e-chain system® E2 Micro Series 04

Features & Benefits

1. Very lightweight - low price
2. One-piece, non-snap-open e-chain®
3. Small e-chain® - interior dimensions .28” x .28” (7 x 7 mm)
4. Dirt-repellant exterior

Assembly Tips

Easy to assemble and disassemble

Usage Guidelines

+ If quieter operation is required
+ If cost is a factor
+ If snap-open links are not necessary

- If snap-open links are required
  ➤ Series 047 “Zipper”
- If quick insertion of cables with preassembled connector is required
  ➤ Series E04 E-Z Chain

Order Example: Complete e-chain®
Please indicate chain length or number of links. Example:

3.28 ft (1 m) 04-07-038-0
e-chain®

1 Set 040-07-12
Mounting Bracket
e-chain system® E2 Micro Series 04
Installation Dimensions

Short travel, unsupported length
- FL_B = unsupported with permitted sag
- FL_G = unsupported with straight upper run
Further information ➤ Design, Chapter 1

The required clearance height: HF = H + .20 in. (5 mm) (with .067 lbs/ft (0.1 kg/m) fill weight.
Please consult igus® if space is particularly restricted.

<table>
<thead>
<tr>
<th>R</th>
<th>.59 (015)</th>
<th>.71 (018)</th>
<th>1.10 (028)</th>
<th>1.50 (038)</th>
<th>1.89 (048)</th>
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</thead>
<tbody>
<tr>
<td>H</td>
<td>1.57 (40)</td>
<td>1.81 (48)</td>
<td>2.60 (66)</td>
<td>3.39 (86)</td>
<td>4.17 (106)</td>
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<tr>
<td>D</td>
<td>1.77 (45)</td>
<td>1.89 (48)</td>
<td>2.28 (58)</td>
<td>2.66 (68)</td>
<td>3.07 (78)</td>
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<tr>
<td>K</td>
<td>3.35 (85)</td>
<td>3.54 (90)</td>
<td>4.92 (125)</td>
<td>6.10 (155)</td>
<td>7.28 (185)</td>
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</tbody>
</table>

Speed / acceleration FL_G max. 65.6 ft/s (20 m/s) / max. 656 ft/s² (200 m/s²)
Speed / acceleration FL_B max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s² (6 m/s²)
Girling speed / acceleration (maximum) max. 9.84 ft/s (3 m/s) / max. 32.8 ft/s² (10 m/s²)
Material - permitted temperature igumid G / -40°F (-40°C) up to +248°F (+120° C)
Flammability Class, igumid G VDE 0304 IIIC UL94 HB

Legend
- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- D = Overlength e-chain® radius in final position
- K = π • R + safety buffer
HF = Required clearance height

Short Travels - Unsupported

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to Installation dimensions for further details.

Technical Data
Details of material properties ➤ Chapter 1
e-chain system® E2 Micro
Series 04

Series 04 - e-chain® non snap-open

Part Number Structure

<table>
<thead>
<tr>
<th>Color-Black</th>
<th>Bending Radius</th>
<th>Width</th>
<th>Series</th>
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<tr>
<td>04-07-038-0</td>
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</table>

Supplement part number with required radius. Example: 04-07-038-0

Pitch:.66 in. (16.7 mm) per link links/ft (m) = 18.28 (60)

Choose from the radii below for all of the above sizes

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>015</th>
<th>018</th>
<th>028</th>
<th>038</th>
<th>048</th>
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<td>.71 (18)</td>
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<tr>
<td>K</td>
<td>3.35 (85)</td>
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<td>4.92 (125)</td>
<td>6.10 (155)</td>
<td>7.28 (185)</td>
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</table>

0=Standard color black. For other colors see Chapter 1

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Bi in. (mm)</th>
<th>Ba in. (mm)</th>
<th>Weight lbs/ft (kg/m)</th>
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<tr>
<td>04-07-0</td>
<td>.28 (7)</td>
<td>.47 (12)</td>
<td>0.047 (0.07)</td>
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<td>04-10-0</td>
<td>.39 (10)</td>
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<tr>
<td>04-16-0</td>
<td>.63 (16)</td>
<td>.83 (21)</td>
<td>0.060 (0.09)</td>
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<tr>
<td>04-20-0</td>
<td>.79 (20)</td>
<td>.98 (25)</td>
<td>0.067 (0.10)</td>
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<tr>
<td>04-30-0</td>
<td>1.18 (30)</td>
<td>1.38 (35)</td>
<td>0.073 (0.11)</td>
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e-chain system® E2 Micro
Series 04
Mounting Brackets

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

Moving end
040...1Z
12.5°

Fixed end
040...2Z
20°

Possible installation configurations -

Part Number Structure

040-07-12 PZ

With tiewrap plate
Complete Set
Width
Mounting brackets for selected chain type

Full set, for both ends:
040-07-12 PZ

040-07-1 PZ

Single-part order:
040-07-1 PZ

Mounting bracket with bore
040-07-2 PZ

Mounting bracket with pin

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Part No. Full set without Tiewrap Plate</th>
<th>Part No. Full set with Tiewrap plate</th>
<th>Dimension A in.</th>
<th>Dimensions B in. (mm)</th>
<th>Dimension C in. (mm)</th>
<th>Number of Teeth</th>
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<tr>
<td>04-07</td>
<td>040-07-12</td>
<td>040-07-12PZ</td>
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<td>04-16</td>
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<td>040-16-12PZ</td>
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<td>.39 (10)</td>
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<td>04-30</td>
<td>040-30-12</td>
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<td>.87 (22)</td>
<td>1.38 (35)</td>
<td>.79 (20)</td>
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Additional accessories

Quicksnap - the complete, detachable mounting unit, upon request

Only available for the 040-07 e-chain - Part No. 040-07-QS