

E06
Z06



Energy Chain System® E-Z Chain Series E06/Z06



Price Index



Series E08/Z08

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 HB



Special equipment: Electrically
conductive ESD/ATEX version
upon request

Assembly Tips



Just push the cables into the Energy Chain using your thumb



Special solution -
opening gap 3,5 mm
Part No. E06-10-018S3

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 07 Zipper
- If non-opening is required
% Series 06 E2 Micro

Features & Benefits

- 1 Small pitch for low-noise and smooth operation
- 2 Cable friendly - smooth interior
- 3 Very lightweight
- 4 Patented push button principle holds the links together
- 5 Very easy to fill - ideal for harnessed cable assemblies
- 6 Integrated strain relief option
- 7 "E" Series features split crossbar along the outer radius
- 8 "Z" Series features split crossbar along the inner radius
- 9 Limited torsion tolerance



Order Example: Complete Energy Chain®

Please indicate chain length or number of links. Example:

3.28 ft (1 m) E06-10-038-0



Energy Chain®

1 Set 060-10-12

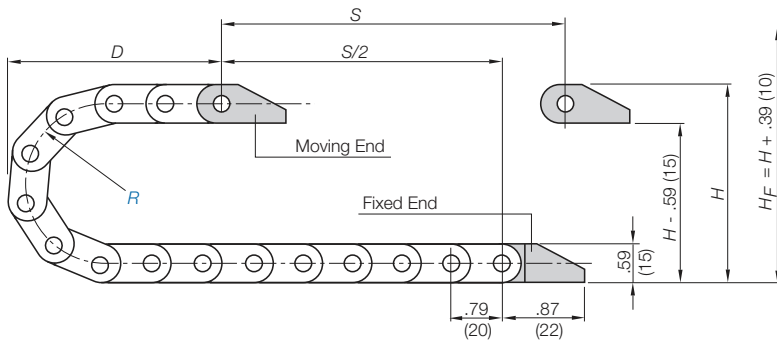
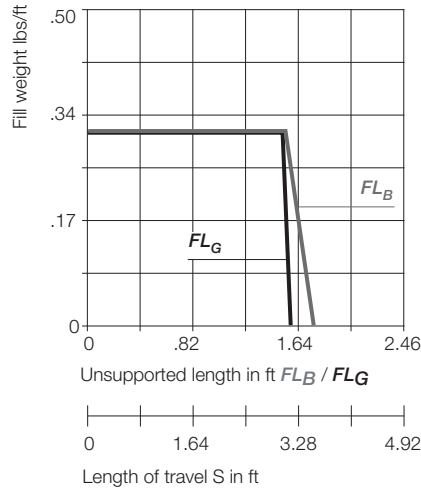
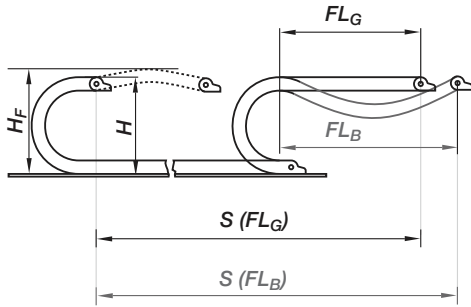


Mounting Bracket

Energy Chain System® E-Z Chain Series E06/Z06 Installation Dimensions

Short travel, unsupported length

- FL_B = unsupported with permitted sag
 - FL_G = unsupported with straight upper run
- Further information % Design, Chapter 1



Pitch per link = $.79''$ (20 mm)
 Links per ft (m) = 15.24 (50)
 For center mount applications:
 Chain length = $\frac{S}{2} + K$

The required clearance height: $H_F = H + .39$ in. (10 mm) (with .13 lbs/ft (0.2 kg/m) fill weight).
 Please consult igus® if space is particularly restricted.

| R | .71 (018) | 1.10 (028) | 1.50 (038) |
|----|-----------|------------|------------|
| H* | 2.04 (52) | 2.76 (70) | 3.54 (90) |
| D | 1.57 (40) | 1.97 (50) | 2.36 (60) |
| K | 3.74 (95) | 4.72 (120) | 5.71 (145) |



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Short Travels - Unsupported

Unsupported Energy 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.

Legend

- S = Length of travel
- R = Bending radius
- H = Nominal clearance height
- D = Overlength Energy Chain® radius in final position
- $K = \pi \cdot R + \text{safety buffer}$
- H_F = Required clearance height



PDF: www.igus.com/e-chain-pdfs
 Specs/CAD/RFQ: www.igus.com/e-chains
 RoHS info: www.igus.com/RoHS



| | |
|---|--|
| Speed / acceleration FL_G | max. 65.6 ft/s (20 m/s) / max. 656 ft/s ² (200 m/s ²) |
| Speed / acceleration FL_B | max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s ² (6 m/s ²) |
| Material (Energy Chain®) - permitted temperature | igumid G / -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 |

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

Technical Data



Details of material properties

% Chapter 1

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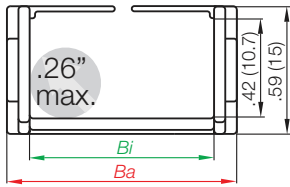
Energy Chain System® E-Z Chain Series E06/Z06

igus® Energy Chain
System®

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Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/quickspec>

Series E06 - Split crossbar along the outer radius

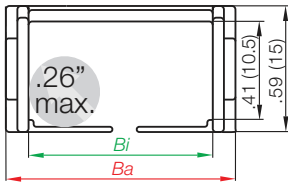


Part Number Structure

E06- 10- 038- 0

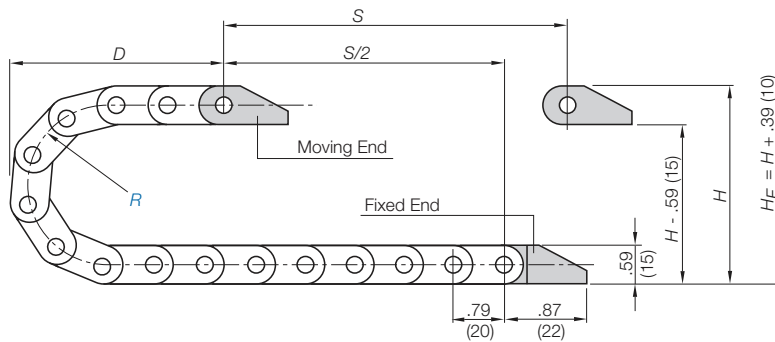


Series Z06 - Split crossbar along the inner radius



Part Number Structure

Z06- 10- 038- 0



Supplement part number with required radius. Example: E06-10-038-0
Pitch: .79 in. (20 mm) per link links/ft (m) = 15.24 (50)

| Part Number | | | Bi | Ba | Weight |
|-----------------------------|-----------------------------|-------------------------|----------|-------------|---------------|
| Split Crossbar Inner Radius | Split Crossbar Outer Radius | | in. (mm) | in. (mm) | lbs/ft (kg/m) |
| E06-10 | Z06-10 | <input type="text"/> -0 | .39 (10) | .65 (16.5) | ≈ 0.50 (0.74) |
| E06-16- | Z06-16 | <input type="text"/> -0 | .63 (16) | .86 (22.5) | ≈ 0.54 (0.81) |
| E06-20- | Z06-20 | <input type="text"/> -0 | .79 (20) | 1.04 (26.5) | ≈ 0.60 (0.90) |

Choose from the radii below for all of the above sizes
Radius (mm) Example: E06-10-038-0

| | 018 | 028 | 038 |
|----|-----------|------------|------------|
| R | .71 (018) | 1.10 (028) | 1.50 (038) |
| H* | 2.04 (52) | 2.76 (70) | 3.54 (90) |
| D | 1.57 (40) | 1.97 (50) | 2.36 (60) |
| K | 3.74 (95) | 4.72 (120) | 5.71 (145) |

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

Energy Chain System® E-Z Chain Series E06/Z06 Mounting Brackets

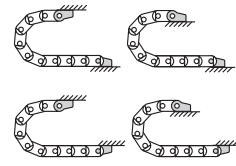
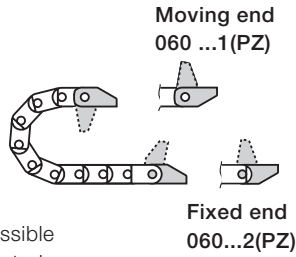


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Polymer, one-piece

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

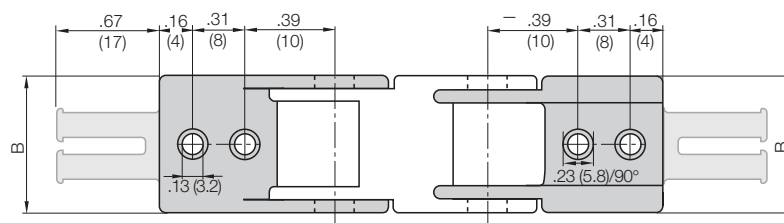
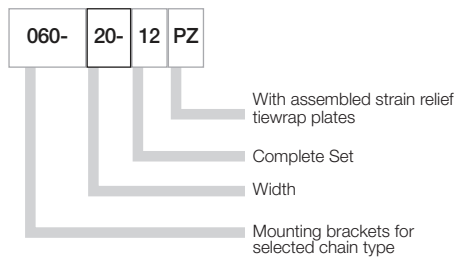


Possible installation configurations -

Dimensions and order configurations

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

Part Number Structure



Full set, for both ends:

060- 20- 12 PZ Full set, each part with pin/bore

Single-part order:

060- 20- 1 PZ Mounting bracket with bore

060- 20- 2 PZ Mounting bracket with pin

| Chain Type | Part No. | | Dimensions B | | Number of Teeth |
|------------|-----------------------------|--------------------------------|--------------|--------|-----------------|
| | Full set with Tiewrap Plate | Full Set without Tiewrap Plate | in. | (mm) | |
| E06/Z06-10 | 060-10-12PZ | 060-10-12 | .65 | (16.5) | 1 |
| E06/Z06-16 | 060-16-12PZ | 060-16-12 | .89 | (22.5) | 2 |
| E06/Z06-20 | 060-20-12PZ | 060-20-12 | 1.06 | (27.0) | 2 |

Additional Accessories



Quicksnap - the complete, detachable mounting unit, upon request

Part No.

060-10-QS

060-16-QS

060-20-QS



Quickfix - mounting bracket with dowel, upon request

Part No. 060-20-4-QZ

PDF: www.igus.com/e-chain-pdfs
Specs/CAD/RFQ: www.igus.com/e-chains
RoHS info: www.igus.com/RoHS

