

igus[®] solutions for simple applications

- Reinforcement for existing corrugated tube systems
- Cost-effective, one-piece strip design
- Guide cable bundles quickly and easily
- Energy supply for offices and furniture



e-rib

Reinforcement for existing corrugated tube systems



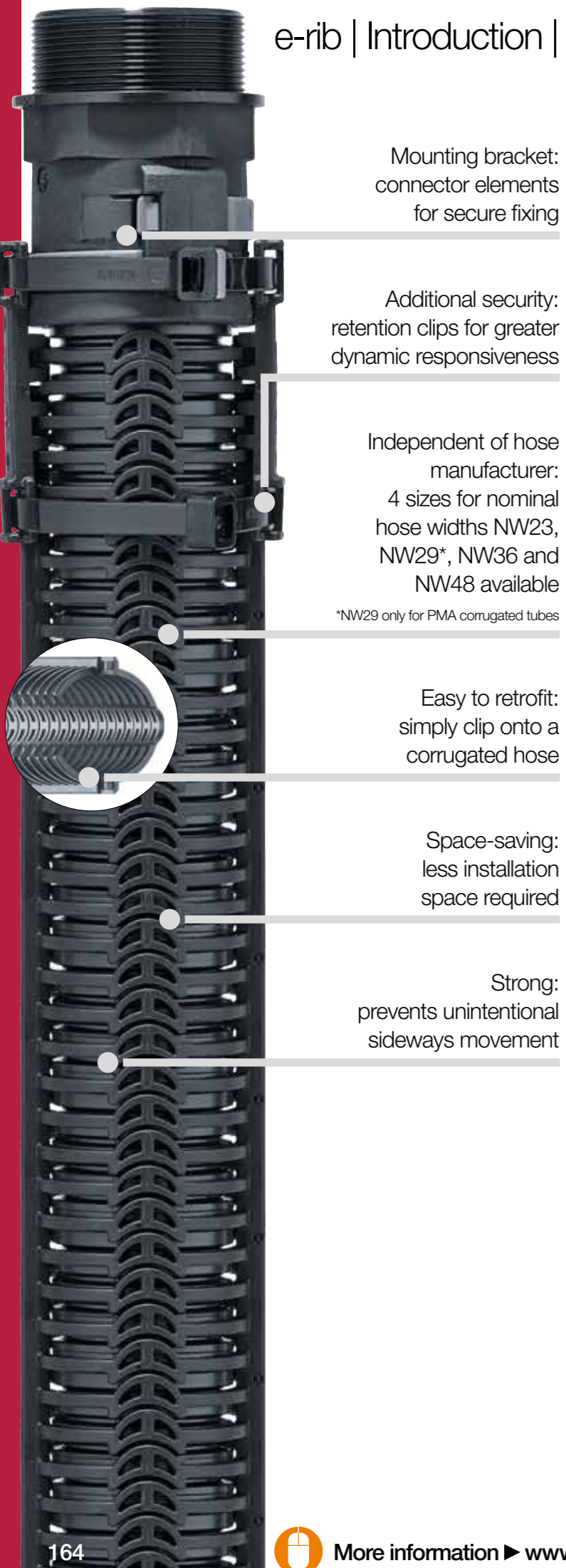
Advantages of the e-rib series:

- When low-cost corrugated tubes are used to protect and carry cables but stability must be increased
- To stabilise corrugated tubes used in highly dynamic applications
- Longer service life for cables in corrugated tubes
- 4 sizes for nominal hose widths NW23, NW29*, NW36 and NW48 available *NW29 for PMA corrugated tubes



When to use another system:

- When a fully enclosed, yet still openable corrugated tube is needed
 - ▶ e-skin®, page 834



Mounting bracket:
connector elements
for secure fixing

Additional security:
retention clips for greater
dynamic responsiveness

Independent of hose
manufacturer:
4 sizes for nominal
hose widths NW23,
NW29*, NW36 and
NW48 available

*NW29 only for PMA corrugated tubes

Easy to retrofit:
simply clip onto a
corrugated hose

Space-saving:
less installation
space required

Strong:
prevents unintentional
sideways movement

Reinforcement for existing corrugated tube systems - e-rib

Corrugated tubes are used in many applications where the mechanical demands on the energy supply are low. The key advantages are easy, versatile and exceptionally cost-effective guidance of energy, data and media. However, fast movements can lead to damaging sideways movement. The igus® e-rib is easy to clip onto a corrugated hose and can help prevent this. The e-rib fills the joints of the corrugated hose to stabilise it in such a way that it can only move in one direction. The corrugated hose has an unsupported length due to the lateral guide elements. When retrofitted, the e-rib enables an upgrade of existing applications with just a few simple steps. The e-rib is independent of the hose manufacturer (depending on size) and available in four sizes.

- Stability prevents unintentional sideways movement
- Less installation space required
- Easy to retrofit
- No change in the impermeability of the corrugated hose

Typical industries and applications

- Fast, short and unsupported applications
- Standing or hanging applications
- Automotive industry
- Machine and plant construction
- Pick & Place applications
- Plotter
- Handling systems
- Medical technology
- SCARA robots

Series	Nominal width NW [mm]	Inner width Bi [mm]	Outer width Ba [mm]	Outer height ha [mm]	Mounting bracket	Page
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e-rib -
reinforcement for existing
corrugated tube systems

EL.00.23.0	23	28	41	29.9	EL.00.12	170
EL.01.29.0 ¹⁾	29	34.5	44.5	33	EL.01.12	171
EL.00.36.0	36	42	56	42.9	EL.00.12	172
EL.00.48.0	48	54	67.5	53.6	EL.00.12	173

1) EL.01.29.0 only for PMA corrugated tube I-PISG-29B/S

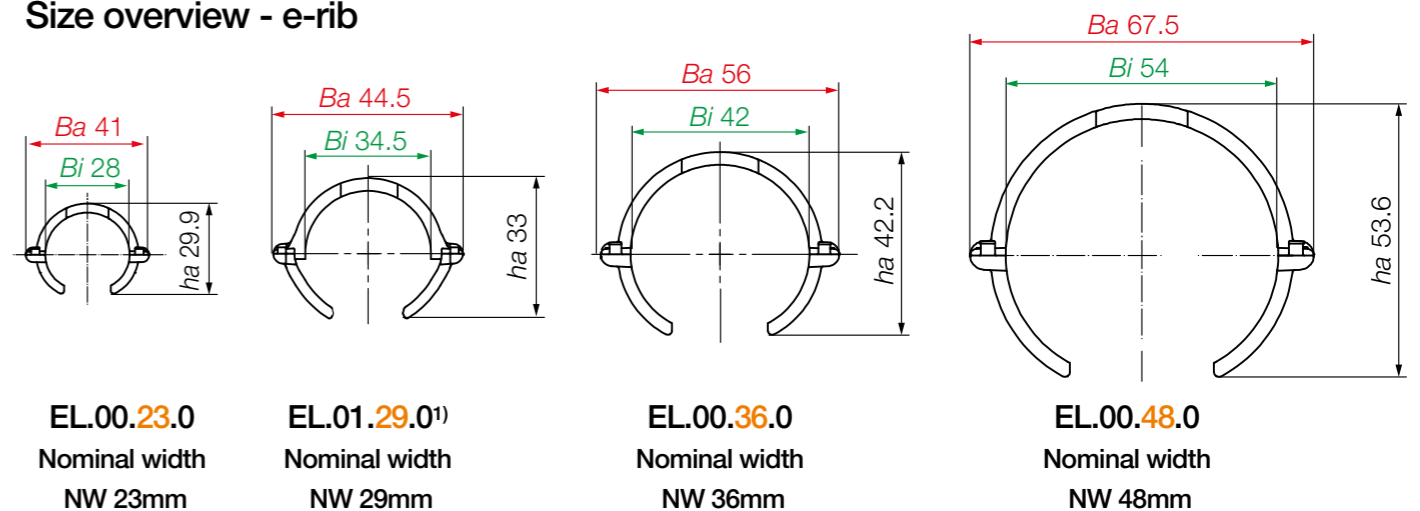
Other sizes available upon request. Please consult igus® for delivery time.



Available from stock. Ready to ship in 24 - 48hrs.*



*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Size overview - e-rib



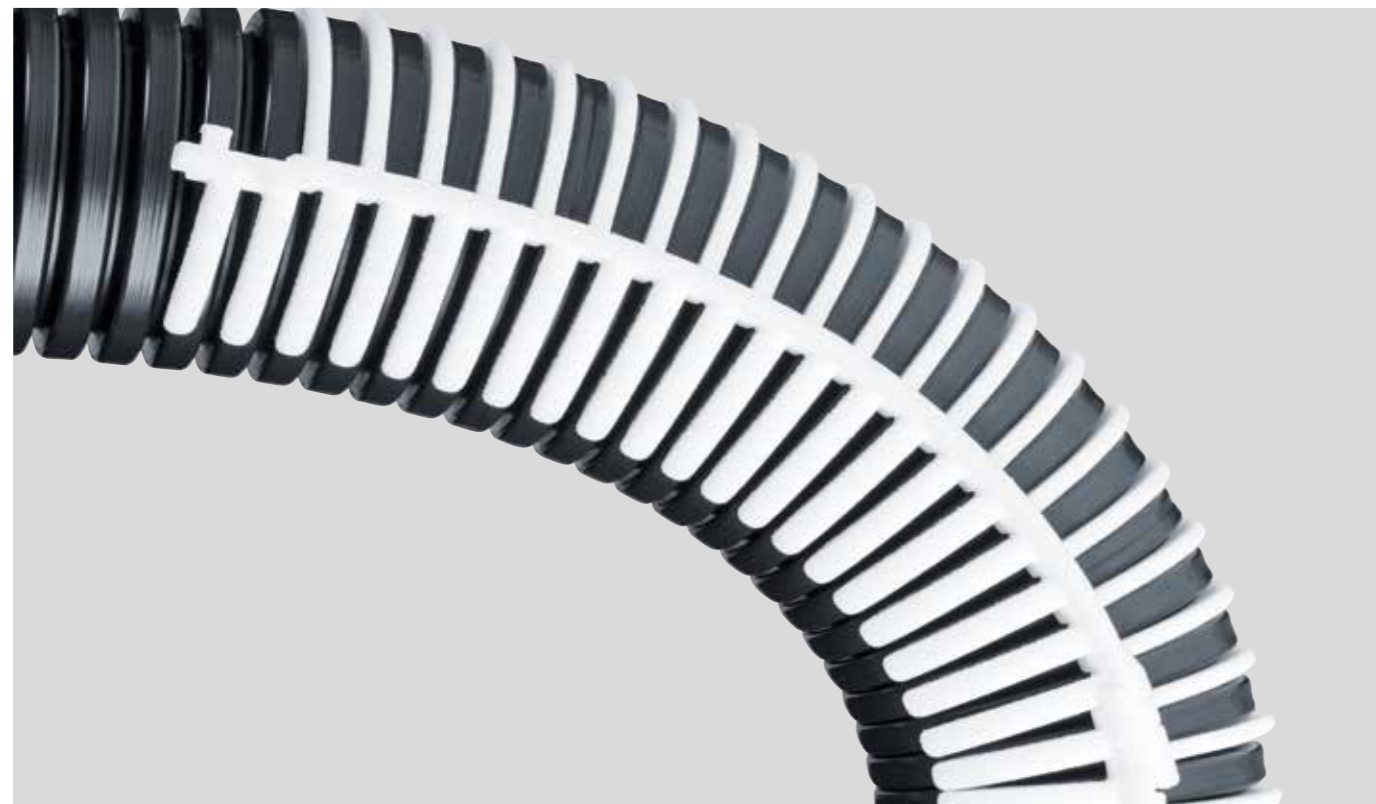
1) Only for PMA corrugated tube I-PISG-29B/S

Technical data

 e-chain® material - permitted temperature °C, igumid NB	+5°C up to +80°C
Mounting bracket material - permitted temperature °C, igumid NB	+5°C up to +80°C
 Flammability class	VDE 0304 IIC UL94-V2


Overview nominal width | Manufacturer | Pitch

Part No. e-rib	For nominal width NW [mm]	For corrugated tube systems	e-rib segments per 1 metre	e-rib segment length [mm]
EL.00.23.0	NW 23	Independent of manufacturer	7 segments	147mm
EL.01.29.0	NW 29	Only for PMA corrugated tube I-PISG-29B/S	10 segments	100mm
EL.00.36.0	NW 36	Independent of manufacturer	7 segments	147mm
EL.00.48.0	NW 48	Independent of manufacturer	7 segments	147mm



The e-rib is clipped onto the corrugated tube and stabilises it in such a way that it can only move in one direction

Order example | Order key and colour examples | Examples based on series EL.00.36

 Order example for e-rib, colour black, with mounting bracket and securing clips for one metre corrugated tube (independent of manufacturer):

e-rib (for 1.0m)	Please indicate the quantity	EL.00.36.0
+ Mounting brackets	1 set mounting bracket	EL.00.12
+ Securing clips	Option: with 2 securing clips	EL.00.S
+ Cable tiewrap	Option: 1 cable tiewrap (for securing clips)	MAT0170899
Order text:	7 pieces EL.00.36.0 + 2 x EL.00.12 + 2 x EL.00.S + 1 x MAT0170899	

 Order key

Example: Part No. e-rib **EL.00.36.0**

Series e-rib








Index **00** for all manufacturers
Index **01** only for PMA

Nominal width (NW)

Colour index (standard black)



Order index for colour options

Colour	Order index	Colour	Order index
 Black	Standard .0	 Orange	Special colour .2
 Silver-grey	Special colour .31	 Yellow	Special colour .4
 White	Special colour .1	 Light grey	Special colour .14
 Grey-white	Special colour .1S		

Black e-ribs available from stock.
Above special colours upon request.



The igus® e-rib corrugated tube reinforcement can be easily retrofitted onto existing systems



igus® delivers the required length. Any excess length can easily be cut off.



To attach the e-rib to the hose fitting, there must be no connection point on the last 7 ribs of the e-rib, otherwise the mounting bracket will not lock securely.

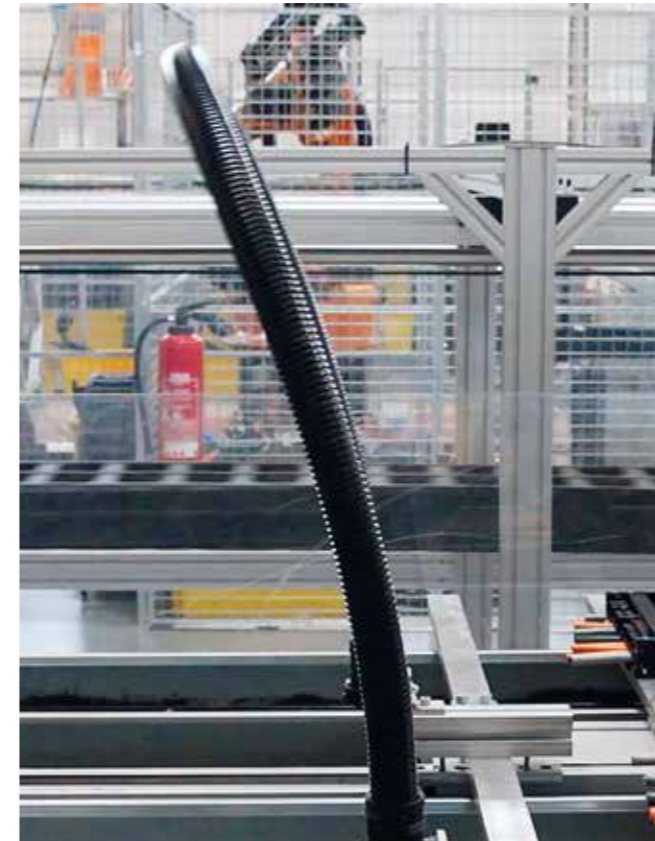


If necessary, cut off thicker end section and any excess length and place the two mounting brackets on the side plates.



Finally, the mounting brackets are fixed with two cable tiewraps.

Find a video online
▶ www.igus.eu/e-rib



Tests from the igus® laboratory: The igus® e-rib (pictured on the right) stabilises the corrugated hose significantly in sideways movement during acceleration or deceleration



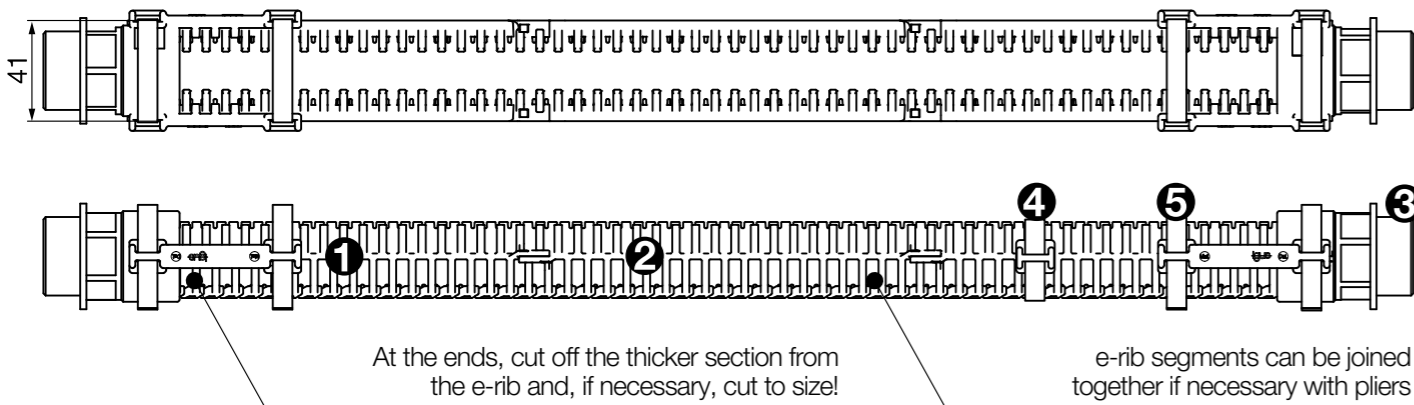
The e-rib stabilises the corrugated hose so that it can only move in one direction. The corrugated hose requires no other support along its length due to the e-rib



Series EL.00.23 | e-rib for corrugated tubes from different manufacturers | Nominal width 23

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.00.23.0	23	28	41	29.9	7	147	≈ 0.16	EL.00.12

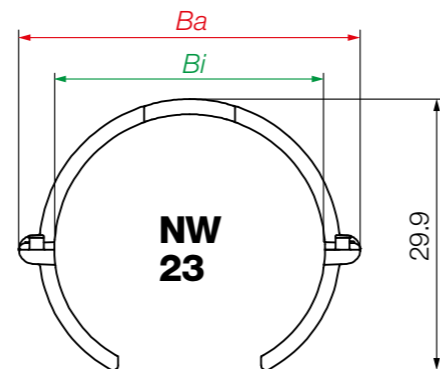
Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-23B
②	e-rib	EL.00.23
③	PMA connection fitting	I-BVND-M323GT
④	Securing clip, optional*	EL.00.S
⑤	Mounting bracket connection set	EL.00.12

Note: For each locking device, 2 clips EL.00.S and a cable tie wrap MAT0170899 are needed!

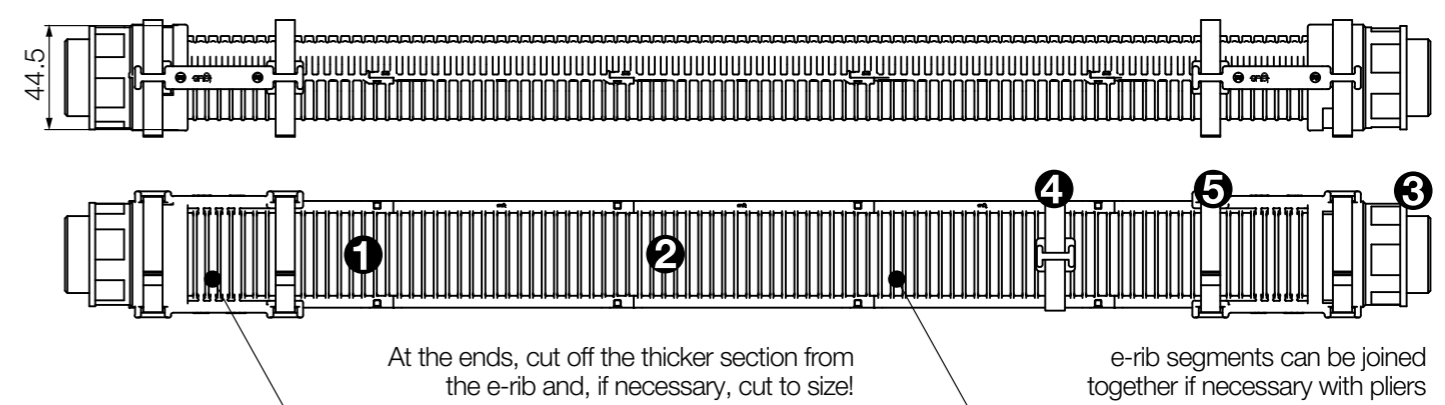
*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tie wrap.



Series EL.01.29 | e-rib - only for PMA corrugated tube I-PISG-29B/S | Nominal width 29

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.01.29.0 ¹⁾	29	34.5	44.5	33	10	100	≈ 0.12	EL.01.12

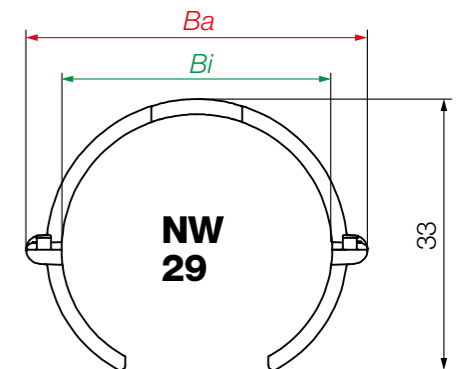
Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-29B
②	e-rib	EL.01.29
③	PMA connection fitting	I-BVND-P299GT
④	Securing clip, optional*	EL.01.S
⑤	Mounting bracket connection set	EL.01.12

Note: For each locking device 2 clips EL.01.S and one cable tie wrap MAT0170899 are required!

*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tie wrap.

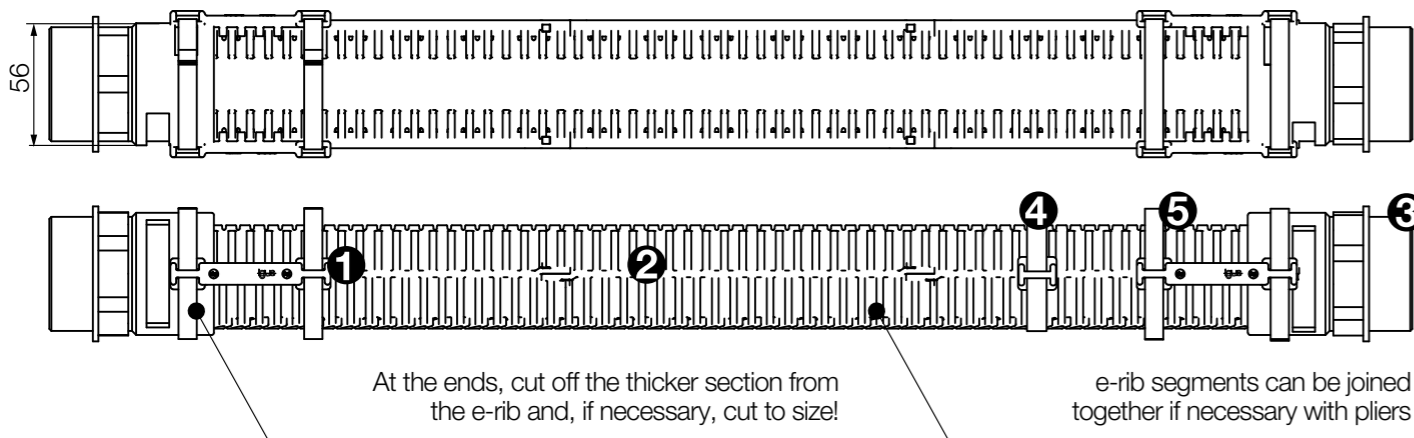




Series EL.00.36 | e-rib for corrugated tubes from different manufacturers | Nominal width 36

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.00.36.0	36	42	56	42.9	7	147	≈ 0.22	EL.00.12

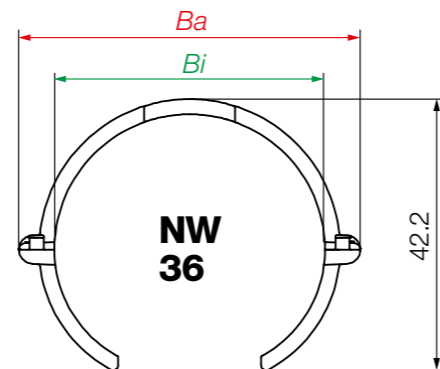
Installation dimensions and product description



Position	Description	Part No.
①	PMA corrugated tube	I-PISG-36B
②	e-rib	EL.00.36
③	PMA connection fitting	I-BVND-M506GT
④	Securing clip, optional*	EL.00.S
⑤	Mounting bracket connection set	EL.00.12

Note: For each locking device, 2 clips EL.00.S and a cable tie wrap MAT0170899 are needed!

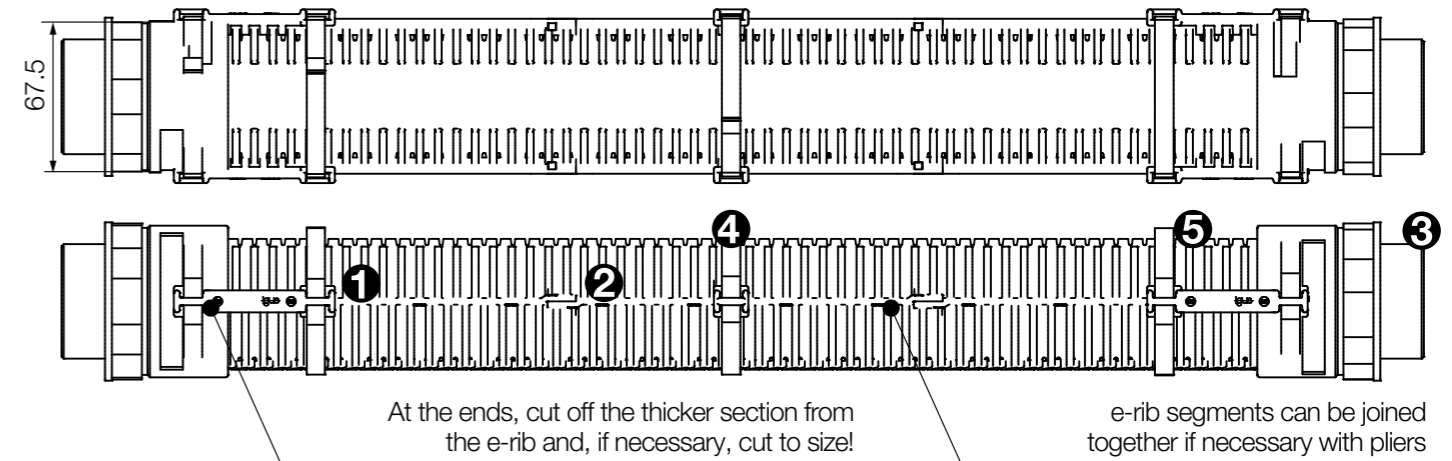
*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tie wrap.



Series EL.00.48 | e-rib for corrugated tubes from different manufacturers | Nominal width 48

Part No.	NW	Bi	Ba	ha	Segments per metre	Segment length [mm]	Weight [kg/m]	Mounting bracket
e-rib	[mm]	[mm]	[mm]	[mm]				
EL.00.48.0	48	54	67.5	53.6	7	147	≈ 0.27	EL.00.12

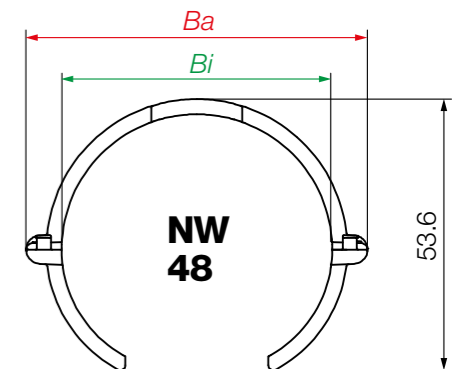
Installation dimensions and product description

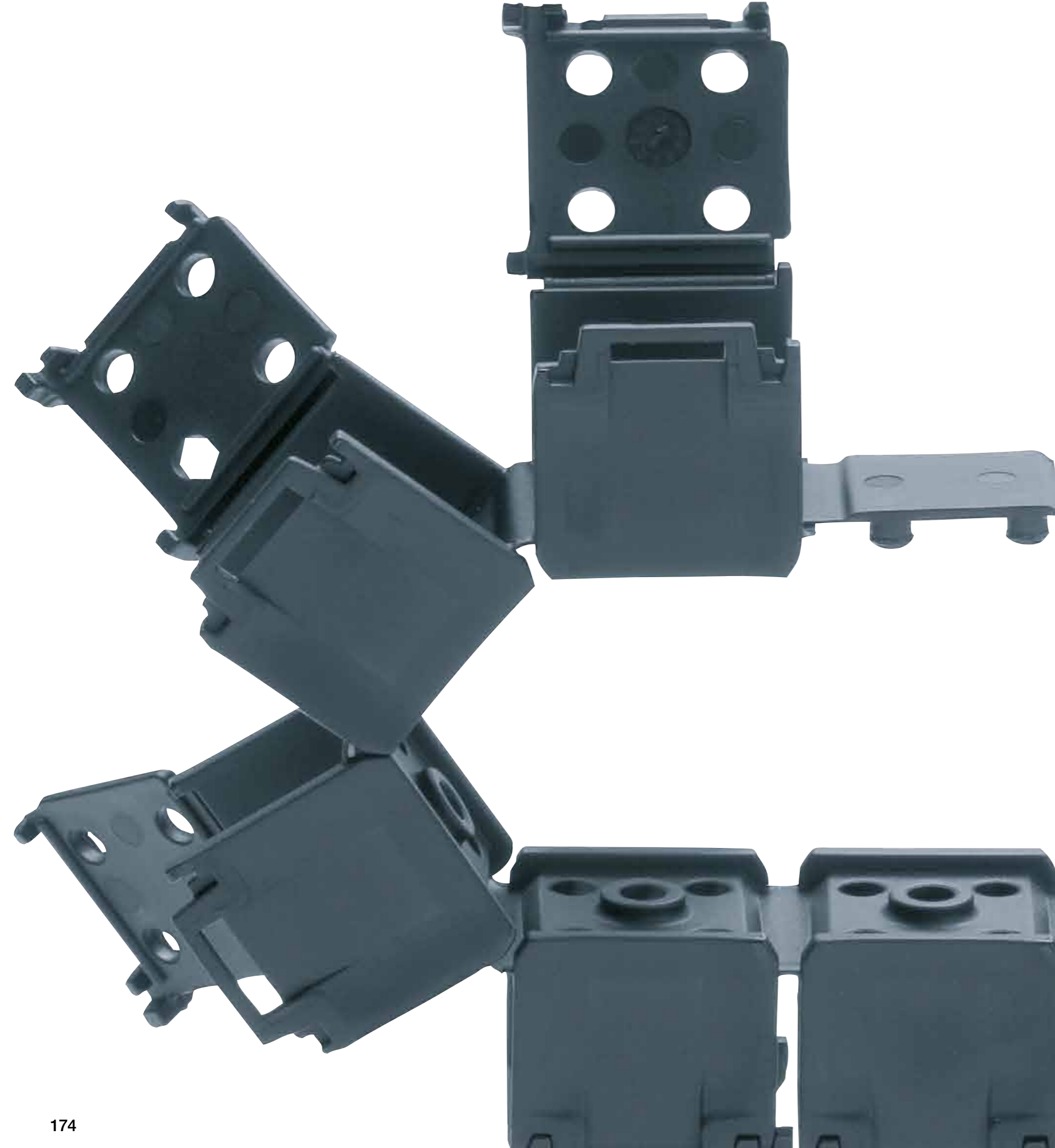


Position	Description	Part No.
①	PMA corrugated tube	I-PISG-48B
②	e-rib	EL.00.48
③	PMA connection fitting	I-BVND-M508GT
④	Securing clip, optional*	EL.00.S
⑤	Mounting bracket connection set	EL.00.12

Note: For each locking device, 2 clips EL.00.S and a cable tie wrap MAT0170899 are needed!

*Securing clips for additional attachment. They can be placed anywhere on the e-rib and fixed to the corrugated tube with a cable tie wrap.





E1

Cost-effective, one-piece strip design for simple applications



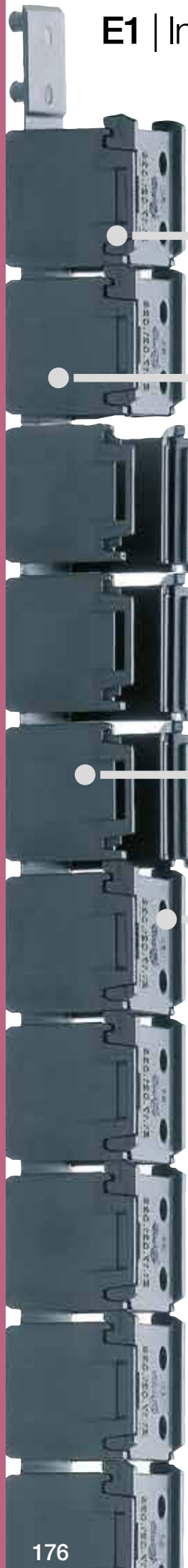
Advantages of the E1 series:

- If a small amount of filling is required
- If a cost-effective e-chain® is required
- If easy installation is required
- If a simple solution is required
- For low duty cycles



When to use another e-chain® series:

- For higher fill weights
 - ▶ **easy chain®**, page 198
 - ▶ **zipper**, page 226
- When easy filling with connectorised cables is required
 - ▶ **easy chain®**, page 198



Easy to lengthen: strips can simply be snapped together

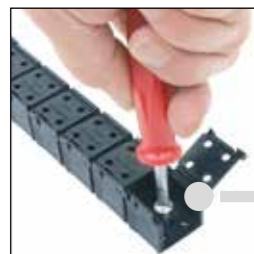
Easy shortening: just separate at each strip

Save time: easy to fill due to openable lids

Cost-effective: lightweight and low-priced e-chain®

Space-saving: compact design with smooth contour

Variety of options: different materials and colours available upon request



Practical: easy attachment to the machine



E1 - e-chain® in a strip - easy lengthening and shortening

Cost-effective, one-piece strip design for simple applications - E1

Modular e-chain®, 1-piece strip designed for simple applications - the E1 design brings the benefits of an e-chain® to applications where previously this solution was too expensive. E1 is more economic for higher volumes, quicker to assemble yet still offers great control and protection for moving cables.

Typical industries and applications

- Automotive ● Office solutions and technology
- Automation ● Electrical equipment ● Machine building etc.



UL94-V2 classification

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]	Bend radius <i>R</i> [mm]	Segment length [mm]	Page
ES1.10.013.	10	13	17	15.5	018	200	178
E1.17.021.	17	21	26	25	028	255	179
E1.17.031.	17	31	36	25	028	204	179
E1.17.044.	17	44	49	25	028	255	179
E1.18.015.	18	15	20	26	028	127.5	180
E1.20.015.	20	15	22	27	028	250	181



e-chain® in a strip - openable along the outer radius



Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Technical data



e-chain® material - permitted temperature °C, igumid NB

Application dependant, upon request



Flammability class, igumid NB

VDE 0304 IIC UL94-V2

Order example | Order key and colour examples | Examples based on series E1.17



Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:

e-chain® (1.0m) Please indicate number of segments

E1.17.044.028.0

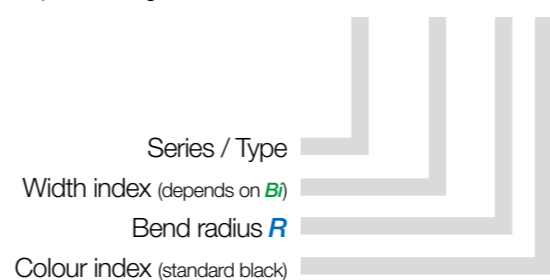
Order text: 5 x E1.17.044.028.0



Order key

Openable along the outer radius

E1.17.044.028.0



Order index for colour options

Colour	Order index	Colour	Order index
Black	Standard .0	Orange	Special colour .2
Silver-grey	Special colour .31	Yellow	Special colour .4
White	Special colour .1	Light grey	Special colour .14
Grey-white	Special colour .1S		

Black e-chains® available from stock. Above special colours upon request.



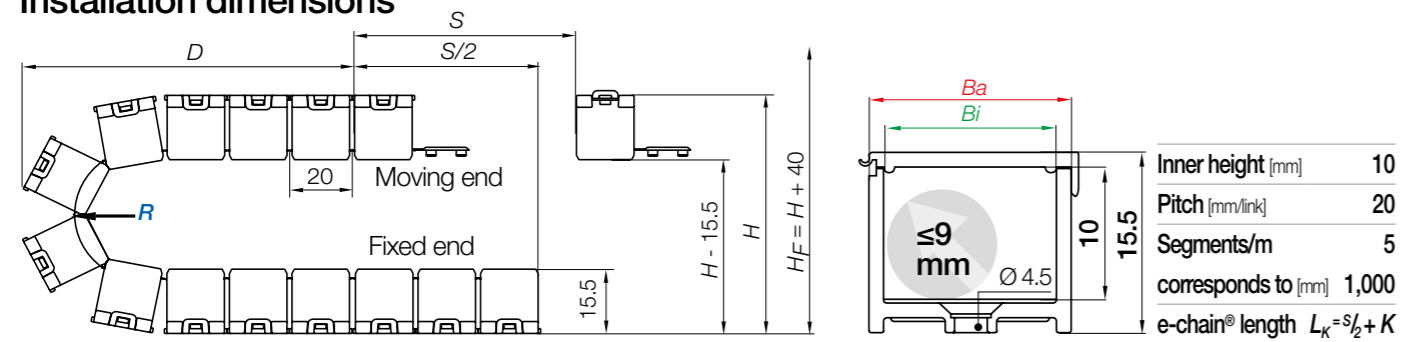
e-chain® | Series ES1.10 | Openable along the outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/Segment]
ES1.10.013.R.0	13	17	018	≈ 0.0164

The ES1.10 is an improved version of the E1.10 and supersedes it as of now. With the same dimensions but with installation and handling advantages.

Complete Part No. with required radius (*R*). Example: **E1.10.13.018.0**

Installation dimensions



Series	Segment length A [mm]	Links/segment	Segments/m
ES1.10.013.	200	10	5 (1.000 mm)

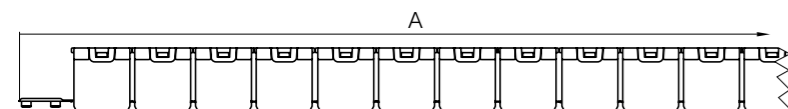
<i>R</i>	018
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<i>H</i>	62
<i>D</i>	66
<i>K</i>	100

The required clearance height:

$$H_F = H + 40\text{mm}$$

More radii available upon request, please consult igus®.

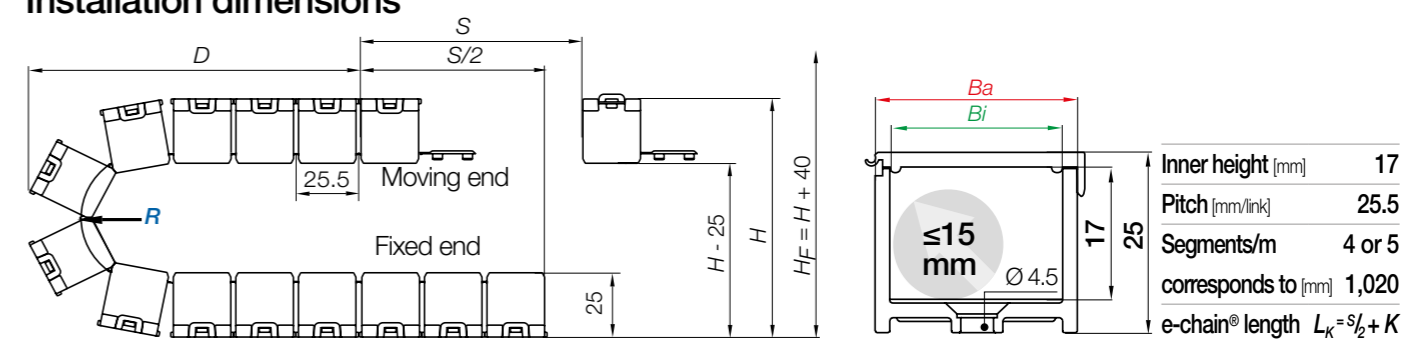


e-chain® | Series E1.17 | Openable along the outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/Segment]
E1.17.021.R.0	21	26	028	≈ 0.0478
E1.17.031.R.0	31	36	028	≈ 0.0580
E1.17.044.R.0	44	49	028	≈ 0.0695

Complete Part No. with required radius (*R*). Example: **E1.17.021.028.0**

Installation dimensions



Series	Segment length A [mm]	Links/segment	Segments/m
E1.17.021.	255	10	4 (1.020 mm)
E1.17.031.	204	8	5 (1.020 mm)
E1.17.044.	255	10	4 (1.020 mm)

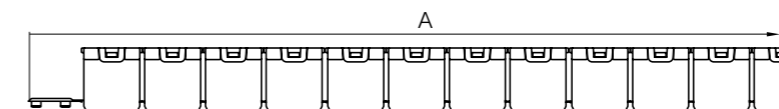
<i>R</i>	028
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<i>H</i>	92
<i>D</i>	76
<i>K</i>	120

The required clearance height:

$$H_F = H + 40\text{mm}$$

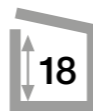
More radii available upon request, please consult igus®.



Mounting brackets for the series E1.17.021



Compact, universal mounting bracket for E1.17.021: Part No. **E1.170.021.TS** - for easy attachment

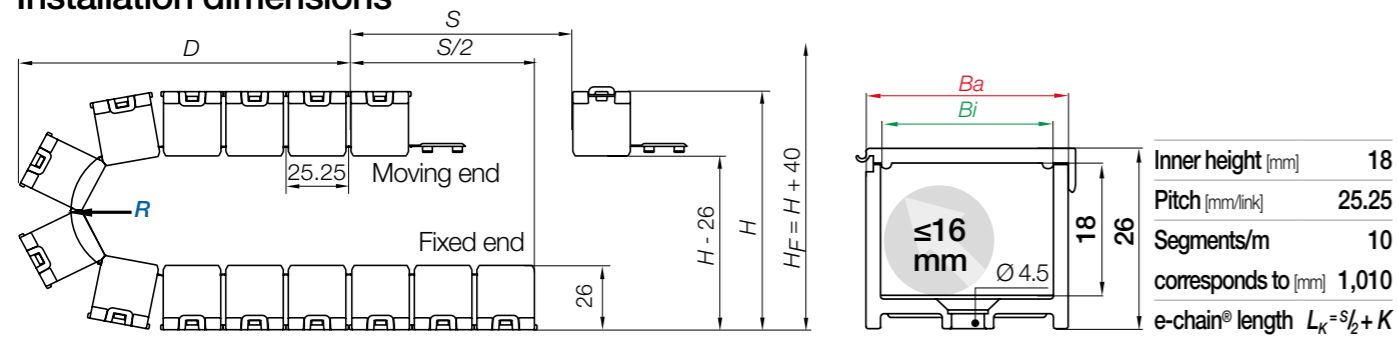


e-chain® | Series E1.18 | Openable along the outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/Segment]
E1.18.015.R.0	15	20	028	≈ 0.0169

Complete Part No. with required radius (*R*). Example: **E1.18.15.028.0**

Installation dimensions



Series	Segment length <i>A</i> [mm]	Links/segment	Segments/m
E1.18.015.	101	4	10 (1.010 mm)

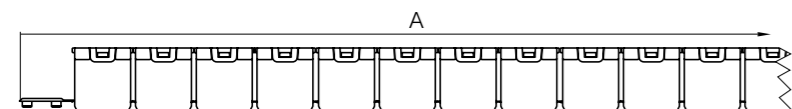
<i>R</i>	028
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<i>H</i>	92
<i>D</i>	76
<i>K</i>	120

The required clearance height:

$$H_F = H + 40\text{mm}$$

More radii available upon request, please consult igus®.

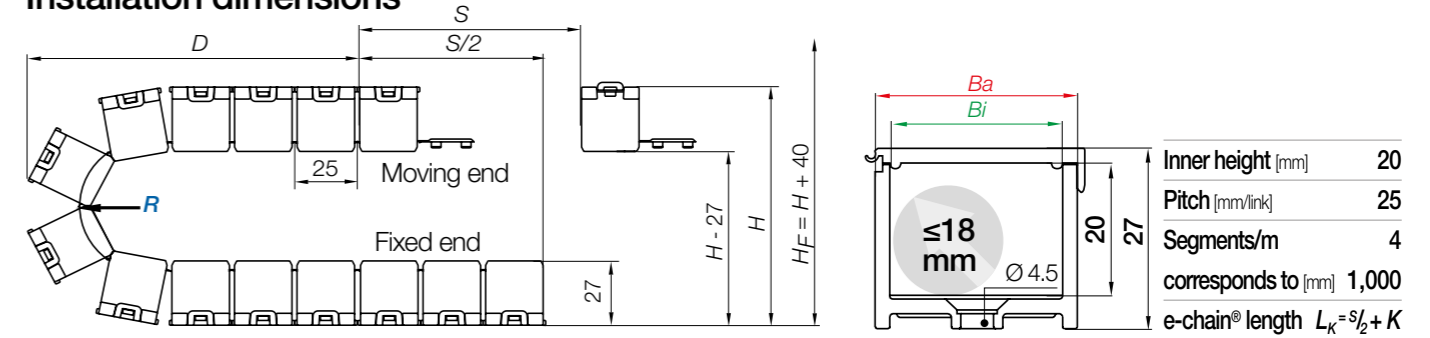


e-chain® | Series E1.20 | Openable along the outer radius | Lids open alternate sides

Part No.	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/Segment]
E1.20.015.R.0	15	22	028	≈ 0.0443

Complete Part No. with required radius (*R*). Example: **E1.17.021.028.0**

Installation dimensions



Series	Segment length <i>A</i> [mm]	Links/segment	Segments/m
E1.20.015.	250	10	4 (1.000 mm)

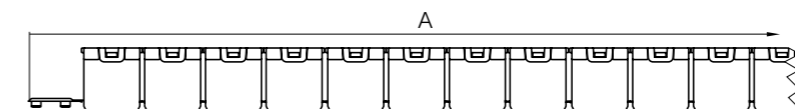
<i>R</i>	028
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<i>H</i>	92
<i>D</i>	76
<i>K</i>	120

The required clearance height:

$$H_F = H + 40\text{mm}$$

More radii available upon request, please consult igus®.





snapchain

Guide cable bundles quickly and easily



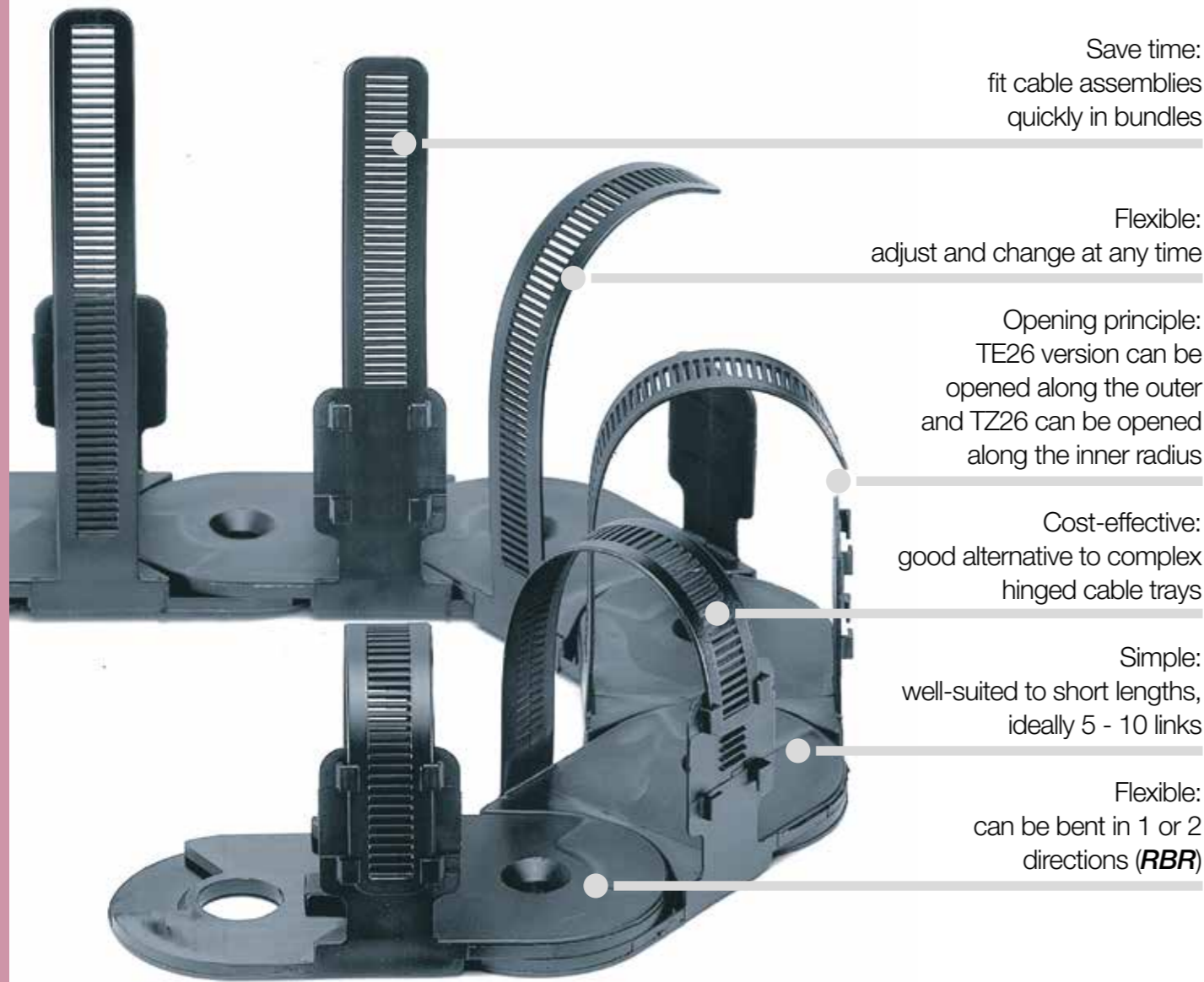
Advantages of the snapchain series:

- If a small amount of filling is required
- If a cost-effective e-chain® is required
- If easy installation is required
- If a simple solution is required
- For low duty cycles
- Various fastening options



When to use another e-chain® series:

- For higher fill weights
 - ▶ easy chain®, page 198
 - ▶ zipper, page 226
- When easy filling with connectorised cables is required
 - ▶ easy chain®, page 198



Save time:
fit cable assemblies
quickly in bundles

Flexible:
adjust and change at any time

Opening principle:
TE26 version can be
opened along the outer
and TZ26 can be opened
along the inner radius

Cost-effective:
good alternative to complex
hinged cable trays

Simple:
well-suited to short lengths,
ideally 5 - 10 links

Flexible:
can be bent in 1 or 2
directions (*RBR*)

Guide cable bundles quickly and easily - snapchain

igus® snapchain cost-effective e-chains® for simple filling. snapchains are easy to assemble and cost-effective. If a simple solution for low duty cycles is required.

Typical industries and applications

- Switch cabinet construction
- Electrical equipment
- Computer cabinets
- Office furniture
- Cables are moved infrequently



Series	Loop length [mm]	Pitch [mm]	Bend radius <i>R</i> [mm]	Page
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Version TE -
loops openable along the outer radius

Version TZ -
loops openable along the inner radius

TE14.50	50	30.5	028 - 125	186
TE26.120	120	56	063 - 200	187
TZ14.50	50	30.5	028 - 125	186
TZ26.120	120	56	063 - 200	187



Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Technical data



e-chain® material - permitted temperature °C, igumid NB -40°C / +80°C



Flammability class, igumid NB VDE 0304 IIC UL94-V2

Order example | Order key and colour examples | Examples based on series TE26



Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:

e-chain® (1.0m) Please indicate e-chain® length or number of links TE26.120.100.0

Order text: 1 m TE26.120.100.0



Order key

"TE" - split crossbar along outer radius

"TZ" - split crossbar along the inner radius

TE26.120.100.0
TZ26.120.100.0

Version "TE" or "TZ"

Series / Type

Length of loops

Bend radius *R*

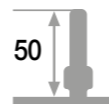
Colour index (standard black)

Order index for colour options

Colour	Order index	Colour	Order index
Black	Standard .0	Orange	Special colour .2
Silver-grey	Special colour .31	Yellow	Special colour .4
White	Special colour .1	Light grey	Special colour .14
Grey-white	Special colour .1S		

Black e-chains® available from stock.

Above special colours upon request.



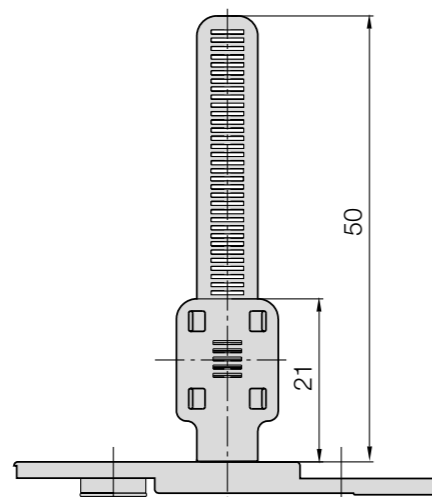
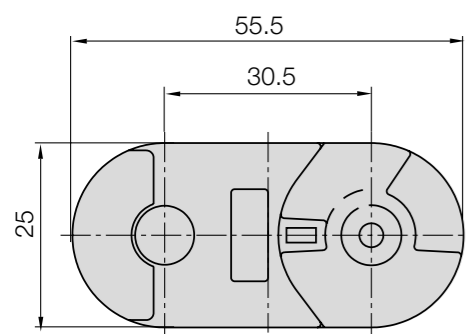
Version TE | Series TE14 | Loops open along the outer radius
Version TZ | Series TZ14 | Loops open along the inner radius

Part No.	Part No.	R Available bend radii	Weight
Version TE	Version TZ	[mm]	[kg/m]
TE14.50.R.0*	TZ14.50.R.0	028 038 048 075 100 125	≈ 0.15

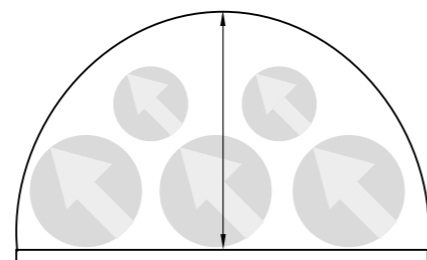
*Also available as **RBR** (Reverse Bend Radius) Part No. **TE14.50.Radius/Radius**

Complete Part No. with required radius (R). Example: **TE14.50.100.0**

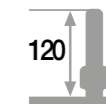
Installation dimensions



Loop length [mm]	50
Pitch [mm/link]	30.5
Links/m	33
corresponds to [mm]	1,006.5
e-chain® length	$L_K = \frac{s}{2} + K$



Cable package max.: 18mm



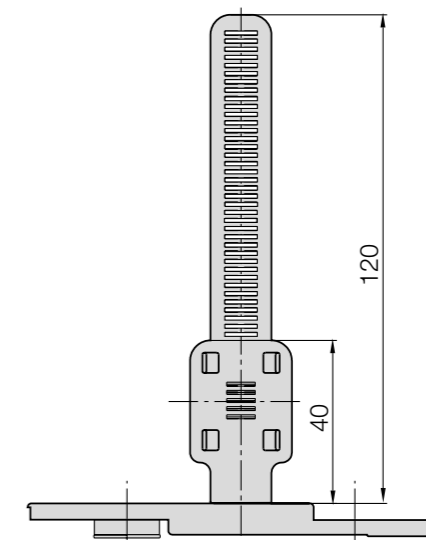
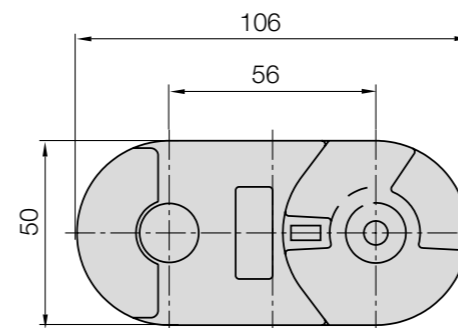
Version TE | Series TE26 | Loops open along the outer radius
Version TZ | Series TZ26 | Loops open along the inner radius

Part No.	Part No.	R Available bend radii	Weight
Version TE	Version TZ	[mm]	[kg/m]
TE26.120.R.0*	TZ26.120.R.0	063 075 100 125 150 200	≈ 0.43

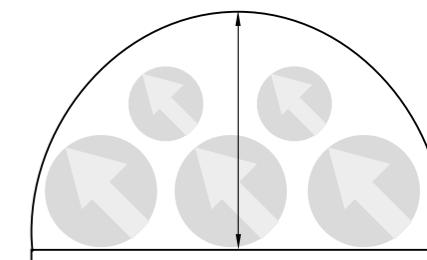
*Also available as **RBR** (Reverse Bend Radius) Part No. **TE26.120.Radius/Radius**

Complete Part No. with required radius (R). Example: **TE26.120.100.0**

Installation dimensions



Loop length [mm]	120
Pitch [mm/link]	56
Links/m	18
corresponds to [mm]	1,008
e-chain® length	$L_K = \frac{s}{2} + K$



Cable package max.: 47mm

office e-chain®

Energy supply for offices and furniture



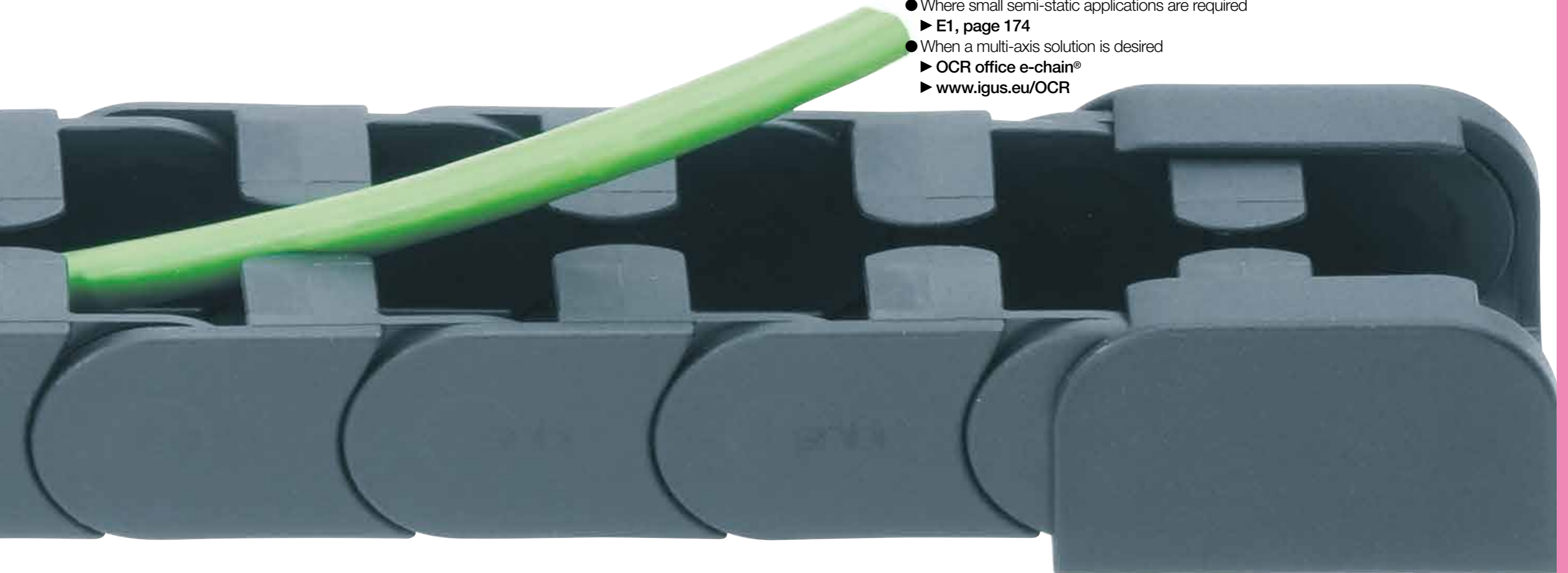
Advantages of the office e-chain® series:

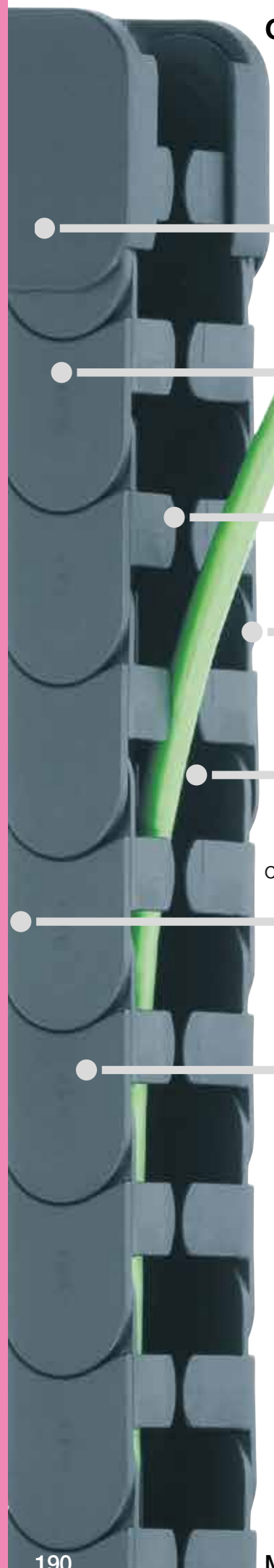
- Aesthetic design
- Closed outer contours (half-tube)
- Easy to fill, even when installed
- Cable-friendly due to smooth interior
- UL94-V2 certified e-chain®
- Mounting brackets can be either screwed or bonded thanks to the large flat surface on the bottom



When to use another e-chain® series:

- When an unsupported application is required
 - ▶ **easy chain®**, page 198
- Where small semi-static applications are required
 - ▶ **E1**, page 174
- When a multi-axis solution is desired
 - ▶ **OCR office e-chain®**
 - ▶ www.igus.eu/OCR





Mounting brackets: the e-chain® is easily clipped on

Stylishly simple: designed and developed especially for the furniture industry

Save time: simply press cables in, with "easy" design

Flammability class: UL94-V2

Abrasion-optimised: cable-friendly due to smooth interior

Protected: closed on the outside for cable protection and concealment

Colours: different colours available upon request

Energy supply for offices and furniture - office e-chain®

Cables fitted quickly, e-chain® attached quickly, attractive design, nice and tidy. This e-chain® was designed and developed especially for the furniture industry.

- Aesthetic design
- Closed outer contours (half-tube)
- Mounting brackets easy to clip on
- Easy to fill, even when installed with "easy" design
- Cable-friendly due to smooth interior
- UL94-V2 certified
- Mounting brackets can be either screwed or bonded thanks to the large flat surface on the bottom

Typical industries and applications

- Electrically adjustable furniture
- Miscellaneous applications without highly dynamic movements



UL94-V2 classification

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]	Bend radius <i>R</i> [mm]	Page
ZF14	21	38	46.6	25	028	194



office e-chain®
"easy" design - split crossbar along the inner radius



Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

New: OCR office e-chain® - tidy loose cables quickly and easily

- Movable in all axes, round and square versions
- Simply press in or pull out cables with "easy" design
- Mounting brackets with magnets for easy attachment in seconds
- Flexible fitting



Upon request, more information

► www.igus.eu/OCR




reddot design award
winner 2018

Technical data

	e-chain® material - permitted temperature °C, igumid NB	-40°C / +80°C
	Mounting bracket material - permitted temperature °C, igumid G	-40°C / +120°C
	Flammability class, igumid NB	VDE 0304 IIC UL94-HB
	Flammability class, igumid G	VDE 0304 IIC UL94-V2

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

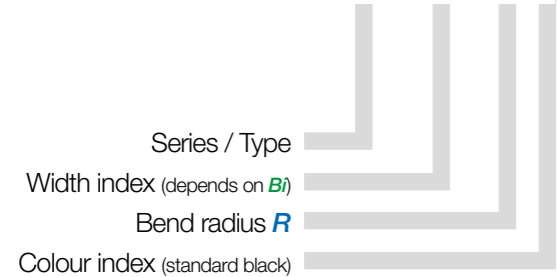
Order example | Order key and colour options

 **Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:**








e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 33 links	ZF14.038.028.0
Order text:	1 m ZF14.038.028.0	

 Order key

Split crossbar along the outer radius **ZF14.038.028.0**



Order index for colour options

Colour	Order index	Colour	Order index
 Black	Standard	 Orange	Special colour .2
 Silver-grey	Special colour .31	 Yellow	Special colour .4
 White	Special colour .1	 Light grey	Special colour .14
 Grey-white	Special colour .1S		

Black e-chains® available from stock.
Above special colours upon request.



Insert cables quickly and easily with the office e-chain®, the energy supply for offices and furniture

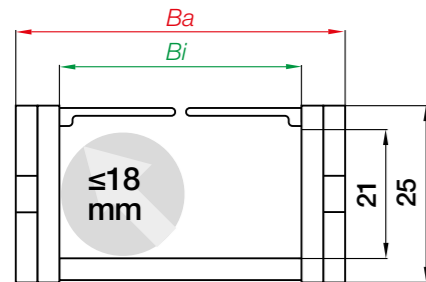


Version ZF14 | "easy" design, split crossbar along the inner radius

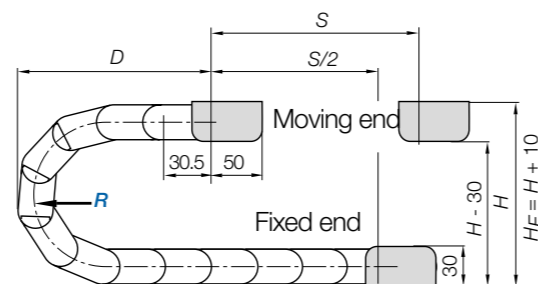
Part No.	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/m]
ZF14.038.R.0	38	46.6	028	≈ 0.297

Complete Part No. with required radius (*R*). Example: ZF14.038.028.0

Installation dimensions

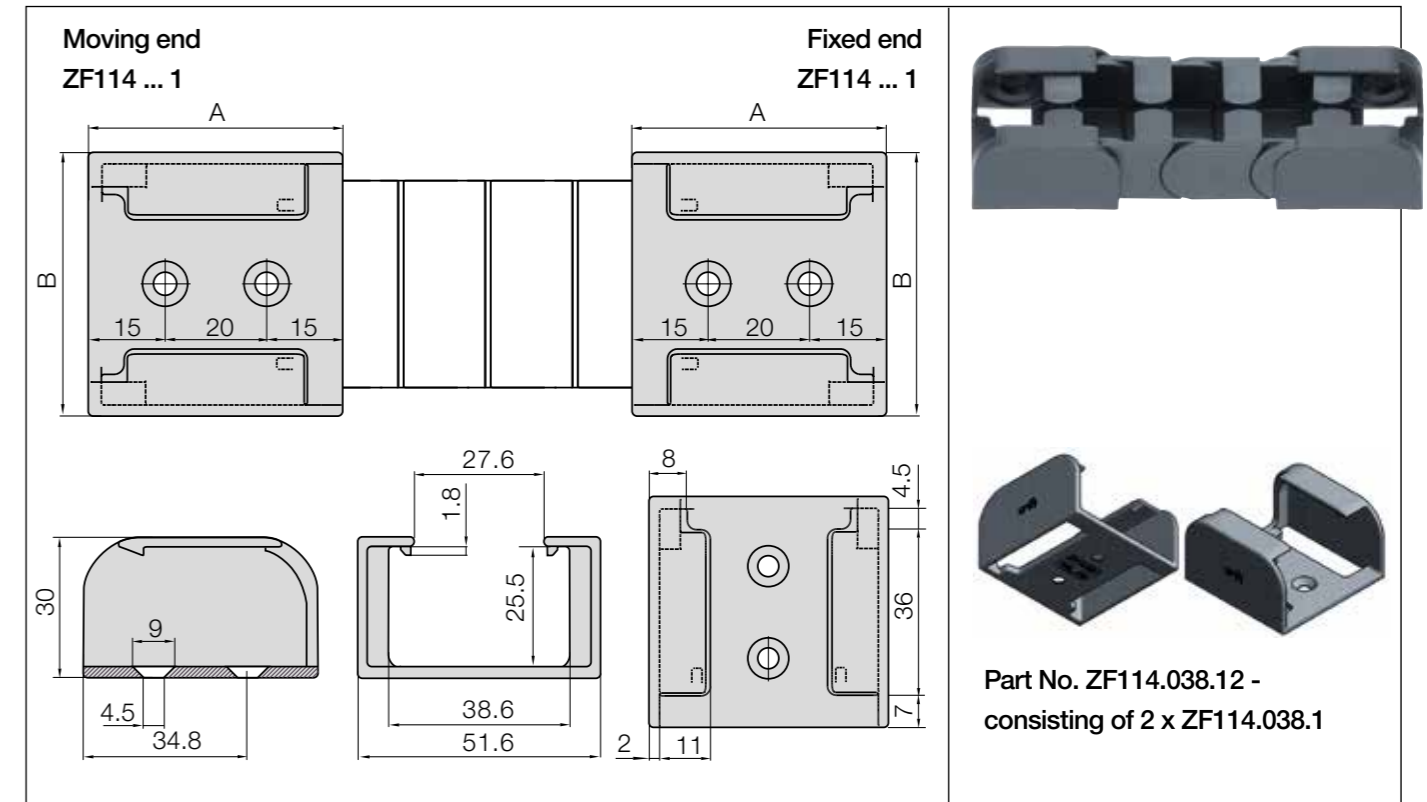


Inner height [mm]	21
Pitch [mm/link]	30.5
Links/m	33
corresponds to [mm]	1,006.5
e-chain® length	$L_K = \frac{S}{2} + K$



<i>R</i>	028
<i>H</i> +5	86
<i>D</i>	116.5
<i>K</i>	211

The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

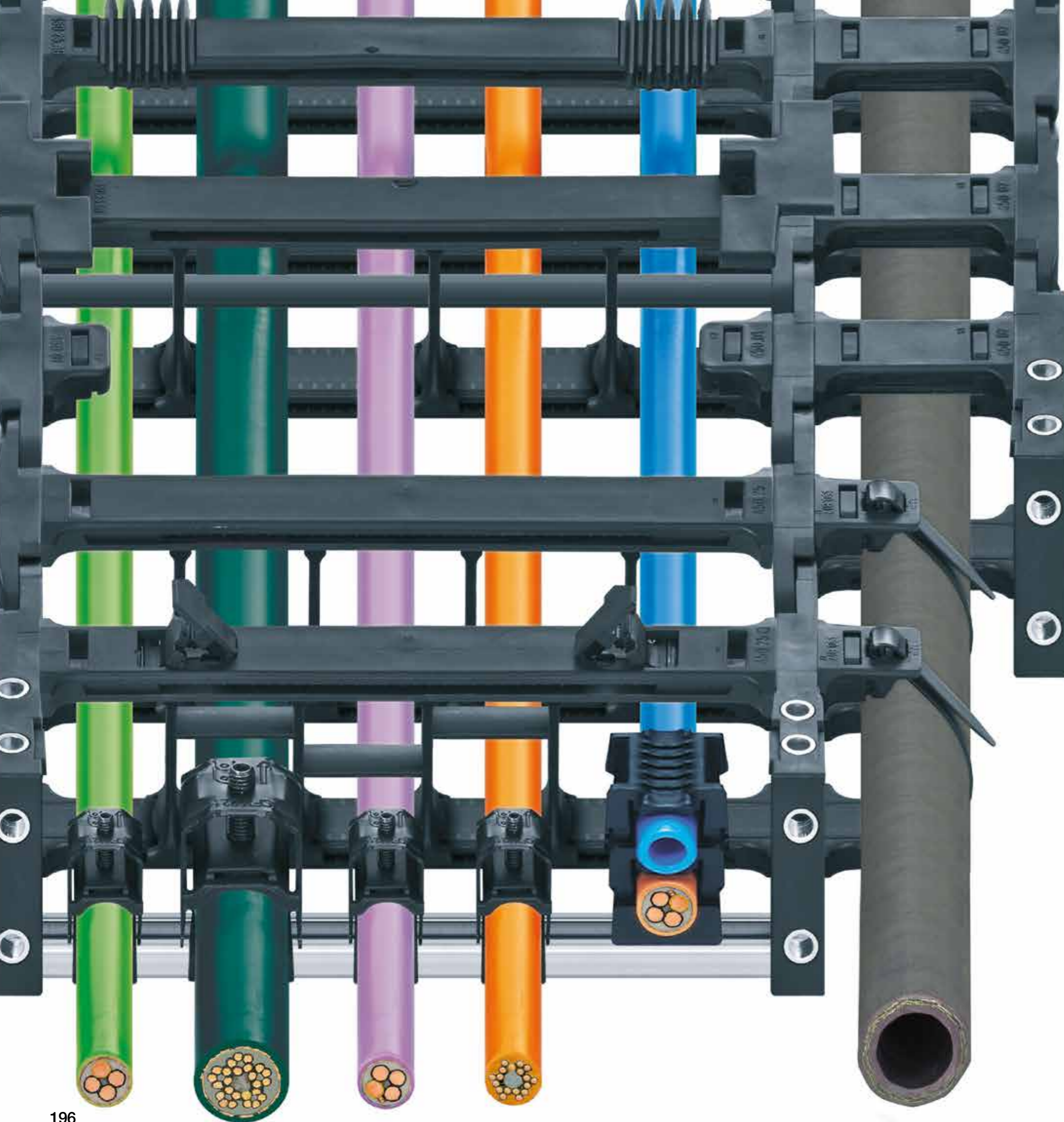


Width index	Part No. full set	A [mm]	B [mm]
038	ZF114.038.12	51.6	50

Suitable mounting bracket for moving and fixed ends



Mounting brackets for easy fitting to furniture. Can be easily detached and re-attached.



igus[®] e-chain- systems[®]

- Quick and easy filling
- All-rounders - small, medium - e-chains[®] and e-tubes
- e-tubes - protection against dirt and swarf
- Universal modular kit, e-chains[®] and e-tubes for any application
- Cleanroom, extremely low noise e-chains[®] and e-tubes
- Hygienic design e-chain[®] with FDA compliance



easy chain[®]

Easy to fill and
cost-effective



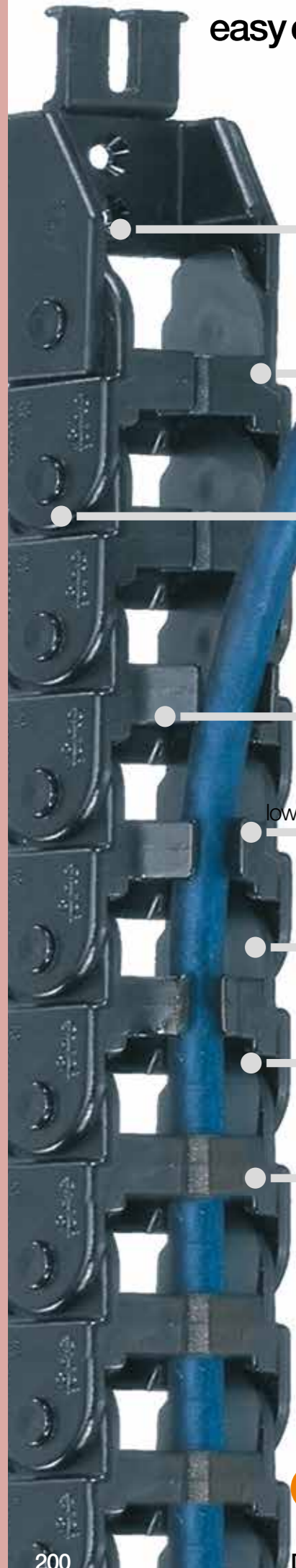
Advantages of the easy chain[®] series:

- Easy filling without opening and closing the lids
- If quiet running is required
- If a light and cost-effective e-chain[®] is required
- For high accelerations



When to use another e-chain[®] series:

- For applications with large unsupported lengths
 - ▶ E2/000, page 360
- When secure closing of the crossbars is required
 - ▶ E2/000, page 360
- When openable crossbars are not necessary
 - ▶ E2 micro, page 260
- Version Z is not suitable for gliding applications
 - ▶ zipper, page 226



Universal connection:
mounting bracket with
integrated strain relief

Quick assembly:
"easy" design - simply press
cables in without opening
and closing crossbars

Flexible:
easy to lengthen and
shorten at any point

Keep order:
interior separation possible
with moulded chamber
design (some types)

Cost-effective:
low price with one-piece design

Cleanroom:
suitable for cleanroom
applications

Flexible:
torsional motion possible

Flammability class:
UL94-V2

Easy to fill and cost-effective - easy chain®

Cost-effective, easy to fill e-chains® are available in two versions. In the "E" version the cable is simply installed from the outside, and in the "Z" version from the inside. The primary reason to choose easy chains® is to save time when fitting cables. The material, igumid NB, presents more application opportunities due to its flexibility, UL94-V2 classification and excellent cleanroom qualities. The one-piece design keeps the easy chain® very cost-effective.

Typical industries and applications

- Cleanroom applications
- Electronics machines
- Office furniture
- Vending machines
- Packaging machines
- General machinery, etc.



IPA Qualification Certificate - Report IG 0308-295:
ISO Class 2, according to DIN EN ISO 14644-1
for easy chain® series E14.3.038 at v = 1.0m/s



Electrically conductive ESD e-chains® upon request



With easy chain® rotary and torsional motions are possible



42 dB(A) - value determined at the igus® test-lab, v = 1.0m/s unsupported, series E06.10.038.0



UL94-V2 classification







Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Chamber design	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]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
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




easy chain® - version "E"
"easy" design - split crossbar along the outer radius

1-chamber 	E03	5	5 - 10	8.7 - 13.7	8	010 - 028	0.40	204
	E04	7	7	13	10	015 - 048	0.55	206
	E045	9.4	10 - 16	16 - 23	12.5	018 - 038	0.40	208
	E06	10.7	10 - 20	16.5 - 26.5	15	018 - 038	0.55	210
	E065	11.3	16	24.8	15	018 - 038	0.60	212
	E08	14.6	10 - 50	18.2 - 58.2	19.3	028 - 048	1.00	214
	E14	19	15 - 50	27 - 62	25	028 - 125	0.65	216
	E200	24.3	57	74.4	35	055 - 200	1.75	218
	E16	32	23 - 100	37.5 - 15.3	39	040 - 100	1.00	220
	E26	36.5	75	92	50	063 - 250	2.00	222
E300	48.5	75	95	64	075 - 300	2.25	224	
2-chamber 	E045.2	9.4	7 - 9	23 - 27	12.5	018 - 038	0.40	208
	E065.2	11.3	9	29.3	15	018 - 038	0.60	212
	E200.2	24.3	37 - 50	94.4 - 20.4	35	055 - 200	1.75	218
	E26.2	37.1	48	117	50	063 - 250	2.00	222
	E300.2	48.5	48	120	64	075 - 300	2.25	224
3-chamber 	E045.3	9.4	9	37	12.5	018 - 038	0.40	208
	E065.3	11.3	9	39.3	15	018 - 038	0.60	212
	E26.3	37.1	47	167	50	063 - 250	2.00	222
	E300.3	48.5	47	170	64	075 - 300	2.25	224
4-chamber 	E065.4	11.3	9	49.3	15	018 - 038	0.60	212



easy chain® - version "Z"
"easy" design - split crossbar along the inner radius

1-chamber 	Z045	9.4	16	23	12.5	018 - 038	0.40	208	
	Z06	10.5	10 - 20	16.5 - 26.5	15	018 - 038	0.55	210	
	Z08	14.6	10 - 50	18.2 - 58.2	19.3	028 - 048	1.00	214	
	Z14	19	15 - 50	27 - 62	25	028 - 125	0.65	216	
	Z200	24.3	57	74.4	35	055 - 200	1.75	218	
	Z16	32	23 - 100	37.5 - 15.3	39	040 - 100	1.00	220	
	Z26	36.5	75	92	50	063 - 250	2.00	222	
	Z300	48.5	75	95	64	075 - 300	2.25	224	
	2-chamber 	Z045.2	9.4	16	23	12.5	018 - 038	0.40	208
		Z200.2	24.3	37 - 50	94.4 - 20.4	35	055 - 200	1.75	218
Z26.2		37.1	48	117	50	063 - 250	2.00	222	
Z300.2		48.5	48	120	64	075 - 300	2.25	224	
3-chamber 		Z045.3	9.4	9	37	12.5	018 - 038	0.40	208
	Z065.3	11.3	9	39.3	15	018 - 038	0.60	212	
	Z26.3	37.1	47	167	50	063 - 250	2.00	222	
	Z300.3	48.5	47	170	64	075 - 300	2.25	224	

Technical data

	Speed gliding / acceleration gliding	≤ 3 [m/s] / ≤ 10 [m/s ²]
	Speed FL_G / acceleration FL_G	≤ 20 [m/s] / ≤ 200 [m/s ²]
	Speed FL_B / acceleration FL_B	≤ 3 [m/s] / ≤ 6 [m/s ²]
	e-chain® material - permitted temperature °C, igumid NB	-40°C / +80°C
	Mounting bracket* material - permitted temperature °C, igumid G	-40°C / +120°C
	Flammability class, igumid NB	VDE 0304 IIC UL94-V2
	Flammability class, igumid G	VDE 0304 IIC UL94-HB

■ **FL_G** = unsupported with straight upper run ■ **FL_B** = unsupported with permitted sag *Available in igumid NB. Delivery time upon request.

Installation types, maximum travels

Series	Unsupported	Vertical hanging	Vertical standing	Side mounted unsupported	Rotary	Zig-zag
E03	≤ 0.80m	upon request	upon request	upon request	with rework	upon request
E04	≤ 1.10m	upon request	upon request	upon request	with rework	upon request
E045/Z045	≤ 0.80m	upon request	upon request	upon request	with rework	upon request
E06/Z06	≤ 1.10m	upon request	upon request	upon request	with rework	upon request
E065/Z065	≤ 1.20m	upon request	upon request	upon request	with rework	upon request
E08/Z08	≤ 2.00m	upon request	upon request	upon request	with rework	upon request
E14/Z14	≤ 1.30m	upon request	upon request	upon request	with rework	upon request
E200/Z200	≤ 3.50m	≤ 10m	≤ 1.5m	≤ 0.5m	with rework	upon request
E16/Z16	≤ 4.00m	≤ 10m	≤ 1.5m	≤ 0.5m	with rework	upon request
E26/Z26	≤ 4.00m	≤ 10m	≤ 1.5m	≤ 0.5m	with rework	upon request
E300/Z300	≤ 4.50m	≤ 10m	≤ 1.5m	≤ 0.5m	with rework	upon request

Options with order keys | Examples based on series E200

	Standard	NC version - (No Camber) without pretension	Reverse Bend Radius (RBR) for circular movements	ESD - electrically conductive material
	Part No. Standard	Part No. NC-Version	Part No. RBR	Part No. igumid ESD
	E200.05.R.0	E200.05.R.0.NC	E200.05.R1/R2.0	E200.05.R.0.ESD
	Ready to ship* in 24 - 48 hrs.	Delivery time* 2-5 business days	Delivery time* several series from stock	Delivery time* 10 business days

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Order example | Order key and colour examples | Examples based on series E200

	Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:		
e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 22 links	E200.05.100.0	
+ Mounting brackets	1 set (with tiwrap plates)	2050.34PZB	
Order text:	1 m E200.05.100.0 + 2050.34PZB		

	Order key	Order index for colour options	
"E" - split crossbar along outer radius	E200.05.100.0	Colour	Order index
"Z" - split crossbar along the inner radius	Z200.05.100.0	Black	Standard .0
		Orange	Special colour .2
		Silver-grey	Special colour .31
		White	Special colour .1
		Grey-white	Special colour .1S
		Yellow	Special colour .4
		Light grey	Special colour .14
Version "E" or "Z"		Black e-chains® available from stock. Above special colours upon request.	
Series / Type			
Width index (depends on B)			
Bend radius R			
Colour index (standard black)			



Version E | Series E03 | "easy" design, split crossbar along the outer radius

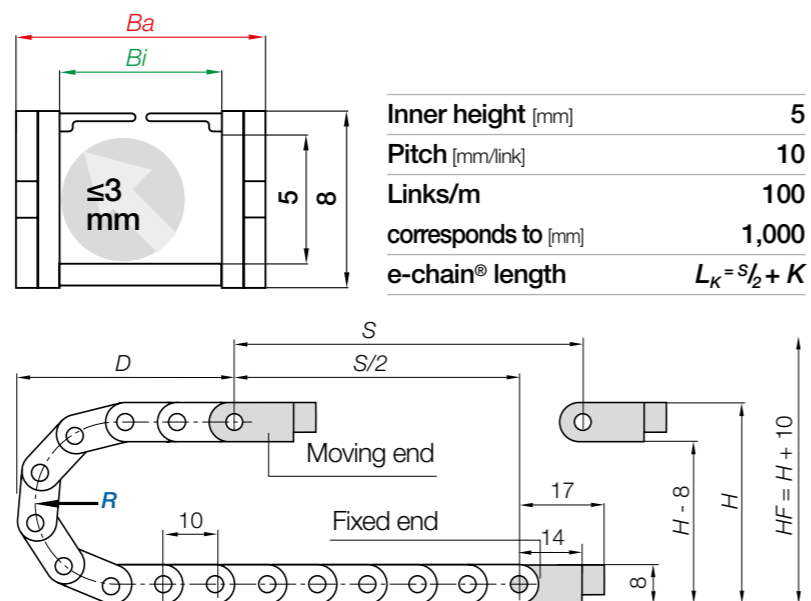
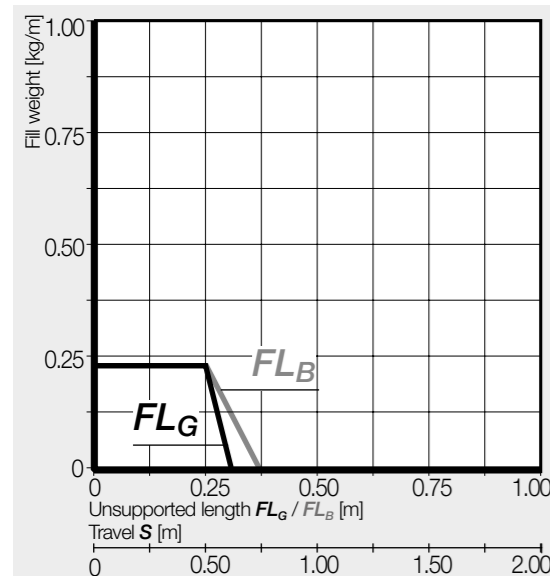
Part No.	Bi	Ba	R Available bend radii	Weight
Version E	[mm]	[mm]	[mm]	[kg/m]
E03.05.R.0 ¹⁾	5	8.7	010 012 015 018 028	≈ 0.03
E03.07.R.0 ²⁾	7	10.7	010 012 015 018 028	≈ 0.04
E03.10.R.0 ²⁾	10	13.7	010 012 015 018 028	≈ 0.05

1) Crossbars do not overlap. Gap = 1mm / 2) Crossbars do not overlap. Gap = 2mm

Ba: pin dimension approx. 0.1 - 0.3mm wider.

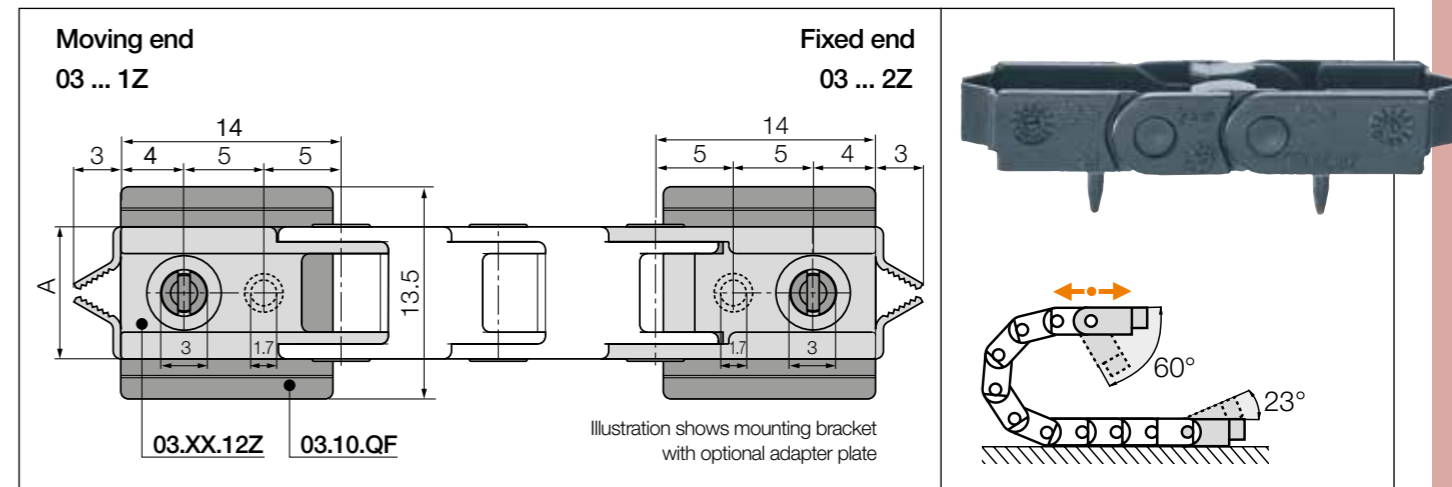
Complete Part No. with required radius (R). Example: E03.05.028.0

Installation dimensions



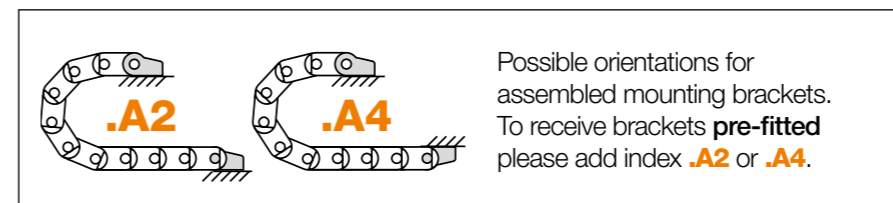
R	010	012	015	018	028
H	28	32	38	44	64
D	29	31	34	37	47
K	55	60	70	80	110

The required clearance height: $H_F = H + 10\text{mm}$ (with 0.1kg/m fill weight)

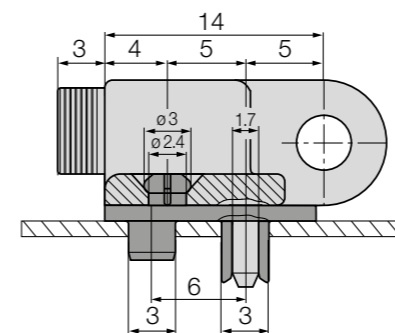


Width index	Part No. full set	A
		[mm]
05.	03.05.12Z	8.4
07.	03.07.12Z	10.4
10.	03.10.12Z	13.4

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



03.05.12Z.A2 Order example
 .A... to indicate option with brackets pre-fitted
 Full set
 Series



Adapter plate for rapid installation for all sizes, Part No. 03.10.QF

The adapter has scored lines so that it can be adapted to the respective e-chain® width. The adapter plate is not always necessary when attaching the mounting brackets as they can also be screwed on without the adapter plate.



Optional adapter plate



Version E | Series E04 | "easy" design, split crossbar along the outer radius

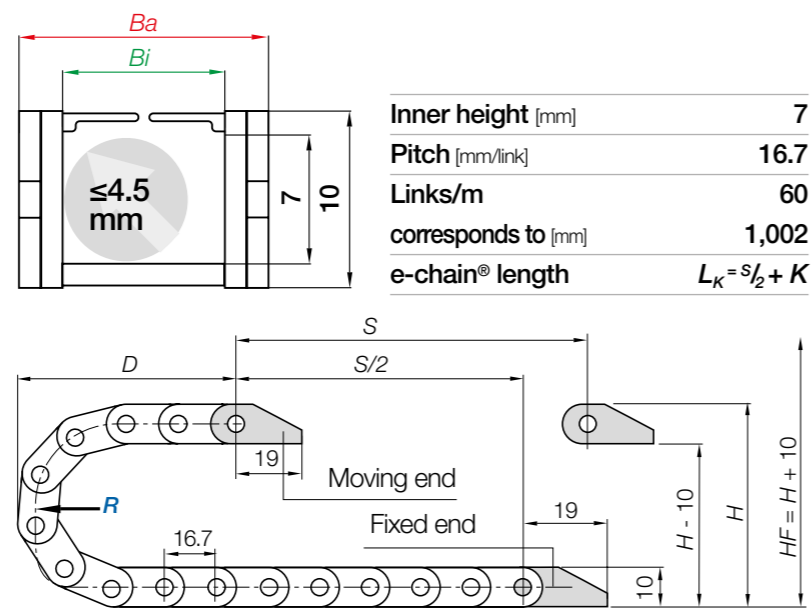
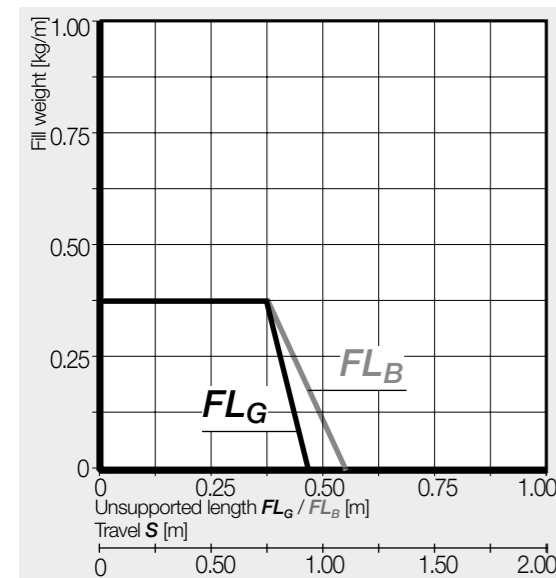
Part No.	Bi	Ba	R Available bend radii	Weight
Version E	[mm]	[mm]	[mm]	[kg/m]
E04.07.R.0 ¹⁾	7	13	015 018 028 038 048	≈ 0.08

1) Crossbars do not overlap. Gap = 2.5mm Special solution with opening gap 0.8mm: Part No. E04.07.015.0.S

Ba: pin dimension approx. 0.1 - 0.3mm wider.

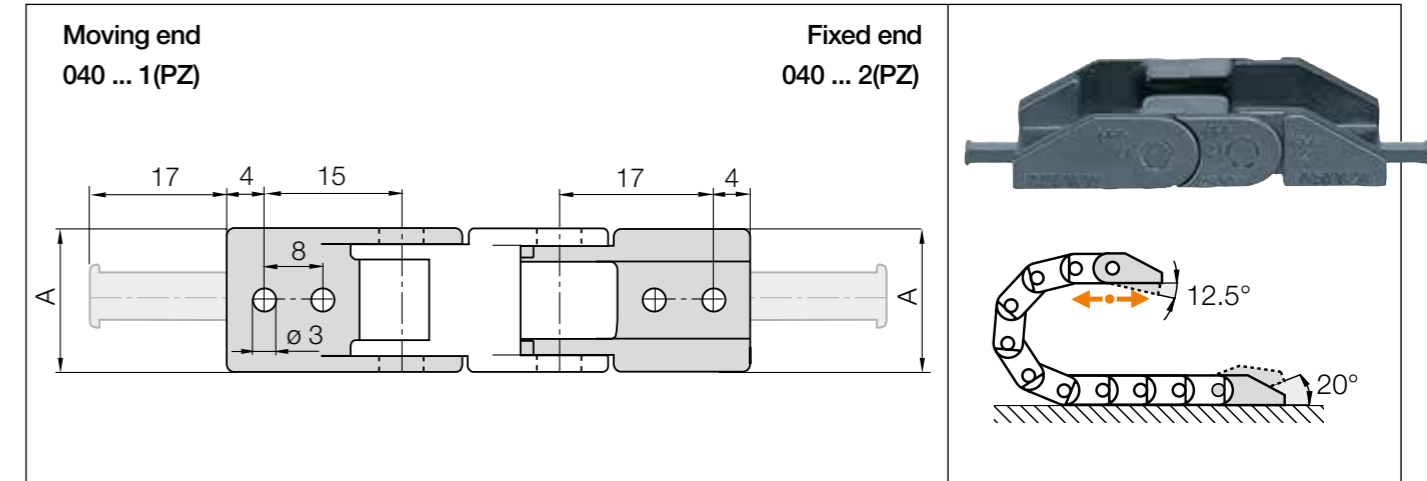
Complete Part No. with required radius (R). Example: E04.07.028.0

Installation dimensions



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: $H_F = H + 10\text{mm}$ (with 0.1kg/m fill weight)



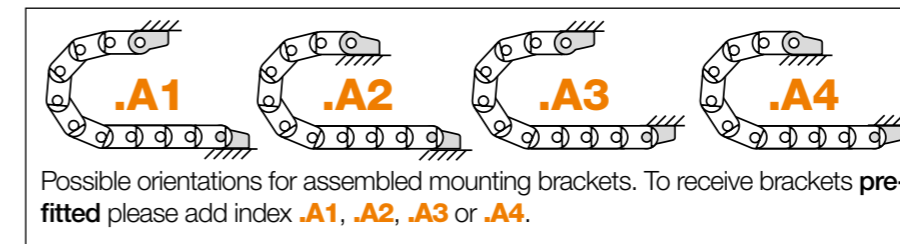
Width index	Part No. full set with tiewrap plates*	Part No. full set without tiewrap plates	A [mm]	Number of teeth
.07. ►	040.07.12PZ	040.07.12	12	1

*040.07.12PZ only installation versions A2 and A4

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

Mounting bracket with strain relief tiewrap plate has reductions of ø 3mm

Mounting bracket without strain relief tiewrap plate only has holes of ø 3mm



040.07.12PZ.A2 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Small pitch, smooth running, simply press cables in



Version E | Series E045 | "easy" design, split crossbar along the outer radius
Version Z | Series Z045 | "easy" design, split crossbar along the inner radius

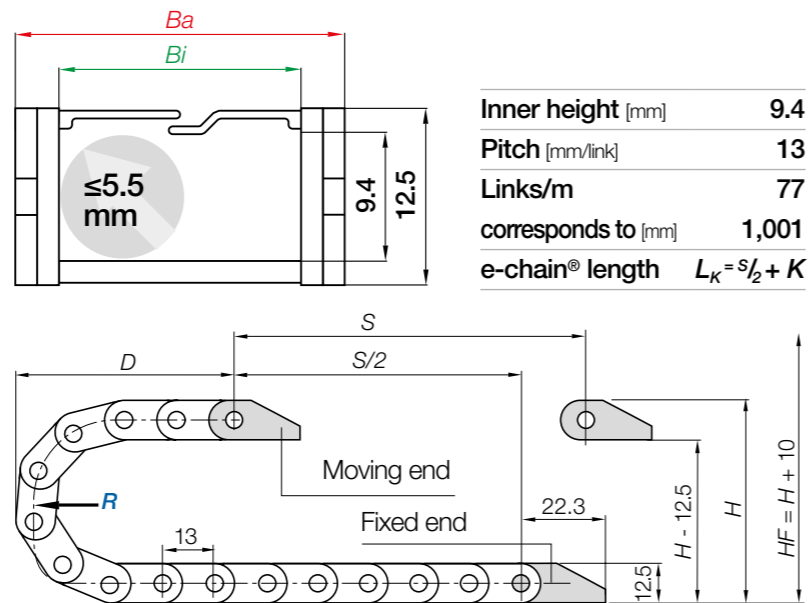
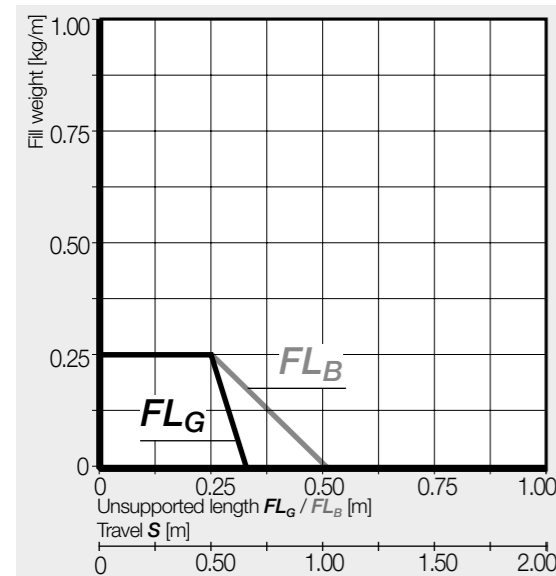
Chamber design	Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
1-chamber	E045.10.R.0 ¹⁾	Z045.10.R.0 ¹⁾ *	10	16	018 028 038	≈ 0.09
	E045.16.R.0	Z045.16.R.0	16	23	018 028 038	≈ 0.11
2-chamber	E045.2/7.R.0 ²⁾	Z045.2/7.R.0 ²⁾	7/7	23	018 028 038	≈ 0.13
	E045.2/9.R.0 ²⁾	Z045.2/9.R.0 ²⁾ *	9/9	27	018 028 038	≈ 0.14
3-chamber	E045.3/9.R.0 ³⁾	Z045.3/9.R.0 ³⁾ *	9/9/9	37	018 028 038	≈ 0.17

¹⁾ Crossbars do not overlap. Gap = 2mm
²⁾ Crossbars do not overlap. Gap = 2.25mm
³⁾ Crossbars do not overlap. Gap = 2.25mm

Ba: pin dimension approx. 0.5 - 1.0mm wider. *Width available upon request. Please consult igus® for delivery time.

Complete Part No. with required radius (R). Example: E045.16.038.0

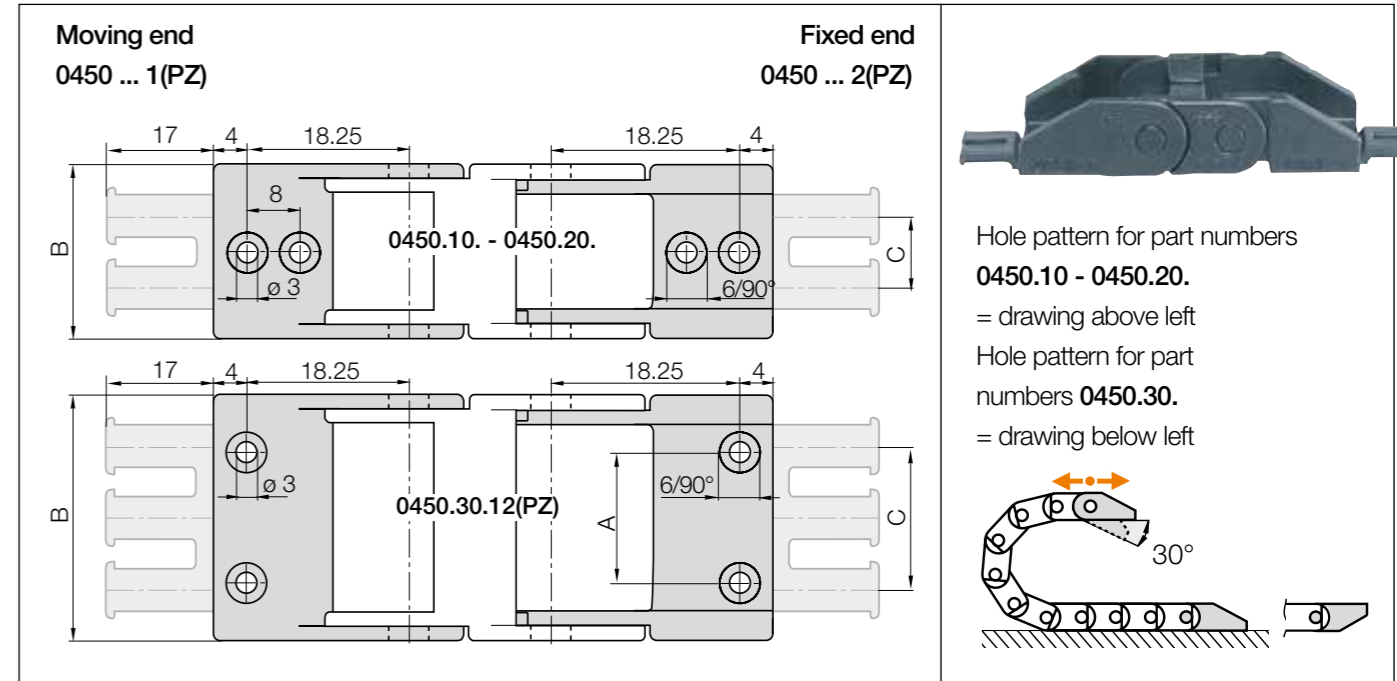
Installation dimensions



R	018	028	038
H	48.5	68.5	88.5
D	44	54	64
K	85	115	150

The required clearance height: $H_F = H + 10\text{mm}$ (with 0.1kg/m fill weight)

Mounting brackets, polymer one-piece | Pivoting

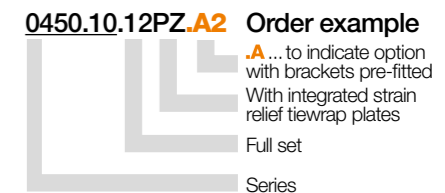
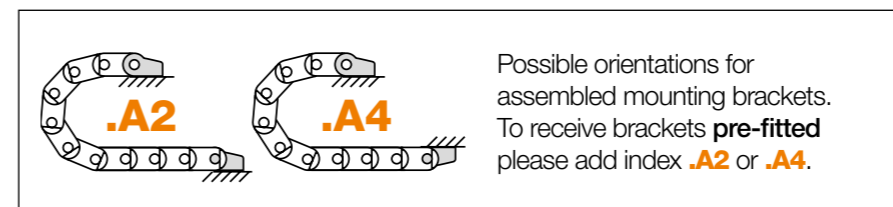


Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	C [mm]	Number of teeth
10.	0450.10.12PZ	0450.10.12	-	16	-	1
16.	0450.16.12PZ	0450.16.12	-	22	10	2
2/7.	0450.16.12PZ	0450.16.12	-	22	10	2
2/9.	0450.20.12PZ	0450.20.12	-	26	10	2
3/9.	0450.30.12PZ	0450.30.12	22	36	20	3

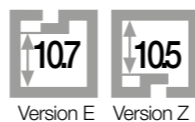
Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB

Mounting bracket with strain relief tiewrap plate has reductions of ø 3mm / ø 6mm 90°

Mounting bracket without strain relief tiewrap plate only has holes of ø 3mm



Low weight, simply press cables in



Version E | Series E06 | "easy" design, split crossbar along the outer radius
Version Z | Series Z06 | "easy" design, split crossbar along the inner radius

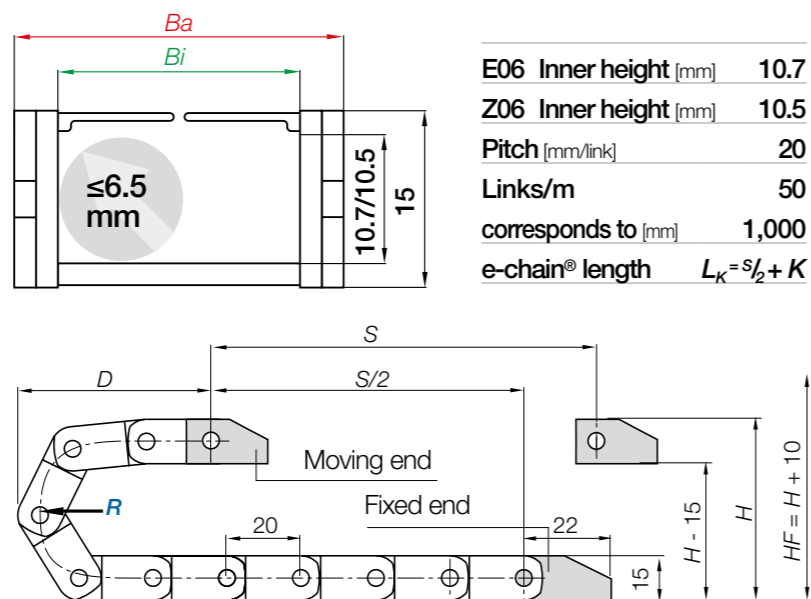
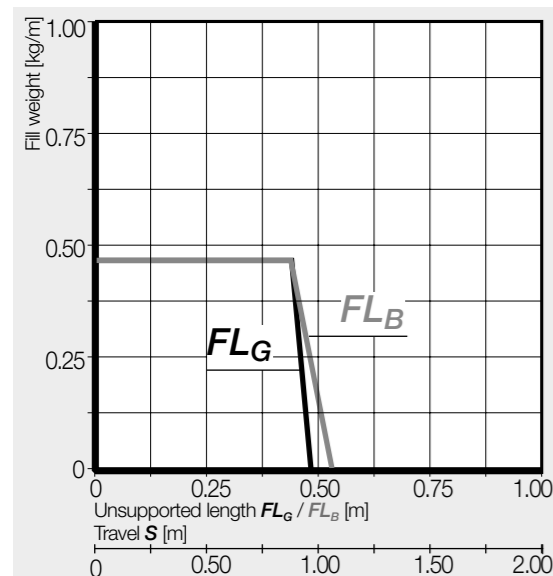
Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
E06.10.R.0 ¹⁾	Z06.10.R.0 ¹⁾	10	16.5	018 028 038	≈ 0.14
E06.16.R.0 ¹⁾	Z06.16.R.0 ¹⁾	16	22.5	018 028 038	≈ 0.16
E06.20.R.0	Z06.20.R.0	20	26.5	018 028 038	≈ 0.18

1) Crossbars do not overlap. Gap = 5.5mm Special solution with opening gap 3.5mm: Part No. E06.10.018.0.S3

Ba: pin dimension approx. 1.5 - 2.0mm wider.

Complete Part No. with required radius (R). Example: E06.10.028.0

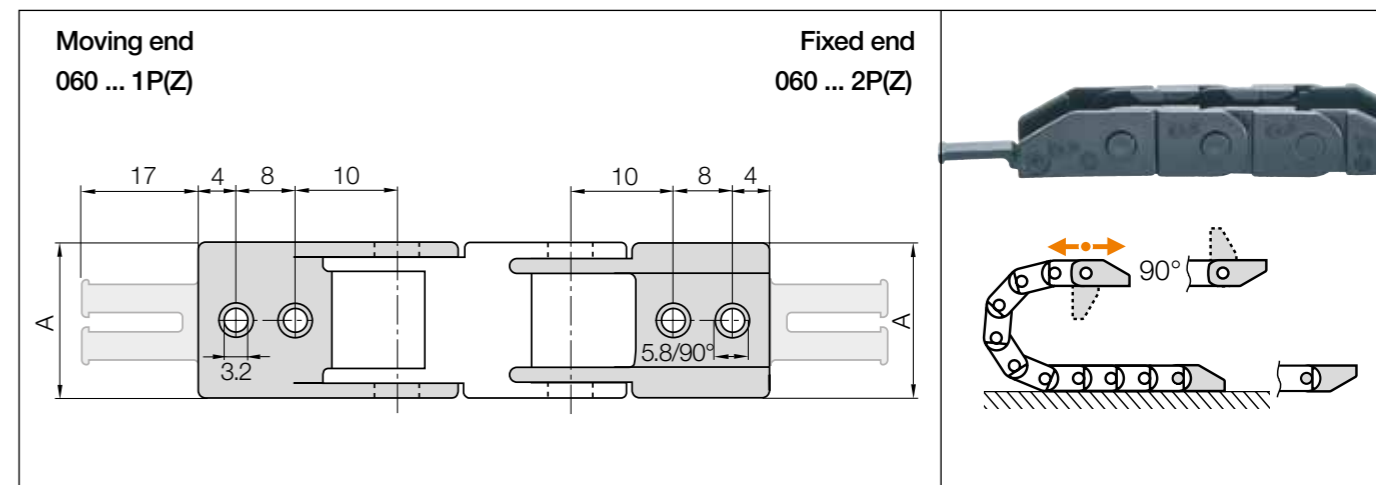
Installation dimensions



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

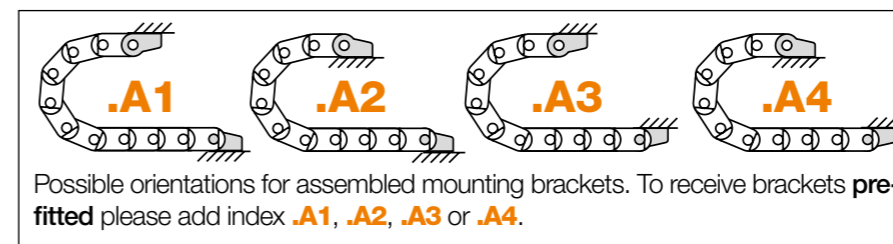
The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

Mounting brackets, polymer one-piece | Locking



Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	Number of teeth
10. ►	060.10.12PZ	060.10.12P	16.5	1
16. ►	060.16.12PZ	060.16.12P	22.5	2
20. ►	060.20.12PZ	060.20.12P	27.0	2

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



060.10.12PZ.A1 Order example
.A... to indicate option with brackets pre-fitted with integrated strain relief tiewrap plates
Full set
Series



Version E | Series E065 | "easy" design, split crossbar along the outer radius
Version Z | Series Z065 | "easy" design, split crossbar along the inner radius

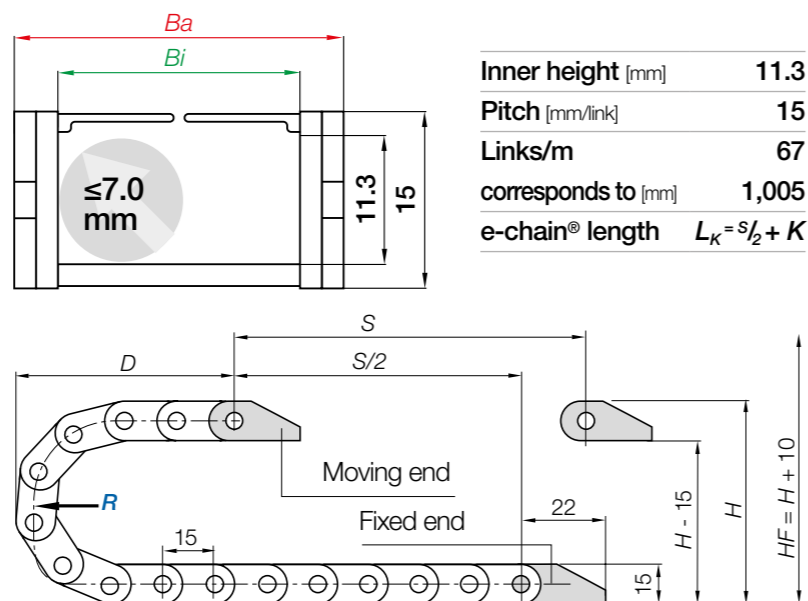
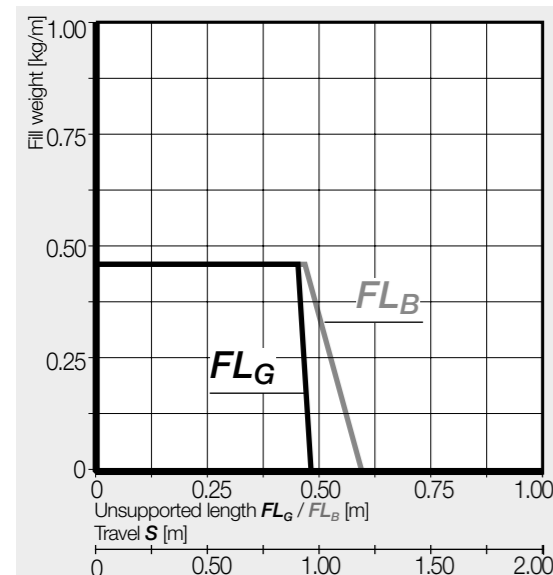
Chamber design	Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R [mm]	Weight [kg/m]
1-chamber	E065.16.R.0 ¹⁾	Z065.16.R.0 ¹⁾ *	16	24.8	018 028 038	≈ 0.17
2-chamber	E065.2/9.R.0 ¹⁾	Z065.2/9.R.0 ¹⁾ *	9/9	29.3	018 028 038	≈ 0.19
3-chamber	E065.3/9.R.0 ¹⁾	Z065.3/9.R.0 ¹⁾	9/9/9	39.3	018 028 038	≈ 0.22
4-chamber	E065.4/9.R.0 ¹⁾	Z065.4/9.R.0 ¹⁾ *	9/9/9/9	49.3	018 028 038	≈ 0.25

¹⁾ Crossbars do not overlap. Gap = 2.5mm

Ba: pin dimension approx. 1.0 - 1.6mm wider. *Width available upon request. Please consult igus® for delivery time.

Complete Part No. with required radius (R). Example: E065.16.038.0

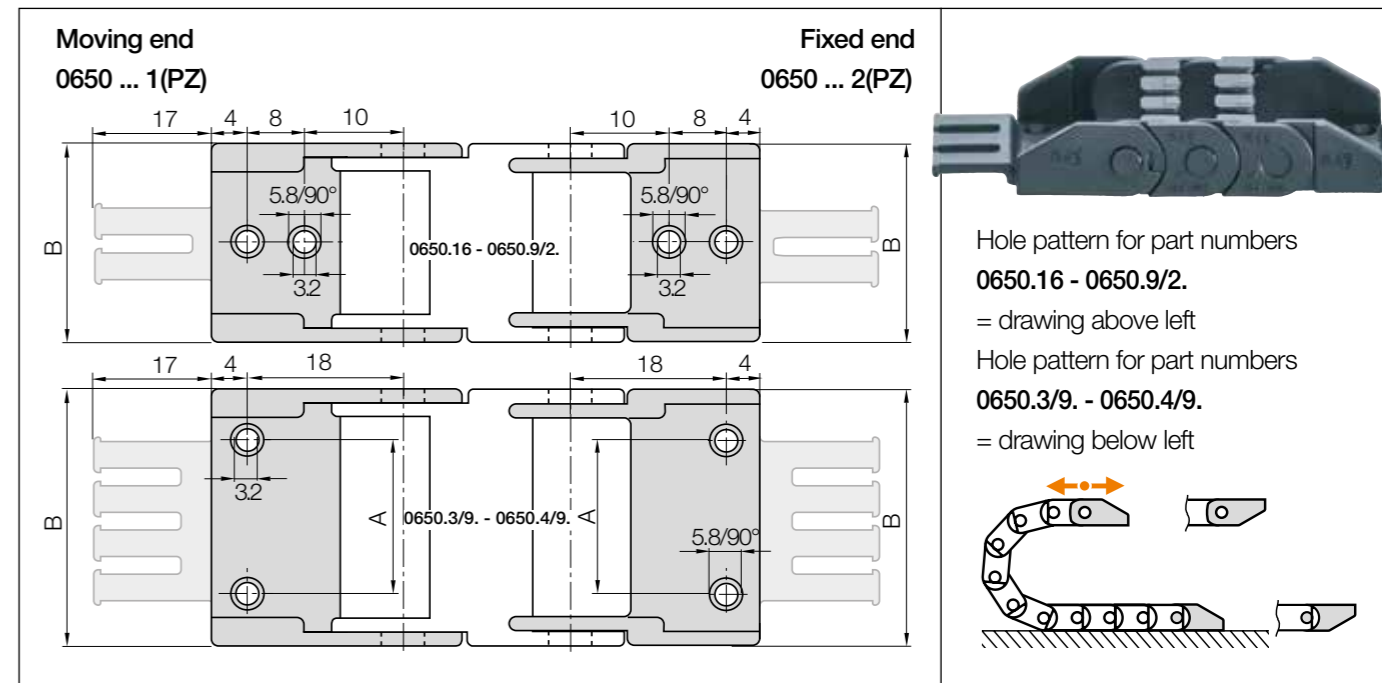
Installation dimensions



R	018	028	038
H	51	71	91
D	48	58	68
K	90	120	150

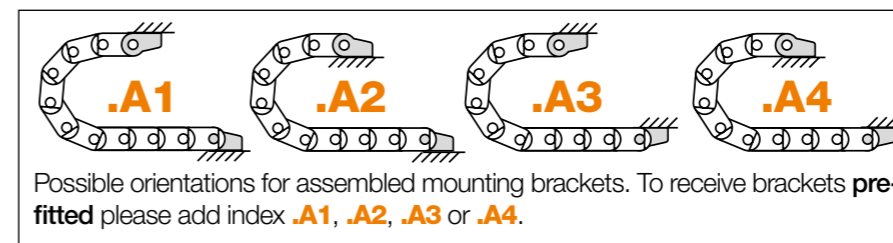
The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

212 More information ► www.igus.eu/E065 ► www.igus.eu/Z065



Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
16.	0650.16.12PZ	0650.16.12	-	22.5	2
2/9.	0650.2/9.12PZ	0650.2/9.12	-	27	2
3/9.	0650.3/9.12PZ	0650.3/9.12	22	37	3
4/9.	0650.4/9.12PZ	0650.4/9.12	32	47	4

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



Possible orientations for assembled mounting brackets. To receive brackets pre-fitted please add index .A1, .A2, .A3 or .A4.

0650.16.12PZ.A2 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series



Version E | Series E08 "easy" design, split crossbar along the outer radius
Version Z | Series Z08 "easy" design, split crossbar along the inner radius

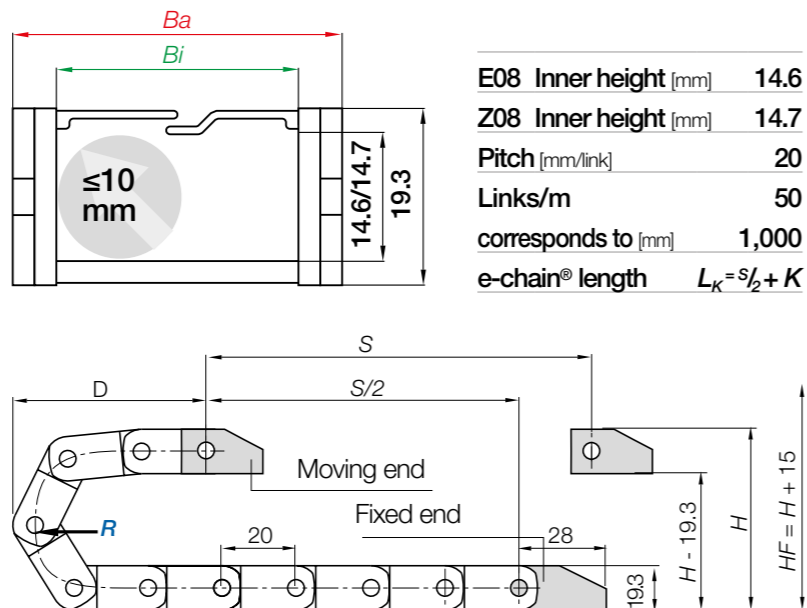
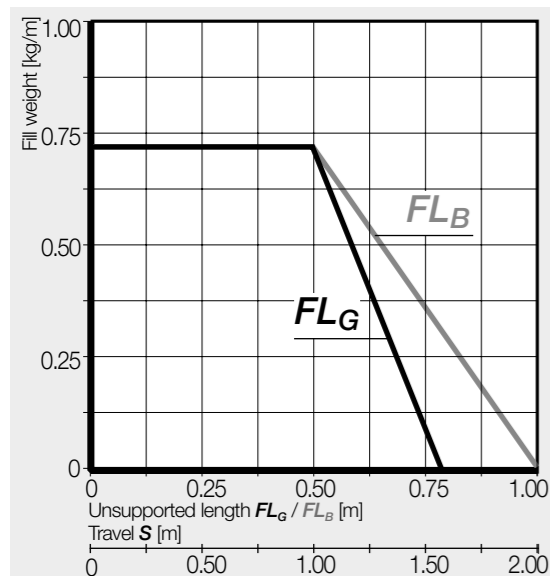
Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
E08.10.R.0 ¹⁾	Z08.10.R.0 ¹⁾	10	18.2	025* 028 038 048	≈ 0.21
E08.16.R.0 ²⁾	Z08.16.R.0 ²⁾	16	24.2	025* 028 038 048	≈ 0.24
E08.20.R.0	Z08.20.R.0	20	28.2	025* 028 038 048	≈ 0.25
E08.30.R.0	Z08.30.R.0	30	38.2	025* 028 038 048	≈ 0.28
E08.40.R.0	Z08.40.R.0	40	48.2	025* 028 038 048	≈ 0.31
E08.50.R.0	Z08.50.R.0	50	58.2	025* 028 038 048	≈ 0.37

1) Crossbars do not overlap. Gap = 5.5mm / 2) Crossbars do not overlap. Gap = 4.0mm

Ba: pin dimension approx. 1.4 - 1.8mm wider. *Radius available upon request. Please consult igus® for delivery time.

Complete Part No. with required radius (R). Example: E08.10.028.0

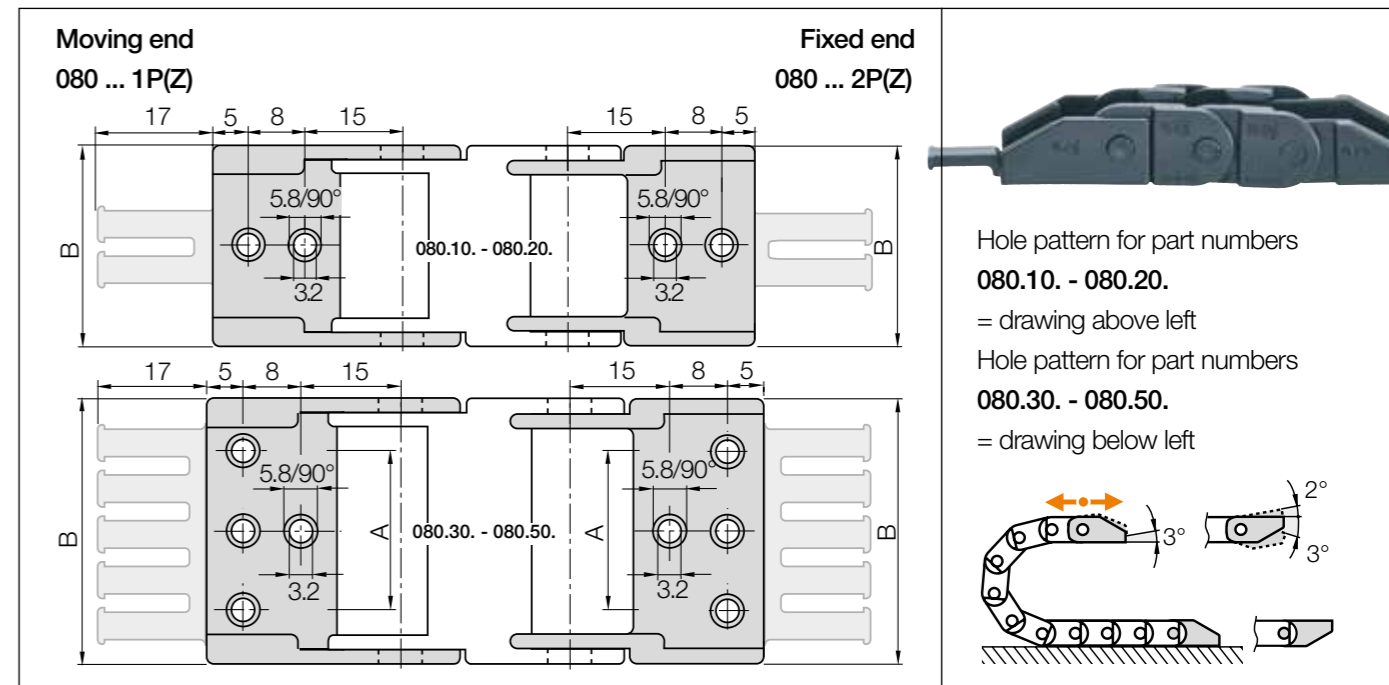
Installation dimensions



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

The required clearance height: $H_F = H + 15\text{mm}$ (with 0.3kg/m fill weight)

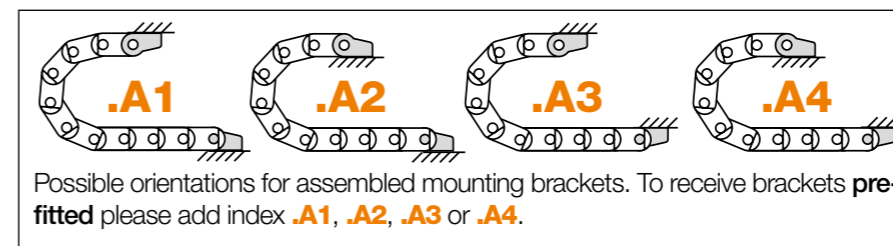
*Radius available upon request. Please consult igus® for delivery time.



Hole pattern for part numbers 080.10. - 080.20. = drawing above left
 Hole pattern for part numbers 080.30. - 080.50. = drawing below left

Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
10.	080.10. 12PZ	080.10. 12P	-	18.2	1
16.	080.16. 12PZ	080.16. 12P	-	24.2	2
20.	080.20. 12PZ	080.20. 12P	-	28.2	2
30.	080.30. 12PZ	080.30. 12P	22	38.2	3
40.	080.40. 12PZ	080.40. 12P	32	48.2	4
50.	080.50. 12PZ	080.50. 12P	42	58.2	5

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



080.10.12PZ.A2 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

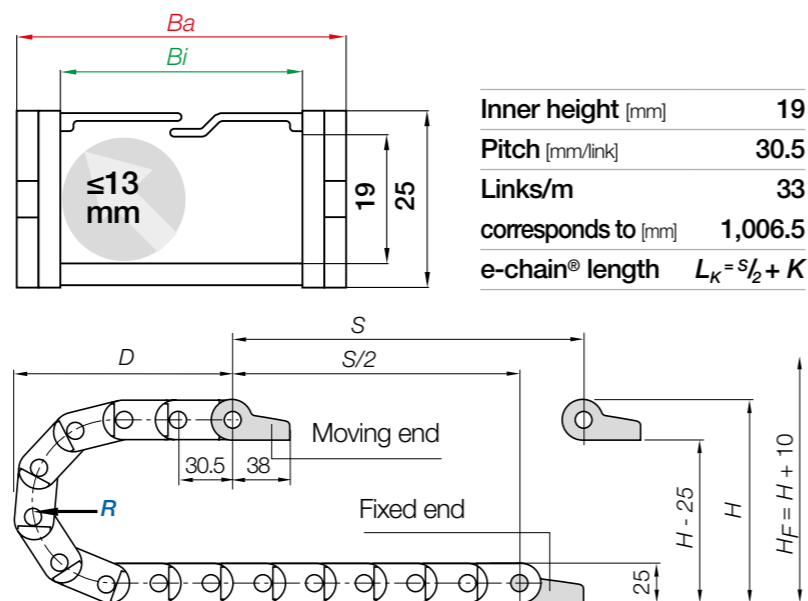
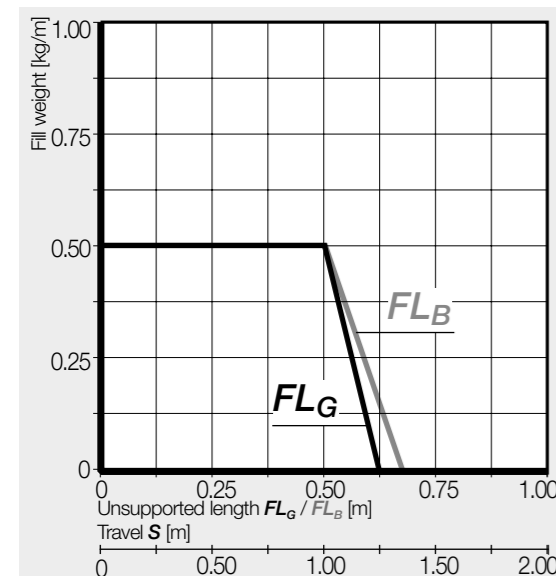


Version E | Series E14 | "easy" design, split crossbar along the outer radius
Version Z | Series Z14 | "easy" design, split crossbar along the inner radius

Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
E14. 1 .R.0	Z14.1 .R.0	15	27	028 038 048 075 100 125	≈ 0.31
E14. 2 .R.0	Z14.2 .R.0	25	37	028 038 048 075 100 125	≈ 0.32
E14. 3 .R.0	Z14.3 .R.0	38	50	028 038 048 075 100 125	≈ 0.40
E14. 4 .R.0	Z14.4 .R.0	50	62	028 038 048 075 100 125	≈ 0.44

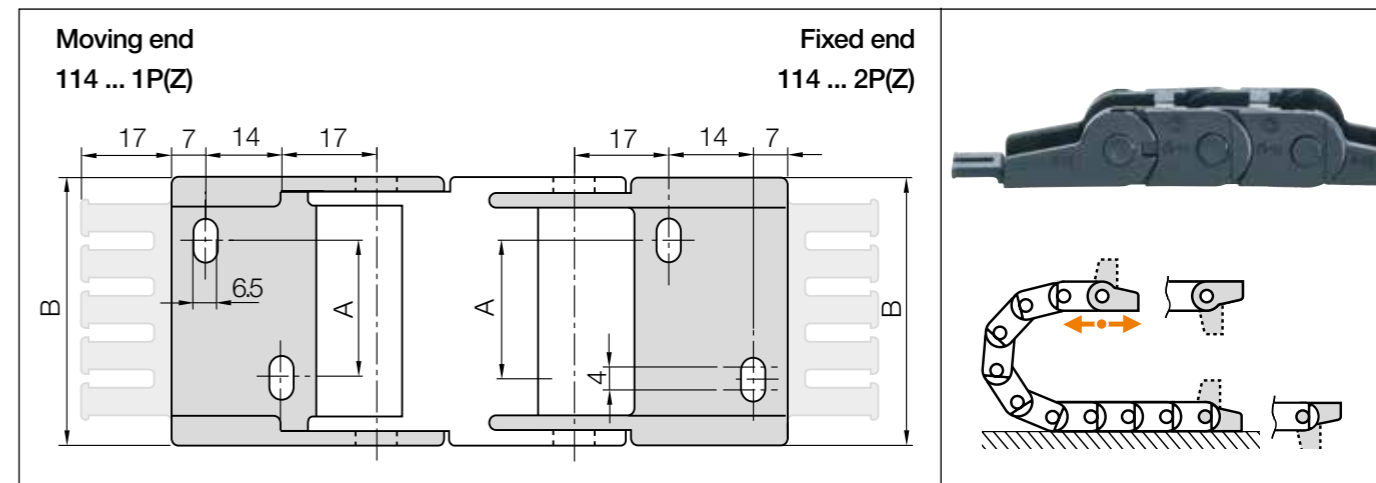
Complete Part No. with required radius (R). Example: E14.1.028.0

Installation dimensions



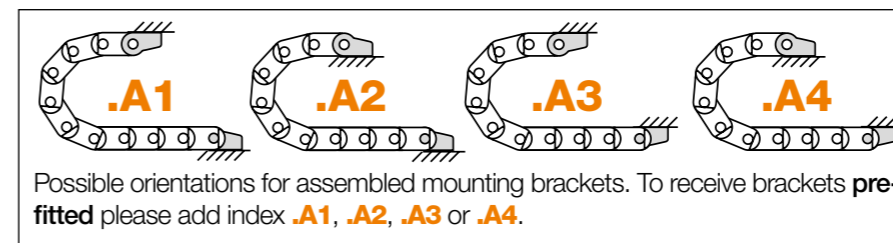
R	028	038	048	075	100	125
H	81	101	121	175	225	275
D	86	96	106	133	158	183
K	150	185	215	300	380	455

The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

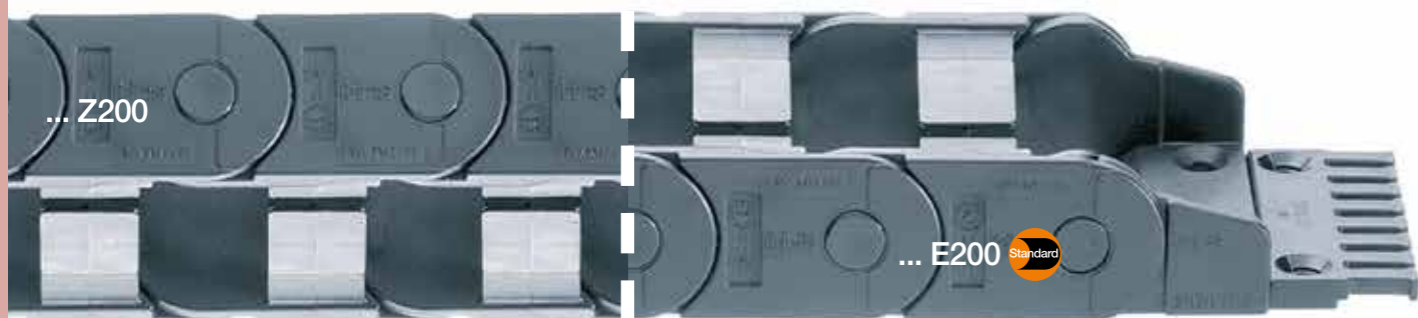


Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
1. ►	114.1.12PZ	114.1.12P	-	26.3	2
2. ►	114.2.12PZ	114.2.12P	10	36.3	3
3. ►	114.3.12PZ	114.3.12P	23	49.3	4
4. ►	114.4.12PZ	114.4.12P	35	61.3	5

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



114.2.12PZ.A1 Order example
.A... to indicate option with brackets pre-fitted with integrated strain relief tiewrap plates
Full set
Series

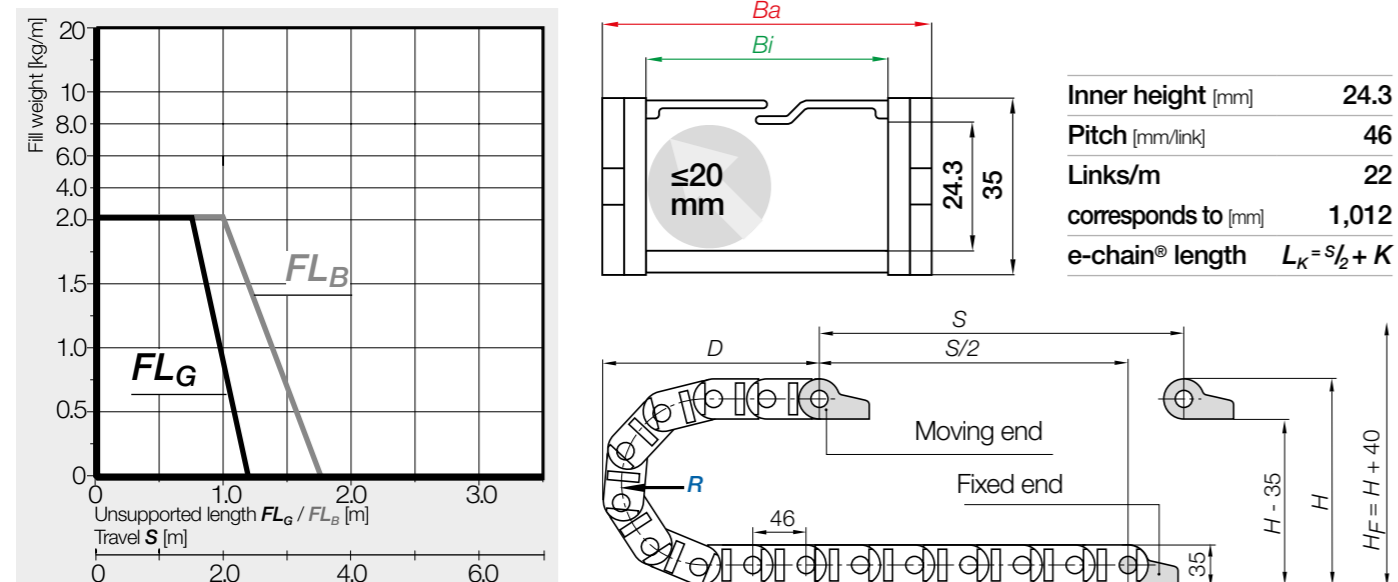


Version E | Series E200 | "easy" design, split crossbar along the outer radius
Version Z | Series Z200 | "easy" design, split crossbar along the inner radius

Chamber design	Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
1-chamber	E200.05.R.0	Z200.05.R.0	57	74.4	055 075 100 150 200	≈ 0.70
2-chamber	E200.2/35.R.0	Z200.2/35.R.0	37/37	94.4	055 075 100 150 200	≈ 0.79
	E200.2/50.R.0	Z200.2/50.R.0	50/50	120.4	055 075 100 150 200	≈ 0.82

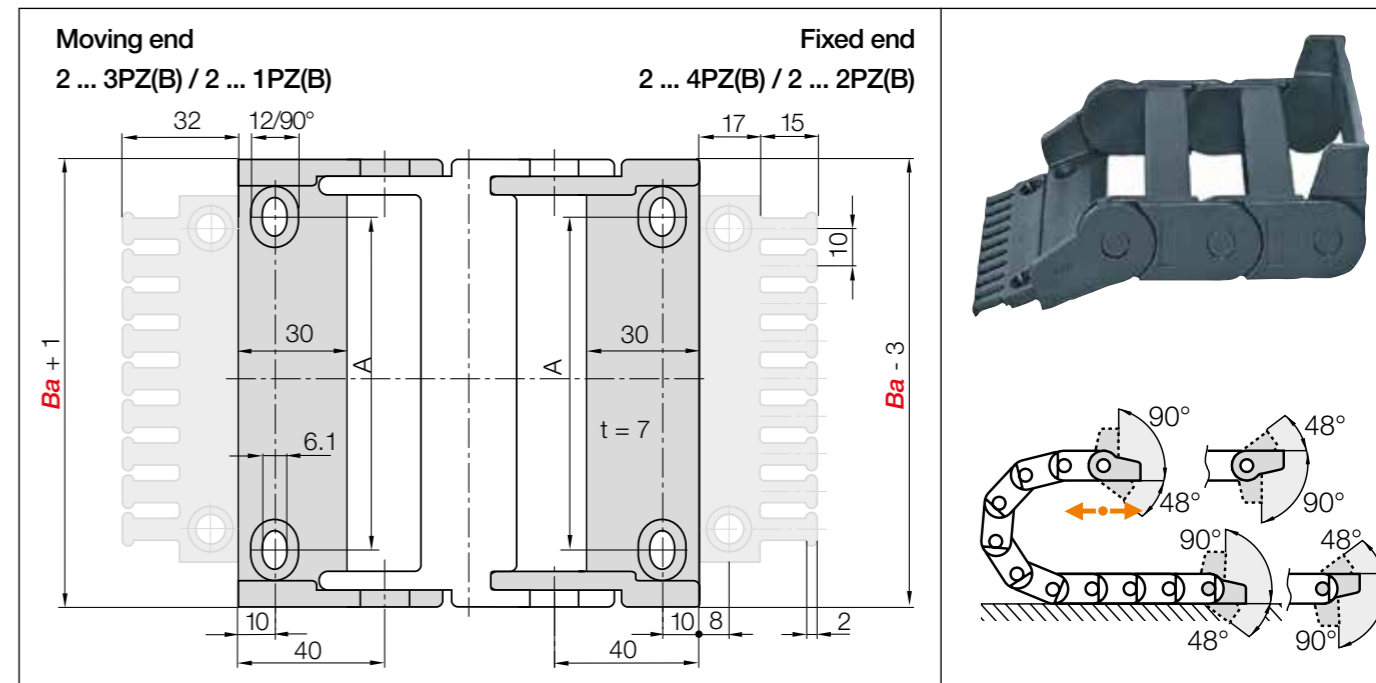
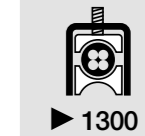
Complete Part No. with required radius (R). Example: E200.05.150.0

Installation dimensions



R	055	075	100	150	200
H+4	145	185	235	335	435
D	142	162	187	237	287
K	265	330	410	565	725

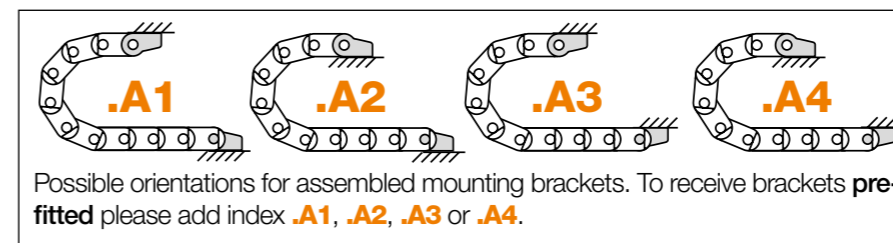
The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)



Width index	Part No. full set pivoting with tiewrap plates	Part No. full set pivoting without tiewrap plate	Part No. full set locking with tiewrap plates	Part No. full set locking without tiewrap plate	A [mm]	Number of teeth
05.	2050.34PZB	2050.34PZ	2050.12PZB	2050.12PZ	44	6
2/35.	2070.34PZB	2070.34PZ	2070.12PZB	2070.12PZ	64	8
2/50.	2100.34PZB	2100.34PZ	2100.12PZB	2100.12PZ	90	10

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

Full set with tiewrap plate + 10 cable tiewraps, please add index K1. Example: 2050.34PZBK1



2050.34PZB.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Large inner height, simply press cables in



Version E | Series E16 | "easy" design, split crossbar along the outer radius
Version Z | Series Z16 | "easy" design, split crossbar along the inner radius

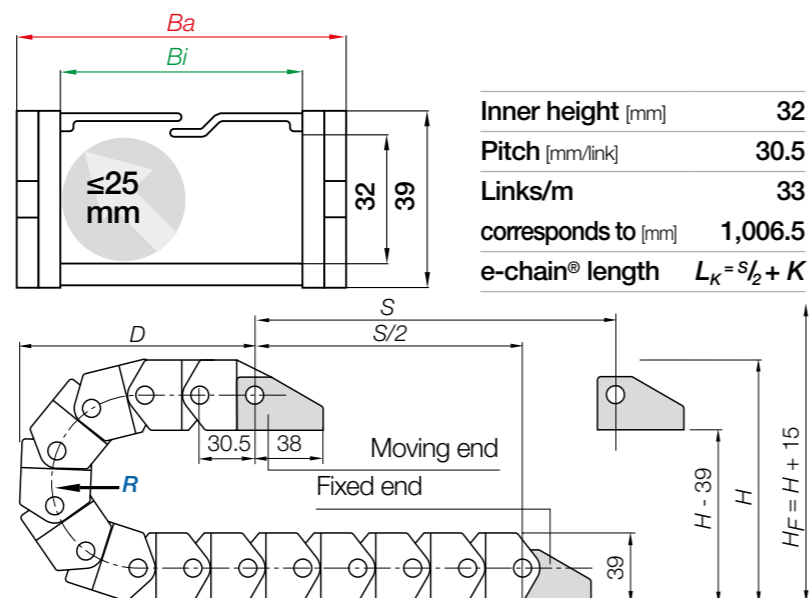
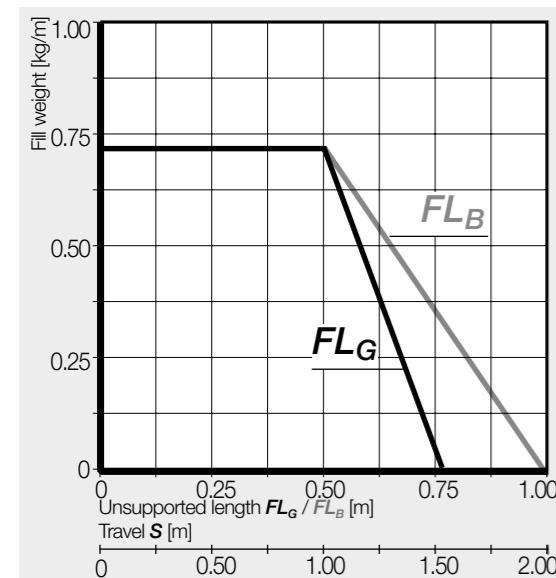
Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
E16. 2 .R.0 ¹⁾	Z16. 2 .R.0	23	37.5	040 ¹⁾ 060 075 100 125*	≈ 0.51
E16. 3 .R.0	Z16. 3 .R.0 ¹⁾	36	50.5	040 ¹⁾ 060 075 100 125*	≈ 0.57
E16. 4 .R.0	Z16. 4 .R.0 ¹⁾	48	62.5	040 ¹⁾ 060 075 100 125*	≈ 0.62
E16. 5 .R.0	Z16. 5 .R.0	63	78.5	040 060 075 100 125*	≈ 0.75
E16. 6 .R.0	Z16. 6 .R.0 ¹⁾	80	95.5	040* 060 075 100 125*	≈ 0.83
E16. 7 .R.0	Z16. 7 .R.0	100	115.3	040* 060 075 100 125*	≈ 0.91

Special solution with opening gap 3mm: Part No. E16.2.100.0.N3 / Z16.2.075.0.N3

*Radius available upon request. Please consult igus® for delivery time. 1) Radius 040 only for these series available

Complete Part No. with required radius (R). Example: E16.7.100.0

Installation dimensions



R	040 ¹⁾	060	075	100	125*
H	119	159	189	239	289
D	105	125	140	165	190
K	190	250	300	380	455

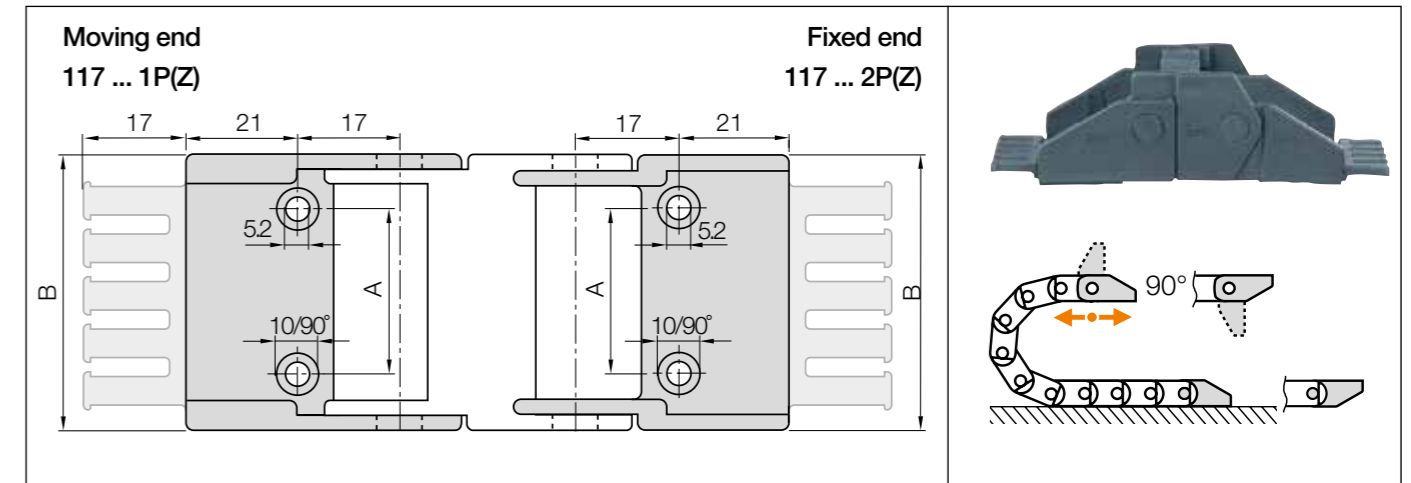
The required clearance height: $H_F = H + 15\text{mm}$ (with 0.3kg/m fill weight)

*Radius available upon request. Please consult igus® for delivery time. 1) Radius 040 only for E16.2. / Z16.3 / Z16.4 / Z16.5 available

220 More information ► www.igus.eu/E16 ► www.igus.eu/Z16

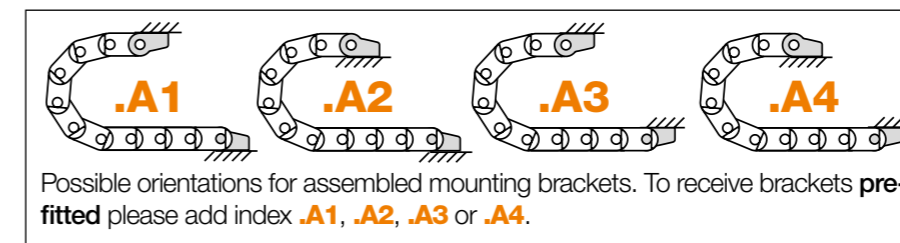


Mounting brackets, polymer one-piece | Locking



Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
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	76.0	6
6. ►	117.6.12PZ	117.6.12P	65	93.0	8
7. ►	117.7.12PZ	117.7.12P	85	113.0	10

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



117.2.12PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series



2 + 3 chamber design
Inner height: 37.1

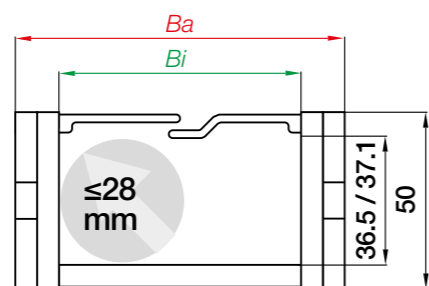
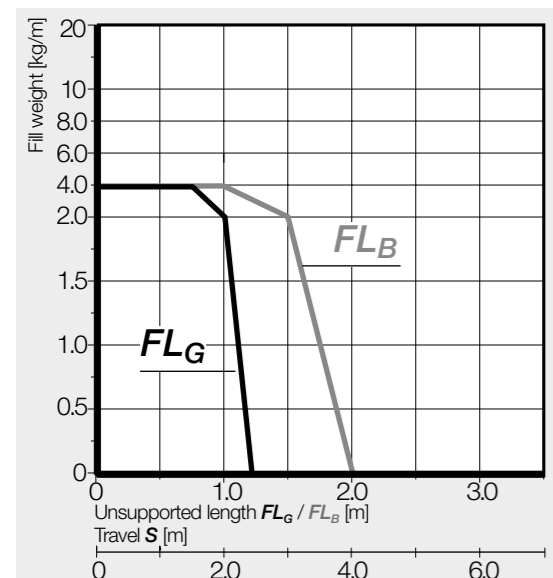


Version E | Series E26 | "easy" design, split crossbar along the outer radius
Version Z | Series Z26 | "easy" design, split crossbar along the inner radius

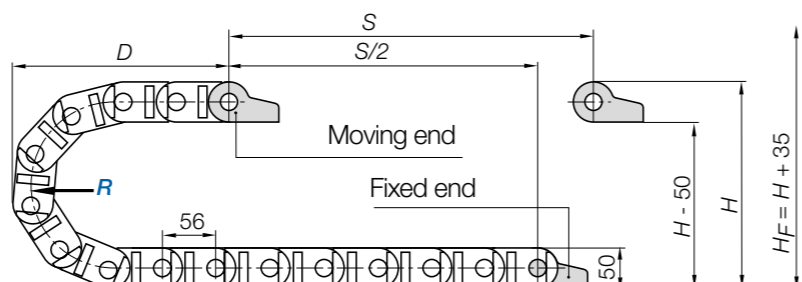
Chamber design	Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
1-chamber	E26.07.R.0	Z26.07.R.0	75	92	063 075 100 125 150 175 200 250	≈ 0.96
2-chamber	E26.2/45.R.0	Z26.2/45.R.0	48/48	117	063 075 100 125 150 175 200 250	≈ 1.14
3-chamber	E26.3/45.R.0	Z26.3/45.R.0	47/48/47	167	063 075 100 125 150 175 200 250	≈ 1.30

Complete Part No. with required radius (R). Example: E26.07.150.0

Installation dimensions

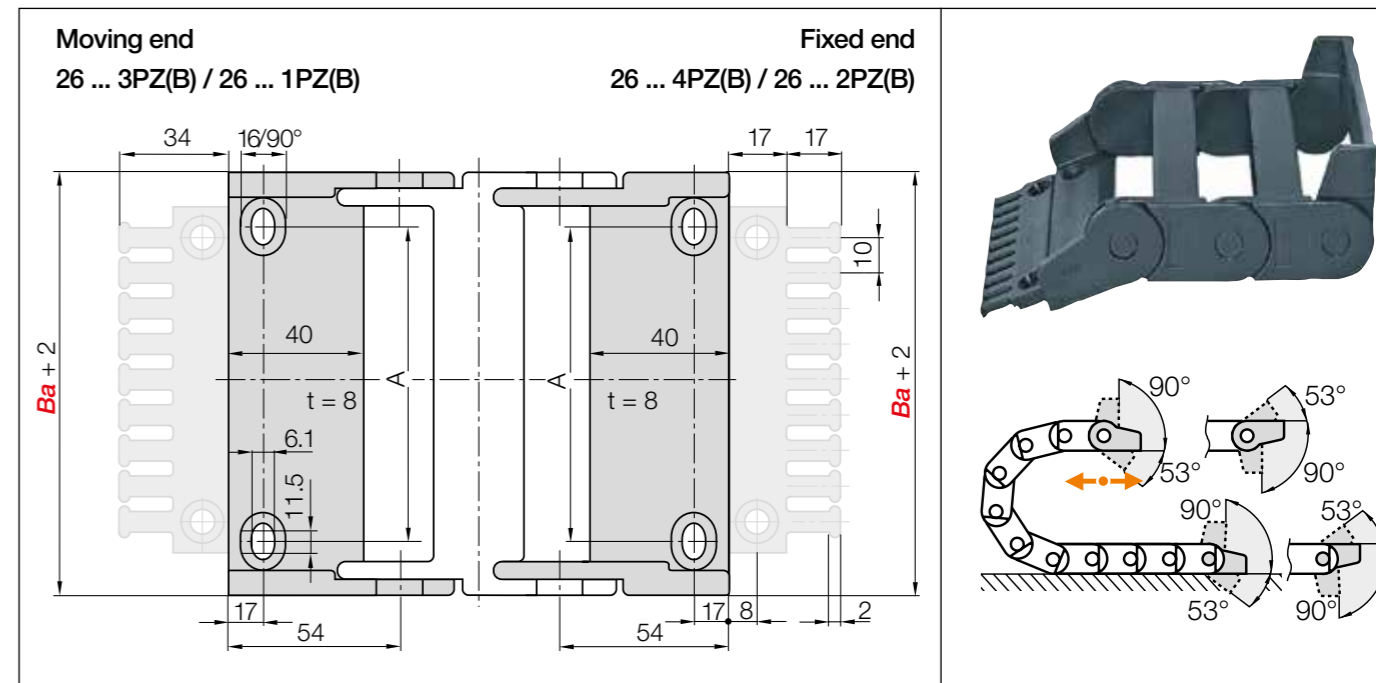


Inner height [mm]	36.5
1-chamber	36.5
2 & 3-chamber	37.1
Pitch [mm/link]	56
Links/m	18
corresponds to [mm]	1,008
e-chain® length	$L_K = S/2 + K$



R	063	075	100	125	150	175	200	250
H+5	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

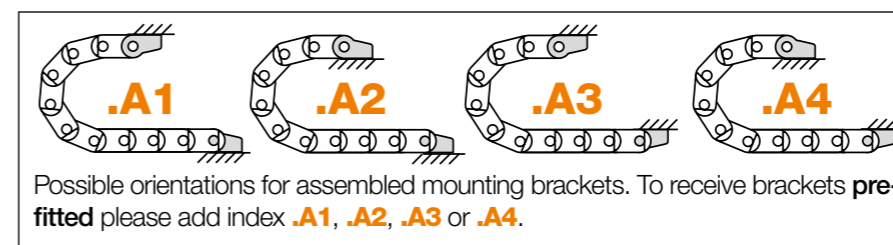
The required clearance height: $H_F = H + 35\text{mm}$ (with 2.0kg/m fill weight)



Width index	Part No. full set pivoting	Part No. full set locking		A [mm]	Number of teeth	
		with tiewrap plates	without tiewrap plate			with tiewrap plates
07.	2607.34PZB	2607.34PZ	2607.12PZB	2607.12PZ	55	7
2/45.	2610.34PZB	2610.34PZ	2610.12PZB	2610.12PZ	80	10
3/45.	2615.34PZB	2615.34PZ	2615.12PZB	2615.12PZ	130	15

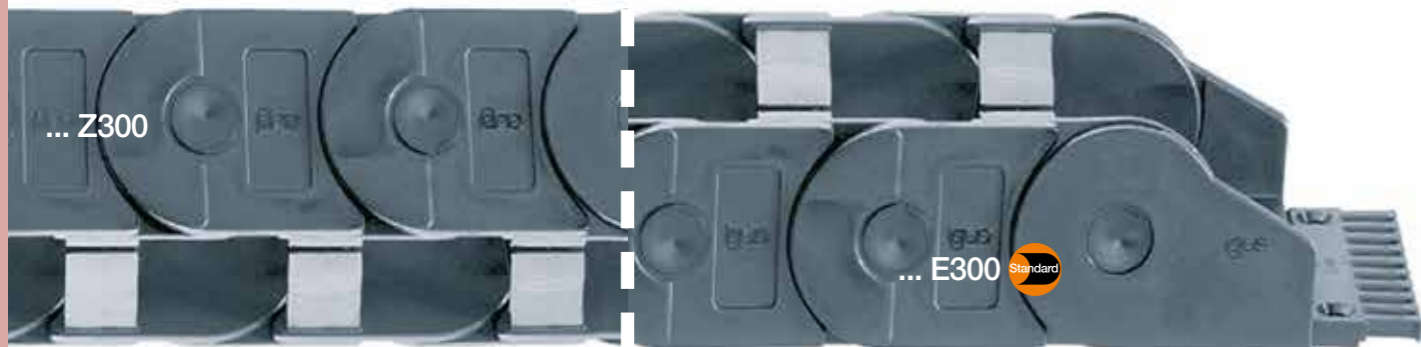
Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB

Full set with tiewrap plate + 10 cable tiewraps, please add index K1. Example: 2607.34PZBK1



2607.34PZB.A2 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

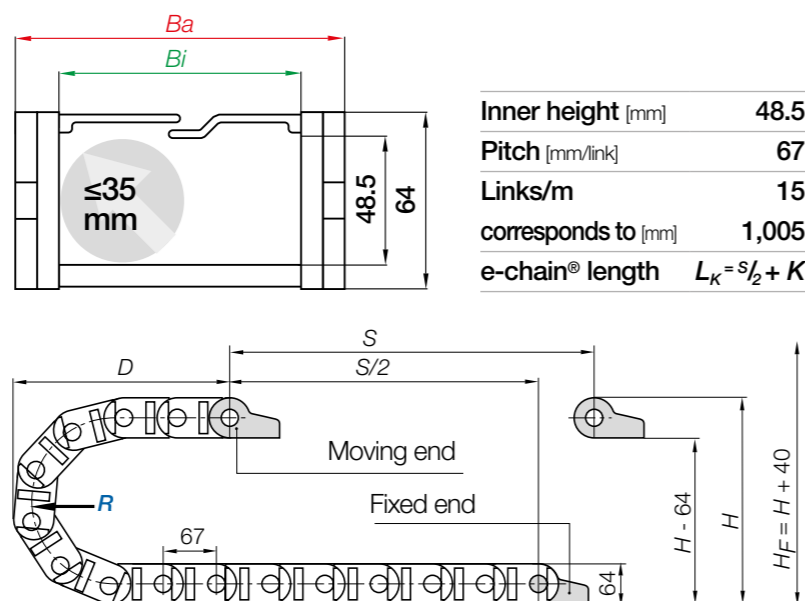
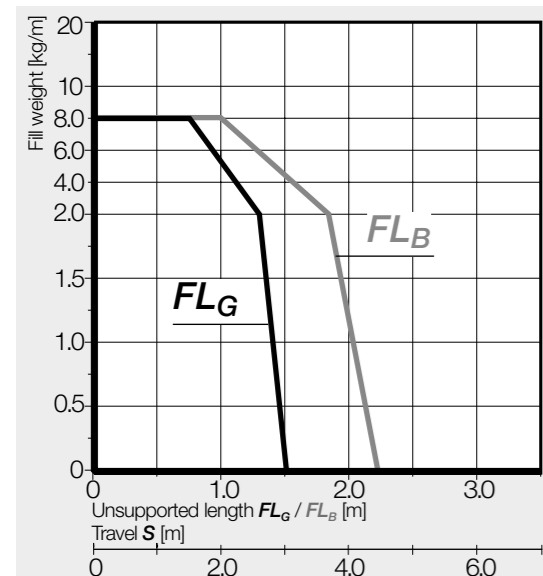


Version E | Series E300 | "easy" design, split crossbar along the outer radius
Version Z | Series Z300 | "easy" design, split crossbar along the inner radius

Chamber design	Part No. Version E	Part No. Version Z	Bi [mm]	Ba [mm]	R Available bend radii [mm]	Weight [kg/m]
1-chamber	E300.075.R.0	Z300.075.R.0	75	95	075 100 125 150 200 250 300	≈ 1.60
2-chamber	E300.2/45.R.0	Z300.2/45.R.0	48/48	120	075 100 125 150 200 250 300	≈ 1.78
3-chamber	E300.3/45.R.0	Z300.3/45.R.0	47/46/47	170	075 100 125 150 200 250 300	≈ 1.92

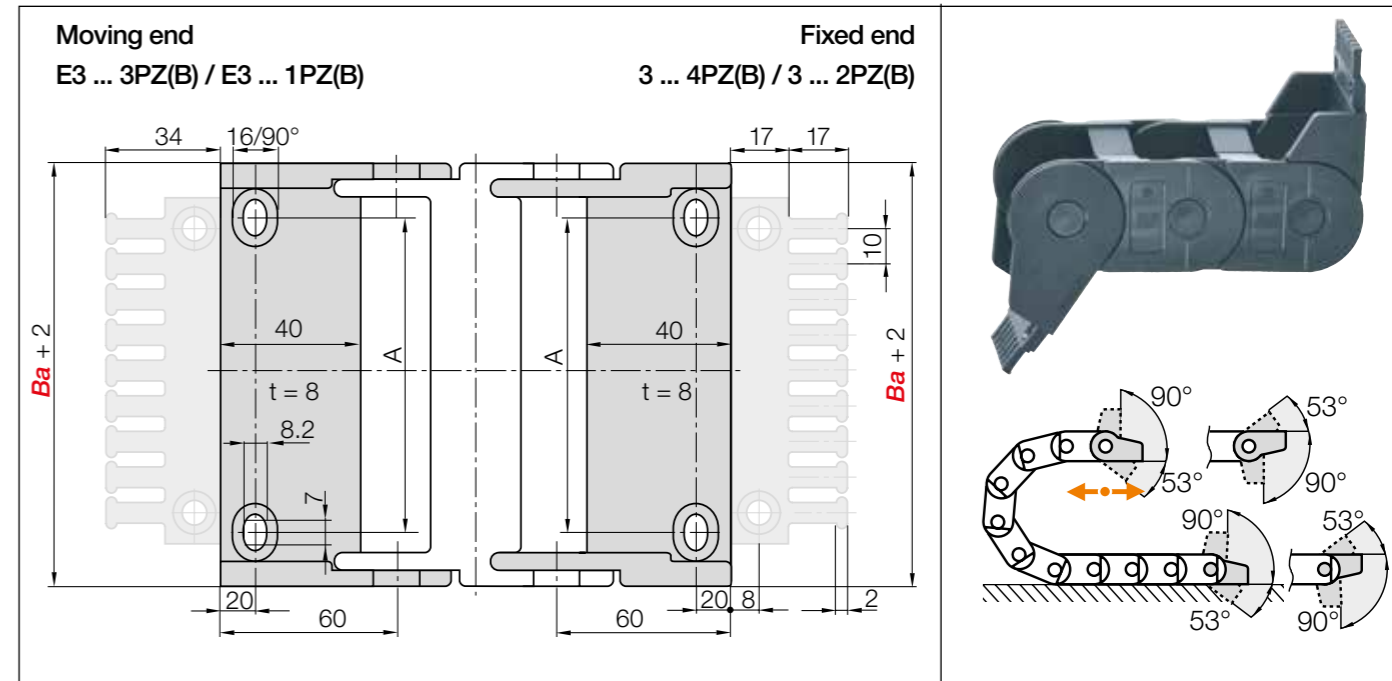
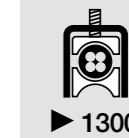
Complete Part No. with required radius (R). Example: E300.075.150.0

Installation dimensions



R	075	100	125	150	200	250	300
H+5	214	264	314	364	464	564	664
D	208	233	258	283	333	383	433
K	370	450	530	610	765	920	1,080

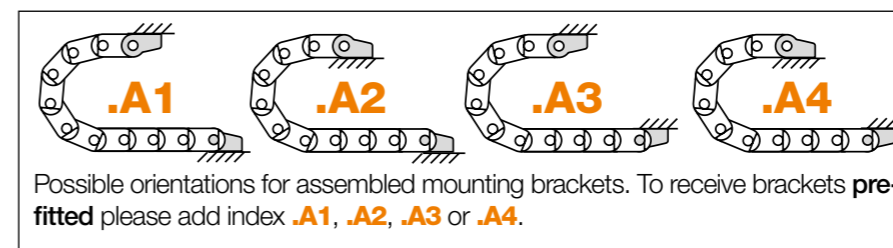
The required clearance height: $H_F = H + 40\text{mm}$ (with 2.5kg/m fill weight)



Width index	Part No. full set pivoting	Part No. full set locking		A [mm]	Number of teeth	
		with tiwrap plates	without tiwrap plate			with tiwrap plates
075.	E3075.34PZB	E3075.34PZ	E3075.12PZB	E3075.12PZ	53	7
2/45.	E3100.34PZB	E3100.34PZ	E3100.12PZB	E3100.12PZ	78	10
3/45.	E3150.34PZB	E3150.34PZ	E3150.12PZB	E3150.12PZ	128	15

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

Full set with tiwrap plate + 10 cable tiwraps, please add index K1. Example: E3075.34PZBK1



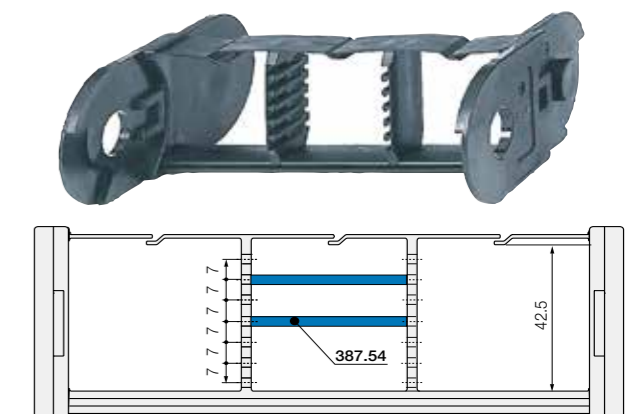
E3075.34PZB.A2 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiwrap plates
Full set
Series

Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Interior separation Modular shelf

For additional horizontal subdivision of the inner space, shelves are available for e-chains® series E300.3/45 and Z300.3/45. They can be fitted at 7 different heights.

Shelf for e-chains®	Price
unassembled	386.54
assembled	387.54



zipper

Zip fastening e-chains® and e-tubes



Advantages of the zipper series:

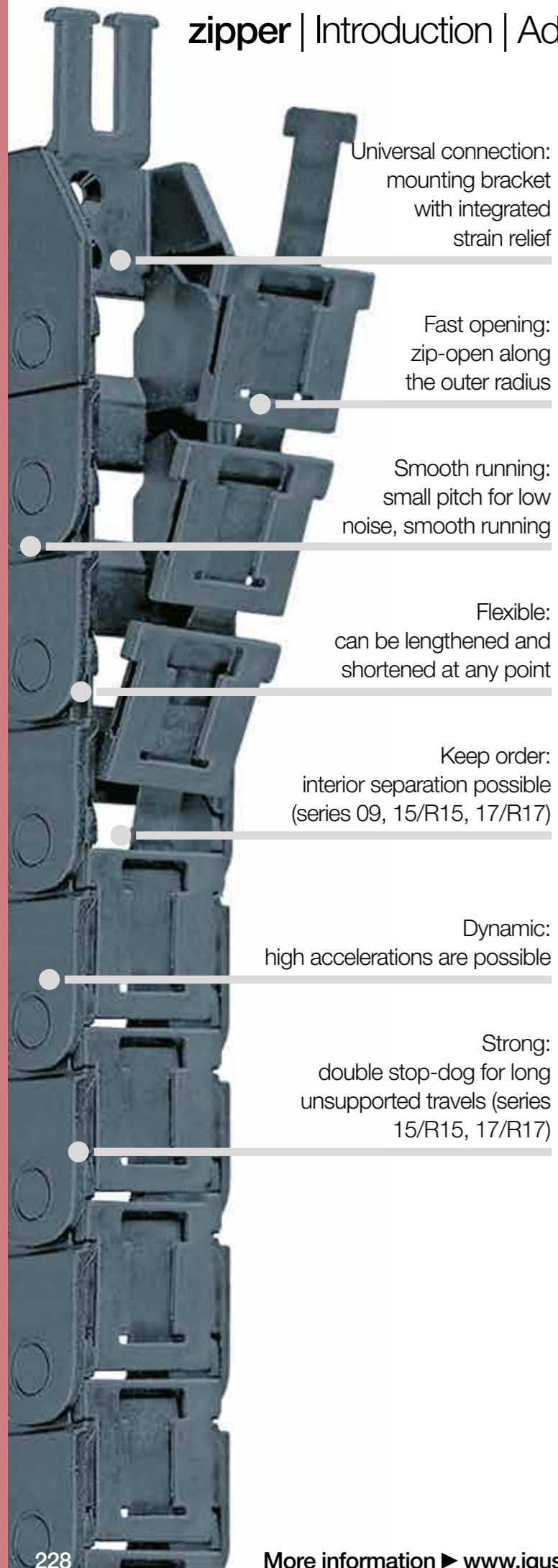
- zipper-like design for quick opening and closing of lids
- zipper e-chains® can be lengthened and shortened at any point
- Small pitch for low noise, smooth running
- Interior separation possible



When to use another e-chain® series:

- When an easy filling without opening and closing of the chain is required
 - ▶ easy chain®, page 198
- When an easy-to-open and cost-effective e-chain® is required
 - ▶ E2.1 micro, page 320
- When openable crossbars are not necessary
 - ▶ E2 micro, page 260





Universal connection:
mounting bracket
with integrated
strain relief

Fast opening:
zip-open along
the outer radius

Smooth running:
small pitch for low
noise, smooth running

Flexible:
can be lengthened and
shortened at any point

Keep order:
interior separation possible
(series 09, 15/R15, 17/R17)

Dynamic:
high accelerations are possible

Strong:
double stop-dog for long
unsupported travels (series
15/R15, 17/R17)

Zip fastening e-chains® and e-tubes - zipper

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

- zipper-like design for quick opening and closing of lids
- zipper e-chains® can be lengthened and shortened at any point
- Small pitch for low noise, smooth running
- High accelerations: 100 m/s² and more

Typical industries and applications

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

58 dB(A) - value determined at the igus® test-lab, v = 1.0m/s unsupported, series 09.50.028.0

UL94-V0 classifications upon request

Electrically conductive ESD e-chains® - several series available from stock

iF product design award
2002 igus® Series R09
1989 igus® Series 15

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]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
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zipper - e-chains®
crossbars on a strip - zip-open along the outer radius

047	9	10 - 16	16 - 22	12.5	018 - 038	0.40	232
07	10.3	06 - 64	12.5 - 71	15	018 - 048	0.55	234
09	15	10 - 64	18.2 - 72.2	19.3	028 - 048	1.00	238
15	17	15 - 100	26 - 113	24	038 - 180	1.20	244
17	32	15 - 100	25.5 - 113	39	063 - 125	1.00	252



zipper - e-tubes - protection against dirt and swarf
lids on a strip - zip-open along the outer radius

R07	10.3	06 - 64	12.5 - 71	15	038 - 048	0.55	236
R09	15	10 - 50	18.2 - 58.2	19.3	048 - 100	1.00	242
R15	17	25 - 80	36 - 94	24	063 - 180	1.20	248
R17	32	15 - 63	26 - 74	39	063 - 125	1.20	256



Available from stock. Ready to ship in 24 - 48hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Technical data

	Speed gliding / acceleration gliding	≤ 10 [m/s] / ≤ 50 [m/s ²]
	Speed FL_G / acceleration FL_G	≤ 20 [m/s] / ≤ 200 [m/s ²]
	Speed FL_B / acceleration FL_B	≤ 3 [m/s] / ≤ 6 [m/s ²]
	Material lower part - permitted temperature °C, igumid G	-40°C / +120°C
	Material lid - permitted temperature °C, igumid TE	-40°C / +70°C
	Flammability class, igumid G	VDE 0304 IIC UL94-HB

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

Installation types, maximum travels

Series	Unsupported	Vertical hanging	Vertical standing	Side mounted unsupported
047	≤ 0.80m	upon request	upon request	upon request
07 / R07	≤ 1.10m	upon request	upon request	upon request
09 / R09	≤ 2.00m	upon request	upon request	upon request
15 / R15	≤ 2.40m	upon request	upon request	upon request
17 / R17	≤ 2.00m	upon request	upon request	upon request

Options with order keys | Examples based on series 15

	Standard	NC version - (No Camber) without pretension	ESD - electrically conductive material
	Part No. Standard	Part No. NC-Version	Part No. igumid ESD
	15.025.R.0	15.025.R.0.NC	15.025.R.0.ESD
	Ready to ship* in 24 - 48 hrs.	Delivery time* 2-5 business days	Delivery time* several series from stock

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Order example | Order key and colour examples | Examples based on series 15

Order example for complete e-chain® (1.0m), colour black, with mounting brackets and interior separation:

e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 33 links	15.025.075.0
+ Mounting brackets	1 set (with tiwrap plates)	1025.34PZ
Interior separation	with 2 separators assembled every 2 nd link	2 x 154
Order text:	1 m 15.025.075.0 + 1025.34PZ + 2 x 154	

Order key

e-chain® zip-open along the outer radius **15.025.075.0**
 e-tube zip-open along the outer radius **R15.025.075.0**

Series / Type

Width index (depends on **B**)

Bend radius **R**

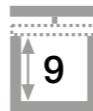
Colour index (standard black)

Order index for colour options

Colour	Order index	Colour	Order index
Black	Standard .0	Orange	Special colour .2
Silver-grey	Special colour .31	Yellow	Special colour .4
White	Special colour .1	Light grey	Special colour .14
Grey-white	Special colour .1S		

Black e-chains® available from stock.
Above special colours upon request.

Fast opening, small pitch, smooth running

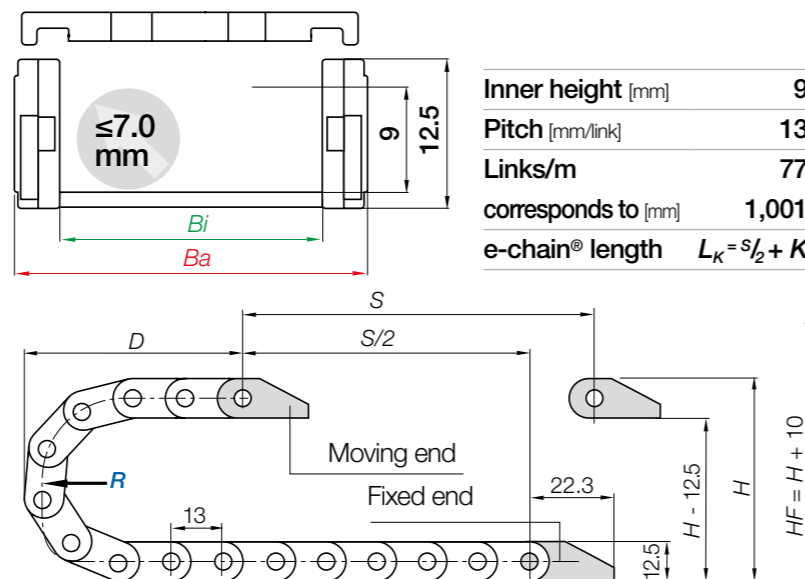
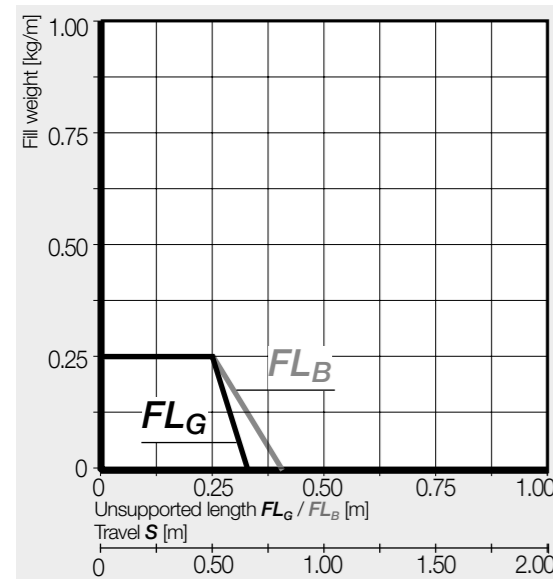


e-chains® | Series 047 | Crossbars on a strip - zip-open along the outer radius

Part No.	Bi	Ba	R Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/m]
047.10.R.0	10	16	018 028 038	≈ 0.10
047.16.R.0	16	22	018 028 038	≈ 0.11

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

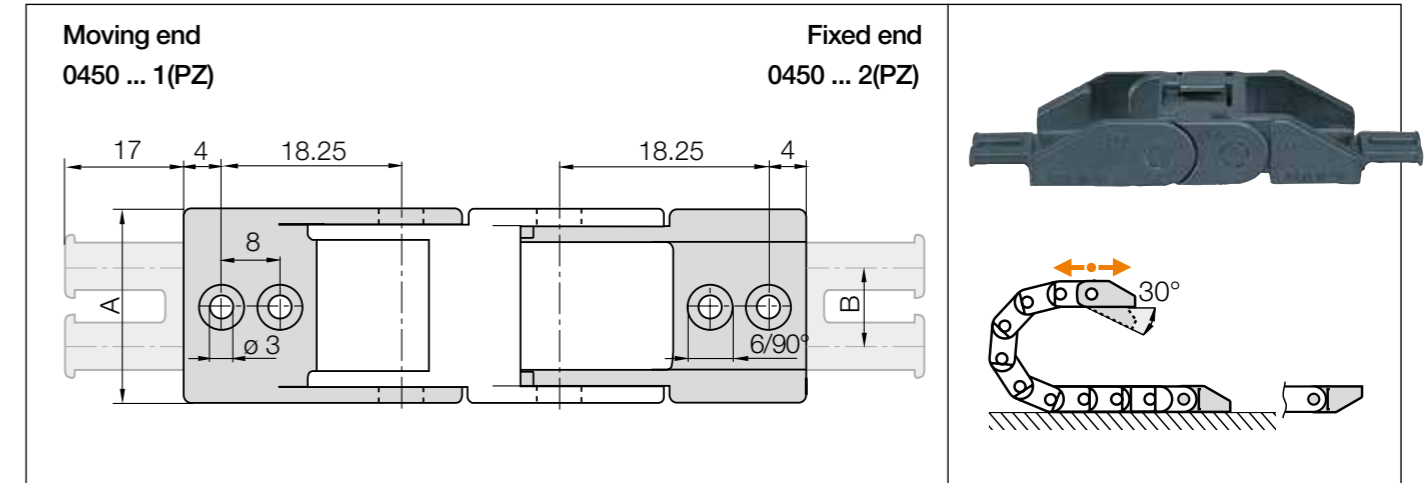
Installation dimensions



R	018	028	038
H	48.5	68.5	88.5
D	44	54	64
K	85	115	150

The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

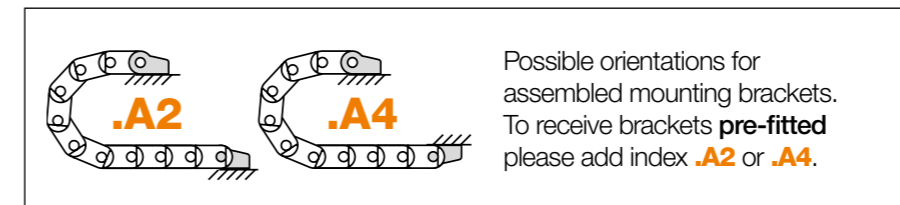
Mounting brackets, polymer one-piece | Pivoting



Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
10. ►	0450.10.12PZ	0450.10.12	16	-	1
16. ►	0450.16.12PZ	0450.16.12	22	10	2

Mounting bracket with strain relief tiewrap plate has reductions of $\varnothing 3\text{mm}$ / $\varnothing 6\text{mm } 90^\circ$

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



Possible orientations for assembled mounting brackets. To receive brackets pre-fitted please add index .A2 or .A4.

0450.10.12PZ.A2 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series



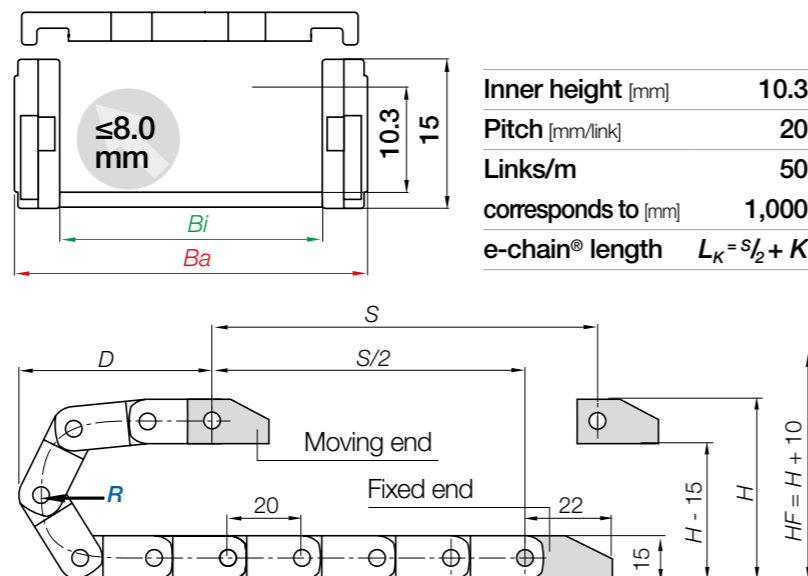
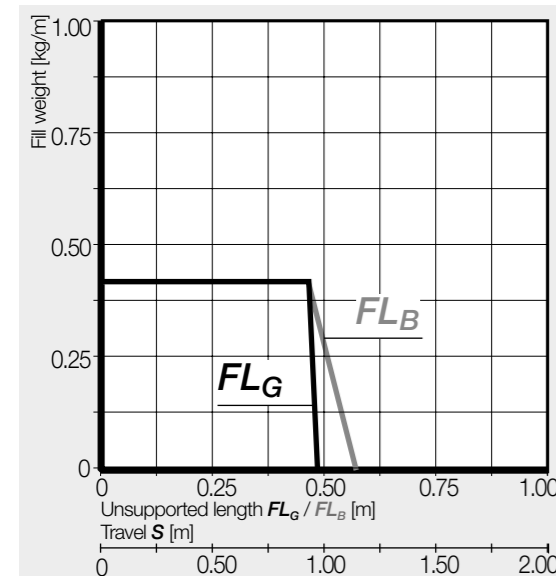
e-chains® | Series 07 | Crossbars on a strip - zip-open along the outer radius

Part No.	Bi	Ba	R Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/m]
07.06.R.0	06	12.5	018 028 038 048*	≈ 0.13
07.10.R.0 ¹⁾	10	16.5	018 028 038 048*	≈ 0.14
07.16.R.0 ¹⁾	16	22.5	018 028 038 048*	≈ 0.16
07.20.R.0 ¹⁾	20	27	018 028 038 048*	≈ 0.17
07.30.R.0 ¹⁾	30	37	018 028 038 048*	≈ 0.20
07.40.R.0 ¹⁾	40	47	018 028 038 048*	≈ 0.23
07.50.R.0 ¹⁾	50	57	018 028 038 048*	≈ 0.26
07.64.R.0	64	71	018 028 038 048	≈ 0.30

1) ⚠ ESD version available from stock *Radius available upon request. Please consult igus® for delivery time.

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

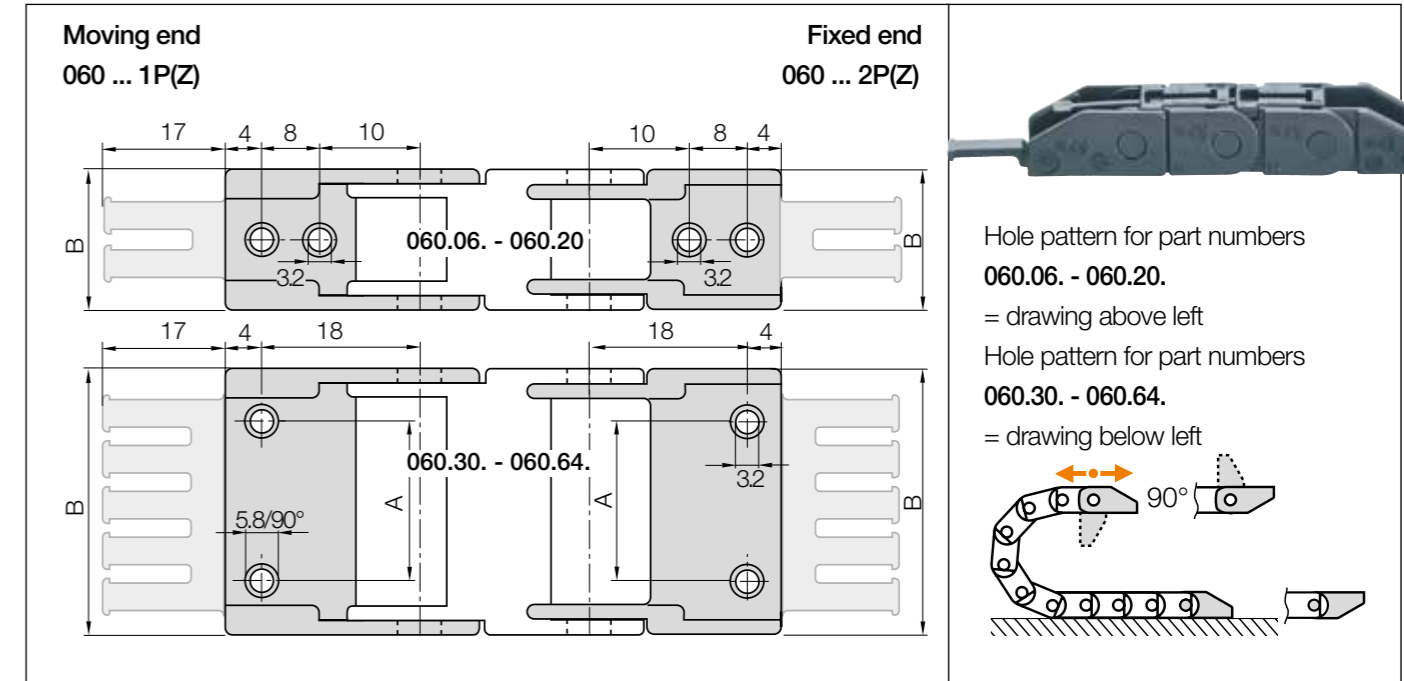
Installation dimensions



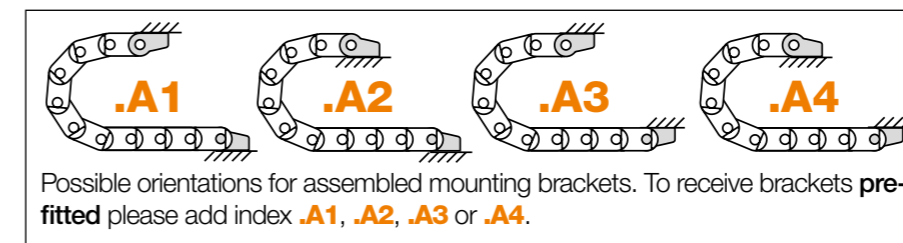
R	018	028	038	048*
H	51	71	91	111
D	56	66	76	86
K	100	130	160	195

The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

*Radius 048 only for series 07.64 - for other widths radii available upon request. Please consult igus® for delivery time.



Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
06.	060.06.12PZ	060.06.12P	-	12.5	1
10.	060.10.12PZ	060.10.12P	-	16.5	1
16.	060.16.12PZ	060.16.12P	-	22.5	2
20.	060.20.12PZ	060.20.12P	-	27.0	2
30.	060.30.12PZ	060.30.12P	22	37.0	3
40.	060.40.12PZ	060.40.12P	32	47.0	4
50.	060.50.12PZ	060.50.12P	42	57.0	5
64.	060.64.12PZ	060.64.12P	56	71.0	6



060.40.12PZ.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

ESD - many sizes from stock

- ESD material tested with over 10 million cycles for the toughest requirements
 - Standardised product made from igumid ESD
 - Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information ► www.igus.eu/esd



Fast opening, enclosed zipper-band

10,3

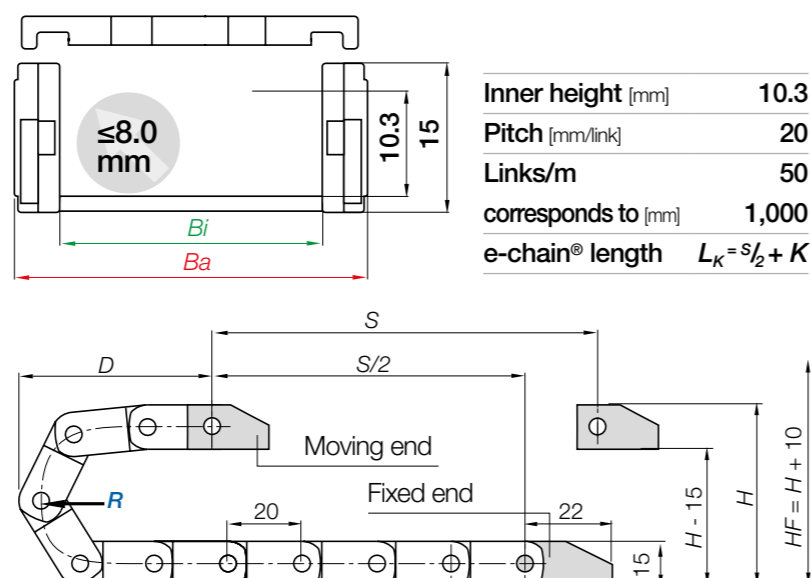
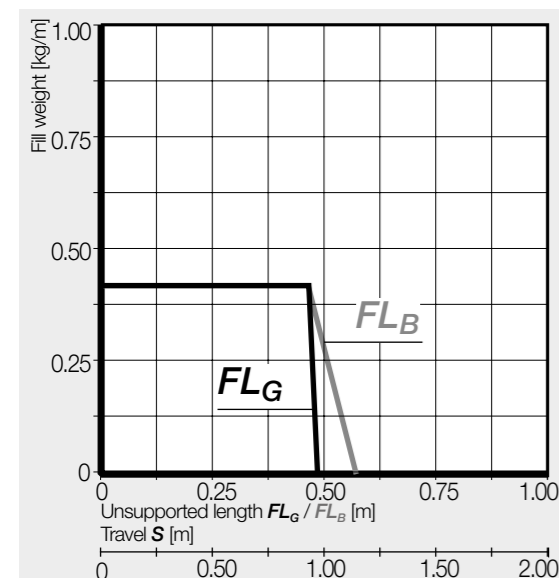


e-tube | Series R07 | Lids on a strip - zip-open along the outer radius

Part No.	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii	Weight
e-tubes	[mm]	[mm]	[mm]	[kg/m]
R07.06.R.0	06	12.5	038 048	≈ 0.15
R07.10.R.0	10	16.5	038 048	≈ 0.16
R07.16.R.0	16	22.5	038 048	≈ 0.18
R07.20.R.0	20	27	038 048	≈ 0.19
R07.30.R.0	30	37	038 048	≈ 0.22
R07.40.R.0	40	47	038 048	≈ 0.25
R07.50.R.0	50	57	038 048	≈ 0.28
R07.64.R.0	64	71	038 048	≈ 0.32

Complete Part No. with required radius (*R*). Example: R07.40.038.0

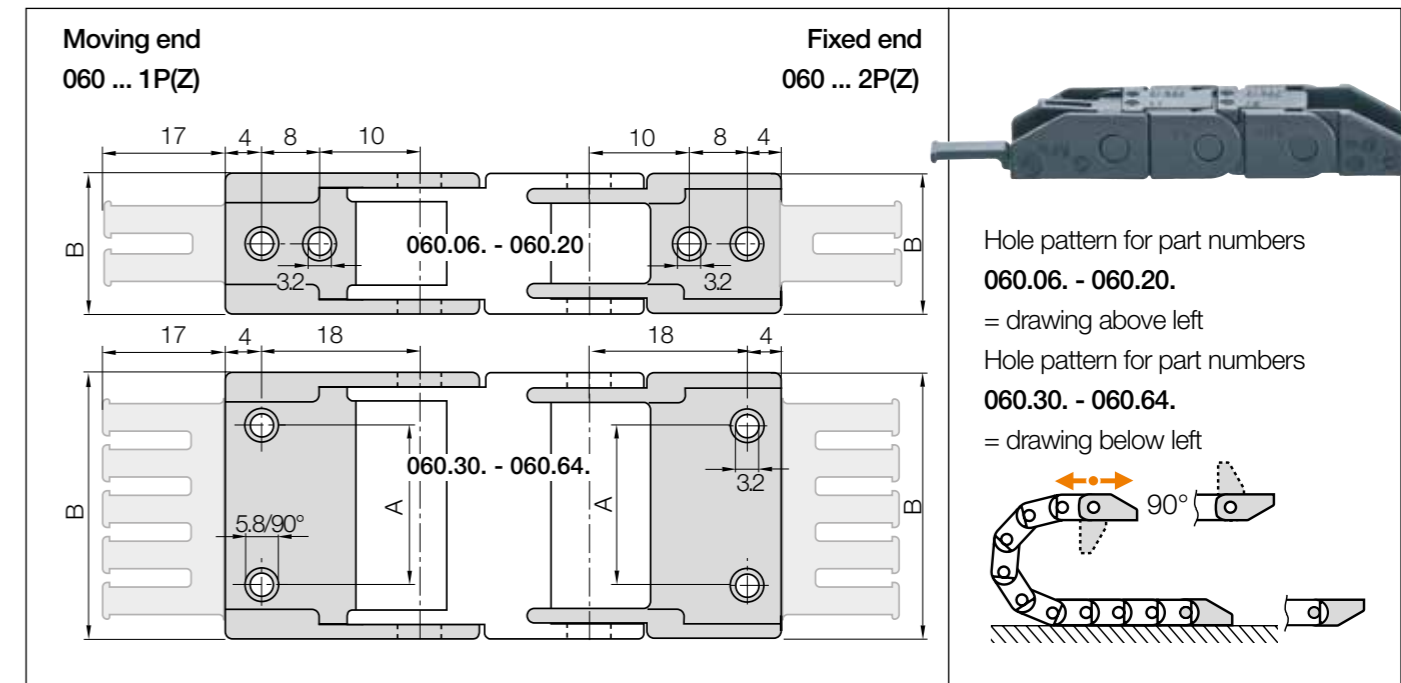
Installation dimensions



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

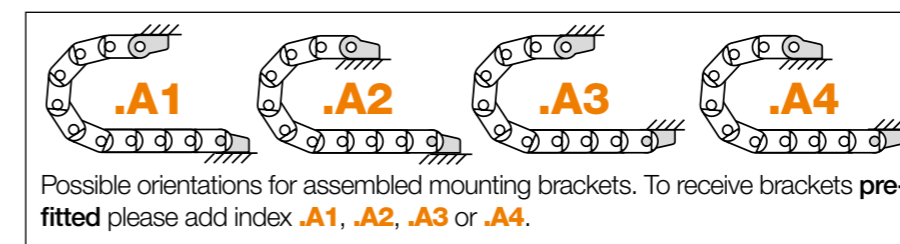
The required clearance height: $H_F = H + 10\text{mm}$ (with 0.2kg/m fill weight)

Mounting brackets, polymer one-piece | Locking

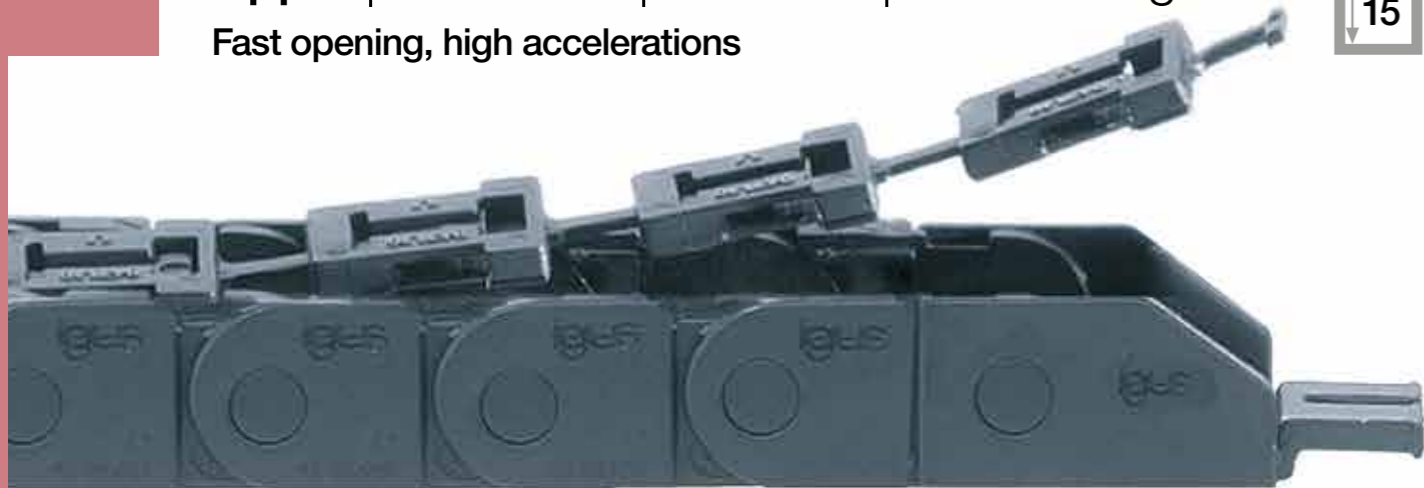
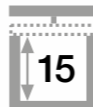


Width index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	A [mm]	B [mm]	Number of teeth
06.* ▶	060.06. 12PZ	060.06. 12P	-	12.5	1
10. ▶	060.10. 12PZ	060.10. 12P	-	16.5	1
16. ▶	060.16. 12PZ	060.16. 12P	-	22.5	2
20. ▶	060.20. 12PZ	060.20. 12P	-	27.0	2
30. ▶	060.30. 12PZ	060.30. 12P	22	37.0	3
40. ▶	060.40. 12PZ	060.40. 12P	32	47.0	4
50. ▶	060.50. 12PZ	060.50. 12P	42	57.0	5
64.* ▶	060.64. 12PZ	060.64. 12P	56	71.0	6

*Width available upon request. Please consult igus® for delivery time.



060.40.12PZ.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tie-wrap plates
 Full set
 Series



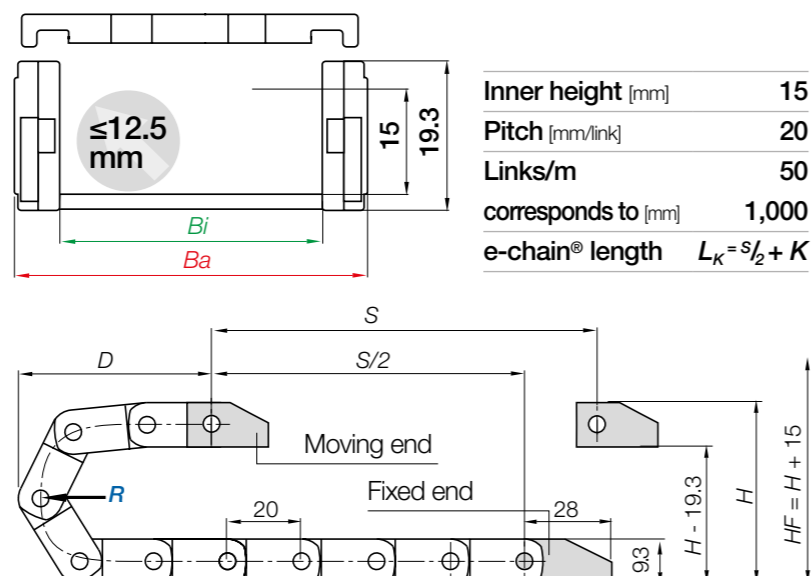
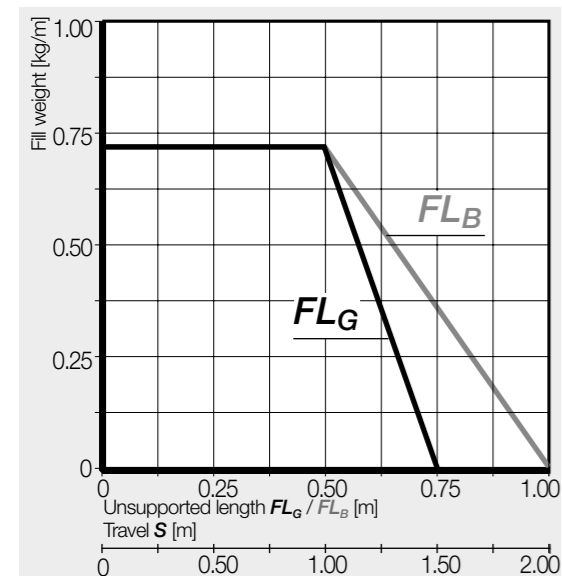
e-chains® | Series 09 | Crossbars on a strip - zip-open along the outer radius

Part No.	Bi	Ba	R Available bend radii	Weight
e-chains®	[mm]	[mm]	[mm]	[kg/m]
09.10 .R.0	10	18.2	028 038 048	≈ 0.21
09.16 .R.0 ¹⁾	16	24.2	028 038 048	≈ 0.24
09.20 .R.0 ¹⁾	20	28.2	028 038 048	≈ 0.25
09.30 .R.0 ¹⁾	30	38.2	028 038 048	≈ 0.28
09.40 .R.0 ¹⁾	40	48.2	028 038 048	≈ 0.31
09.50 .R.0 ¹⁾	50	58.2	028 038 048	≈ 0.34
09.64 .R.0	64	72.2	028 038 048	≈ 0.39

1) Available as ESD version from stock

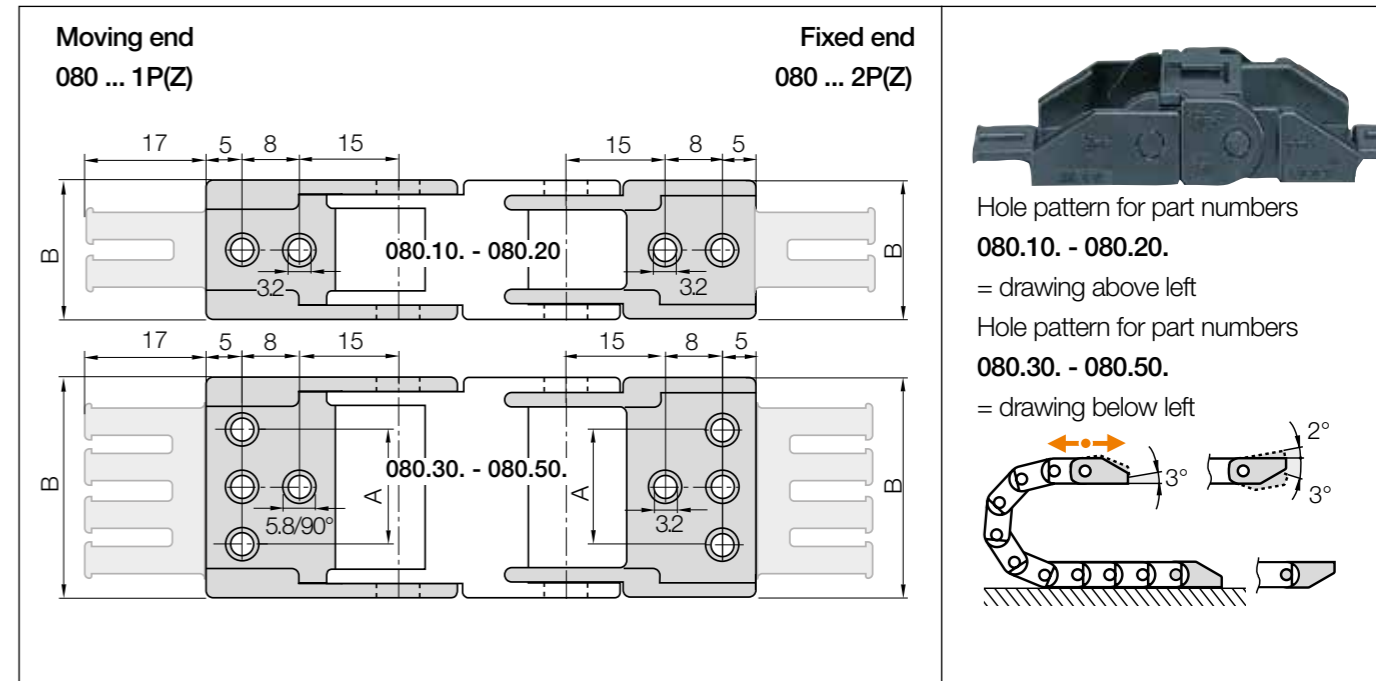
Complete Part No. with required radius (R). Example: 09.40.038.0

Installation dimensions

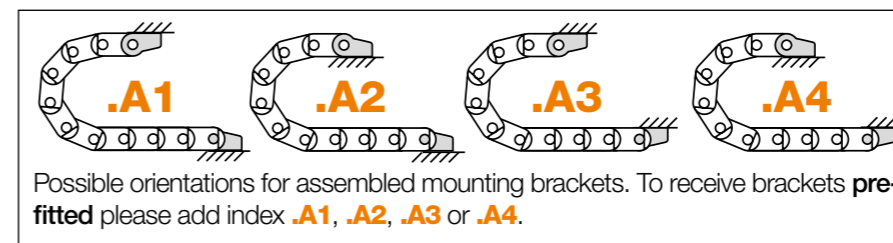


R	028	038	048
H	75	95	115
D	68	78	88
K	130	160	195

The required clearance height: $H_F = H + 15\text{mm}$ (with 0.3kg/m fill weight)



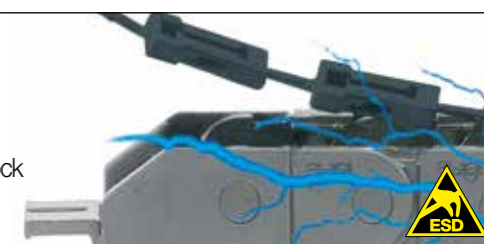
Width index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	A [mm]	B [mm]	Number of teeth
10.	080.10. 12PZ	080.10. 12P	-	18.2	1
16.	080.16. 12PZ	080.16. 12P	-	24.2	2
20.	080.20. 12PZ	080.20. 12P	-	28.2	2
30.	080.30. 12PZ	080.30. 12P	22	38.2	3
40.	080.40. 12PZ	080.40. 12P	32	48.2	4
50.	080.50. 12PZ	080.50. 12P	42	58.2	5
64.	080.64. 12PZ	080.65. 12P	56	72.2	6

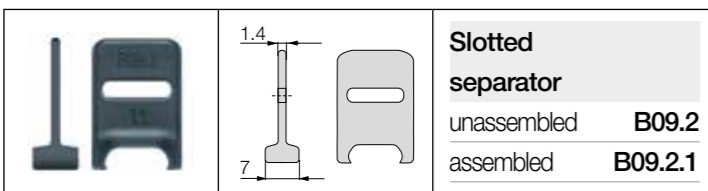
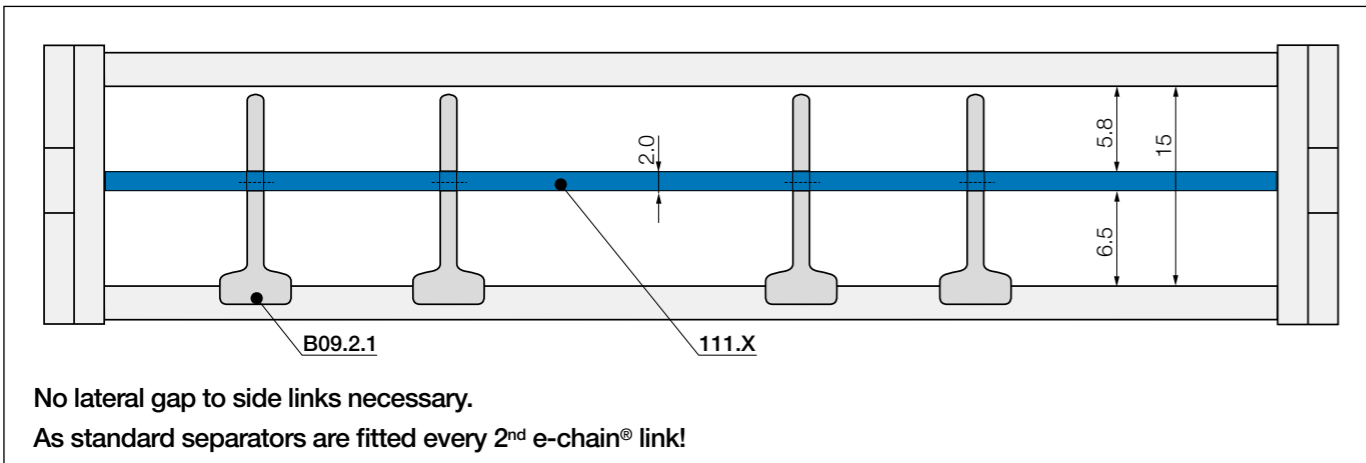


080.40.12PZ.A1 Order example
 .A... to indicate option with brackets pre-fitted with integrated strain relief tie-wrap plates
 Full set
 Series

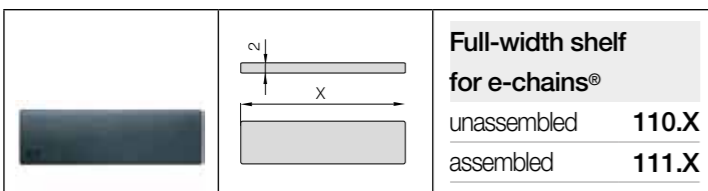
ESD - many sizes from stock

- ESD material tested with over 10 million cycles for the toughest requirements
 - Standardised product made from igumid ESD
 - Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information ► www.igus.eu/esd



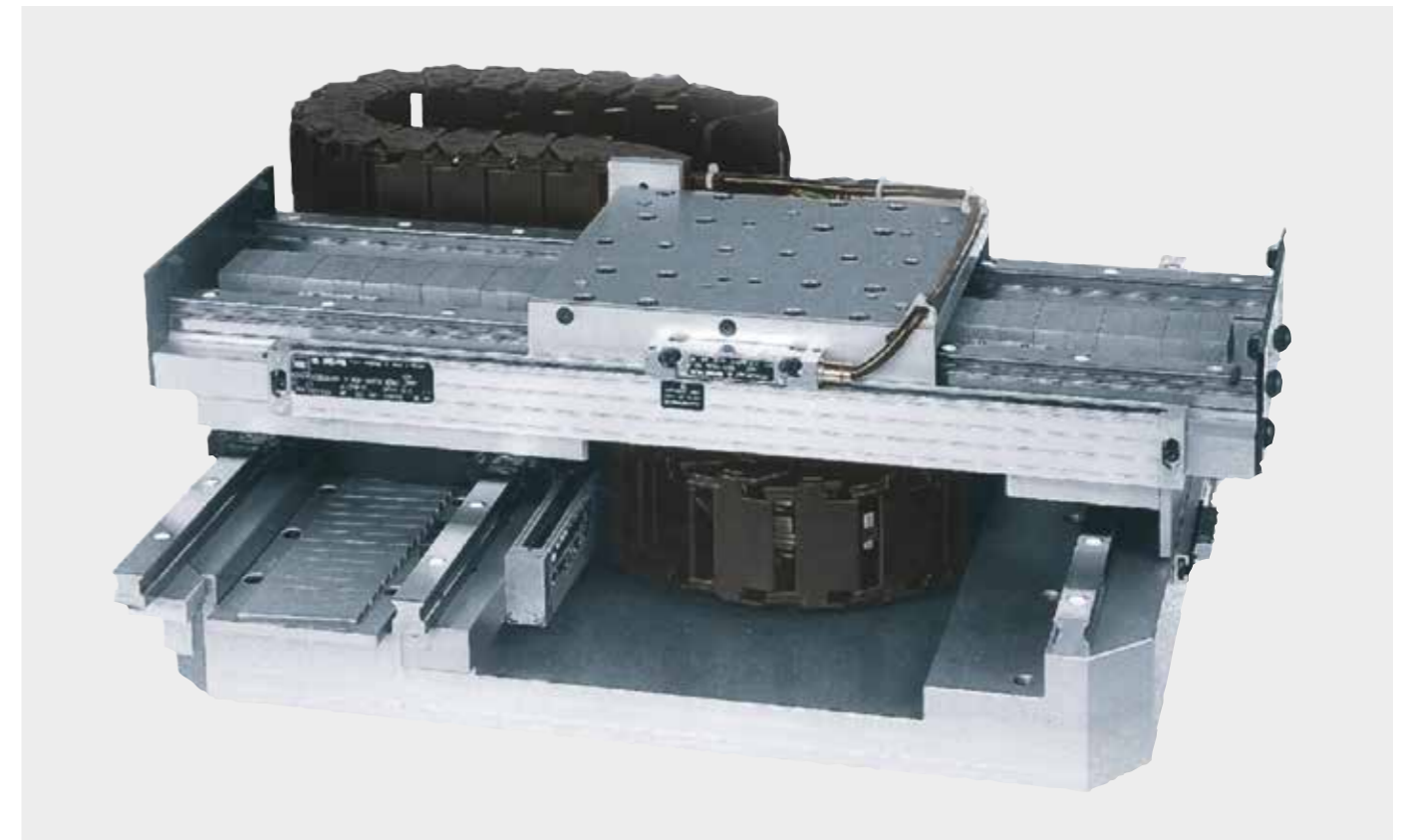


Slotted separator
Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.



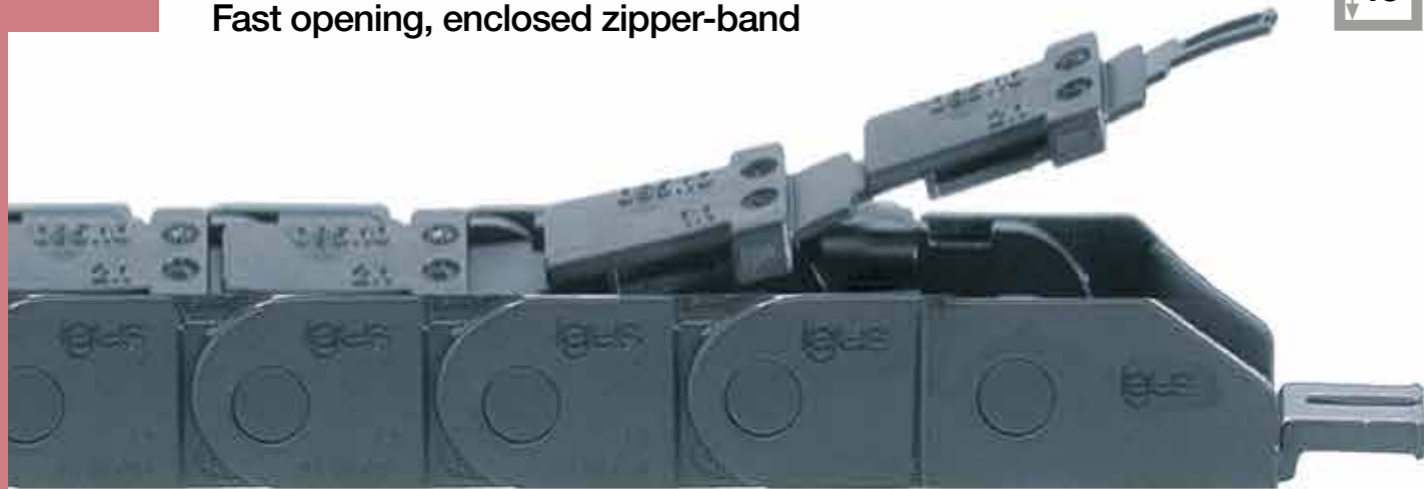
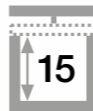
Full-width shelf
This option is for applications with many small cables with similar diameters. For full width separation.

Full-width shelves Width = X [mm]	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
		016	110.16	111.16	030	110.30	111.30	050	110.50
	020	110.20	111.20	040	110.40	111.40			



igus® zipper e-chain® on an X/Y unit. Acceleration: 100m/s²

Fast opening, enclosed zipper-band

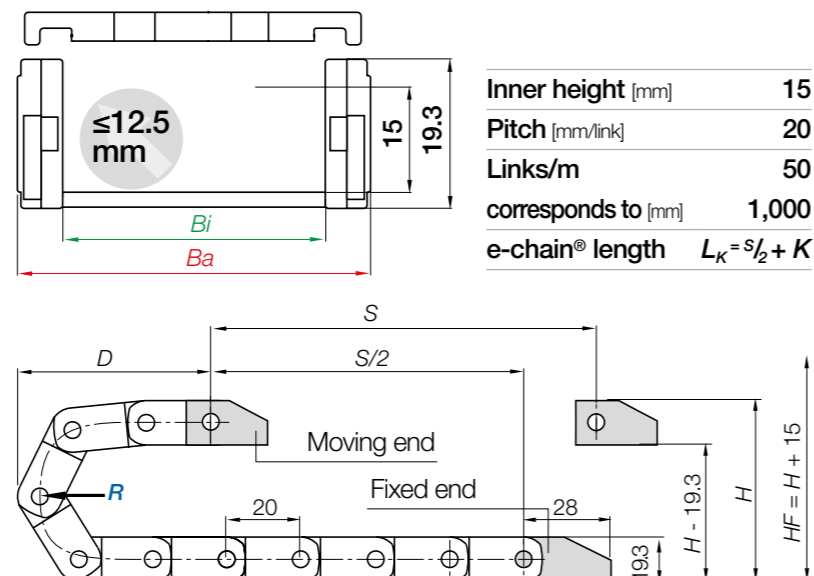
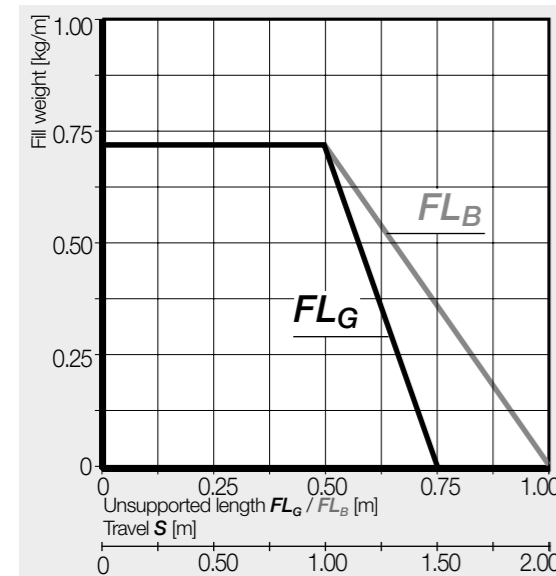


e-tube | Series R09 | Lids on a strip - zip-open along the outer radius

Part No. e-tubes	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii			Weight [kg/m]
	[mm]	[mm]	[mm]	[mm]	[mm]	
R09.10.R.0	10	18.2	048	075	100	≈ 0.23
R09.16.R.0	16	24.2	048	075	100	≈ 0.26
R09.20.R.0	20	28.2	048	075	100	≈ 0.27
R09.30.R.0	30	38.2	048	075	100	≈ 0.30
R09.40.R.0	40	48.2	048	075	100	≈ 0.33
R09.50.R.0	50	58.2	048	075	100	≈ 0.36

Complete Part No. with required radius (*R*). Example: R09.40.048.0

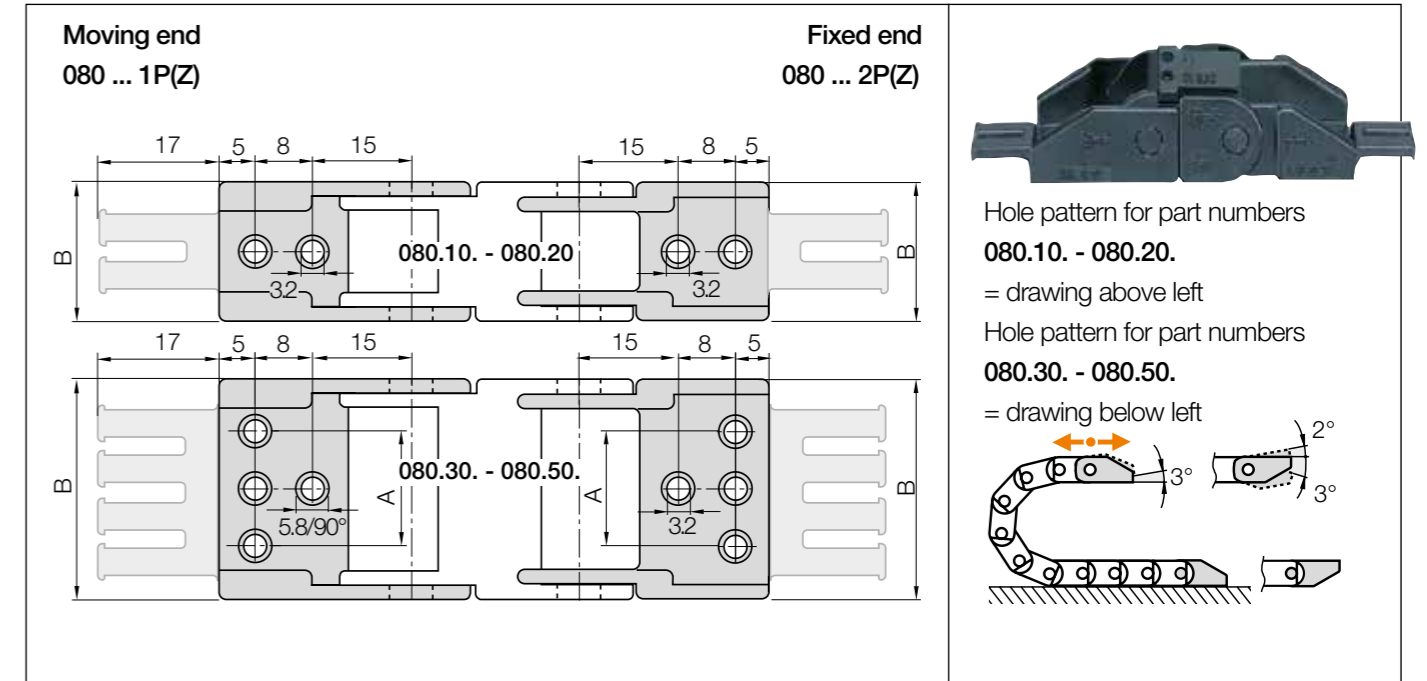
Installation dimensions



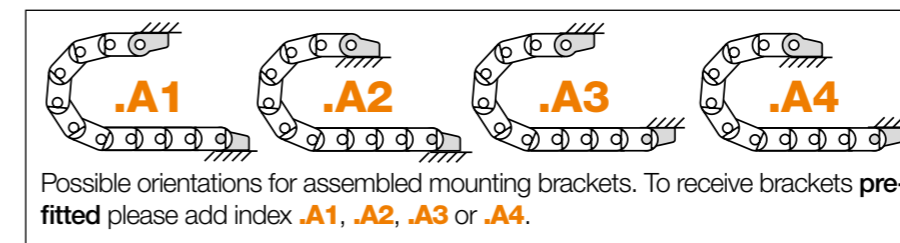
<i>R</i>	048	075	100
<i>H</i>	115	169	219
<i>D</i>	88	115	140
<i>K</i>	195	280	355

The required clearance height: $H_F = H + 15\text{mm}$ (with 0.3kg/m fill weight)

Mounting brackets, polymer one-piece | Locking



Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
10.	080.10.12PZ	080.10.12P	-	18.2	1
16.	080.16.12PZ	080.16.12P	-	24.2	2
20.	080.20.12PZ	080.20.12P	-	28.2	2
30.	080.30.12PZ	080.30.12P	22	38.2	3
40.	080.40.12PZ	080.40.12P	32	48.2	4
50.	080.50.12PZ	080.50.12P	42	58.2	5



Possible orientations for assembled mounting brackets. To receive brackets pre-fitted please add index .A1, .A2, .A3 or .A4.

080.40.12PZ.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series



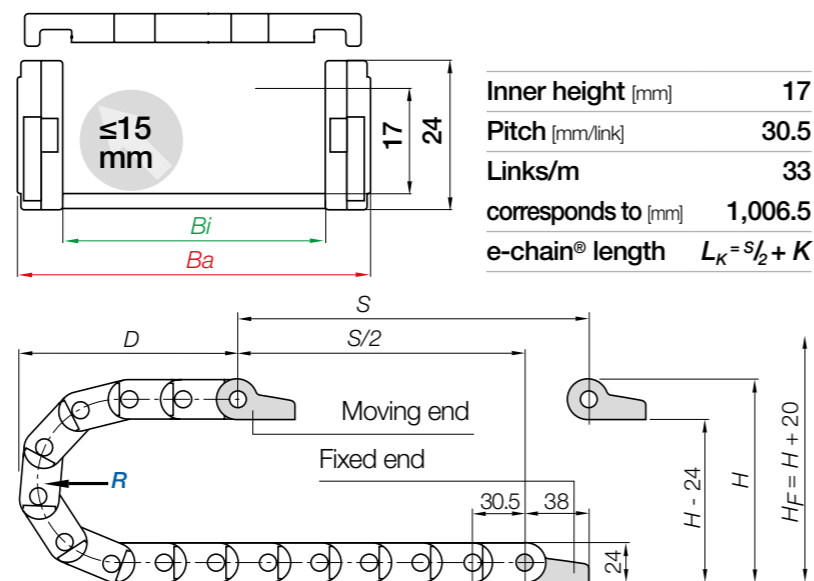
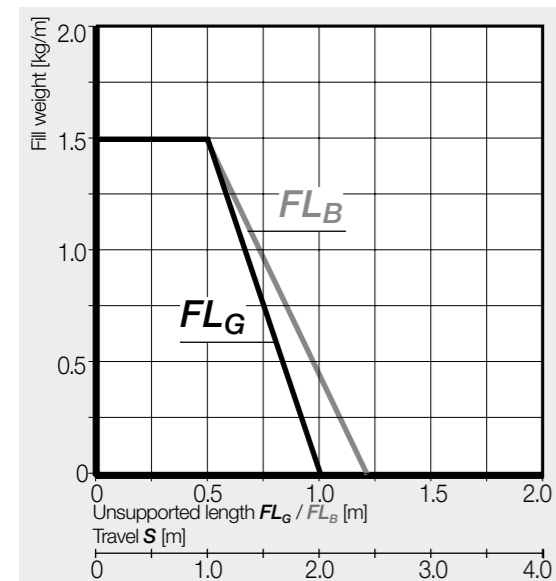
e-chains® | Series 15 | Crossbars on a strip - zip-open along the outer radius

Part No.	Bi	Ba	R Available bend radii									Weight
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
15.015.R.0	15	26	038	048	075	100	110	125	145	180	≈ 0.35	
15.025.R.0	25	36	038	048	075	100	110	125	145	180	≈ 0.40	
15.038.R.0	38	49	038	048	075	100	110	125	145	180	≈ 0.46	
15.050.R.0	50	61	038	048	075	100	110	125	145	180	≈ 0.52	
15.5 .R.0	63	76	038	048	075	100	110	125	145	180	≈ 0.63	
15.6 .R.0	80	94	038	048	075	100	110	125	145	180	≈ 0.70	
15.7 .R.0	100	113	038	048	075	100	110	125	145	180	≈ 0.76	

Before using this series on long travels please consult igus®.

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

Installation dimensions

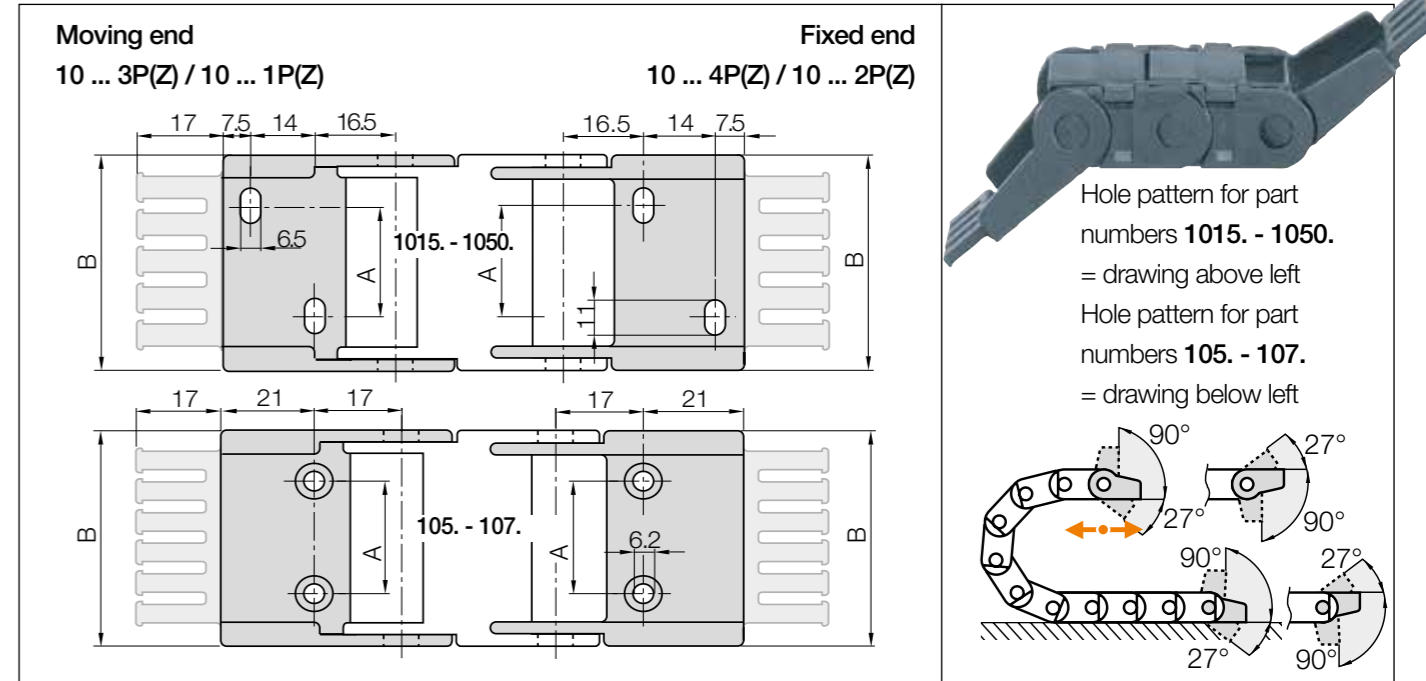


R	038	048	075	100	110	125	145	180
H	99	119	173	223	243	273	313	383
D	95	105	132	157	167	182	202	237
K	185	215	300	380	410	455	520	630

The required clearance height: $H_F = H + 20\text{mm}$ (with 1.0kg/m fill weight)

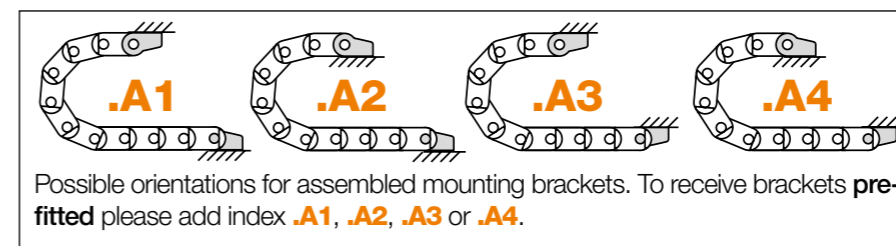


► 1241



Hole pattern for part numbers 1015. - 1050. = drawing above left
Hole pattern for part numbers 105. - 107. = drawing below left

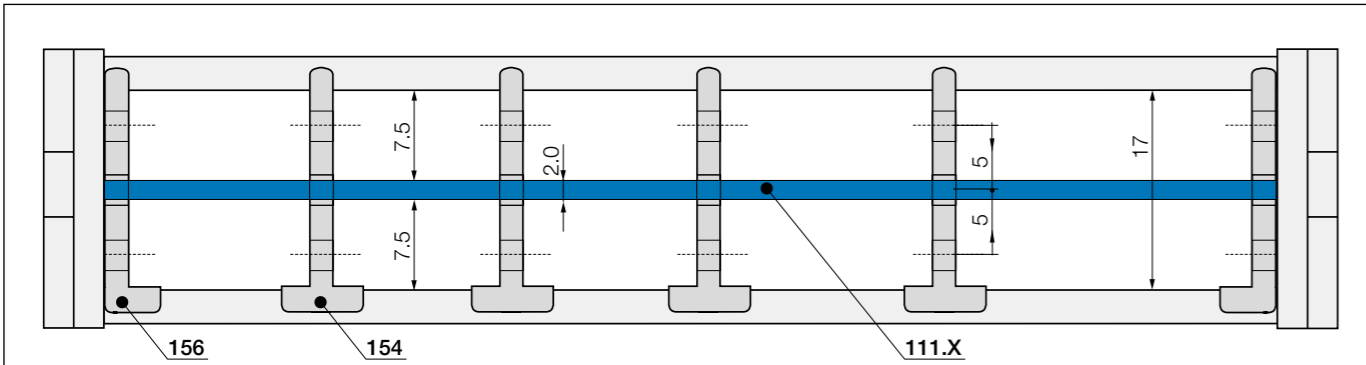
Width index	Standard	Part No. full set pivoting		Part No. full set locking		A [mm]	B [mm]	Number of teeth
		with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
015. ►		1015.34PZ	1015.34P	1015.12PZ	1015.12P	-	25.5	2
025. ►		1025.34PZ	1025.34P	1025.12PZ	1025.12P	10	35.5	3
038. ►		1038.34PZ	1038.34P	1038.12PZ	1038.12P	23	48.5	4
050. ►		1050.34PZ	1050.34P	1050.12PZ	1050.12P	35	60.5	5
5. ►		105. 34PZ	105. 34P	105. 12PZ	105. 12P	48	75.0	6
6. ►		106. 34PZ	106. 34P	106. 12PZ	106. 12P	65	92.0	8
7. ►		107. 34PZ	107. 34P	107. 12PZ	107. 12P	85	112.0	10



Possible orientations for assembled mounting brackets. To receive brackets pre-fitted please add index .A1, .A2, .A3 or .A4.

1025.34PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Interior separation



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!

		Slotted separator unassembled 153 assembled 154
--	--	--

Slotted separator
Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.

		Slotted side plate unassembled 155 assembled 156
--	--	---

Slotted side plate
Allows modular shelving right up to the side links. No clearance required!

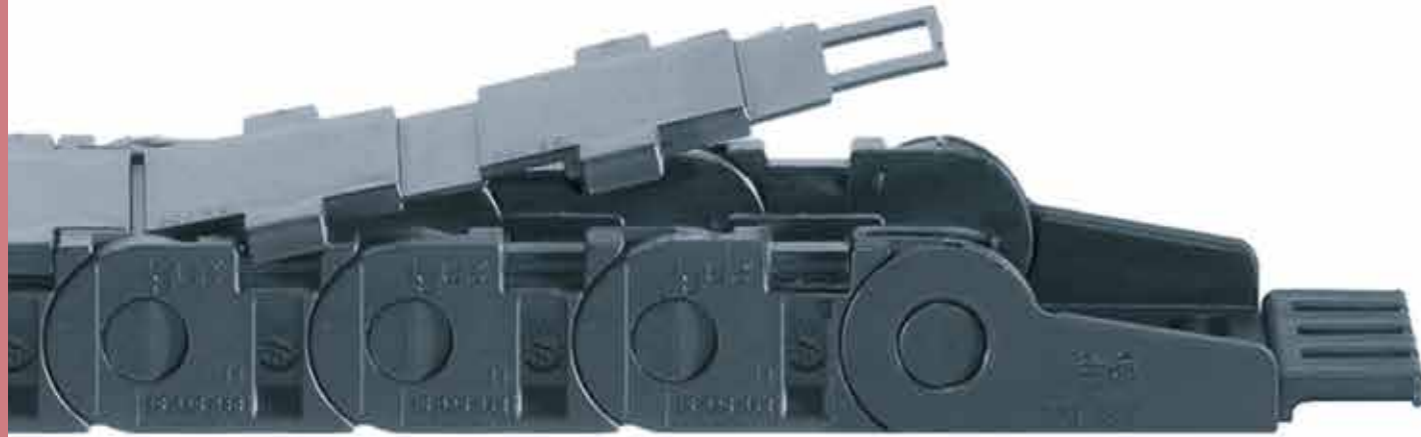
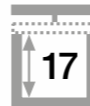
		Full-width shelf for e-chains® unassembled 110.X assembled 111.X
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Full-width shelf
This option is for applications with many small cables with similar diameters. For full width separation.

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



igus® zipper e-chain® series 15 in a special purpose machine for quick cable installation



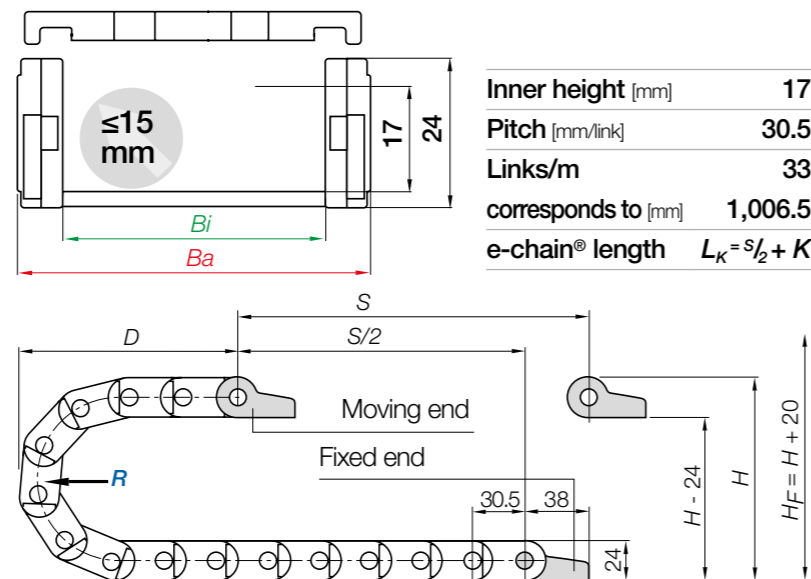
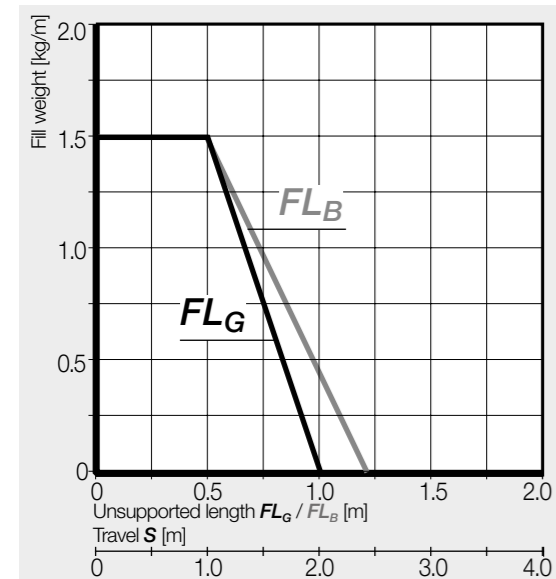
e-tube | Series R15 | Lids on a strip - zip-open along the outer radius

Part No. e-tubes	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii								Weight [kg/m]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
R15.015.R.0*	15	26	063	075	100	110	125	145	180	≈ 0.40	
R15.025.R.0	25	36	063	075	100	110	125	145	180	≈ 0.45	
R15.038.R.0	38	49	063	075	100	110	125	145	180	≈ 0.51	
R15.050.R.0*	50	61	063	075	100	110	125	145	180	≈ 0.57	
R15.063.R.0	63	76	063	075	100	110	125	145	180	≈ 0.68	
R15.080.R.0	80	94	063	075	100	110	125	145	180	≈ 0.75	
R15.100.R.0*	100	113	063	075	100	110	125	145	180	≈ 0.81	

*Width available upon request. Please consult igus® for delivery time. Before using this series on long travels please consult igus®.

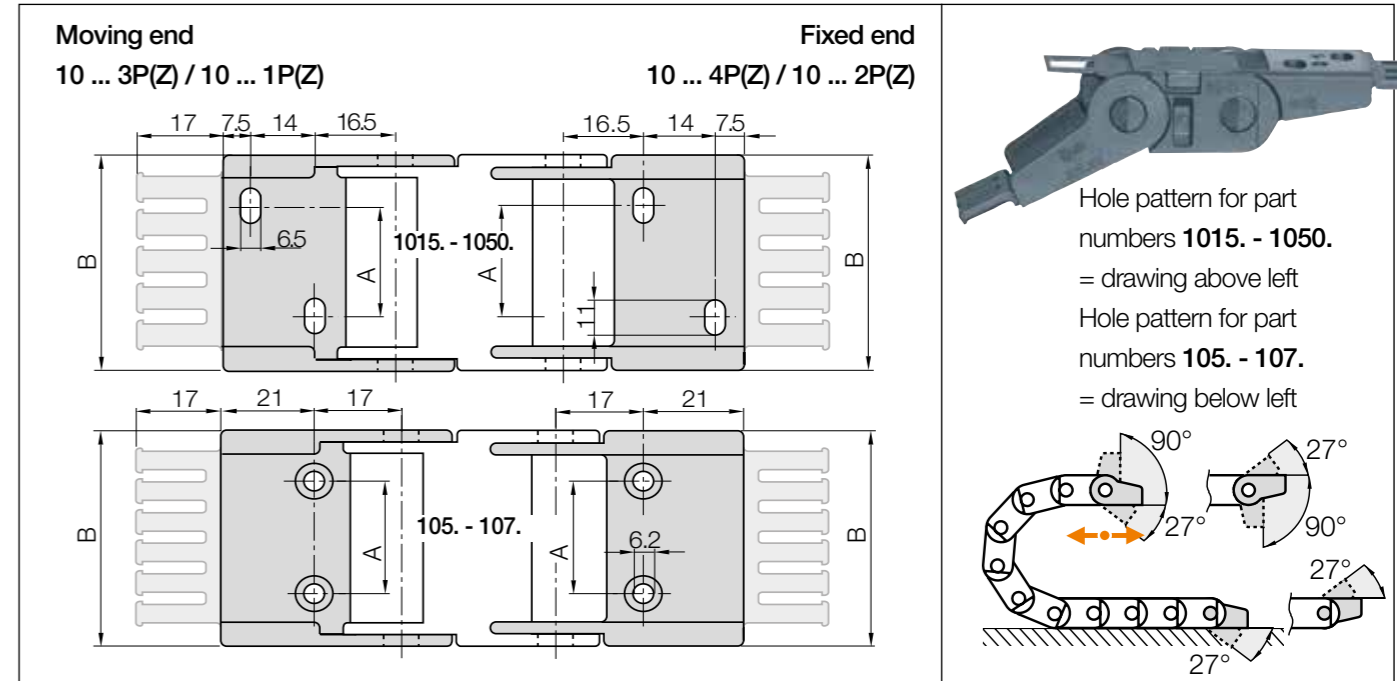
Complete Part No. with required radius (*R*). Example: R15.025.063.0

Installation dimensions

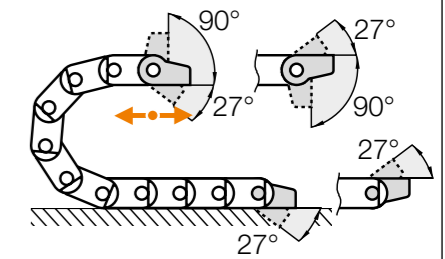


<i>R</i>	063	075	100	110	125	145	180	180
<i>H</i>	149	173	223	243	273	313	383	383
<i>D</i>	120	132	157	167	182	202	237	237
<i>K</i>	260	300	380	410	455	520	630	630

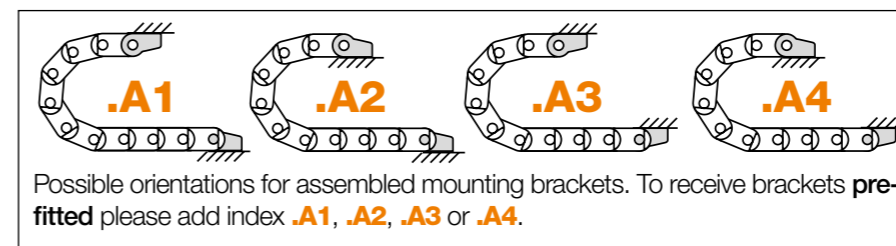
The required clearance height: $H_F = H + 20\text{mm}$ (with 1.0kg/m fill weight)



Hole pattern for part numbers 1015. - 1050. = drawing above left
Hole pattern for part numbers 105. - 107. = drawing below left



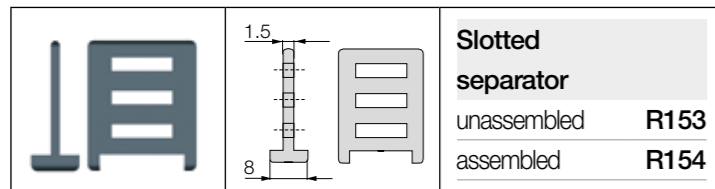
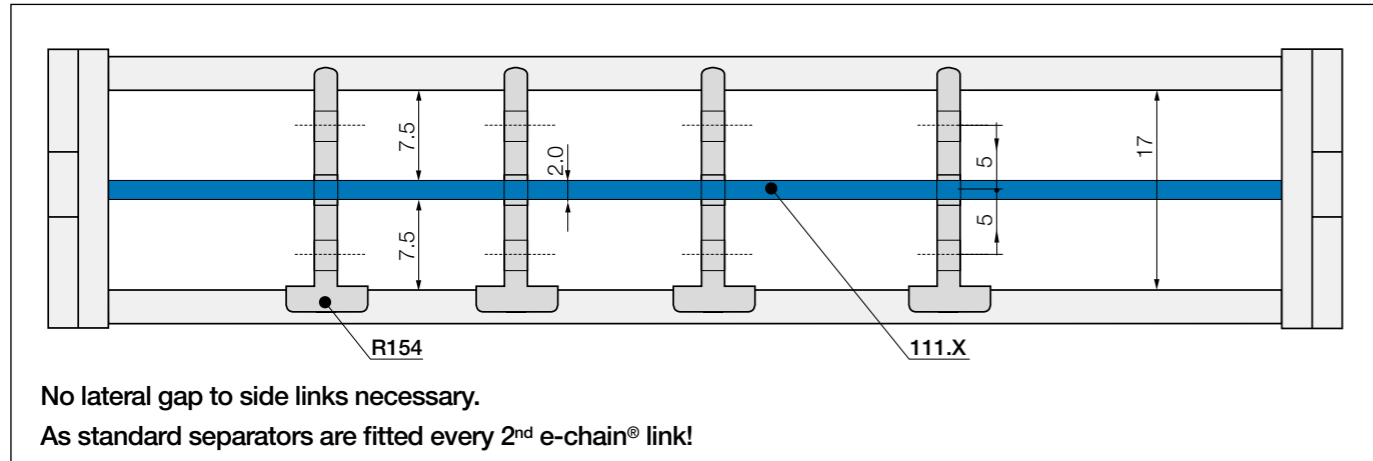
Width index	Standard	Part No. full set pivoting		Part No. full set locking		<i>A</i> [mm]	<i>B</i> [mm]	Number of teeth
		with tiewrap plates	without tiewrap plate	with tiewrap plates	without tiewrap plate			
015.	▶	1015.34PZ	1015.34P	1015.12PZ	1015.12P	-	25.5	2
025.	▶	1025.34PZ	1025.34P	1025.12PZ	1025.12P	10	35.5	3
038.	▶	1038.34PZ	1038.34P	1038.12PZ	1038.12P	23	48.5	4
050.	▶	1050.34PZ	1050.34P	1050.12PZ	1050.12P	35	60.5	5
063.	▶	105. 34PZ	105. 34P	105. 12PZ	105. 12P	48	75.0	6
080.	▶	106. 34PZ	106. 34P	106. 12PZ	106. 12P	65	92.0	8
100.	▶	107. 34PZ	107. 34P	107. 12PZ	107. 12P	85	112.0	10



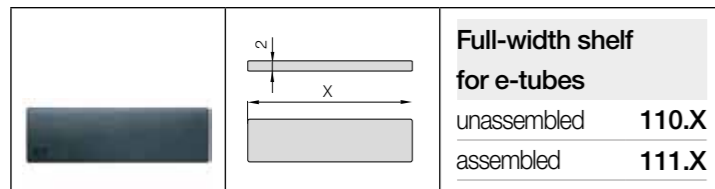
Possible orientations for assembled mounting brackets. To receive brackets pre-fitted please add index .A1, .A2, .A3 or .A4.

1025.34PZ.A1 Order example
.A... to indicate option with brackets pre-fitted
With integrated strain relief tiewrap plates
Full set
Series

Interior separation

**Slotted separator**

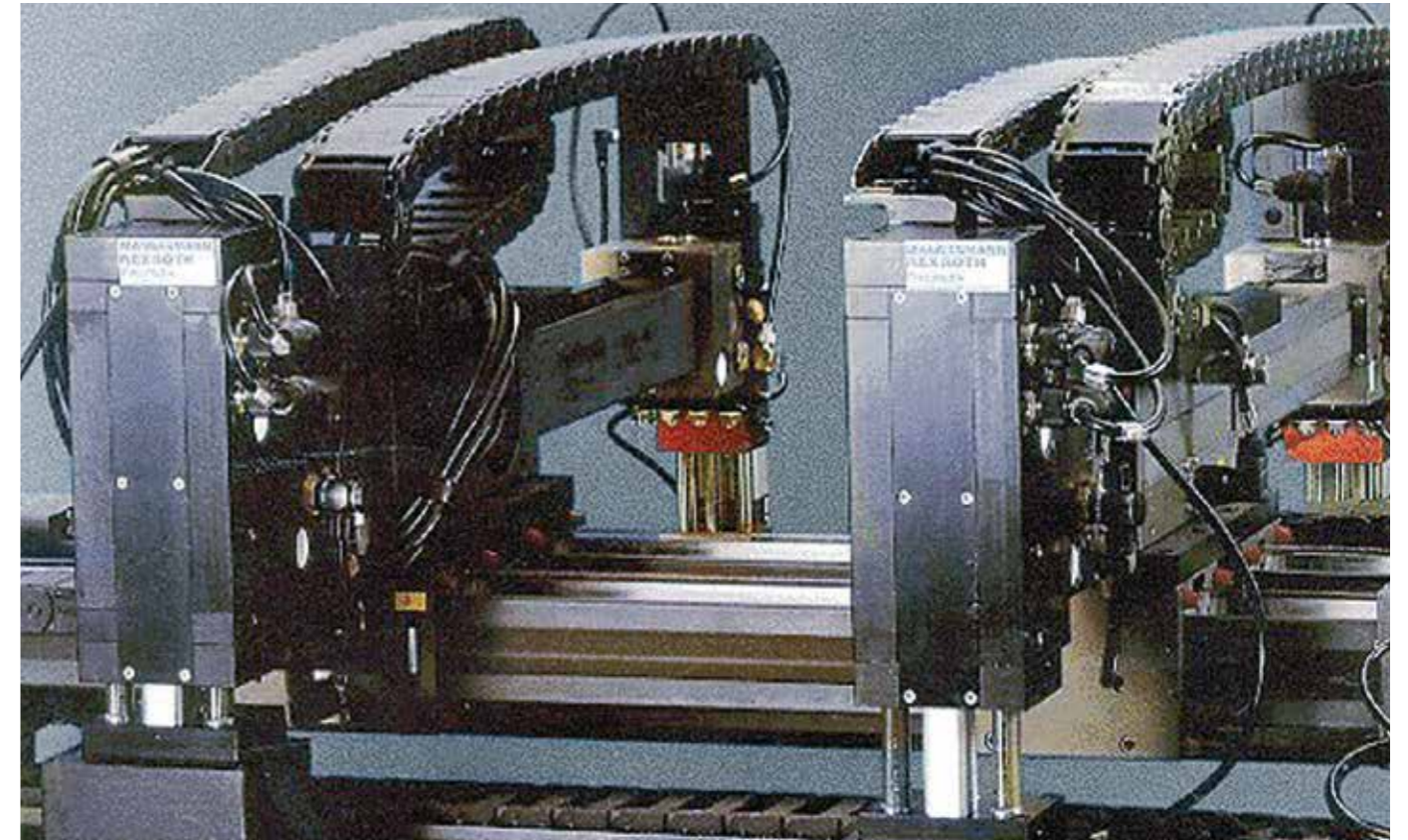
Vertical separation in e-tubes. The slot allows basic vertical/horizontal shelving arrangements.

**Full-width shelf**

This option is for applications with many small cables with similar diameters. For full width separation.

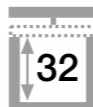
Full-width shelves
Width = X [mm]

X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
025	110.25	111.25	063	110.63	111.63
038	110.38	111.38	080	110.80	111.80



Series 15 on a pick and place machine. Acceleration: 100 m/s², yet smooth running

Fast opening, large inner height

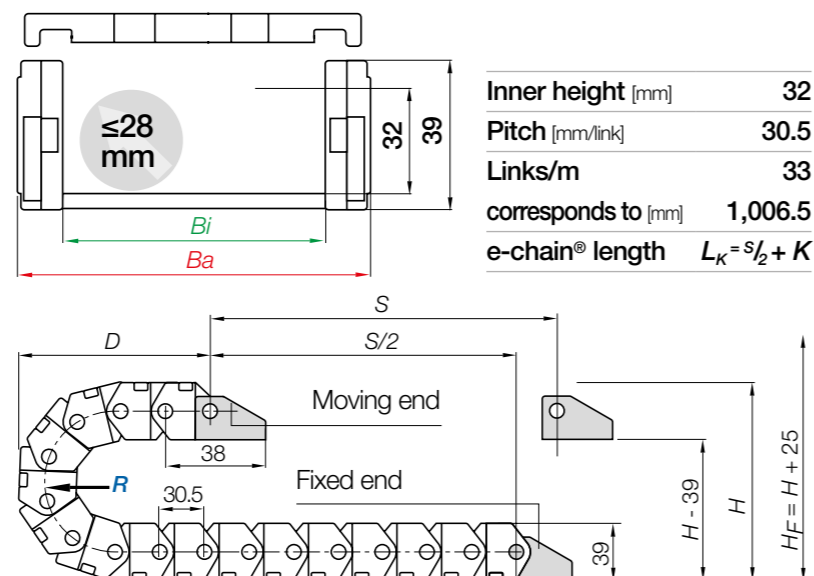
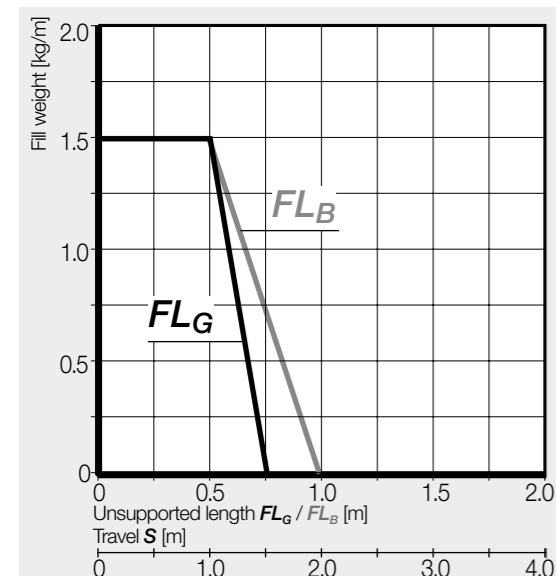


e-chains® | Series 17 | Crossbars on a strip - zip-open along the outer radius

Part No.	Bi		Ba		R Available bend radii				Weight [kg/m]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
17.1.R.0	15	25.5	063	075	100	125			≈ 0.52
17.2.R.0	25	35.5	063	075	100	125			≈ 0.59
17.3.R.0	38	48.5	063	075	100	125			≈ 0.65
17.4.R.0	50	60.5	063	075	100	125			≈ 0.70
17.5.R.0	63	76	063	075	100	125			≈ 0.83
17.6.R.0	80	93	063	075	100	125			≈ 0.92
17.7.R.0	100	113	063	075	100	125			≈ 1.06

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

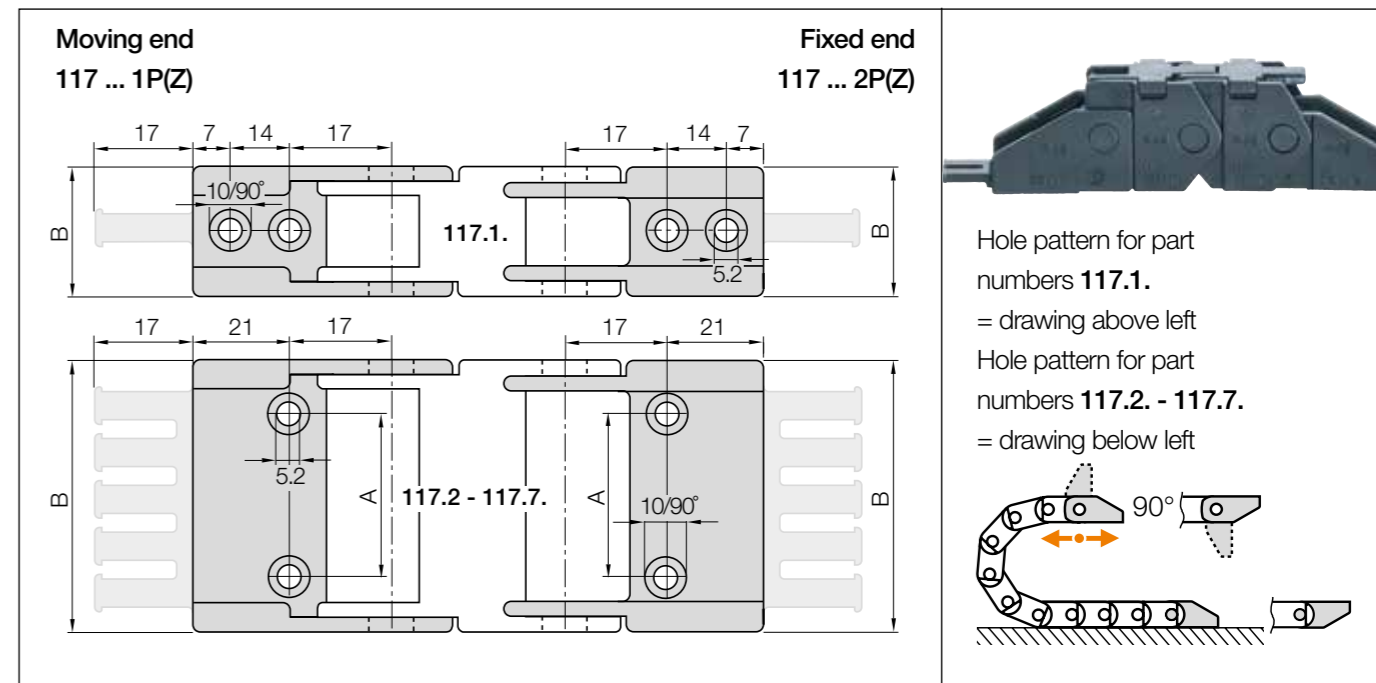
Installation dimensions



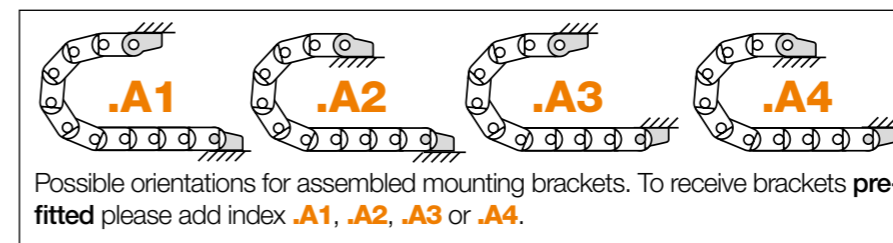
R	063	075	100	125
H	165	189	239	289
D	128	140	165	190
K	260	300	380	455

The required clearance height: $H_F = H + 25\text{mm}$ (with 1.5kg/m fill weight)

Mounting brackets, polymer one-piece | Locking

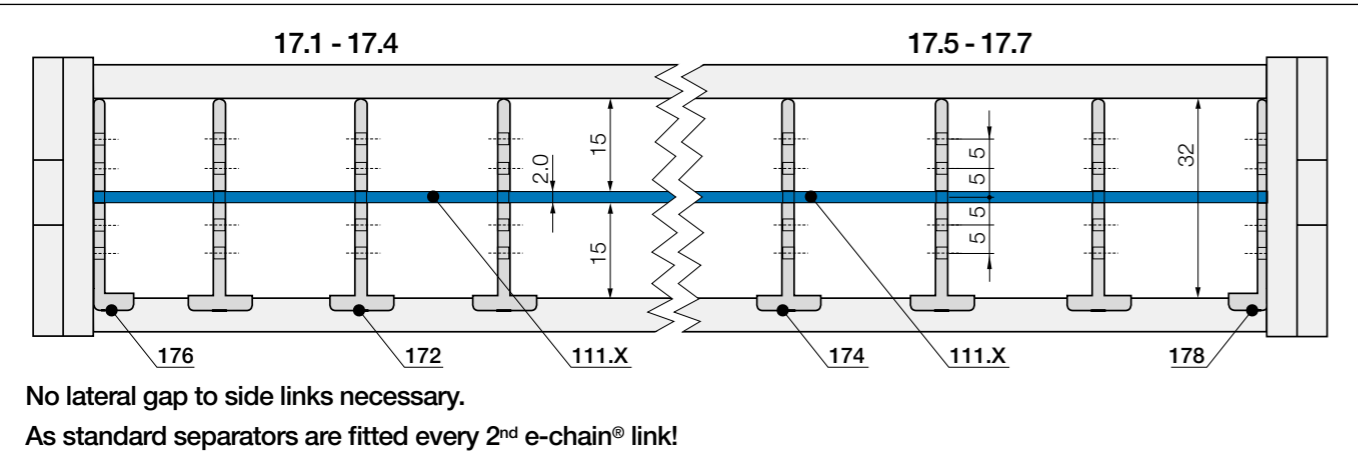


Width index	Standard	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A	B	Number of teeth
				[mm]	[mm]	
1.	▶	117.1.12PZ	117.1.12P	-	25.5	1
2.	▶	117.2.12PZ	117.2.12P	12	35.5	3
3.	▶	117.3.12PZ	117.3.12P	25	48.5	4
4.	▶	117.4.12PZ	117.4.12P	37	60.5	5
5.	▶	117.5.12PZ	117.5.12P	48	76	6
6.	▶	117.6.12PZ	117.6.12P	65	93	8
7.	▶	117.7.12PZ	117.7.12P	85	113	10



117.2.12PZ.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Interior separation



		Slotted separator unassembled 171 assembled 172
--	--	--

For width index 17.1 up to 17.4

Slotted separator

Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.

		Slotted side plate unassembled 175 assembled 176
--	--	---

Slotted side plate

Allows modular shelving right up to the side links. No clearance required!

		Slotted separator unassembled 173 assembled 174
--	--	--

For width index 17.5 up to 17.7

Slotted separator

Vertical separation in e-chains®. The slot allows basic vertical/horizontal shelving arrangements.

		Slotted side plate unassembled 177 assembled 178
--	--	---

Slotted side plate

Allows modular shelving right up to the side links. No clearance required!

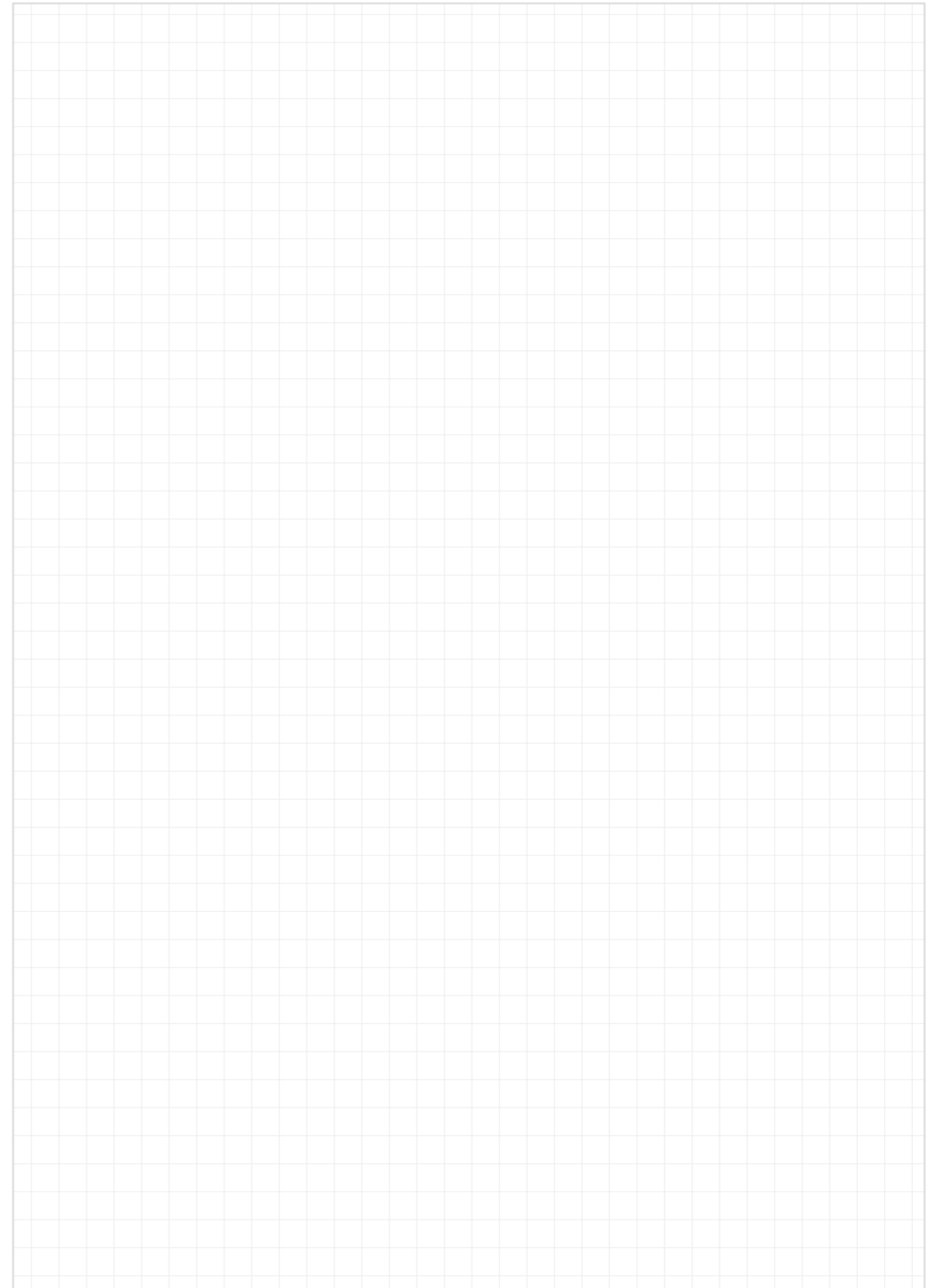
		Full-width shelf for e-chains® unassembled 110.X assembled 111.X
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For all widths

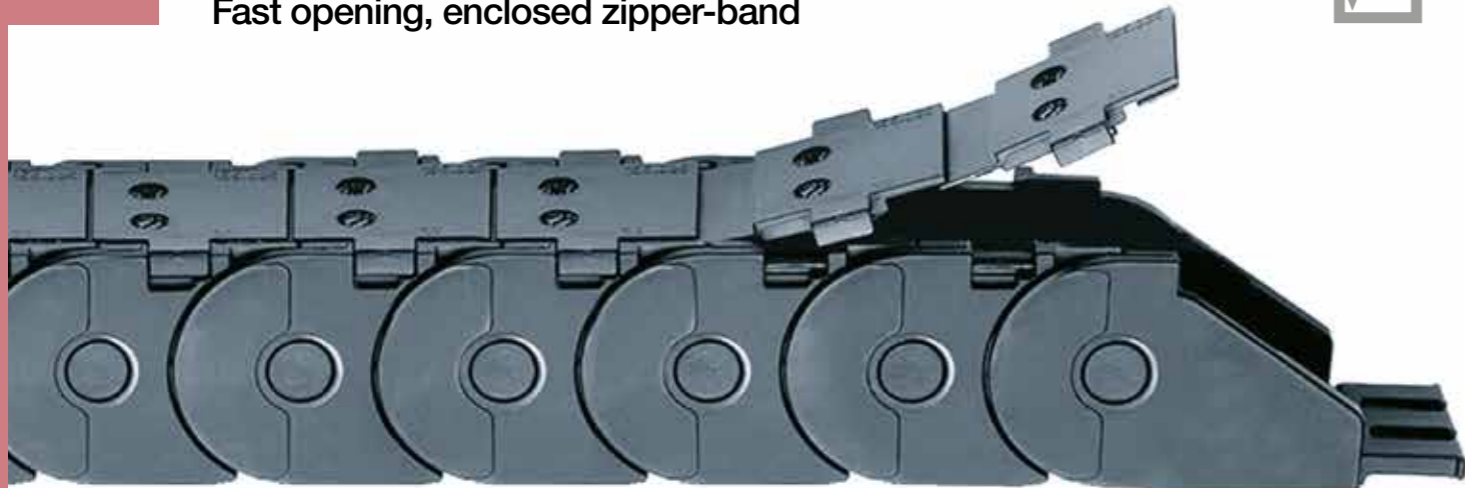
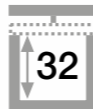
Full-width shelf

This option is for applications with many small cables with similar diameters. For full width separation.

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



Fast opening, enclosed zipper-band

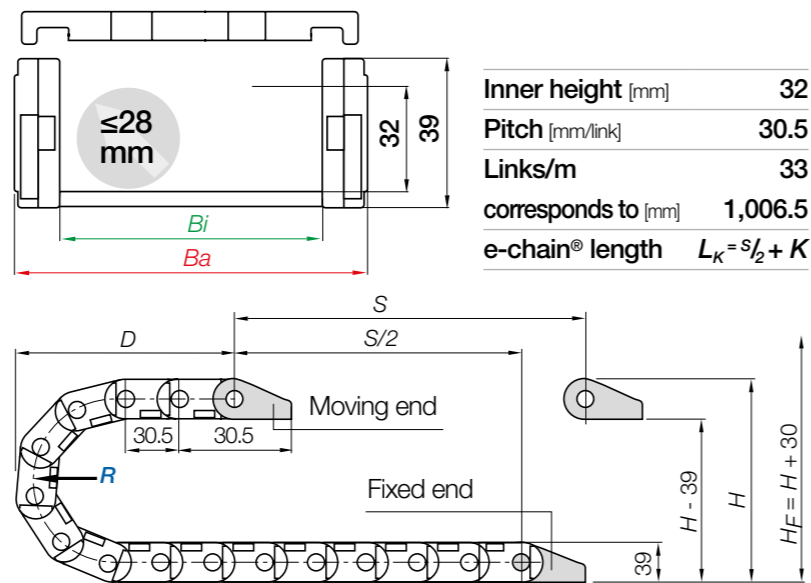
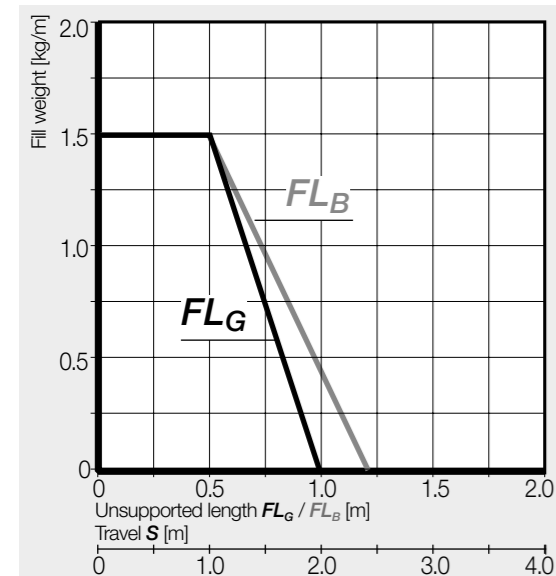


e-tube | Series R17 | Lids on a strip - zip-open along the outer radius

Part No. e-tubes	<i>Bi</i>	<i>Ba</i>	<i>R</i> Available bend radii				Weight [kg/m]
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
R17.015 .R.0	15	26	063	075	100	125	≈ 0.57
R17.025 .R.0	25	36	063	075	100	125	≈ 0.64
R17.063 .R.0	63	74	063	075	100	125	≈ 0.88

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

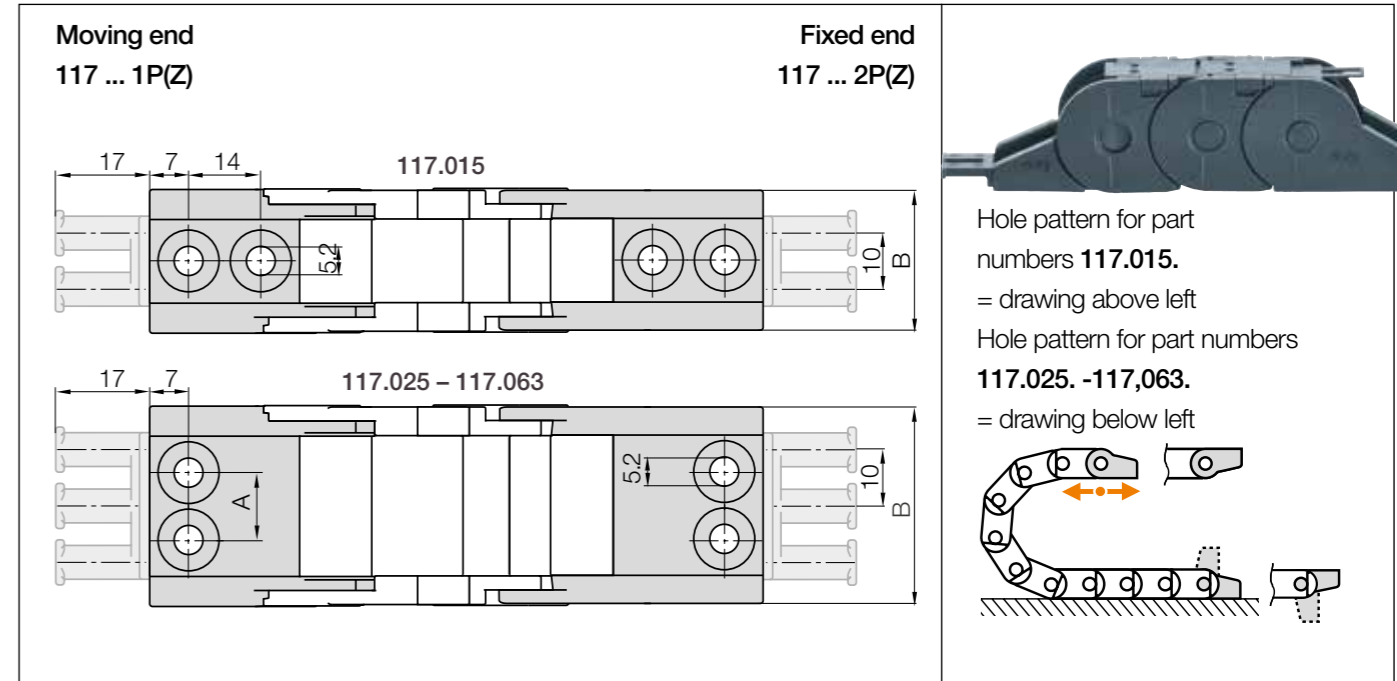
Installation dimensions



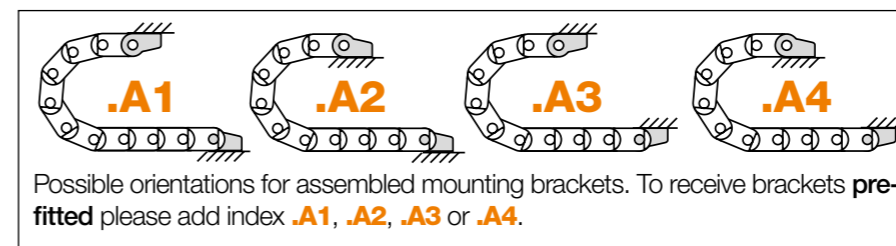
<i>R</i>	063	075	100	125
<i>H</i>	165	189	239	289
<i>D</i>	128	140	165	190
<i>K</i>	260	300	380	455

The required clearance height: $H_F = H + 30\text{mm}$ (with 1.0kg/m fill weight)

Mounting brackets, polymer one-piece | Locking

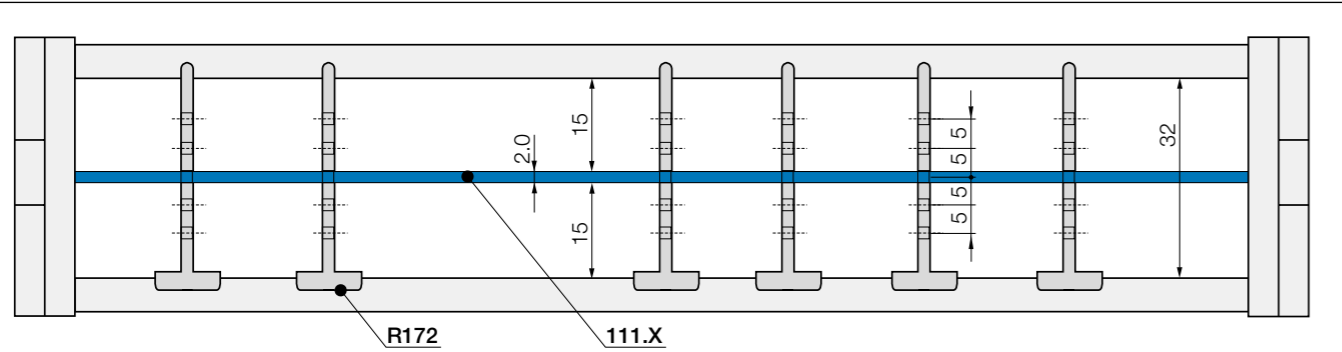


Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	Number of teeth
015. ►	117.015.12PZ	117.015.12P	-	25.7	2
025. ►	117.025.12PZ	117.025.12P	12	35.7	3
063. ►	117.063.12PZ	117.063.12P	48	73.7	6



117.015.12PZ.A1 Order example
 .A... to indicate option with brackets pre-fitted
 With integrated strain relief tiewrap plates
 Full set
 Series

Interior separation



No lateral gap to side links necessary.
As standard separators are fitted every 2nd e-chain® link!

		Slotted separator unassembled R171 assembled R172
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Slotted separator
Vertical separation in e-tubes. The slot allows basic vertical/horizontal shelving arrangements.

		Full-width shelf for e-tubes unassembled 110.X assembled 111.X
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Full-width shelf
This option is for applications with many small cables with similar diameters. For full width separation.

Full-width shelves Width = X [mm]	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
		015	110.15	111.15	063	110.63
	025	110.25	111.25			

