

E08  
Z08



## E-Chain System® E-Z Chain Series E08/Z08



### 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 V2



Special equipment: Electrically  
conductive ESD/ATEX version  
upon request

### 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

### 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 - ideal for harnessed cable assemblies
- 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 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



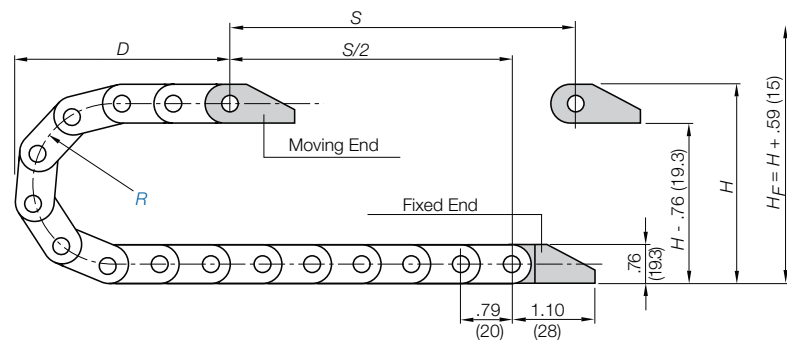
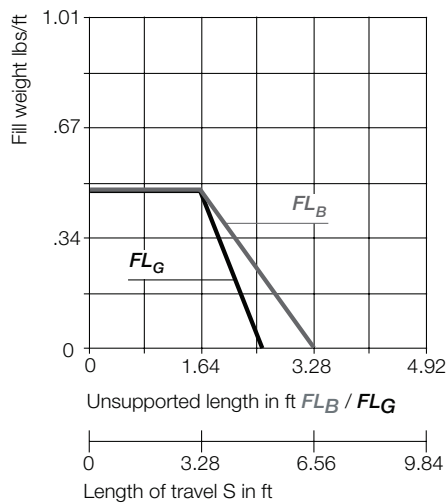
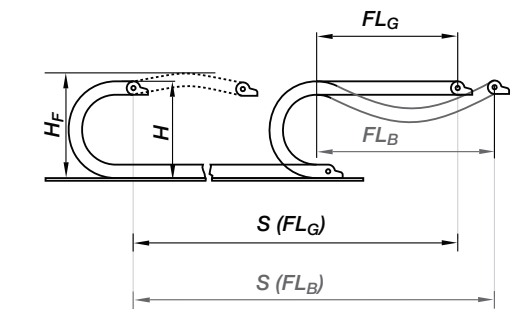
Mounting Bracket

# 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



The required clearance height:  $H_F = H + .59$  in. (15 mm) (with .20 lbs/ft (0.3 kg/m) fill weight. Please consult igus® if space is particularly restricted.

| R | 1.10 (028) | 1.50 (038) | 1.89 (048) |
|---|------------|------------|------------|
| H | 2.95 (75)  | 3.74 (95)  | 4.53 (115) |
| D | 2.68 (68)  | 3.07 (78)  | 3.46 (88)  |
| K | 5.12 (130) | 6.30 (160) | 7.68 (195) |

|                                                       |                                                                              |
|-------------------------------------------------------|------------------------------------------------------------------------------|
| Speed / acceleration $FL_G$                           | max. 65.6 ft/s (20 m/s) / max. 656 ft/s <sup>2</sup> (200 m/s <sup>2</sup> ) |
| Speed / acceleration $FL_B$                           | max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s <sup>2</sup> (6 m/s <sup>2</sup> )  |
| Gliding speed / acceleration (maximum)                | max. 9.84 ft/s (3 m/s) / max. 32.8 ft/s <sup>2</sup> (10 m/s <sup>2</sup> )  |
| 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                                                         |



E08  
Z08

## Short Travels - Unsupported

Unsupported E-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 E-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 =  $\frac{S}{2} + K$

## Technical Data



Details of material properties

► Chapter 1



PDF: [www.igus.com/E-Chain-pdfs](http://www.igus.com/E-Chain-pdfs)  
Specs/CAD/RFQ: [www.igus.com/E-Chains](http://www.igus.com/E-Chains)  
RoHS info: [www.igus.com/RoHS](http://www.igus.com/RoHS)



E08  
Z08

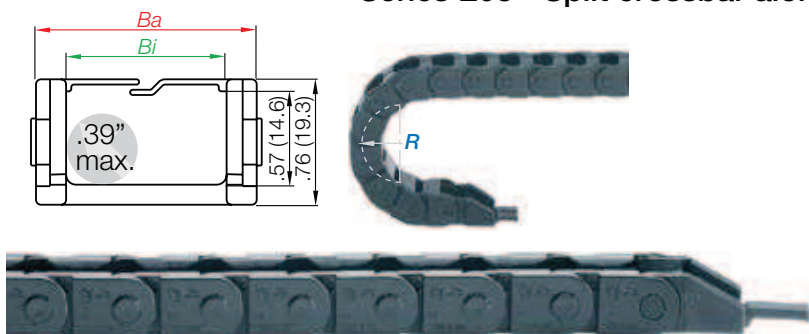


# E-Chain System® E-Z Chain Series E08/Z08

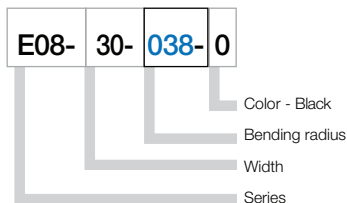
igus® E-Chain  
System®

Telephone 1-800-521-2747  
Fax 1-401-438-7270

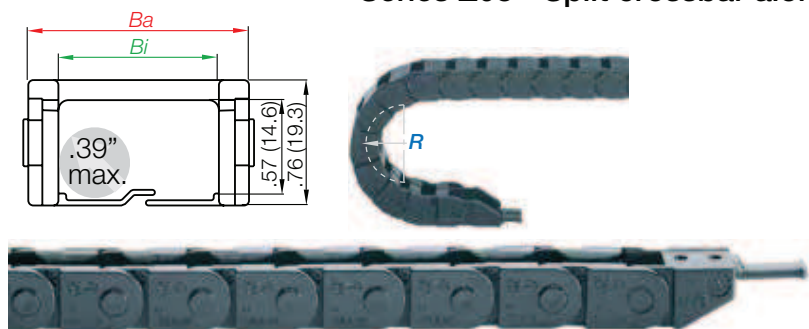
## Series E08 - Split crossbar along the outer radius



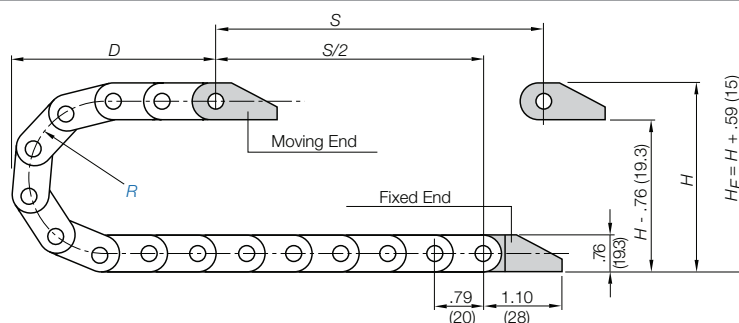
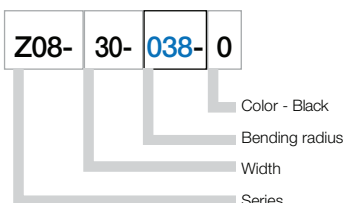
### Part Number Structure



## Series Z08 - Split crossbar along the inner radius



### Part Number Structure



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

| Split Crossbar<br>Outer Radius | Split Crossbar<br>Inner Radius |                          |    | <i>Bi</i><br>in. (mm) | <i>Ba</i><br>in. (mm) | Weight<br>lbs/ft (kg/m) |
|--------------------------------|--------------------------------|--------------------------|----|-----------------------|-----------------------|-------------------------|
| E08-10                         | Z08-10                         | <input type="checkbox"/> | -0 | .39 (10)              | .72 (18.2)            | ≈ 0.14 (0.21)           |
| E08-16                         | Z08-16                         | <input type="checkbox"/> | -0 | .63 (16)              | .95 (24.2)            | ≈ 0.16 (0.24)           |
| E08-20                         | Z08-20                         | <input type="checkbox"/> | -0 | .79 (20)              | 1.11 (28.2)           | ≈ 0.17 (0.25)           |
| E08-30                         | Z08-30                         | <input type="checkbox"/> | -0 | 1.18 (30)             | 1.50 (38.2)           | ≈ 0.19 (0.28)           |
| E08-40                         | Z08-40                         | <input type="checkbox"/> | -0 | 1.57 (40)             | 1.90 (48.2)           | ≈ 0.21 (0.31)           |
| E08-50                         | Z08-50                         | <input type="checkbox"/> | -0 | 1.97 (50)             | 2.29 (58.2)           | ≈ 0.25 (0.37)           |

Choose from the radii below for all of the above sizes  
**Radius** (mm) Example: E08-10-**038**-0

|          | <b>028</b> | <b>038</b> | <b>048</b> |
|----------|------------|------------|------------|
| <b>R</b> | 1.10 (28)  | 1.50 (38)  | 1.89 (48)  |
| <b>H</b> | 2.95 (75)  | 3.74 (95)  | 4.53 (115) |
| <b>D</b> | 2.68 (68)  | 3.07 (78)  | 3.46 (88)  |
| <b>K</b> | 5.12 (130) | 6.30 (160) | 7.68 (195) |

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

Internet: <http://www.igus.com>  
email: [sales@igus.com](mailto:sales@igus.com)  
QuickSpec: <http://www.igus.com/quickspec>

# E-Chain System® E-Z Chain Series E08/Z08 Mounting Brackets

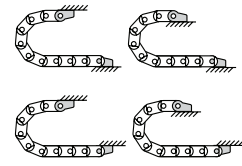
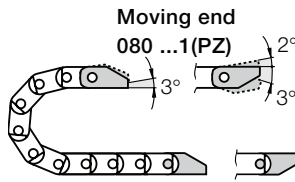


E08  
Z08



## 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



Possible installation configurations -

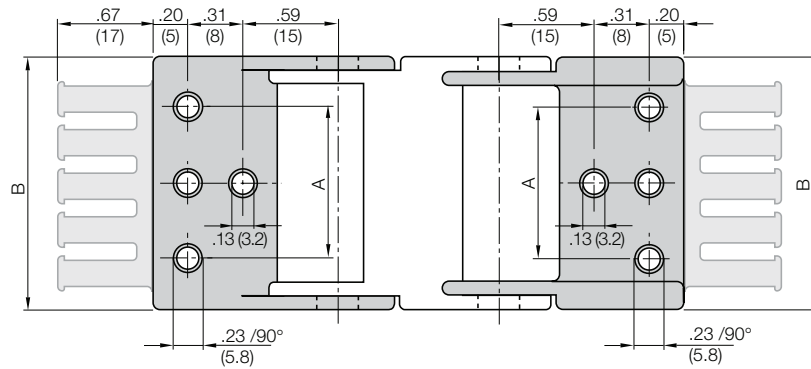
## Dimensions and order configurations

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

### Part Number Structure

080- 20- 12 PZ

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



### Full set, for both ends:

080- 20- 12 PZ Full set, each part with pin/bore

### Single-part order:

080- 20- 1 PZ Mounting bracket with bore  
080- 20- 2 PZ Mounting bracket with pin

080-10-12 - 080-20-12:

Center bores only

080-30-12 - 080-50-12:

Outer bores only

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

## Additional Accessories



**Quicksnap** - the complete, detachable mounting unit, upon request

### Part No.

080-20-QS

080-30-QS



PDF: [www.igus.com/E-Chain-pdfs](http://www.igus.com/E-Chain-pdfs)  
Specs/CAD/RFQ: [www.igus.com/E-Chains](http://www.igus.com/E-Chains)  
RoHS info: [www.igus.com/RoHS](http://www.igus.com/RoHS)