The complete range with order options ▶ from page 9.70





Gliding applications | For long travels from 10 m to max. 150 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **Please note:** For using Series 3400/3450/3480 for long travels (gliding), please consult with igus® first. For long travels, igus® specifies **Series 3500** that snaps open along the outer radius. **In case of travels between 6 and 10 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



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

R	075*	100*	125	150	200	250	300
H ₂	150	200	186	186	186	186	186
D ₂ +25	208	233	475	570	780	1010	1150
K ₂	370	450	804	1005	1340	1675	1943
ΔCL	-	-	233	303	463	643	733

*for Series 3450/3480 upon request. Before using Series 3400/3450/3480 on long travels please consult igus®.

More details | For long travel applications

autoglide 3500.Bi.AG.R - self-guiding, no guide troughs - travel lengths ≤ 50 m

v_{max} 1,5 m/s

Self-guiding e-chainsystems® - no need for guide troughs ► page 9.90

NEW guidelok slimline F - Safe vertical guidance for e-chains® Travels up to 50 m height v_{max} 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s². No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77



H₂ = Mounting height (if the moving end is set lower)
D₂ = Over length - long travels, gliding

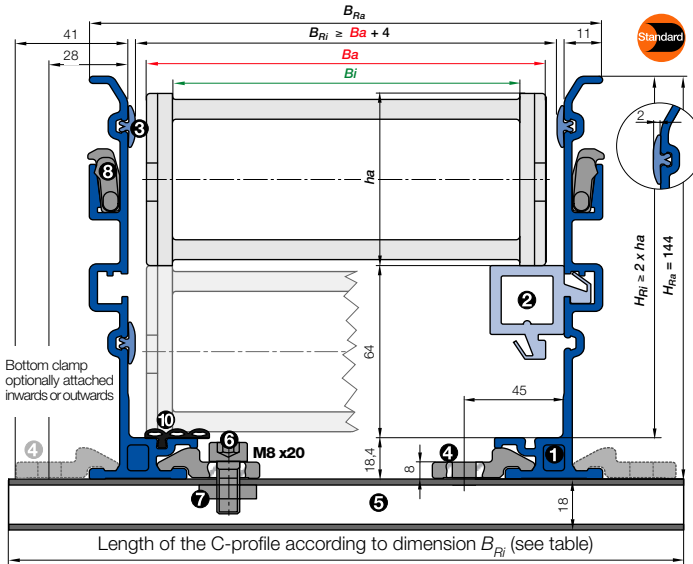
K₂ = Further add-on (if the moving end is set lower)
R = Bending radius

ΔCL = Offset fixed point
H_{RI} = Inner trough height

S = Length of travel
S/2 = Half length of travel

Part No. 973.30 | 973.31 | Trough height: 144 mm
Aluminum "SuperTrough" | Basic Version

3400
 3450
 3480
 3500



Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

3500.075.200.0 ▶ Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
.050	74	960.40.200
.075	99	960.40.225
.100	124	960.40.175
.115	139	960.40.200
.125	149	960.40.200
.150	174	960.40.225
.175	199	960.40.250
.200	224	960.40.275
.225	249	960.40.300
.250	274	960.40.325

Insert for the installation set "Heavy-Duty": **973.50.XXX** instead of **960.40.XXX** on the right column "attached outwards"

- **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) ⑩ Optional: Silencer profile, rubber
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, galvanized steel ▶ table ⑥ Screw M8 x 20 ⑦ Sliding nut M8 ⑧ Interface connector, plastic

Order example: Length of travel 30 m - Center mounted for Series 3500.075.200.0 with $B_{Ri} = 99$

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. 973.30.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. 973.31.SL**

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

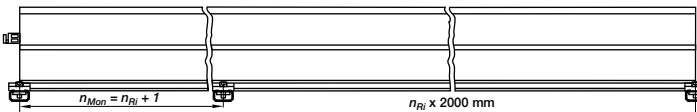
Order text: 17 installation sets **Part No. 960.40.175**

Module for the fixed end ▶ page 9.16

Order text: 1 set **Part No. 973.80**

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: **Part No. 973.30.SLA**



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

Details about Alu "SuperTrough" and the "Heavy Duty" version for heavy machinery ▶ from page 9.32

- 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_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

3400-3450-3480-3500 | Options and order key



Standard

Additional noise dampening with pads

NC-Version - (no camber) without pretension

Reverse bending radius for circular movements

Part No.
Standard
e-chains®/e-tubes



Part No.
Low noise (with pads)
e-chains®/e-tubes



Part No.
NC-Material
e-chains®/e-tubes



Part No.
RBR
e-chains®/e-tubes



3400.075.R.0

e-chain* snap-open along inner radius*

S3400.075.R.0

e-chain* snap-open along inner radius*

3400.075.R.0.NC

e-chain* snap-open along inner radius*

3400.075.R1/R2.0

e-chain* snap-open along inner radius*

3500.075.R.0

e-chain* snap-open along outer radius

S3450.075.R.0

Half e-tube snap-open along inner radius*

3500.075.R.0.NC

e-chain* snap-open along outer radius

3500.075.R1/R2.0

e-chain* snap-open along outer radius

3450.075.R.0

Half e-tube snap-open along inner radius*

S3480.075.R.0

e-tube snap-open along inner radius*

3450.075.R.0.NC

Half e-tube snap-open along inner radius*

3450.075.R1/R2.0**

Half e-tube snap-open along inner radius*

3480.075.R.0

e-tube snap-open along inner radius*

3480.075.R.0.NC

e-tube snap-open along inner radius*

3480.075.R1/R2.0**

e-tube snap-open along inner radius*



Delivery time
24h or today!*

Delivery time:
3-5 work days

Delivery time:
3-5 work days

Delivery time:
10 work days

(2-5 work days at an express surcharge) **upon request

Combination possibilities | Examples

	Low-noise option	NC-Version	RBR-Version	XXL-Material	HT-Material*	ESD-Material
Low-noise option		S3400.075.R.0.NC	-	S3400.075.R.0.XXL	S3480.075.R.0.HT	S3400.075.R.0.ESD
NC-Version	S3400.075.R.0.NC		-	-	3480.075.R.0.HT.NC	3400.075.R.0.ESD.NC
RBR-Version	-	-		-	3480.075.R1/R2.0.HT	3400.075.R1/R2.0.ESD
XXL-Material	S3400.075.R.0.XXL	-	-		-	-
HT-Material*	S3480.075.R.0.HT	3480.075.R.0.HT.NC	3480.075.R1/R2.0.HT	-		-
ESD-Material	S3400.075.R.0.ESD	3400.075.R.0.ESD.NC	3400.075.R1/R2.0.ESD	-	-	

*for gliding applications please consult igus®

3400-3450-3480-3500 | Options and order key

Unsupported lengths +25% possible

No burning-in of hot chips up to 850°C (1562° F)

ATEX / ESD classified e-chains®
II 2 GD

Part No. XXL-Material**
e-chains®/e-tubes

Part No. HT-Material
only for e-tubes

Part No. ESD-Material
e-chains®/e-tubes

3400.075.R.0.XXL
e-chain* snap-open along inner radius*

3480/3450.075.R.0.HT
Complete e-tube**

3400.075.R.0.ESD
e-chain* snap-open along inner radius*

3500.075.R.0.XXL
e-chain* snap-open along outer radius

3480/3450.075.HT.R.0
Bottom only

3500.075.R.0.ESD
e-chain* snap-open along outer radius

3450.075.R.0.XXL
Half e-tube snap-open along inner radius*

3450.075.R.0.ESD
Half e-tube snap-open along inner radius*

3480.075.R.0.XXL
e-tube snap-open along inner radius*

3480.075.R.0.ESD
e-tube snap-open along inner radius*

Delivery time:
1-2 weeks

Delivery time:
10 work days

Delivery time:
5 work days

*for gliding applications please consult igus®

**Lower part made of XXL-Material

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 15 links **3500.075.200.0**

+ Mounting brackets 1 set (with tiewrap plates) **3150.34PZB**

+ Interior separation with 2 separators assembled every 2nd link **2 x 45.1**

Order text: 1,0 m 3500.075.200.0 + 3150.34PZB + 2 x Part No. 45.1

Order key
3500.075.200.0



Color options for e-chains® and e-tubes

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

Black e-chains® from stock!

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

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

*Delivery time means time until shipping of goods

Mounting with or
without strain relief

Snap-open
along both radii

Large pin
for high stability

Lateral glide
surfaces

Small pitch for
very quiet
operation

Small pitch, smooth running

When to use Series 255:

- If a medium-sized, stable e-chain® with a small pitch for very quiet operation and an inner height of 24 mm is required
- If inner widths up to 103 mm are required
- For unsupported lengths up to 1,8 m and fill weights up to 2,0 kg/m
- For long travels up to 100 m
- If snap-open capability of crossbars from both sides is required



When to use a different igus® Series:

- If more stability is required
 - ▶ **System E4.1, Series E4.21, page 7.18**
- For simple applications and easy filling
 - ▶ **easy chain®, Series E200, page 3.63**
- If snap-open capability of links from both sides is required
 - ▶ **System E4.1, Series E4.21, page 7.18**

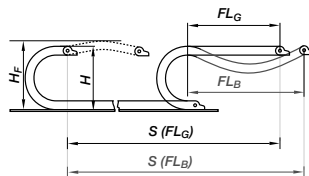
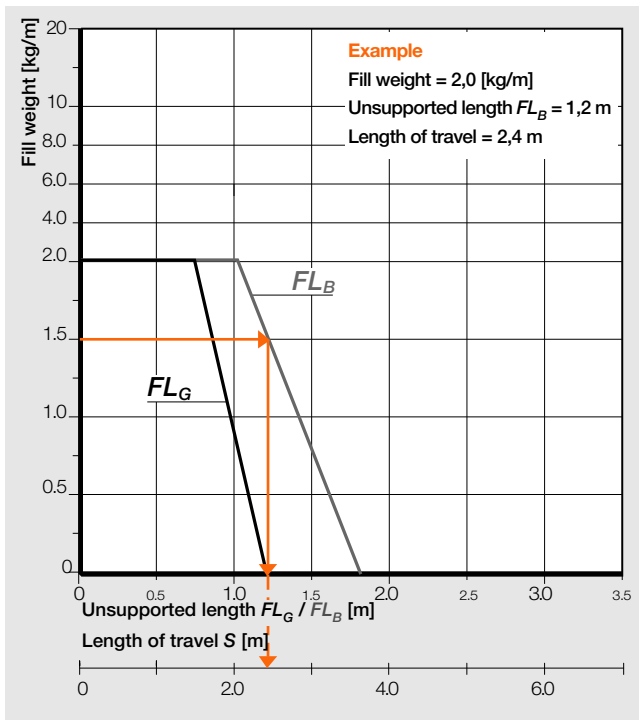


Available from stock. Delivery in 24h or today!*

*Delivery time means time until shipping of goods



3D-CAD files, configurators, PDF ▶ www.igus.de/en/255

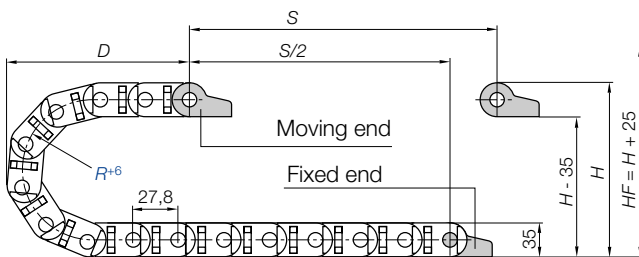


Standard **Unsupported applications**

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**

Gliding applications

Long travels up to 100 m.
 More information ► **page 5.234**



Technical Data

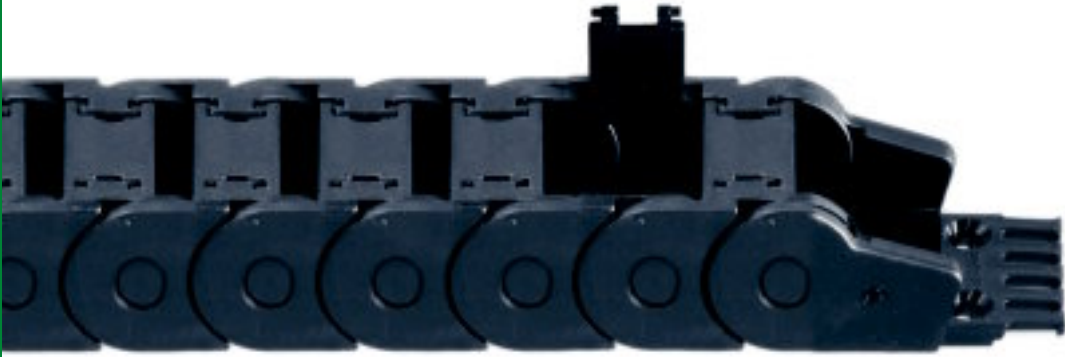
Speed, material, temperature and flammability class ► **page 5.140**

- Pitch** = 27,8 mm/link
- Links/m** = 36 (1000,8 mm)
- Chain length** = $S/2 + K$

R	055	075	100	125	150	175	200	225	250
$H+6$	145	185	235	285	335	385	435	485	535
D	114	134	159	184	209	234	259	284	309
K	230	295	370	450	530	610	610	765	845

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

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



Series 255 | Snap-open along outer radius

e-chains® snap-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	255 [kg/m]
255. 03 .R.0	38	54	055 075 100 125 150 175 200 225 250	≈ 0,81
255. 05 .R.0	57	73	055 075 100 125 150 175 200 225 250	≈ 0,90
255. 07 .R.0	77	93	055 075 100 125 150 175 200 225 250	≈ 1,01
255. 10 .R.0	103	119	055 075 100 125 150 175 200 225 250	≈ 1,15

Supplement Part No. with required radius. Example: **255.10.200.0**



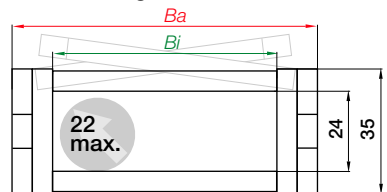
Order key

255. 10. 200. 0



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

Dimensioning



255.10.200.0 = e-chain® snap-open along outer radius, *Bi* 103 mm inner width, *R* 200 mm radius, color black

More order examples and configuration options ► page 5.236

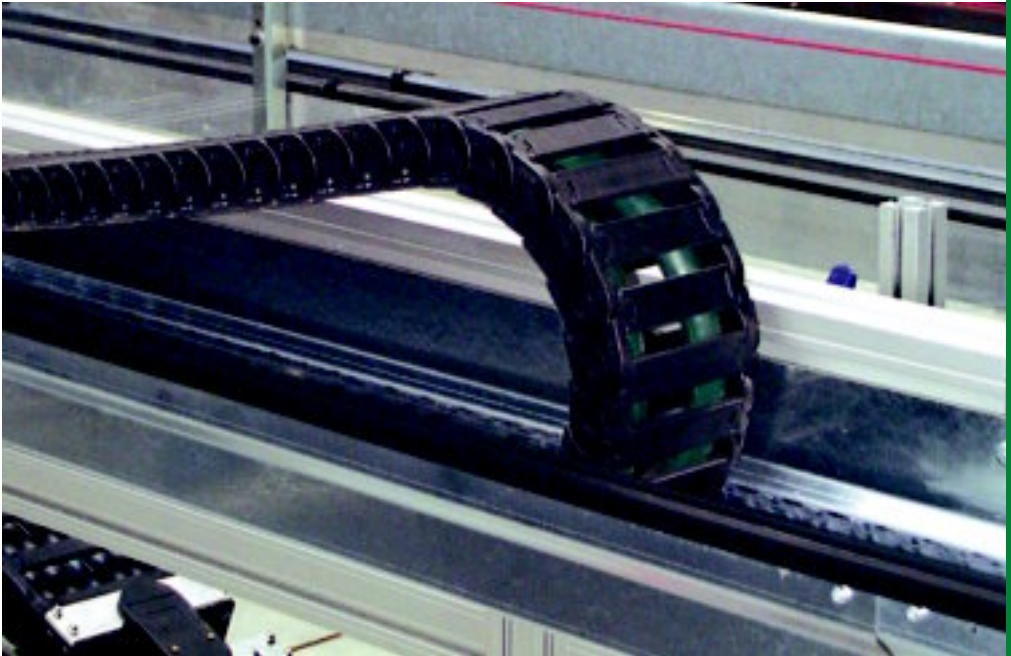


Part No. of e-chain® links as single parts ► page 5.141

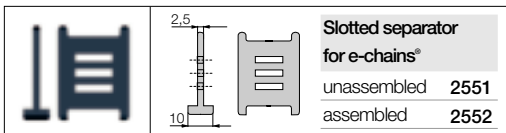
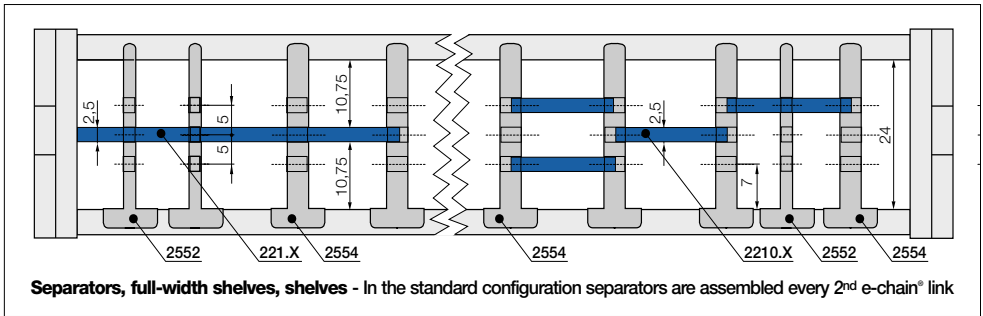


Standard e-chains® available from stock. **Delivery in 24h or today!***

*Delivery time means time until shipping of goods

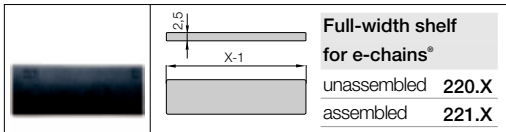
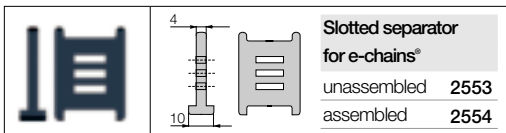


Series 255 - also suitable for long travel applications



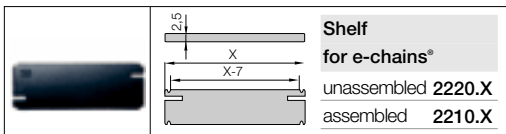
Standard slotted separator 2551 and slotted separator 2553

Vertical subdivision on e-chains®. Due to its slot, it allows basic vertical/horizontal shelving arrangements (determining which type of separator to use depends on any potential retrofit requirements).



Full-width shelf 220.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).



Shelf 2200.X

For applications involving many cables with different diameters, shelves can be arranged at alternate heights. They can be arranged at 3 different heights (in 5 mm increments).

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
038	220.38	221.38	077	220.77	221.77
057	220.57	221.57	103	220.103	221.103

Shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
018	2200.18	2210.18	048	2200.48	2210.48
023	2200.23	2210.23	058	2200.58	2210.58
028	2200.28	2210.28	068	2200.68	2210.68
033	2200.33	2210.33	073	2200.73	2210.73
038	2200.38	2210.38	088	2200.88	2210.88
043	2200.43	2210.43	099	2200.99	2210.99



Space-saving and compact energy supply with lbt flizz® -
Maintenance system, delivered preassembled with assembled igus® Series 255 e-chain®

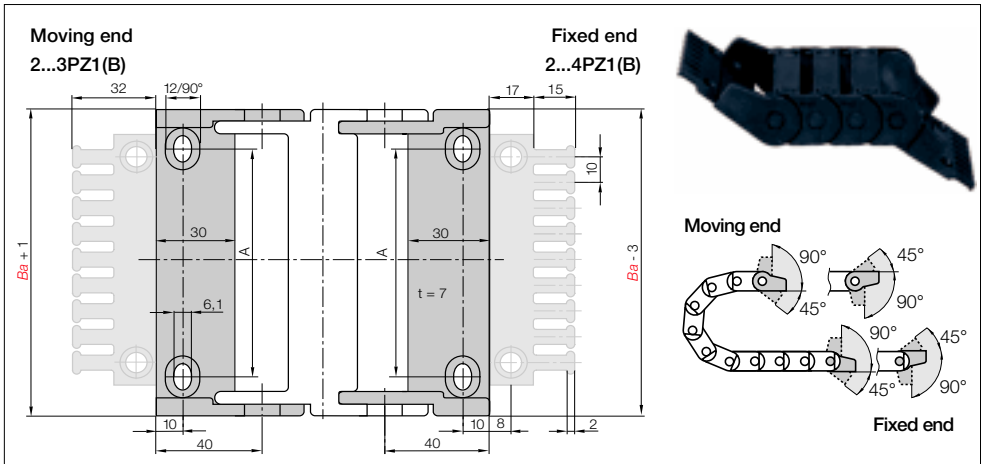
Optional: Support tray tool kit.

For support of the lower run.

Simple one-piece support trays according to your requirements and specification.
Order example - support tray with bracket, length 1,0 m, color black: **Part No. S9.011.05.1000.0**. The complete range with order options ► from page 9.70

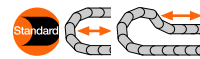


For tight installation conditions



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

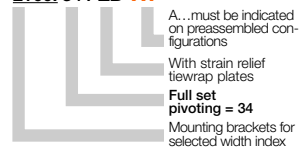
For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Zähnezahl
03.	▶ 2030.34PZ1B	2030.34PZ1BK1	2030.34PZ1	25	4
05.	▶ 2050.34PZ1B	2050.34PZ1BK1	2050.34PZ1	44	6
07.	▶ 2070.34PZ1B	2070.34PZ1BK1	2070.34PZ1	64	8
10.	▶ 2100.34PZ1B	2100.34PZ1BK1	2100.34PZ1	90	10



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

Part No. structure (pivoting)

2100, 34 PZB A1



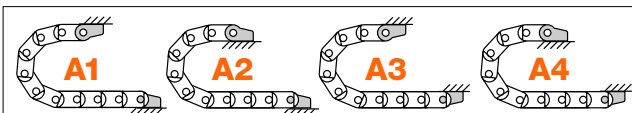
Single-part order

Mounting bracket **Moving end**

2100, 3 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

2100, 4 PZB A1 (preassembled + tiewrap plate)



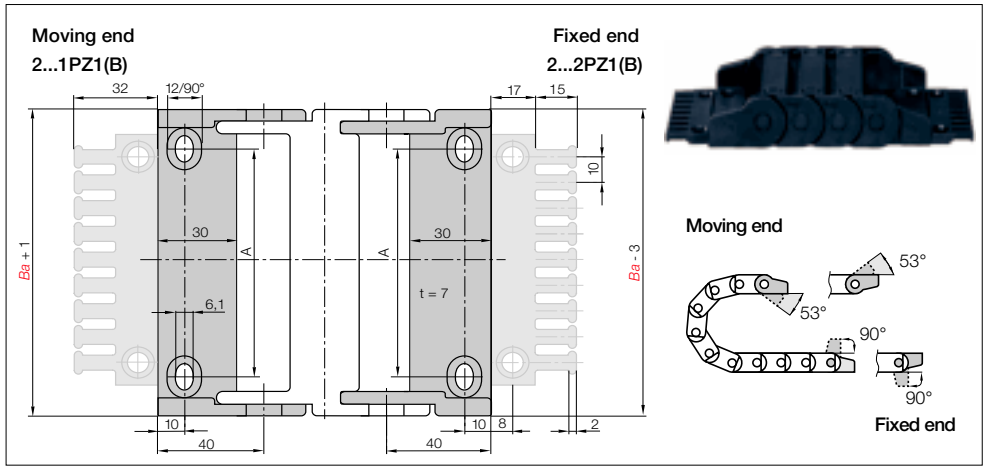
Possible installation conditions for assembled, pivoting mounting brackets.

For the **preassembled** mode please add index **A1... A4** ▶ e.g. **2100.34PZBA1**



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 | Universal for e-chains®

Recommended for vertical hanging and standing applications

For width index	Part No. full set with tiewrap plate	Full set with tiewrap plate + 10 cable tiewraps	Part No. full set without tiewrap plate	Dim. A [mm]	Zähnezahl
03.	▶ 2030.12PZ1B	2030.12PZ1BK1	2030.12PZ1	25	4
05.	▶ 2050.12PZ1B	2050.12PZ1BK1	2050.12PZ1	44	6
07.	▶ 2070.12PZ1B	2070.12PZ1BK1	2070.12PZ1	64	8
10.	▶ 2100.12PZ1B	2100.12PZ1BK1	2100.12PZ1	90	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)

2100.12 PZB A1

A...must be indicated on preassembled configurations

With strain relief tiewrap plates

Full set locking = 12

Mounting brackets for selected width index

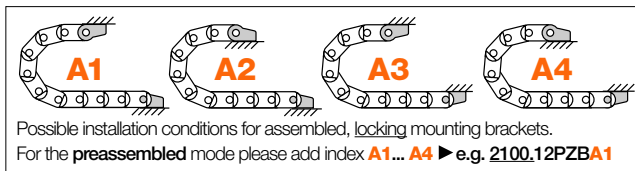
Single-part order

Mounting bracket **Moving end**

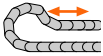
2100.1 PZB A1 (preassembled + tiewrap plate)

Mounting bracket **Fixed end**

2100.2 PZB A1 (preassembled + tiewrap plate)

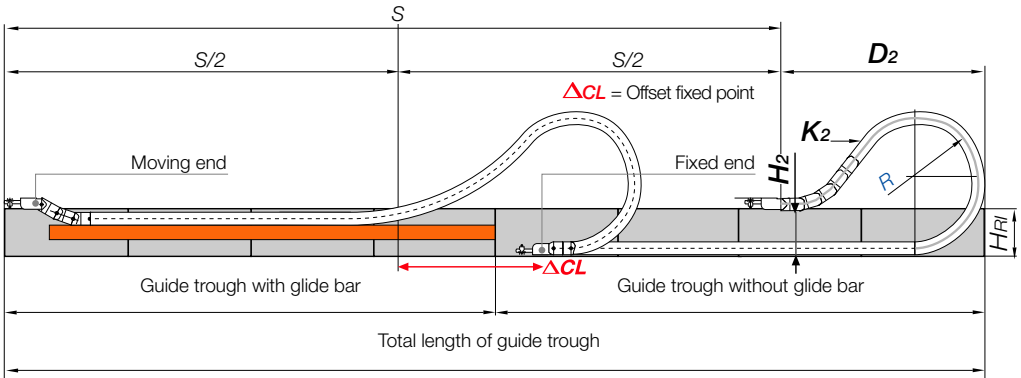


 **Strain relief** e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with order options ▶ from page 10.1



Gliding applications | For long travels from 10 m to max. 100 m

Solution for long travel applications - In this case the e-chain® upper run will be introduced in a guide trough on the lower run. We recommend to realize the engineering of such a plant by our technicians. **In case of travels between 4 and 10 m we recommend a longer unsupported length.** More information ► **Design, from page 1.16.**



$$\text{Pitch} = 27,8 \text{ mm/link} \cdot \text{Links/m} = 36 (1000,8 \text{ mm}) \cdot \text{Chain length} = \frac{S}{2} + K$$

R	055	075	100	125	150	175	200	225	250
H_2	110	150	100	100	100	100	100	100	100
D_2+25	114	134	380	495	570	665	740	1040	1130
K_2	230	295	612	806	945	1112	1223	1610	1779
ΔCL	-	-	222	322	372	437	497	upon request 822	

More details | For long travel applications

lbt flizz® - Enclosed plastic trough

Length of travel ≤ 200 m v_{\max} 8 m/s

High speeds and accelerations. Applicable for moving and stationary control ► page 9.100

NEW guidelok slimline F - Safe vertical guidance for e-chains®

Travels up to 50 m height v_{\max} 7 m/s

For hanging applications e.g. high-speed rack feeders up to 7 m/s and 10 m/s². No swinging of the e-chain®, high reliability through lever mechanism and guiding rails. Energy and data and all kinds of media in one single system. ► from page 9.98



The complete range of special solutions for long travel applications incl. order function ► from page 9.77

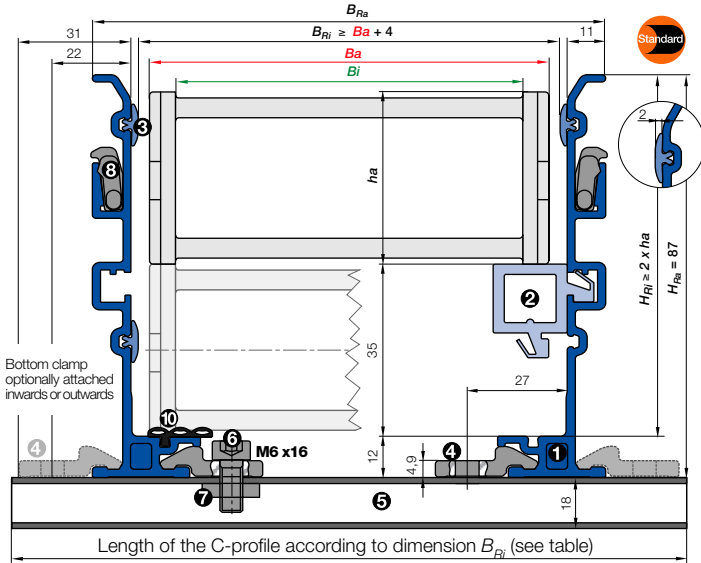


H_2 = Mounting height (if the moving end is set lower)
 D_2 = Over length - long travels, gliding

K_2 = Further add-on (if the moving end is set lower)
 R = Bending radius

ΔCL = Offset fixed point
 H_{RI} = Inner trough height

S = Length of travel
 $S/2$ = Half length of travel



Installation set "Basic" with C-Profile

Bottom Clamp optionally attached inwards or outwards

255.10.200.0 ▶ Order example

B_{Ri} [mm]	Part No. attached inwards	Part No. attached outwards
03	-	960.30.150
.05	960.30.125	960.30.175
.07	960.30.150	960.30.200
.10	960.30.175	960.30.225

Insert for the installation set "Heavy-Duty":
971.50.XXX instead of **960.30.XXX** on
 the right column "attached outwards"

- **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) ⑩ Optional: Silencer profile, rubber
- **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 255.10.200.0 with $B_{Ri} = 123$**

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. 971.30.SL**

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

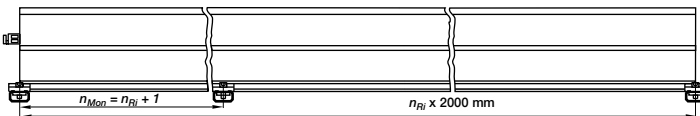
Order text: 16 m guide trough with glide bar (8 x 2 m sections) **Part No. 971.31.SL**

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

Order text: 17 installation sets **Part No.960.30.150**

Option: For an additional noise dampening

with silencer profile, please add Index A - Example: Part No. 971.30.SLA



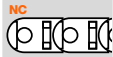
Principle sketch: Number of installation sets to be installed = Number of trough sections + 1



**Details about Alu "SuperTrough" and the
 "Heavy Duty" version for heavy machinery ▶ from page 9.24**



- 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_{Ro} = Outer trough width
- H_{Ri} = Inner trough height
- H_{Ro} = Outer trough height
- n_{Mon} = Number of installation sets
- n_{Ri} = Number of trough sets

*Standard**NC-Version -
(no camber)
without pretension**Reverse bending
radius for circular
movements**Unsupported
lengths +25%
possible***Part No.
Standard**
e-chains®/e-tubes**Part No.
NC-Material**
e-chains®/e-tubes**Part No.
RBR**
e-chains®**Part No.
XXL-Material****
e-chains®**255.10.R.0**

e-chain® snap-open along outer radius

255.10.R.0.NC

e-chain® snap-open along outer radius

255.10.R1/R2.0

e-chain® snap-open along outer radius

255.10.R.0.XXL

e-chain® snap-open along outer radius

**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

**Lower part made of XXL-Material

Combination possibilities | Examples

	NC- Version	RBR- Version	XXL- Material	ESD- Material
NC- Version		-	-	255.10.R.0.ESD.NC
RBR- Version	-		-	255.10.R1/R2.0.ESD
XXL- Material	-	-		-
ESD- Material	255.10.R.0.ESD.NC	255.10.R1/R2.0.ESD	-	

E2 medium | Series 255 | Options and order key

ATEX / ESD
classified e-chains®
II 2 GD

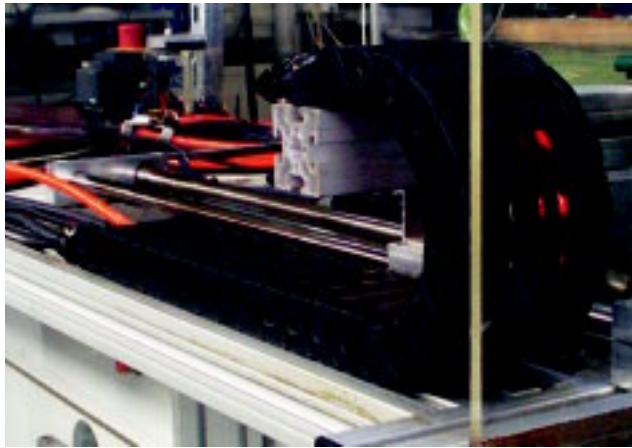
Part No.
ESD-Material
e-chains®



255.10.R.0.ESD

e-chain® snap-open along outer radius

Delivery time:
5 work days



Series 255 - small pitch, smooth running - test example at the igus® test lab

Order example | Order key and color options



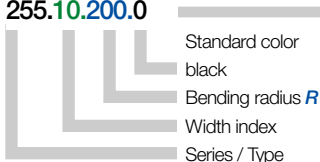
**Order example for complete e-chain® (1,0 m),
color black, with mounting brackets and interior separation:**

e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 36 links	255.10.200.0
+ Mounting brackets	1 set (with tiewrap plates)	2100.34PZ1B
+ Interior separation	with 2 separators assembled every 2 nd link	2 x 2552

Order text: 1,0 m 255.10.200.0 + 2100.34PZ1B + 2 x Part No. 2552



Order key
255.10.200.0



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