

● ● ● Price index



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



UL94-V2
classifications



Torsional
motion possible



Special equipment:
Electrically conductive ESD/ATEX
version upon request

- ❶ Very easy to fill - ideal for harnessed cable assemblies
- ❷ Small pitch for low-noise, smooth operation
- ❸ For high acceleration
- ❹ Limited torsion tolerance
- ❺ Cable-friendly smooth interior
- ❻ Mounting brackets available
- ❼ The patented push-button principle holds the links together



Special solution -
opening gap 0,8 mm
Part No. E04.07.015.S



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



When to use the Series E04:

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



When not to use it:

- For applications with very high loads and long unsupported travel lengths
 - ▶ Series 06 E2 micro, page 5.26
- If a E-Chain® is needed, which is not to open
 - ▶ Series 06 E2 micro, page 5.26



Order example complete E-Chain®

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

1 m E04.07.038.0



E-Chain®

1 set 040.07.12

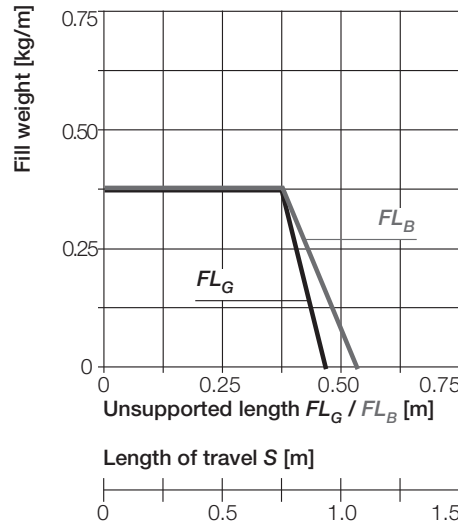
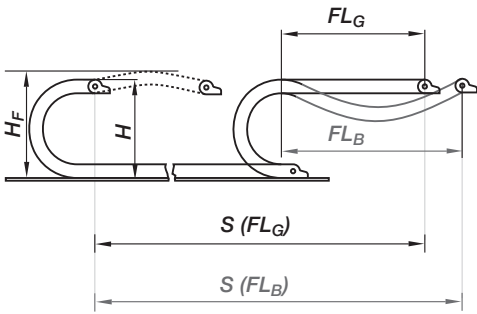


Mounting bracket

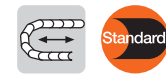
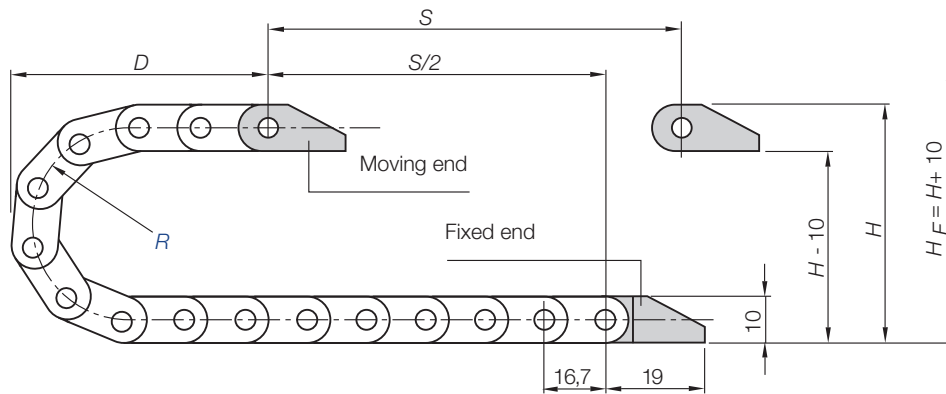


Unsupported length

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	37	40	50	60	70
K	80	90	125	155	185

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

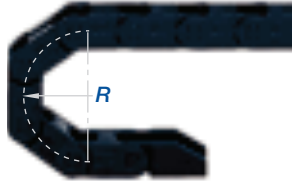
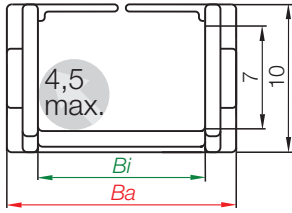


Easy Chain®
 Inner height: 7 mm

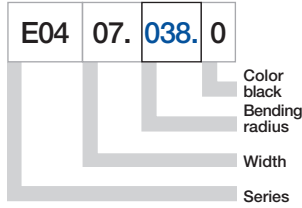
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 Fax +49- (0) 22 03-96 49-222



► page 3.5



Part No. structure



Series E04 - 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]
E04.07. <input type="text"/> .0	7	13	<input type="text" value="015"/>	<input type="text" value="018"/>	<input type="text" value="028"/>	<input type="text" value="038"/>	<input type="text" value="048"/>	≈ 0,08	

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

Supplement Part No. with required radius. Example: E04.07. .0

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

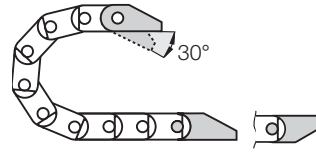




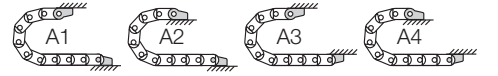
Polymer, one-piece

- One-piece mounting bracket
- Corrosion-resistant
- Available preassembled

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



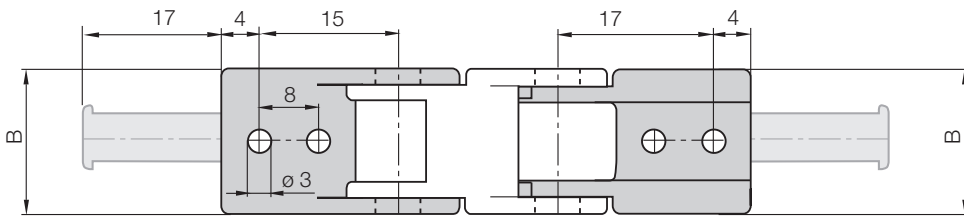
040...2(PZ) Fixed end
with pin (inner link)



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

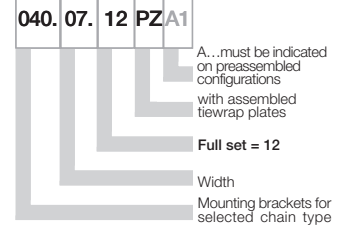
040...1(PZ)
Moving end

040...2(PZ)
Fixed end



Dimensions and order configurations

Part No. structure



Full set, for both ends:

040.07.12.PZ +tiewrap plate

Single-part order:

040.07.1.PZ +tiewrap plate

Mounting bracket with bore

040.07.2.PZ +tiewrap plate

Mounting bracket with pin

For E-Chain®	Part No. full set with tiewrap plate	Part No. full set without tiewrap plate	Number of teeth	Dim. B [mm]
E04.07. ►	040.07.12.PZ	040.07.12	1	12

For the **preassembled** mode please add the index **A1 ... A4** e.g. 040.07.12.PZ **A1**

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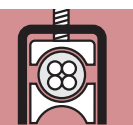
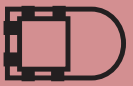


Quicksnap - the complete, detachable mounting unit, available upon request



Quickfix - mounting bracket with dowel, available upon request

Additional Features



► page 3.5