Series E03 "E-Z Chain"

**Product Range:**
- **Inner Widths (Bi) inches (mm):** .20 (5), .28 (7), .39 (10)
- **Bending Radii (R) inches (mm):** .39 (10), .47 (12), .59 (15), .71 (18), 1.10 (28)
- **Pitch:** .39 (10 mm)/Links = 30.47 links/ft (100 Links/m)

**Unsupported Length**
- FLB = unsupported with permitted sag
- FLG = unsupported with straight upper run

**When to use the Series E03:**
- If filling is required without opening
- If price is an issue
- If quiet operation is required

**When not to use the Series E03:**
- If long unsupported travels are required
- Series 03 "E2 micro", Chapter 4

"E-Z Chain®" is a line of Energy Chains® designed for easy handling. Cables and hoses can be inserted directly into these Energy Chains® through a split, memory-retaining crossbar. The split crossbar is available along the outer radius ("E") of the chain. E-Z Chains are ideal for short-cycle, low-speed applications. Because of its design, this line of Energy Chains® is also capable of handling torque in an application. All "E-Z Chain®" Energy Chains® are made of a fire-retardant material.
**Series E03 “E-Z Chain”**

**E03** (split crossbar along the outer radius)

Installation Dimensions

![Diagram of installation dimensions](image)

- **Pitch:** \( \frac{3}{8} \) (10 mm) per link
- **Links per ft (m):** 30.47 (100)
- **Chain length:** \( \frac{5}{2} + K \)

### Bending Radii for All Widths

- \( R \): .39 (010), .47 (012), .59 (015)
- \( H^* \): 1.18 (30), 1.34 (34), 1.57 (40)
- \( D \): .98 (25), 1.06 (27), 1.18 (30)
- \( K \): 2.17 (55), 2.36 (60), 2.76 (70)

\( R \): .71 (018), 1.10 (028)

\( H^* \): 1.81 (46), 2.60 (66)

\( D \): 1.30 (33), 1.69 (43)

\( K \): 3.15 (80), 4.33 (110)

*The required clearance height is \( H + 10 \) with .067 lbs/ft (0.1 kg/m) fill weight. Please consult igus® if space is particularly restricted.*

#### Mounting Brackets

**Polymer, One Piece**

- One-piece mounting bracket
- Corrosion resistant
- Available pre-assembled
- Rapid installation through adaptor plate

![Mounting brackets](image)

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Part No. (Full Set)</th>
<th>Dimension B (in)</th>
<th>Part No. (03-10-QF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E03-05</td>
<td>03-05-12Z</td>
<td>.34 (8.7)</td>
<td>03...1Z</td>
</tr>
<tr>
<td>E03-07</td>
<td>03-07-12Z</td>
<td>.42 (10.7)</td>
<td>03...2Z</td>
</tr>
<tr>
<td>E03-10</td>
<td>03-10-12Z</td>
<td>.54 (13.7)</td>
<td></td>
</tr>
</tbody>
</table>

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.
Order Example and Technical Data:
Series E03 "E-Z Chain"

Order example

1. Chain selection:

03-05-028-0

- Color
- Radius
- Width
- Chain type

For 2.62 ft (0.8 m) chain, color black, with mounting brackets:
2.62 ft. (0.8 m) E03-05-028-0 and 03-05-12Z

80 links — 30.47 links/ft (100 links/m)

2. Mounting brackets:

03-05-12Z

Full set
Chain width

Technical Data

<table>
<thead>
<tr>
<th>Chain Type</th>
<th>Weight Per Link (oz.)</th>
<th>Weight Per Link (g)</th>
<th>Weight Per Link (lbs/ft)</th>
<th>Weight Per Link (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E03-05</td>
<td>0.014</td>
<td>(≈ 0.4)</td>
<td>0.022</td>
<td>(≈ 0.032)</td>
</tr>
<tr>
<td>E03-07</td>
<td>0.018</td>
<td>(≈ 0.5)</td>
<td>0.027</td>
<td>(≈ 0.040)</td>
</tr>
<tr>
<td>E03-10</td>
<td>0.021</td>
<td>(≈ 0.6)</td>
<td>0.032</td>
<td>(≈ 0.048)</td>
</tr>
</tbody>
</table>

Material (chain) | igumid NB
Material (mounting brackets)* | igumid G
Permitted temperature | -22°F/212°F (-30°C/+100°C)
Gliming speed max. | Conditionally suitable
Unsupported v max. | 32.8 ft/s (10m/s)
Flammability class (chain) | VDE 0304 IIC UL94 V2
Flammability class (mounting brackets)* | VDE 0304 IIC UL94 HB

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

Details of material properties
Design, Chapter 1