



Price index



IPA Qualification Certificate:
Air Cleanless Class ISO Class 2
(at $v = 1$ m/s) upon request



UL94-V2 classifications



Torsional
motion possible



Smallest inner heights 5 mm:
Series E03 Easy Chain®



Just push the cables with your thumb
into the E-Chain® - and it's ready



When to use the Series E03:

- If filling is required without opening and closing lids
- If price is an issue
- If quiet operation is required



When not to use it:

- Applications with very high loads and long unsupported lengths
 - ▶ Series 04 E2 micro, page 5.14
- If a E-Chain® is needed, which is not to open
 - ▶ Series 03 E2 micro, page 5.10

- ❶ igus® smallest E-Chain® - interior dimensions 5 x 5 mm
- ❷ Very easy to fill - ideal for harnessed cable assemblies, without opening and closing lids
- ❸ Mounting bracket with integrated strain relief
- ❹ Small pitch for low-noise, smooth operation
- ❺ Very light weight - ideal for low fill weight
- ❻ For smallest bending radii Chainflex® CF98/CF99 - 4 x d!
- ❼ Low price
- ❽ The patented push-button principle holds the links together



Adapter plate
for rapid installation



Order example complete E-Chain®

Please indicate chain-lengths or number of links **Example: 1 m or 100 links**

1 m E03.05.010.0



E-Chain®

1 set E03.05.12Z



Mounting bracket

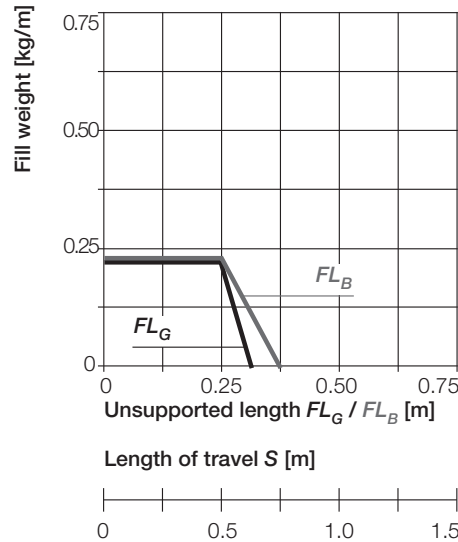
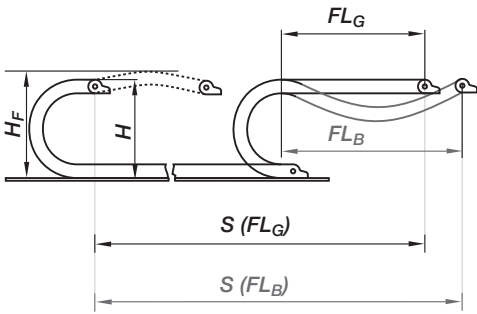


Unsupported length

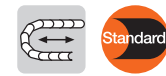
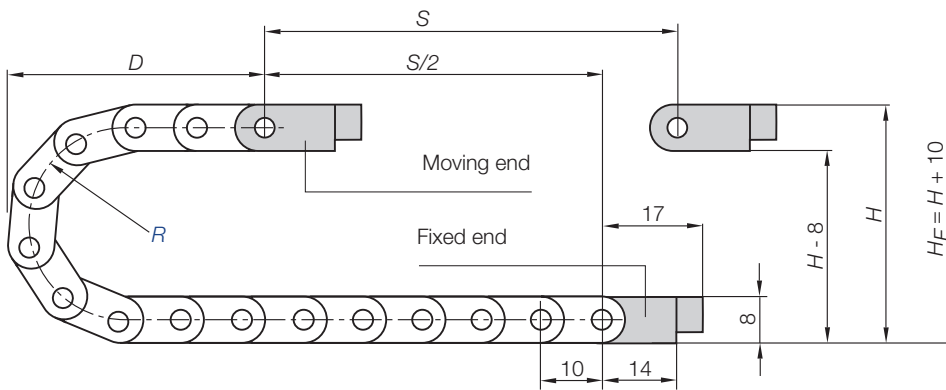
FL_G = with straight upper run

FL_B = with permitted sag

Further information ► **Design, page 1.12**



- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- H_F = Required clearance height
- D = Overlength E-Chain® radius in final position
- $K = \pi \cdot R + \text{"safety"}$



Short travels - unsupported

Unsupported E-Chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted.

Pitch = 10 mm/link Links/m = 100 (1.000 mm) Chain length = $S/2 + K$

R	010	012	015	018	028
H	30	34	40	46	66
D	25	27	30	33	43
K	55	60	70	80	110

The required clearance height:
 $H_F = H + 10 \text{ mm}$
 (with 0,1 kg/m fill weight)

Speed / acceleration FL_G	max. 20 [m/s] / max. 200 [m/s ²]
Speed / acceleration FL_B	max. 3 [m/s] / max. 6 [m/s ²]
Gliding speed / acceleration (maximum)	max. 3 [m/s] / max. 10 [m/s ²]
Material (E-Chain®)- permitted temperature °C	igumid NB / -40° up to +80° C
Material (mounting brackets)* - permitted temperature °C	igumid G / -40° up to +120° C
Flammability class (E-Chain®), igumid NB	VDE 0304 IIC UL94 V2
Flammability class (mounting brackets), igumid G*	VDE 0304 IIC UL94 HB

*Available in igumid NB upon request, please consult igus® for delivery time

Technical Data

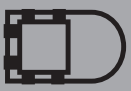


Details of material properties
 ► page 1.38

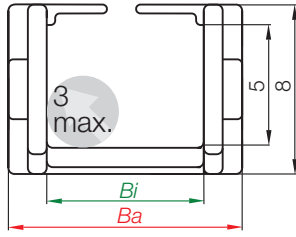


Easy Chain®
 Inner height: 5 mm

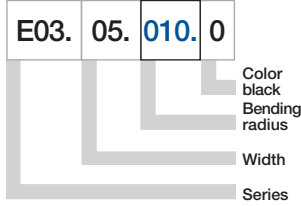
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 Fax +49- (0) 22 03-96 49-222



► page 3.5



Part No. structure



Series E03 - split crossbar along the outer radius

Part No.	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> [mm]	Bending radii					Weight [kg/m]
E03.05. <input type="text"/> .0	5	8,7	<input type="text" value="010"/>	<input type="text" value="012"/>	<input type="text" value="015"/>	<input type="text" value="018"/>	<input type="text" value="028"/>	≈ 0,03	
E03.07. <input type="text"/> .0	7	10,7	<input type="text" value="010"/>	<input type="text" value="012"/>	<input type="text" value="015"/>	<input type="text" value="018"/>	<input type="text" value="028"/>	≈ 0,04	
E03.10. <input type="text"/> .0	10	13,7	<input type="text" value="010"/>	<input type="text" value="012"/>	<input type="text" value="015"/>	<input type="text" value="018"/>	<input type="text" value="028"/>	≈ 0,05	

Ba: pin dimension approx. 0,1 - 0,3 mm wider!

Supplement Part No. with required radius. Example: E03.05. .0

0 = standard color, other colors ► page 1.39 · Pitch = 10 mm/link - Links/m = 100

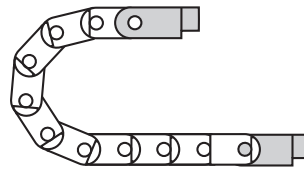




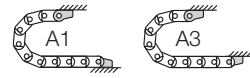
Polymer, one-piece

- One-piece mounting bracket
- Corrosion-resistant
- Available preassembled
- Inner and outer attachment possible
- Adapter plate for rapid installation

Moving end with bore
(outer link) 03...1Z

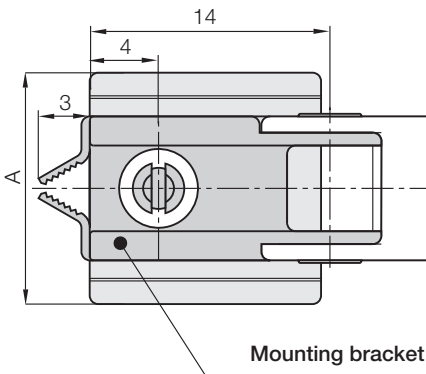


03...2Z Fixed end
with pin (inner link)



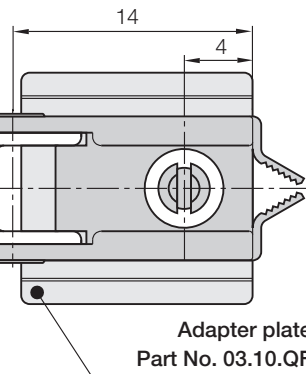
Possible installation conditions for assembled mounting brackets ▶ Order example "preassembled" below

03...1Z
Moving end



Mounting bracket

03...2Z
Fixed end



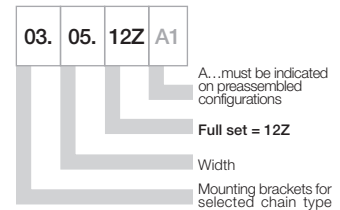
Adapter plate
Part No. 03.10.QF

Dimensions and order configurations

For E-Chain®	Part No. full set	Dim. A [mm]
E03.05. ▶	03.05. 12Z	8,7
E03.07. ▶	03.07. 12Z	10,7
E03.10. ▶	03.10. 12Z	13,7

For the **preassembled** mode please add the index **A1** or **A3** e.g. 03.05. 12Z A1

Part No. structure



Full set, for both ends:

03. 05. 12Z

Single-part order:

03. 05. 1Z

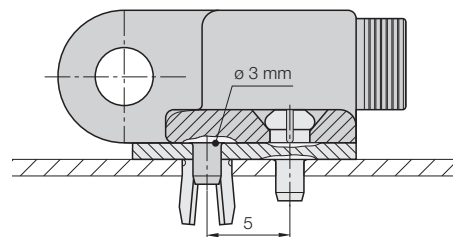
Mounting bracket with bore

03. 05. 2Z

Mounting bracket with pin

03.10.QF = Adapter plate for all sizes

The adapter has broken edges, so that it can be adapted to the respective chain width. It is not absolutely necessary for attaching the mounting brackets. The mounting brackets can also be screwed on without the adapter plate.



Adapter plate for rapid installation upon request Part No. 03.10.QF

Additional Features

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