e-chain system® E-Z chain
Series E08/Z08

Features & Benefits
1. Cable-friendly interior
2. Small pitch for low-noise and smooth operation
3. Lightweight
4. Patented push button design holds the links together
5. Integrated strain relief option
6. Very easy to fill
7. “E” Series features split crossbar along the outer radius
8. “Z” Series features split crossbar along the inner radius
9. Limited torsion tolerance

Assembly Tips
Just push the cables into the e-chain using your thumb

Usage Guidelines
+ If filling is required without opening and closing
+ If price is an issue
+ If quiet operation is required

- “Z” Series is unsuitable for gliding applications
  ➤ Series 09 Zipper

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

3.28 ft (1 m) E08-30-038-0  e-chain®
1 Set 080-30-12PZ  Mounting Bracket
**e-chain system® E-Z chain**
Series E08/Z08

**Installation Dimensions**

Short travel, unsupported length

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

Further information ➤ Design, Chapter 1

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The required clearance height: \( H_F = H + 0.59 \text{ in. (15 mm)} \) (with 0.20 lbs/ft (0.3 kg/m) fill weight.

Please consult igus® if space is particularly restricted.

<table>
<thead>
<tr>
<th>R</th>
<th>1.10 (28)</th>
<th>1.50 (38)</th>
<th>1.89 (48)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>2.95 (75)</td>
<td>3.74 (95)</td>
<td>4.53 (115)</td>
</tr>
<tr>
<td>D</td>
<td>2.68 (68)</td>
<td>3.07 (78)</td>
<td>3.46 (88)</td>
</tr>
<tr>
<td>K</td>
<td>5.12 (130)</td>
<td>6.30 (160)</td>
<td>7.68 (195)</td>
</tr>
</tbody>
</table>

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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)

Gliding speed / acceleration (maximum)
max. 9.84 ft/s (3 m/s) / max. 32.8 ft/s² (10 m/s²)

Material (e-chain®) - permitted temperature
igumid NB / -40°F (-40°C) up to +176°F (+80°C)

Material (mounting brackets)* - permitted temperature
igumid G / -40°F (-40°C) up to +248°F (+120°C)

Flammability Class (e-chain®), igumid NB
VDE 0304 IIC UL94 V2

Flammability Class (mounting brackets), igumid G*
VDE 0304 IIC UL94 HB

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**Legend**

- PDF: igus.com/e-chain-pdfs
- Product information: igus.com/e-chains

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**Technical Data**

Details of material properties ➤ Chapter 1
Series E08 - Split crossbar along the outer radius

Part Number Structure

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E08- 30- 038- 0
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Series Z08 - Split crossbar along the inner radius

Part Number Structure

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Z08- 30- 038- 0
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Supplement part number with required radius. Example: E08-10-038-0

Pitch: .79 in. (20 mm) per link links/ft (m) = 15.24 (50)

### Part Number

<table>
<thead>
<tr>
<th>Split Crossbar Outer Radius</th>
<th>Split Crossbar Inner Radius</th>
<th>Bi (in. (mm))</th>
<th>Ba (in. (mm))</th>
<th>Weight lbs/ft (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E08-10-0</td>
<td>Z08-10-0</td>
<td>-0</td>
<td>.39 (10)</td>
<td>.72 (18.2)</td>
</tr>
<tr>
<td>E08-16-0</td>
<td>Z08-16-0</td>
<td>-0</td>
<td>.63 (16)</td>
<td>.95 (24.2)</td>
</tr>
<tr>
<td>E08-20-0</td>
<td>Z08-20-0</td>
<td>-0</td>
<td>.79 (20)</td>
<td>1.11 (28.2)</td>
</tr>
<tr>
<td>E08-30-0</td>
<td>Z08-30-0</td>
<td>-0</td>
<td>1.18 (30)</td>
<td>1.50 (38.2)</td>
</tr>
<tr>
<td>E08-40-0</td>
<td>Z08-40-0</td>
<td>-0</td>
<td>1.57 (40)</td>
<td>1.90 (48.2)</td>
</tr>
<tr>
<td>E08-50-0</td>
<td>Z08-50-0</td>
<td>-0</td>
<td>1.97 (50)</td>
<td>2.29 (58.2)</td>
</tr>
</tbody>
</table>

Choose from the radii below for all of the above sizes

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>Example: E08-10-038-0</th>
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</thead>
<tbody>
<tr>
<td>R 028</td>
<td>1.10 (28)</td>
</tr>
<tr>
<td>035</td>
<td>1.50 (35)</td>
</tr>
<tr>
<td>048</td>
<td>1.89 (48)</td>
</tr>
<tr>
<td>H 028</td>
<td>2.95 (75)</td>
</tr>
<tr>
<td>035</td>
<td>3.74 (95)</td>
</tr>
<tr>
<td>048</td>
<td>4.53 (119)</td>
</tr>
<tr>
<td>D 028</td>
<td>2.68 (68)</td>
</tr>
<tr>
<td>035</td>
<td>3.07 (78)</td>
</tr>
<tr>
<td>048</td>
<td>3.46 (88)</td>
</tr>
<tr>
<td>K 028</td>
<td>5.12 (130)</td>
</tr>
<tr>
<td>035</td>
<td>6.30 (160)</td>
</tr>
<tr>
<td>048</td>
<td>7.68 (195)</td>
</tr>
</tbody>
</table>

0=Standard color black. For other colors see Chapter 1
e-chain system® E-Z chain
Series E08/Z08
Mounting Brackets

Plastic, one-piece
- One-piece mounting bracket
- Corrosion resistant
- Available preassembled
- Inner and outer attachment possible
- Available with or without integrated strain relief tiewrap plates

Dimensions and order configurations
Strain relief is possible on the moving end and/or the fixed end.

<table>
<thead>
<tr>
<th>Part Number Structure</th>
<th>With assembled strain relief tiewrap plates</th>
<th>Complete Set</th>
<th>Width</th>
<th>Mounting brackets for selected chain type</th>
</tr>
</thead>
<tbody>
<tr>
<td>080-20-12PZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>080-20-11PZ</td>
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<td></td>
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<tr>
<td>080-20-10PZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>080-20-12PZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Full set, for both ends:
- 080-20-12PZ: Full set, each part with pin/bore
- 080-20-11PZ: Mounting bracket with bore
- 080-20-10PZ: Mounting bracket with pin

Single-part order:
- 080-20-12PZ: Center bores only
- 080-30-12 - 080-50-12: Outer bores only

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Part No. Full set with Tiewrap Plate</th>
<th>Part No. Full Set without Tiewrap Plate</th>
<th>Dimension A in.</th>
<th>Dimensions B (mm)</th>
<th>Number of Teeth</th>
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</thead>
<tbody>
<tr>
<td>E08/Z08-10</td>
<td>080-10-12PZ</td>
<td>080-10-12</td>
<td>.72 (18.2)</td>
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<td>1</td>
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<tr>
<td>E08/Z08-16</td>
<td>080-16-12PZ</td>
<td>080-16-12</td>
<td>.95 (24.2)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>E08/Z08-20</td>
<td>080-20-12PZ</td>
<td>080-20-12</td>
<td>1.11 (28.2)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>E08/Z08-30</td>
<td>080-30-12PZ</td>
<td>080-30-12</td>
<td>.87 (22)</td>
<td>1.50 (38.2)</td>
<td>3</td>
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<tr>
<td>E08/Z08-40</td>
<td>080-40-12PZ</td>
<td>080-40-12</td>
<td>1.26 (32)</td>
<td>1.90 (48.2)</td>
<td>4</td>
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<tr>
<td>E08/Z08-50</td>
<td>080-50-12PZ</td>
<td>080-50-12</td>
<td>1.65 (42)</td>
<td>2.29 (58.2)</td>
<td>5</td>
</tr>
</tbody>
</table>

Additional Accessories

Quicksnap - the complete, detachable mounting unit, upon request

Part No.
- 080-20-QS
- 080-30-QS