

E2 micro | Series 04

● ● ● Price index



IPA Qualification Certificate:
Cleanroom test
upon request



Special equipment:
Electrically conductive ESD/ATEX
version upon request



UL94-V2 classifications
upon request



Easy to assemble and to disassemble



When to use the Series 04:

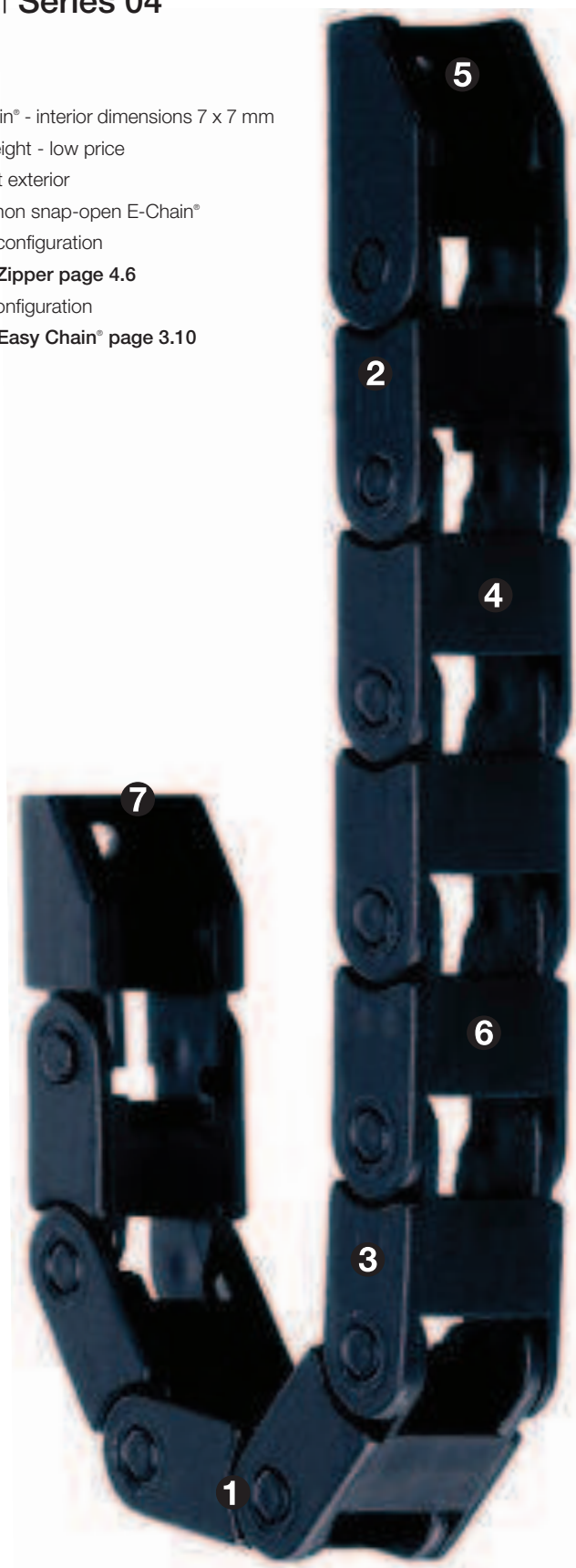
- If quiet operation is required
- If price is an issue
- If snap-open links are not necessary
- If small bending radii are required



When not to use it:

- If snap-open links are required
 - ▶ Series 047 Zipper, page 4.6
- If quick insertion of cables with preassembled connectors is required
 - ▶ Series E04 Easy Chain®, page 3.10

- ① Small E-Chain® - interior dimensions 7 x 7 mm
 - ② Very light weight - low price
 - ③ Dirt-repellent exterior
 - ④ One-piece, non snap-open E-Chain®
 - ⑤ Snap-open configuration
- ▶ Series 047 Zipper page 4.6
- ⑥ Easy to fill configuration
- ▶ Series E04 Easy Chain® page 3.10



Order example complete E-Chain®

Please indicate chain-lengths or number of links Example: 1 m or 60 links

1 m 04.07.038.0



E-Chain®

1 set 040.07.12

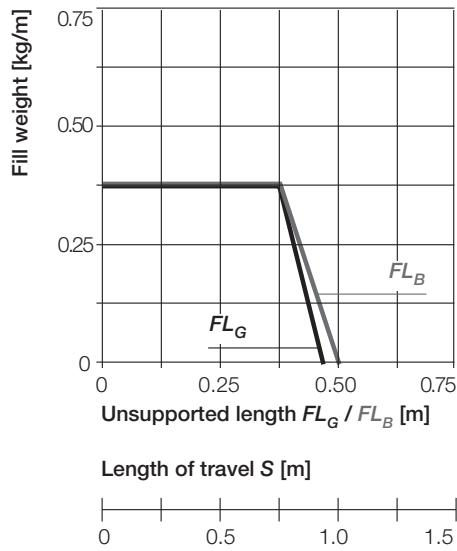
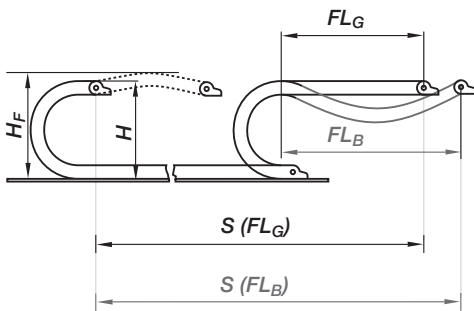


Mounting bracket

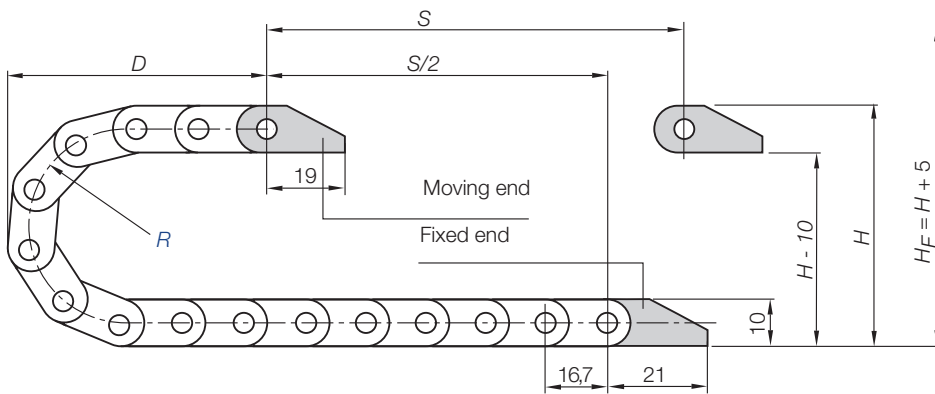


Unsupported length

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 = 16,7 mm/link Links/m = 60 (1.002 mm) Chain length = $S/2 + K$

R	015	018	028	038	048
H	42	48	68	88	108
D	40	40	50	60	70
K	80	90	125	155	185

The required clearance height:
 $H_F = H + 5 \text{ mm}$
 (with 0,1 kg/m fill weight)



E2 micro
 Inner height: 7 mm

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



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 - permitted temperature °C	igumid G / -40° up to +120° C
Flammability class, igumid G	VDE 0304 IIC UL94 HB

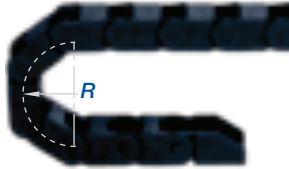
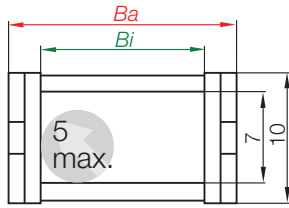
Technical Data



Details of material properties
 ► page 1.38



► page 5.9



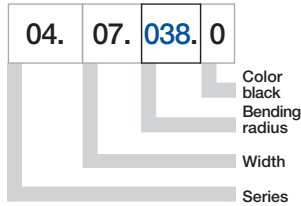
Series 04 E-Chain® - non snap-open

Part No.	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> [mm]	Bending radii					Weight [kg/m]
04.07. <input type="text"/> .0	7	12	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,07
04.10. <input type="text"/> .0	10	15	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,08
04.16. <input type="text"/> .0	16	21	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,09
04.20. <input type="text"/> .0	20	25	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,10
04.30. <input type="text"/> .0	30	35	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,11

Supplement Part No. with required radius. Example: 04.07. .0

0 = standard color, other colors ▶ page 1.39 · Pitch = 16,7 mm/link - Links/m = 60

Part No. structure

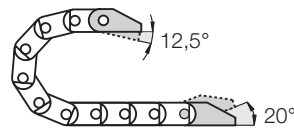




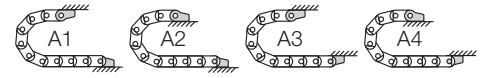
Polymer, one-piece

- One-piece mounting bracket
- Corrosion-resistant
- Available preassembled
- Inner and outer attachment possible

Moving end with bore
(outer link) 040...1(PZ)

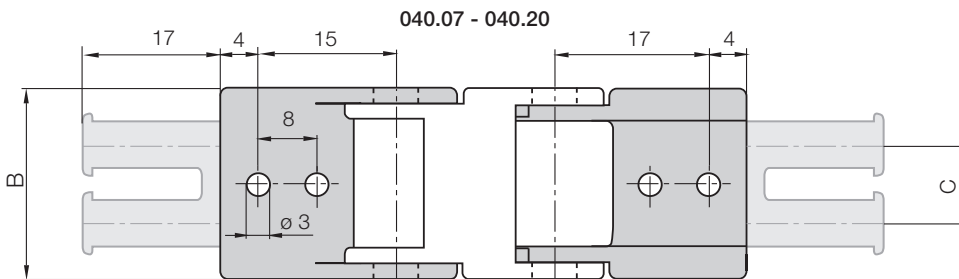


040...2(PZ) Fixed end
with pin (inner link)

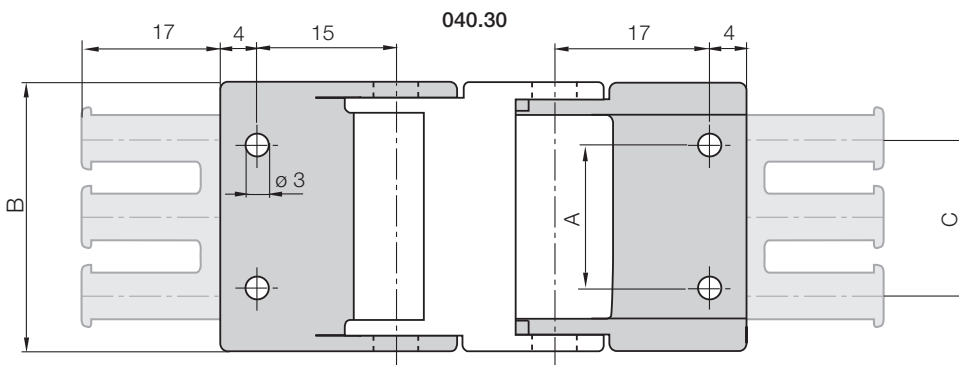


Possible installation conditions for assembled mounting brackets ▶ Order example "preassembled" below

040...1(PZ)
Moving end



040...2(PZ)
Fixed end

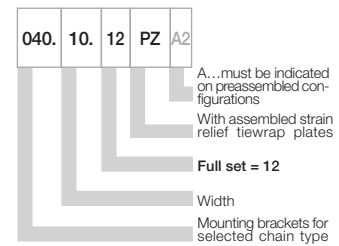


Dimensions and order configurations

For E-Chain®	Part No. full set	Part No. full set	Number of teeth	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]
04.07. ▶	040.07. 12 PZ	040.07. 12	1	-	13	-
04.10. ▶	040.10. 12 PZ	040.10. 12	1	-	15	-
04.16. ▶	040.16. 12 PZ	040.16. 12	2	-	21	10
04.20. ▶	040.20. 12 PZ	040.20. 12	2	-	25	10
04.30. ▶	040.30. 12 PZ	040.30. 12	3	22	35	20

For the **preassembled** mode please add the index **A1...A4** e.g. 040.10. 12 PZ **A1**

Part No. structure



Full set, for both ends:

040. 10. 12 PZ +tie-wrap plate

Single-part order:

040. 10. 1 PZ +tie-wrap plate

Mounting bracket **with bore**

040. 10. 2 PZ +tie-wrap plate

Mounting bracket **with pin**



Quicksnap - the complete, detachable mounting unit, upon request **Part No. 040.07.QS**



Quickfix - mounting bracket with dowel, upon request

Additional Features

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