Energy Chain System® E-Z Chain Series E26/Z26

Features & Benefits

1. Integrated strain relief option
2. Very easy to fill - cables only have to be pushed in
3. Cable-friendly interior
4. Limited torsion tolerance
5. Large pins for long service life
6. “E” Series features split crossbar along the outer radius
7. Dirt-repellent exterior
8. Patented push button principle holds the links together
9. “Z” Series features split crossbar along the inner radius
10. 1-, 2- or 3-chamber system available

Order Example: Complete Energy Chain®
Please indicate chain length or number of links. Example:

3.28 ft (1 m) E26-07-150-0

1 Set 2607-34PZB

Assembly Tips

Just push the cables into the Energy Chain using your thumb

Other Installation Methods

Vertical, hanging ≤ 32.8 ft (10 m)
Vertical, standing ≤ 4.92 ft (1.5 m)
Side-mounted, unsupp. ≤ 1.64 ft (0.5 m)
Rotary requires further calculation

Usage Guidelines

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

• If a long unsupported length is required
  ➤ Series 26/27/27i E2 Medium
• If an Energy Chain with a high locking crossbar is needed
  ➤ Series 26/27/27i E2 Medium

Special Features / Options

- IPA Qualification Certificate
- Air Cleanliness Class ISO Class 2 (at v = 3.28 ft/s) upon request
- Flammability Class VDE 0304 IIC UL94 V2
- Special equipment: Electrically conductive ESD/ATEX version upon request

Price Index

Series E26/Z26
Energy Chain System® E-Z Chain Series E26/Z26
Installation Dimensions

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

Unsupported length in ft FLB / FLG

Legend
- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- D = Overlength Energy Chain® radius in final position
- K = \( \pi \cdot R + \) safety buffer
- HF = Required clearance height

The required clearance height: \( HF = H + 1.38 \text{ in. (35 mm)} \) (with 1.34 lbs/ft (2.0 kg/m) fill weight. Please consult igus® if space is particularly restricted.

<table>
<thead>
<tr>
<th>R</th>
<th>2.48 (063)</th>
<th>2.95 (075)</th>
<th>3.94 (100)</th>
<th>4.92 (125)</th>
<th>5.91 (150)</th>
<th>6.89 (175)</th>
<th>7.87 (200)</th>
<th>9.84 (250)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H+5</td>
<td>6.93 (176)</td>
<td>7.87 (200)</td>
<td>9.84 (250)</td>
<td>11.81 (300)</td>
<td>13.78 (350)</td>
<td>15.75 (400)</td>
<td>17.72 (450)</td>
<td>21.65 (550)</td>
</tr>
<tr>
<td>D</td>
<td>6.77 (172)</td>
<td>7.24 (184)</td>
<td>8.23 (209)</td>
<td>9.21 (234)</td>
<td>10.20 (259)</td>
<td>11.18 (284)</td>
<td>12.17 (309)</td>
<td>14.13 (359)</td>
</tr>
<tr>
<td>K</td>
<td>12.20 (310)</td>
<td>13.78 (350)</td>
<td>16.93 (430)</td>
<td>19.90 (505)</td>
<td>23.03 (585)</td>
<td>26.18 (665)</td>
<td>29.33 (745)</td>
<td>35.43 (900)</td>
</tr>
</tbody>
</table>

Pitch per link: = 2.20" (56 mm)
Links per ft (m): = 5.49 (18)
For center mount applications:
Chain length = \( S/2 + K \)

Speed / acceleration FLG
max. 65.6 ft/s (20 m/s) / max. 656 ft/s² (200 m/s²)

Speed / acceleration FLB
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 (Energy 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 (Energy 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

Unsupported Length

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

The required clearance height: \( HF = H + 1.38 \text{ in. (35 mm)} \) (with 1.34 lbs/ft (2.0 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Further details can be found in the Design chapter.
**Series E26**

Split crossbar along the outer radius

![Diagram of series E26](image)

**1 Chamber System**

<table>
<thead>
<tr>
<th>Bi</th>
<th>Ba</th>
</tr>
</thead>
<tbody>
<tr>
<td>.79&quot; max.</td>
<td>1.97 (50)</td>
</tr>
<tr>
<td>.16 (4)</td>
<td></td>
</tr>
</tbody>
</table>

**2 Chamber System**

<table>
<thead>
<tr>
<th>Bi 1</th>
<th>Bi 2</th>
<th>Ba</th>
</tr>
</thead>
<tbody>
<tr>
<td>.79&quot; max.</td>
<td>1.97 (50)</td>
<td></td>
</tr>
<tr>
<td>.16 (4)</td>
<td>.16 (4)</td>
<td>1.46 (37.1)</td>
</tr>
</tbody>
</table>

**3 Chamber System**

<table>
<thead>
<tr>
<th>Bi 1</th>
<th>Bi 2</th>
<th>Bi 3</th>
<th>Ba</th>
</tr>
</thead>
<tbody>
<tr>
<td>.79&quot; max.</td>
<td>.79&quot; max.</td>
<td>1.46 (37.1)</td>
<td></td>
</tr>
<tr>
<td>.16 (4)</td>
<td>.16 (4)</td>
<td>.16 (4)</td>
<td>1.97 (50)</td>
</tr>
</tbody>
</table>

Supplement part number with required radius. Example: E26-07-150-0

Pitch: 2.20 in. (56 mm) per link links/ft (m) = 5.49 (18)

### Part Number Structure

<table>
<thead>
<tr>
<th>E26-</th>
<th>07-</th>
<th>150-</th>
<th>0</th>
</tr>
</thead>
</table>

### Part Number Structure

<table>
<thead>
<tr>
<th>E26-</th>
<th>2/45-</th>
<th>0</th>
</tr>
</thead>
</table>

### Part Number Structure

<table>
<thead>
<tr>
<th>E26-</th>
<th>3/45-</th>
<th>0</th>
</tr>
</thead>
</table>

### Weight lbs/ft (kg/m)

- 1 Chamber System: E26-07-1500
  - Bi: 2.95 (75)
  - Ba: 3.62 (92)
  - Weight: 0.65 (0.96)

- 2 Chamber System: E26-2/45-0
  - Bi: 1.89/1.89 (48/48)
  - Ba: 4.61 (117)
  - Weight: 0.77 (1.14)

- 3 Chamber System: E26-3/45-0
  - Bi: 1.85/1.89/1.85 (47/48/47)
  - Ba: 6.57 (167)
  - Weight: 0.87 (1.30)

### Choose from the radii below for all of the above sizes

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>Example: E26-07-150-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>063</td>
<td>2.48 (063)</td>
</tr>
<tr>
<td>075</td>
<td>2.95 (075)</td>
</tr>
<tr>
<td>100</td>
<td>3.94 (100)</td>
</tr>
<tr>
<td>125</td>
<td>4.92 (125)</td>
</tr>
<tr>
<td>150</td>
<td>5.91 (150)</td>
</tr>
<tr>
<td>175</td>
<td>6.89 (175)</td>
</tr>
<tr>
<td>200</td>
<td>7.87 (200)</td>
</tr>
<tr>
<td>250</td>
<td>9.84 (250)</td>
</tr>
</tbody>
</table>

**Radius Formula**

\[ H = H + 1.38 (35) \]

- Moving End
- Fixed End

**Series E26**

- Split crossbar along the outer radius
- **Part Number Structure**: E26-07-150-0
- **Weight lbs/ft (kg/m)**: 0.65 (0.96)

**Part Number Structure**: E26-2/45-0

- **Weight lbs/ft (kg/m)**: 0.77 (1.14)

**Part Number Structure**: E26-3/45-0

- **Weight lbs/ft (kg/m)**: 0.87 (1.30)

**Choose from the radii below for all of the above sizes**

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<td>100</td>
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<tr>
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<td>7.87 (200)</td>
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<tr>
<td>250</td>
<td>9.84 (250)</td>
</tr>
</tbody>
</table>

**Diameter Formulas**

\[ \text{Diameter} = \text{Radius} \times 2 \]

- **Diameter**: 2.20 (56)
- **Diameter**: 1.97 (50)
- **Diameter**: 1.46 (37.1)

**Series E26**

- Split crossbar along the outer radius
- **Part Number Structure**: E26-07-150-0
- **Weight lbs/ft (kg/m)**: 0.65 (0.96)

**Part Number Structure**: E26-2/45-0

- **Weight lbs/ft (kg/m)**: 0.77 (1.14)

**Part Number Structure**: E26-3/45-0

- **Weight lbs/ft (kg/m)**: 0.87 (1.30)

**Choose from the radii below for all of the above sizes**

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>Example: E26-07-150-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>063</td>
<td>2.48 (063)</td>
</tr>
<tr>
<td>075</td>
<td>2.95 (075)</td>
</tr>
<tr>
<td>100</td>
<td>3.94 (100)</td>
</tr>
<tr>
<td>125</td>
<td>4.92 (125)</td>
</tr>
<tr>
<td>150</td>
<td>5.91 (150)</td>
</tr>
<tr>
<td>175</td>
<td>6.89 (175)</td>
</tr>
<tr>
<td>200</td>
<td>7.87 (200)</td>
</tr>
<tr>
<td>250</td>
<td>9.84 (250)</td>
</tr>
</tbody>
</table>

**Diameter Formulas**

\[ \text{Diameter} = \text{Radius} \times 2 \]

- **Diameter**: 2.20 (56)
- **Diameter**: 1.97 (50)
- **Diameter**: 1.46 (37.1)
Energy Chain System® E-Z Chain
Series E26/Z26

Series Z26
Split crossbar along the inner radius

1 Chamber System

2 Chamber System

3 Chamber System

Supplement part number with required radius. Example: Z26-07-150-0
Pitch: 2.20 in. (56 mm) per link links/ft (m) = 5.49 (18)

Part Number Structure

Part Number Structure

Part Number Structure

Choose from the radii below for all of the above sizes

Example: Z26-07-100-0

R 2.48 (065) 2.95 (075) 3.94 (100) 4.92 (125) 5.91 (150) 6.89 (175) 7.87 (200) 9.84 (250)
H 6.93 (176) 7.87 (200) 9.84 (250) 11.81 (300) 13.78 (350) 15.75 (400) 17.72 (450) 21.65 (550)
D 6.77 (172) 7.24 (184) 8.23 (209) 9.21 (234) 10.20 (259) 11.18 (284) 12.17 (309) 14.13 (359)
K 12.20 (310) 13.78 (350) 16.93 (430) 19.88 (505) 23.03 (585) 26.18 (665) 29.33 (745) 35.43 (900)
### Energy Chain System® E-Z Chain Series E26/Z26 Mounting Brackets

#### Option 1: pivoting
- Recommended for unsupported and gliding applications
- Space-restricted conditions
- Available with or without strain relief tie-wrap plates
- Corrosion resistant

#### Option 2: locking
- Recommended for unsupported and gliding applications
- For high speed and/or accelerations
- Corrosion resistant

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

#### Part Number Structure

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Full Set (pivoting) With Tiewrap Plates</th>
<th>Part No. Full Set (pivoting) With Tiewrap Plates + 10 cable ties</th>
<th>Part No. Full Set (pivoting) Without Tiewrap Plates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series E26/Z26: 2607-34PZB</td>
<td>2607-34PZBK1</td>
<td>2607-34PZBK1</td>
<td>2607-34PZ</td>
</tr>
<tr>
<td>For Chain Type</td>
<td>Part No. Full Set with Tiewrap Plate</td>
<td>Part No. Full Set with Tiewrap Plate + 10 cable ties</td>
<td>Part No. Full Set without Tiewrap Plate</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------------------------</td>
<td>-----------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>E26/Z26-07</td>
<td>2607-34PZ</td>
<td>2607-34PZBK1</td>
<td>2607-34PZ</td>
</tr>
<tr>
<td>E26/Z26-2/45</td>
<td>2610-34PZ</td>
<td>2610-34PZBK1</td>
<td>2610-34PZ</td>
</tr>
<tr>
<td>E26/Z26-3/45</td>
<td>2615-34PZ</td>
<td>2615-34PZBK1</td>
<td>2615-34PZ</td>
</tr>
</tbody>
</table>

**Possible installation configurations -**

For pivoting brackets choose 34
For locking brackets choose 12

**Example:** 2607-34PZB
Energy Chain System® E-Z Chain
Series E26/Z26
Strain Relief

Strain relief for polymer mounting brackets (pivoting or locking)
The strain relief tiewrap plates can be snapped directly onto the mounting bracket. After bolting the mounting brackets to the machine, the strain relief tiewrap plates are firmly connected to the base. There is no need to bolt them on separately. Cable tiewraps secured to the cable and the tiewrap plate (teeth) provide proper strain relief and save time.

Tiewrap Plates

Option 1:
Tiewrap plates as an individual part
Available as an individual component, can be fixed onto a mounting bracket.

<table>
<thead>
<tr>
<th>Tiewrap Plate</th>
<th>n Number of Teeth</th>
<th>Overall Width C in. (mm)</th>
<th>Bore Width B in. (mm)</th>
<th>Center Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>3050-ZB</td>
<td>5</td>
<td>1.97 (50)</td>
<td>1.18 (30)</td>
<td>no</td>
</tr>
<tr>
<td>3075-ZB</td>
<td>7</td>
<td>2.95 (75)</td>
<td>2.16 (55)</td>
<td>no</td>
</tr>
<tr>
<td>3100-ZB</td>
<td>10</td>
<td>3.94 (100)</td>
<td>3.15 (80)</td>
<td>no</td>
</tr>
<tr>
<td>3115-ZB</td>
<td>11</td>
<td>4.53 (115)</td>
<td>3.74 (95)</td>
<td>no</td>
</tr>
<tr>
<td>3125-ZB</td>
<td>12</td>
<td>4.92 (125)</td>
<td>4.13 (105)</td>
<td>no</td>
</tr>
<tr>
<td>3150-ZB</td>
<td>15</td>
<td>5.91 (150)</td>
<td>5.12 (130)</td>
<td>no</td>
</tr>
<tr>
<td>3175-ZB</td>
<td>17</td>
<td>6.89 (175)</td>
<td>6.10 (155)</td>
<td>no</td>
</tr>
<tr>
<td>3200-ZB</td>
<td>20</td>
<td>7.87 (200)</td>
<td>7.09 (180)</td>
<td>yes</td>
</tr>
<tr>
<td>3225-ZB</td>
<td>22</td>
<td>8.86 (225)</td>
<td>8.07 (205)</td>
<td>yes</td>
</tr>
<tr>
<td>3250-ZB</td>
<td>25</td>
<td>9.84 (250)</td>
<td>9.06 (230)</td>
<td>yes</td>
</tr>
</tbody>
</table>

For more information please refer to strain relief section of Chapter 10

Cable tiewraps as individual parts

<table>
<thead>
<tr>
<th>Cable tiewraps</th>
<th>Width x Length</th>
<th>Maximum Ø</th>
<th>Tensile Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 pieces/bag</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CFB-001</td>
<td>.19 x 5.91</td>
<td>1.42 (36)</td>
<td>50 (222)</td>
</tr>
</tbody>
</table>
Energy Chain System®
E-Z Chain Series

Selection table

<table>
<thead>
<tr>
<th>Series</th>
<th>Inner height</th>
<th>Inner width</th>
<th>Outer width</th>
<th>Outer height</th>
<th>Bending radius</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>hi</td>
<td>Bi</td>
<td>Ba</td>
<td>ha</td>
<td>R</td>
</tr>
<tr>
<td></td>
<td>in. (mm)</td>
<td>in. (mm)</td>
<td>in. (mm)</td>
<td>in. (mm)</td>
<td>in. (mm)</td>
</tr>
<tr>
<td>E03</td>
<td>.20 (5)</td>
<td>.20 - .39</td>
<td>.34 - .54</td>
<td>.31 (8)</td>
<td>.39 - 1.10</td>
</tr>
<tr>
<td>E04</td>
<td>.28 (7)</td>
<td>.28</td>
<td>.51</td>
<td>.39 (10)</td>
<td>.59 - 1.89</td>
</tr>
<tr>
<td>E045/Z045</td>
<td>.37 (9.4)</td>
<td>.39 - 1.06</td>
<td>.63 - 1.46</td>
<td>.49 (12.5)</td>
<td>.71 - 1.50</td>
</tr>
<tr>
<td>E06/Z06</td>
<td>.41/.42 (10.5/10.7)</td>
<td>.39 - .79</td>
<td>.65 - 1.04</td>
<td>.59 (15)</td>
<td>.71 - 1.50</td>
</tr>
<tr>
<td>E065</td>
<td>.44 (11.3)</td>
<td>.63 - 1.42</td>
<td>.98 - 1.94</td>
<td>.59 (15)</td>
<td>.71 - 1.50</td>
</tr>
<tr>
<td>E08/Z08</td>
<td>.57/.58 (14.6/14.7)</td>
<td>.39 - 1.97</td>
<td>.72 - 2.29</td>
<td>.76 (19.3)</td>
<td>1.10 - 1.89</td>
</tr>
<tr>
<td>E14/Z14</td>
<td>.75 (19)</td>
<td>.59 - 1.97</td>
<td>1.06 - 2.44</td>
<td>.98 (25)</td>
<td>1.10 - 4.92</td>
</tr>
<tr>
<td>E200/Z200</td>
<td>.96 (24.3)</td>
<td>1.46 - 2.24</td>
<td>2.93 - 4.74</td>
<td>1.38 (35)</td>
<td>2.17 - 7.87</td>
</tr>
<tr>
<td>E16/Z16</td>
<td>1.26 (32)</td>
<td>.91 - 3.94</td>
<td>1.48 - 4.54</td>
<td>1.54 (39)</td>
<td>1.57 - 3.94</td>
</tr>
<tr>
<td>E26/Z26</td>
<td>1.44/1.46 (36.5/37.1)</td>
<td>1.85 - 2.95</td>
<td>3.62 - 6.57</td>
<td>1.97 (50)</td>
<td>2.48 - 9.84</td>
</tr>
<tr>
<td>E300/Z300</td>
<td>1.91 (48.5)</td>
<td>1.81 - 2.95</td>
<td>3.74 - 6.69</td>
<td>2.52 (64)</td>
<td>2.95 - 11.81</td>
</tr>
</tbody>
</table>

E-Z Chain®: "E" and "Z" makes "Easy"

- Easy to fill from the outer (exterior) radius (Version "E") or inner radius (Version "Z")
- Fast cable accessibility without opening and closing lids
- Easy to lengthen and shorten at any point
- Low price with one-piece design
- Dirt-repellent, contoured exterior
- Mounting brackets available with integrated strain relief
- Limited torsion tolerance
- Available with interior separation (some types)
- Flammability rating UL94-V2
- Suitable for clean-room applications
- You can find more technical data about the material, chemical resistance, temperatures ➤ Chapter 1, Design

Quick assembly with ESD!

E-Z Chain® now available as ESD version
- Easy to fill on the outer/-inner radius
- Accessible to the cables without opening and closing of lids
- Cost-effective one-piece design Energy Chain®
- Mounting brackets available

More information ➤ www.igus.com
Energy Chain System®
E-Z Chain Series

Assembling | Separating | Filling | Series E03 · E04 · E/Z045

1. Twist and click or twist and divide
2. Press in cable

Assembling | Series E/Z06 · E065 · E/Z08 · E/Z14 · E/Z200 · E/Z16 · E/Z26 · E/Z300

1. Push and click...
2. Snap in pin

Separating | Series E/Z06 · E065 · E/Z08 · E/Z14 · E/Z200 · E/Z16 · E/Z26 · E/Z300

3. Release side link
4. Twist and pull apart

Filling | Series E/Z06 · E065 · E/Z08 · E/Z14 · E/Z200 · E/Z16 · E/Z26 · E/Z300

5. Press in cable
6. Pull out cable