



Price Index



Series E06/Z06

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

Assembly Tips



Just push the cables into the Energy Chain using your thumb



Special solution -
opening gap 0.14 (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:

energy chain® configurator ▶

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

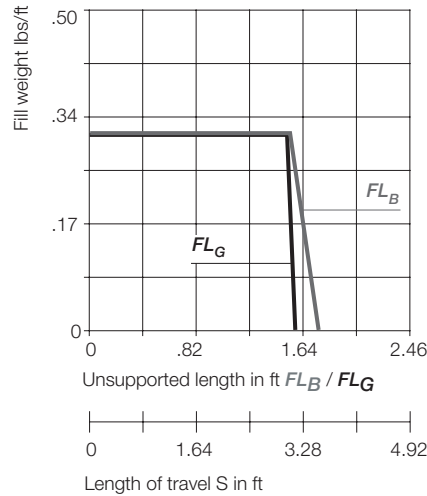
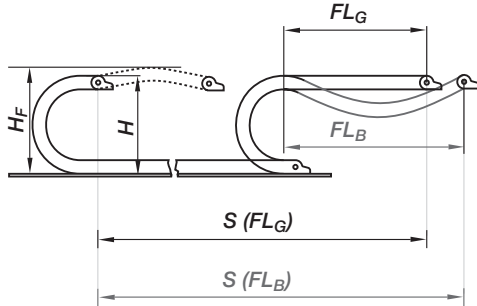
energy chain® configurator



E06
Z06

Short travel, unsupported length

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



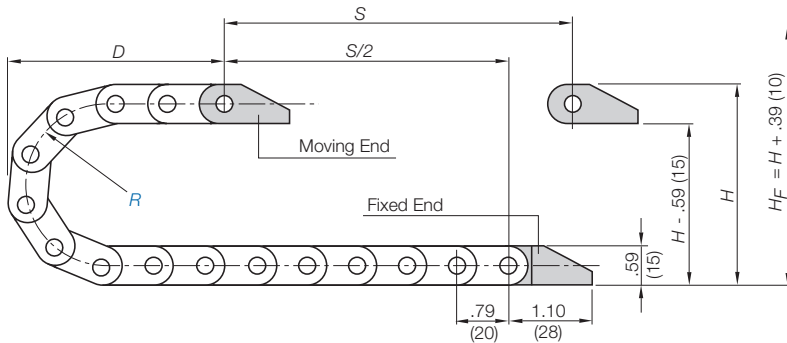
Short Travels - Unsupported



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



Pitch per link = .79" (20 mm)
Links per ft (m) = 15.24 (50)
For center mount applications:
Chain length = $S/2 + K$

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* | 2.01 (51) | 2.80 (71) | 3.58 (91) |
| D | 2.20 (56) | 2.60 (66) | 2.99 (76) |
| K | 3.94 (100) | 5.12 (130) | 6.30 (160) |



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 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 |

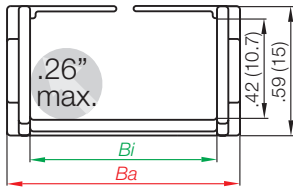
Technical Data



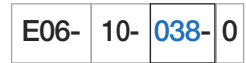
Details of material properties

Chapter 1

Series E06 - Split crossbar along the outer radius

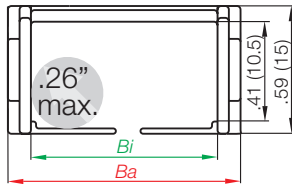


Part Number Structure



- Color - Black
- Bending radius
- Width
- Series

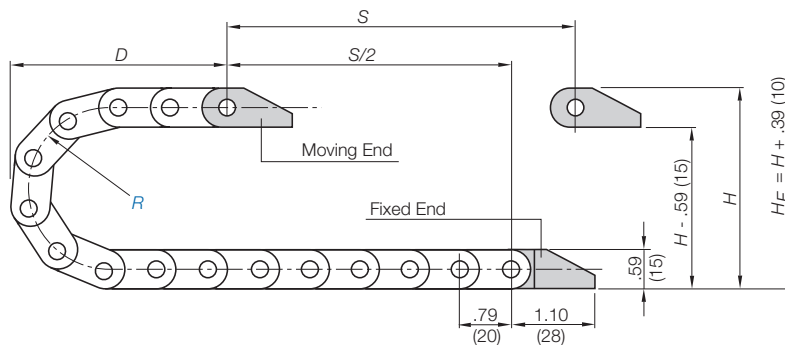
Series Z06 - Split crossbar along the inner radius



Part Number Structure



- Color - Black
- Bending radius
- Width
- Series



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 | Crossbar Gap |
|-----------------------------|-----------------------------|--------------------------------|----------|-------------|---------------|--------------|
| Split Crossbar Outer Radius | Split Crossbar Inner Radius | | in. (mm) | in. (mm) | lbs/ft (kg/m) | in. (mm) |
| E06-10 | Z06-10* | <input type="text" value="0"/> | .39 (10) | .65 (16.5) | ≈ 0.09 (0.14) | .22 (5.5) |
| E06-16- | Z06-16* | <input type="text" value="0"/> | .63 (16) | .86 (22.5) | ≈ 0.11 (0.16) | .22 (5.5) |
| E06-20- | Z06-20 | <input type="text" value="0"/> | .79 (20) | 1.04 (26.5) | ≈ 0.12 (0.18) | - |

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* | 2.01 (51) | 2.80 (71) | 3.58 (91) |
| D | 2.20 (56) | 2.60 (66) | 2.99 (76) |
| K | 3.94 (100) | 5.12 (130) | 6.30 (160) |

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

*Please note: For this series the crossbars do not overlap. Please see table for gap amount.

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

energy chain® configurator ▶

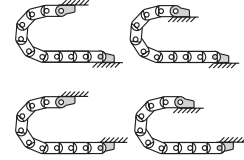
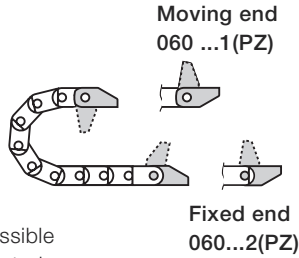


E06
Z06



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 -

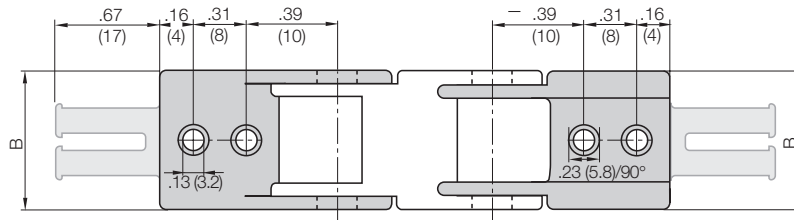
Dimensions and order configurations

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

Part Number Structure

| | | | |
|------|-----|----|----|
| 060- | 20- | 12 | PZ |
|------|-----|----|----|

- With assembled strain relief tiwrap plates
- Complete Set
- Width
- Mounting brackets for selected chain type



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. Full set with Tiewrap Plate | Part No. Full Set without Tiewrap Plate | Dimensions B | | Number of Teeth |
|------------|--|---|--------------|--------|--------------------|
| | | | 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

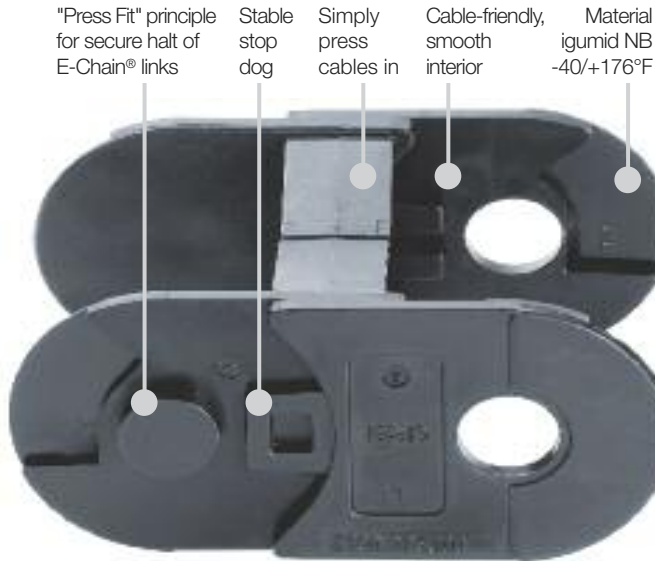


Quickfix - mounting bracket with dowel, upon request

Part No. 060-20-4-QZ

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





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**

Selection table

| Series | Inner height <i>hi</i> | | Inner width <i>Bi</i> | | Outer width <i>Ba</i> | | Outer height <i>ha</i> | | Bending radius <i>R</i> | |
|-----------|---------------------------|---------------|--------------------------|----------|--------------------------|--------------|---------------------------|--------|----------------------------|----------|
| | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) | in. | (mm) |
| E03 | .20 | (5) | .20 - .39 | (5-10) | .34 - .54 | (8.7-13.7) | .31 | (8) | .39 - 1.10 | (10-28) |
| E04 | .28 | (7) | .28 | (7) | .51 | (13) | .39 | (10) | .59 - 1.89 | (15-48) |
| E045/Z045 | .37 | (9.4) | .39 - 1.06 | (10-27) | .63 - 1.46 | (16-37) | .49 | (12.5) | .71 - 1.50 | (18-38) |
| E06/Z06 | .41/.42 | (10.5 / 10.7) | .39 - .79 | (10-20) | .65 - 1.04 | (16.5-26.5) | .59 | (15) | .71 - 1.50 | (18-38) |
| E065 | .44 | (11.3) | .63 - 1.42 | (16-36) | .98 - 1.94 | (24.8-49.3) | .59 | (15) | .71 - 1.50 | (18-38) |
| E08/Z08 | .57/.58 | (14.6 / 14.7) | .39 - 1.97 | (10-50) | .72 - 2.29 | (18.2-58.2) | .76 | (19.3) | 1.10 - 1.89 | (28-48) |
| E14/Z14 | .75 | (19) | .59 - 1.97 | (15-50) | 1.06 - 2.44 | (27-62) | .98 | (25) | 1.10 - 4.92 | (28-125) |
| E200/Z200 | .96 | (24.3) | 1.46 - 2.24 | (37-57) | 2.93 - 4.74 | (74.4-120.4) | 1.38 | (35) | 2.17 - 7.87 | (55-200) |
| E16/Z16 | 1.26 | (32) | .91 - 3.94 | (23-100) | 1.48 - 4.54 | (37.5-115.3) | 1.54 | (39) | 1.57 - 3.94 | (40-100) |
| E26/Z26 | 1.44/1.46 | (36.5 / 37.1) | 1.85 - 2.95 | (47-75) | 3.62 - 6.57 | (92-167) | 1.97 | (50) | 2.48 - 9.84 | (63-250) |
| E300/Z300 | 1.91 | (48.5) | 1.81 - 2.95 | (46-75) | 3.74 - 6.69 | (95-170) | 2.52 | (64) | 2.95 - 11.81 | (75-300) |

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