

# Energy Chain Systems®

## E2 “medium”

### E2 “medium”

● Series 200/240/250

● Series 26/27/27i

● Series 340/350\*

\*Extender chain

- 2 parts per link, maximum
- Easy installation
- Many connection options
- Long service life
- High stability

For Classic E2 Medium Energy Chain®, 20/25, 30/35/36, 255, please request our Classic Carrier Catalog. Classic sizes will continue to be available and supported.



### Product Range

Inner heights from .94” to 1.77”  
Inner widths from .98” to 9.84”



### Interior Separation

3 options possible



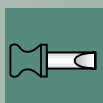
### Mounting Brackets

Pivoting and locking mounting brackets  
available with various types of strain relief



### Order Example

Ordering and Information  
E2 “medium” Energy Chains®



### Installation

A screwdriver suffices for  
assembly/disassembly of the chain links



### Guide Troughs

All E2 “medium” Energy Chains® are  
suitable for gliding applications



## Price Index



7 Widths  
9 Bending Radii

Smooth interior for  
long cable life

Large pins for  
long service life

Dirt-repellent exterior

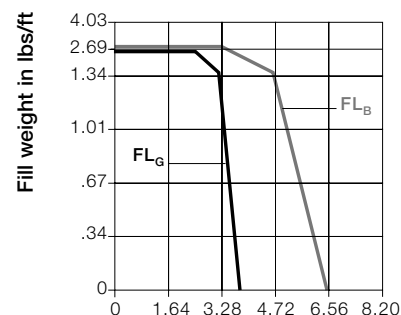
Tapered inertation point -  
easy assembly

Reinforced  
stop dog

Integrated strain  
relief possible

Series 240 (snap-open  
along inner radius) can be  
combined with Series  
250 (snap-open along  
outer radius)

Snap-open, hinged to  
left or right, along  
inner or outer radius,  
accessible from the  
top, rather than from  
the side, of the link

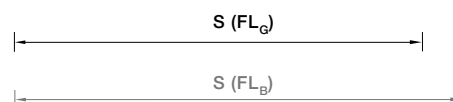
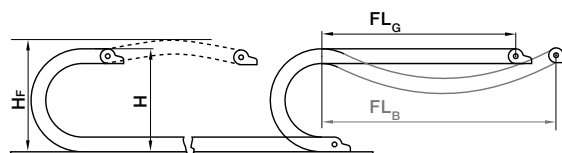


Unsupported length in ft  $FL_B / FL_G$

Length of travel S in ft

## Unsupported length

- $FL_B$  = unsupported with permitted sag
- $FL_G$  = unsupported with straight upper run



## Product Range:

|                                |                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| Inner Widths (Bi) inches (mm): | .98 (25), 1.50 (38), 2.24 (57), 3.03 (77),<br>3.54 (90), 4.06 (103), 4.92 (125)                                |
| Bending Radii (R) inches (mm): | 2.16 (55), 2.95 (75), 3.94 (100),<br>4.92 (125), 5.91 (150), 6.89 (175),<br>7.87 (200), 8.86 (225), 9.84 (250) |
| Pitch:                         | 1.81 (46 mm)/link = 6.71 links/ft<br>(22 links/m) 39.8 (1012 mm)                                               |



## When to use the Series 200/240/250:

- If snap-open accessibility along inner or outer radius is required
- If integrated strain relief is required at the mounting point
- If modular interior separation is required
- If long service life is required
- If easy installation is required

- Accessories for  
▶ Guide Troughs,  
Chapter 9
- Further information  
▶ Design, Chapter 1



## When not to use the Series 200/240/250:

- If each link requires snap-open accessibility on both sides simultaneously  
▶ System E4, Series 220 etc.,  
Chapter 6
- If maximum stability is required  
▶ System E4, Series 220 etc.,  
Chapter 6
- If chip protection is required  
▶ Energy Tubes E2, Series R48,  
Chapter 6
- If the application is very simple  
▶ E-Z Chain, Series E 200,  
Chapter 6

Unsupported Energy Chains® ► **Design, Chapter 1**, feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to **Installation dimensions** for further details.

If the unsupported length is exceeded, the Energy Chain®/Tube must glide on itself. This requires a guide trough ► **Design, Chapter 1** or incorporation of igus® exclusive AUTO-GLIDE System guide elements, which are available for this chain series ► **AUTO-GLIDE System, Chapter 9**.

## Other Installation Methods:

|                                  |
|----------------------------------|
| <b>Vertical, hanging</b>         |
| = max 131 (40 m)                 |
| <b>Vertical, standing</b>        |
| = max 9.84 (3 m)                 |
| <b>Side-mounted, unsupported</b> |
| = max 3.28 (1 m)                 |
| <b>Rotary</b>                    |
| = requires further calculation   |

- Long travel: Max: 328 ft (100 m)

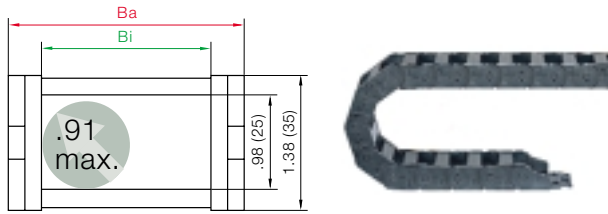
## Series 200/240/250 "E2 medium"



200  
240  
250

### Series 200 Energy Chain®

(non snap-open)

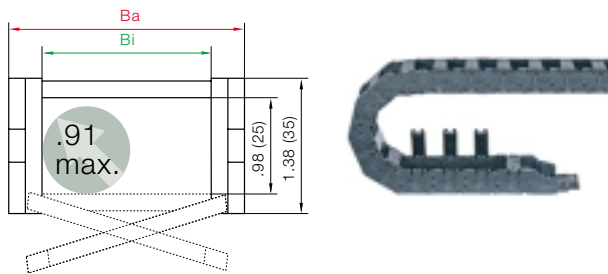


| Part No. | Bi         | Ba         | Bending Radii<br>for ALL Widths |
|----------|------------|------------|---------------------------------|
| 200-02   | .98 (25)   | 1.61 (41)  | 2.16 (055)                      |
| 200-03   | 1.50 (38)  | 2.13 (54)  | 2.95 (075)                      |
| 200-05   | 2.24 (57)  | 2.87 (73)  | 3.94 (100)                      |
| 200-07   | 3.03 (77)  | 3.66 (93)  | 4.92 (125)                      |
| 200-09   | 3.54 (90)  | 4.17 (106) | 5.91 (150)                      |
| 200-10   | 4.06 (103) | 4.69 (119) | 6.89 (175)                      |
| 200-12   | 4.92 (125) | 5.55 (141) | 7.87 (200)                      |
|          |            |            | 8.86 (225)                      |
|          |            |            | 9.84 (250)                      |

Supplement part no. with required radius  
for example, 200-02-100-0

### Series 240 Energy Chain®

(snap-open along inner radius)

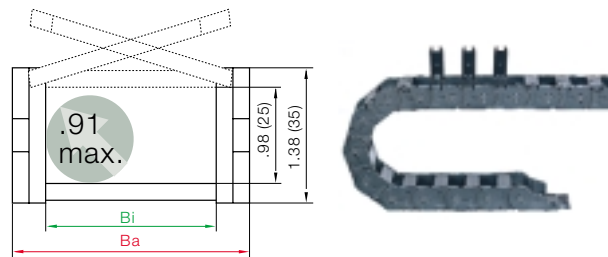


| Part No. | Bi         | Ba         | Bending Radii<br>for ALL Widths |
|----------|------------|------------|---------------------------------|
| 240-02   | .98 (25)   | 1.61 (41)  | 2.16 (055)                      |
| 240-03   | 1.50 (38)  | 2.13 (54)  | 2.95 (075)                      |
| 240-05   | 2.24 (57)  | 2.87 (73)  | 3.94 (100)                      |
| 240-07   | 3.03 (77)  | 3.66 (93)  | 4.92 (125)                      |
| 240-09   | 3.54 (90)  | 4.17 (106) | 5.91 (150)                      |
| 240-10   | 4.06 (103) | 4.69 (119) | 6.89 (175)                      |
| 240-12   | 4.92 (125) | 5.55 (141) | 7.87 (200)                      |
|          |            |            | 8.86 (225)                      |
|          |            |            | 9.84 (250)                      |

Supplement part no. with required radius  
for example, 240-02-100-0

### Series 250 Energy Chain®

(snap-open along outer radius)

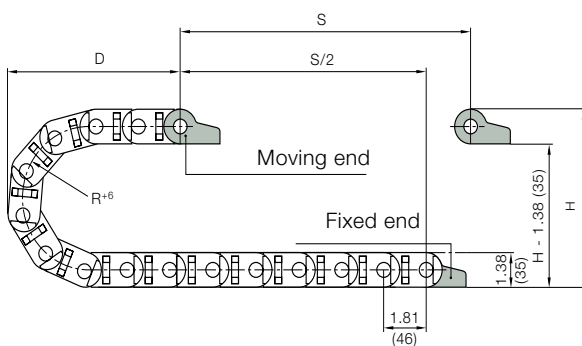


| Part No. | Bi         | Ba         | Bending Radii<br>for ALL Widths |
|----------|------------|------------|---------------------------------|
| 250-02   | .98 (25)   | 1.61 (41)  | 2.16 (055)                      |
| 250-03   | 1.50 (38)  | 2.13 (54)  | 2.95 (075)                      |
| 250-05   | 2.24 (57)  | 2.87 (73)  | 3.94 (100)                      |
| 250-07   | 3.03 (77)  | 3.66 (93)  | 4.92 (125)                      |
| 250-09   | 3.54 (90)  | 4.17 (106) | 5.91 (150)                      |
| 250-10   | 4.06 (103) | 4.69 (119) | 6.89 (175)                      |
| 250-12   | 4.92 (125) | 5.55 (141) | 7.87 (200)                      |
|          |            |            | 8.86 (225)                      |
|          |            |            | 9.84 (250)                      |

Supplement part no. with required radius  
for example, 250-02-100-0

! Series 250 -Standard for long travel (gliding application)

## Installation Dimensions



| R                              | 2.17 (55)   | 2.95 (75)   | 3.94 (100)  | 4.92 (125)  | 5.91 (150)  |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|
| H+ <sup>1</sup> / <sub>2</sub> | 5.71 (145)  | 7.28 (185)  | 9.25 (235)  | 11.22 (285) | 13.19 (335) |
| D                              | 4.92 (125)  | 5.91 (150)  | 6.69 (170)  | 7.68 (195)  | 8.66 (220)  |
| K                              | 10.87 (276) | 13.62 (346) | 16.30 (414) | 19.53 (496) | 22.76 (578) |

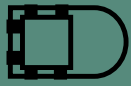
| R                              | 6.89 (175)  | 7.87 (200)  | 8.86 (225)  | 9.84 (250)  |  |
|--------------------------------|-------------|-------------|-------------|-------------|--|
| H+ <sup>1</sup> / <sub>2</sub> | 15.16 (385) | 17.13 (435) | 19.09 (485) | 21.06 (535) |  |
| D                              | 9.65 (245)  | 10.63 (270) | 11.61 (295) | 12.60 (320) |  |
| K                              | 25.98 (660) | 29.21 (742) | 32.05 (814) | 36.22 (920) |  |

\*The required clearance height is HF = H + .98 (25) with 1.01 (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Pitch: = 1.81 (46 mm) per link  
Links per ft (m): = 6.71 (22)  
Chain length: =  $\frac{S}{2} + K$

Series  
200/240/250

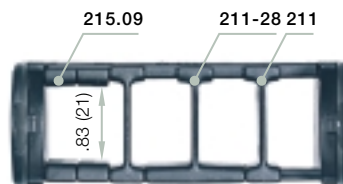
Telephone 1-800-521-2747  
Fax 1-401-438-7270



## Interior Separation

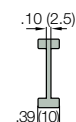
### Option 1: vertical separators

Separators are the only option when compartmentalizing the interior of the non-snap-open chain (Series 200). If a large distance between separators is required, it is possible to use separators with wide feet (not Series 200) or spacers. Both are predominantly used for side-mounted Energy Chains®.



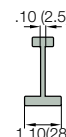
#### Spacer

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 205-09 |
| Assembled   | Part No. 215-09 |



#### Vertical Separator

|             |              |
|-------------|--------------|
| Unassembled | Part No. 201 |
| Assembled   | Part No. 211 |

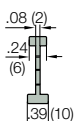
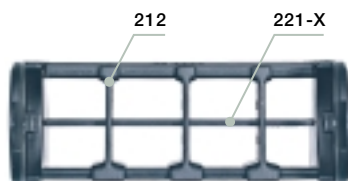


#### Vertical Separators

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 201-28 |
| Assembled   | Part No. 211-28 |

### Option 2: full-width shelf

This option is available for the snap-open Series 240/250 chains. It is ideal for use in applications involving many thin cables with similar or identical diameters. This shelf slides into place and spans the entire width of the chain.



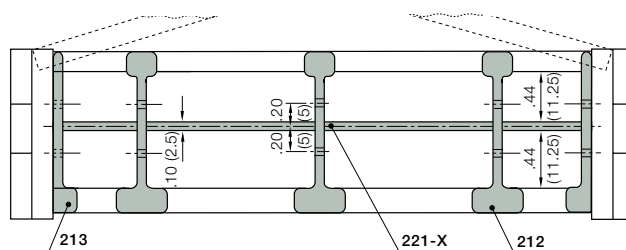
#### Side Plates

|             |              |
|-------------|--------------|
| Unassembled | Part No. 202 |
| Assembled   | Part No. 212 |



#### Side Plates

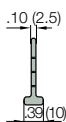
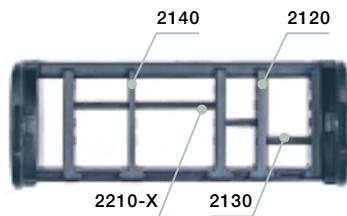
|             |              |
|-------------|--------------|
| Unassembled | Part No. 203 |
| Assembled   | Part No. 213 |



| Width X<br>in. (mm) | Part No.<br>Unassembled | Part No.<br>Assembled |
|---------------------|-------------------------|-----------------------|
| .98 (25)            | 220-25                  | 221-25                |
| 1.50 (38)           | 220-38                  | 221-38                |
| 2.24 (57)           | 220-57                  | 221-57                |
| 3.03 (77)           | 220-77                  | 221-77                |
| 3.54 (90)           | 220-90                  | 221-90                |
| 4.06 (103)          | 220-103                 | 221-103               |
| 4.92 (125)          | 220-125                 | 221-125               |

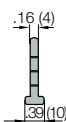
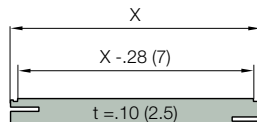
### Option 3: shelves

This option is available for the Series 240/250 snap-open chains. It is ideal for use in applications involving many cables with different diameters. This option allows for variable compartment heights and widths across the chain width, but can also be used for level separation across the entire width.



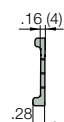
#### Vertical Separator

|             |               |
|-------------|---------------|
| Unassembled | Part No. 2040 |
| Assembled   | Part No. 2140 |



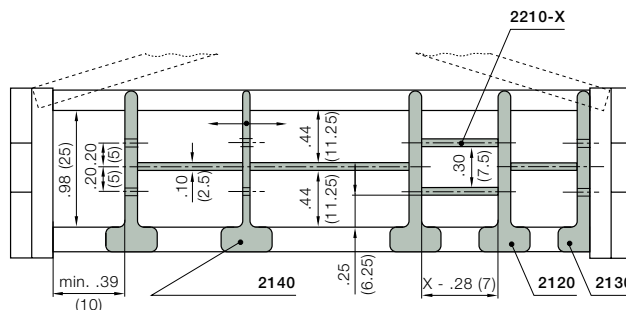
#### Vertical Separator

|             |               |
|-------------|---------------|
| Unassembled | Part No. 2020 |
| Assembled   | Part No. 2120 |



#### Side Plates

|             |               |
|-------------|---------------|
| Unassembled | Part No. 2030 |
| Assembled   | Part No. 2130 |



| Width X<br>in. (mm) | Part No.<br>Unassembled | Part No.<br>Assembled |
|---------------------|-------------------------|-----------------------|
| .71 (18)            | 2200-18                 | 2210-18               |
| .91 (23)            | 2200-23                 | 2210-23               |
| 1.10 (28)           | 2200-28                 | 2210-28               |
| 1.30 (33)           | 2200-33                 | 2210-33               |
| 1.50 (38)           | 2200-38                 | 2210-38               |
| 1.69 (43)           | 2200-43                 | 2210-43               |
| 1.89 (48)           | 2200-48                 | 2210-48               |
| 2.28 (58)           | 2200-58                 | 2210-58               |
| 2.68 (68)           | 2200-68                 | 2210-68               |
| 2.87 (73)           | 2200-73                 | 2210-73               |
| 3.46 (88)           | 2200-88                 | 2210-88               |
| 3.90 (99)           | 2200-99                 | 2210-99               |
| 4.88 (124)          | 2200-124                | 2210-124              |

# Series 200/240/250 E2 “medium”

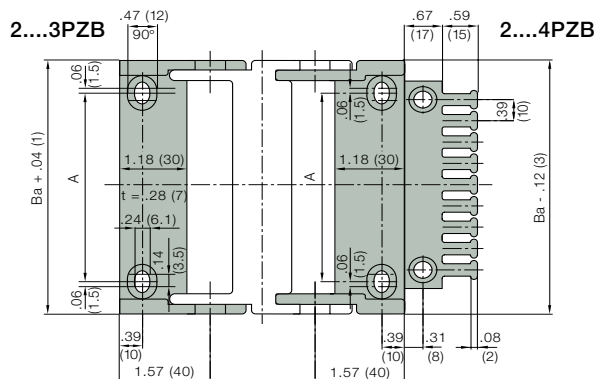
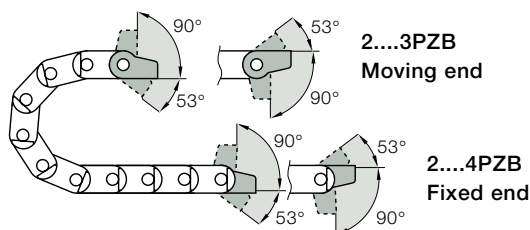


200  
240  
250

## Mounting Brackets

### Option 1: pivoting

- Pivoting
- Short and long travel
- Space-restricted conditions
- Corrosion-resistant

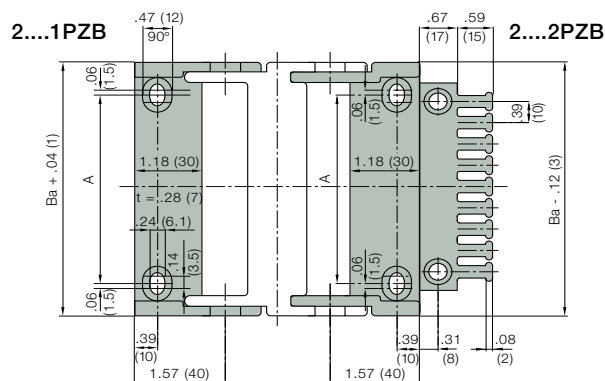
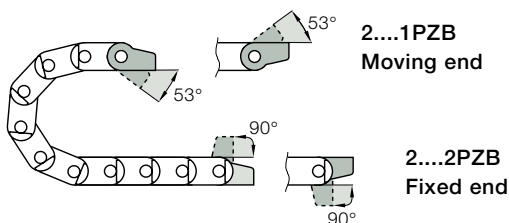


| Chain Type     | Part No.<br>Full Set with<br>Tiewrap<br>Plates | Part No. Set<br>with Tiewrap<br>Plates and 10<br>Cable Tiewraps | Part No.<br>Mounting<br>Bracket<br>Set | Dimension A<br>in. (mm) |
|----------------|------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|-------------------------|
| 200/240/250-02 | 2020-34PZB                                     | 2020-34PZBK1                                                    | 2020-34PZ                              | .47 (12)                |
| 200/240/250-03 | 2030-34PZB                                     | 2030-34PZBK1                                                    | 2030-34PZ                              | .98 (25)                |
| 200/240/250-05 | 2050-34PZB                                     | 2050-34PZBK1                                                    | 2050-34PZ                              | 1.73 (44)               |
| 200/240/250-07 | 2070-34PZB                                     | 2070-34PZBK1                                                    | 2070-34PZ                              | 2.52 (64)               |
| 200/240/250-09 | 2090-34PZB                                     | 2090-34PZBK1                                                    | 2090-34PZ                              | 3.03 (77)               |
| 200/240/250-10 | 2100-34PZB                                     | 2100-34PZBK1                                                    | 2100-34PZ                              | 3.54 (90)               |
| 200/240/250-12 | 2125-34PZB                                     | 2125-34PZBK1                                                    | 2125-34PZ                              | 4.41 (112)              |

2...34 PZB = Full set, each part with pin/bore, including tiewrap plates  
 2...3 PZB = Mounting bracket with bore, including tiewrap plates  
 2...4 PZB = Mounting bracket with pin, including tiewrap plates

### Option 2: locking

- Locked connections
- Vertical hanging/standing travels
- Extreme accelerations
- Corrosion-resistant

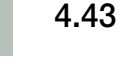


| Chain Type     | Part No.<br>Full Set with<br>Tiewrap<br>Plates | Part No. Set<br>with Tiewrap<br>Plates and 10<br>Cable Tiewraps | Part No.<br>Mounting<br>Bracket<br>Set | Dimension A<br>in. (mm) |
|----------------|------------------------------------------------|-----------------------------------------------------------------|----------------------------------------|-------------------------|
| 200/240/250-02 | 2020-12PZB                                     | 2020-12PZBK1                                                    | 2020-12PZ                              | .47 (12)                |
| 200/240/250-03 | 2030-12PZB                                     | 2030-12PZBK1                                                    | 2030-12PZ                              | .98 (25)                |
| 200/240/250-05 | 2050-12PZB                                     | 2050-12PZBK1                                                    | 2050-12PZ                              | 1.73 (44)               |
| 200/240/250-07 | 2070-12PZB                                     | 2070-12PZBK1                                                    | 2070-12PZ                              | 2.52 (64)               |
| 200/240/250-09 | 2090-12PZB                                     | 2090-12PZBK1                                                    | 2090-12PZ                              | 3.03 (77)               |
| 200/240/250-10 | 2100-12PZB                                     | 2100-12PZBK1                                                    | 2100-12PZ                              | 3.54 (90)               |
| 200/240/250-12 | 2125-12PZB                                     | 2125-12PZBK1                                                    | 2125-12PZ                              | 4.41 (112)              |

2...12 PZB = Full set, each part with pin/bore, including tiewrap plates  
 2...1 PZB = Mounting bracket with bore, including tiewrap plates  
 2...2 PZB = Mounting bracket with pin, including tiewrap plates

Series  
200/240/250

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

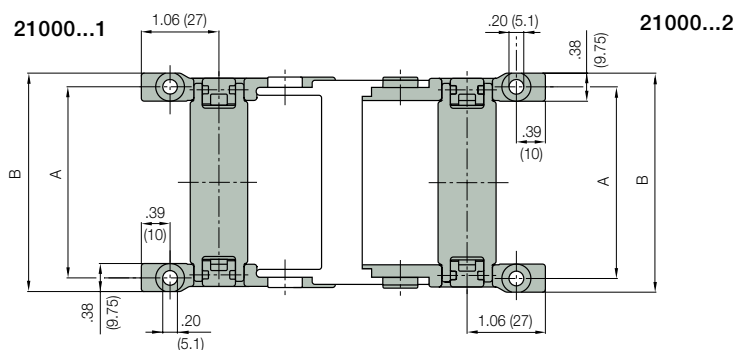
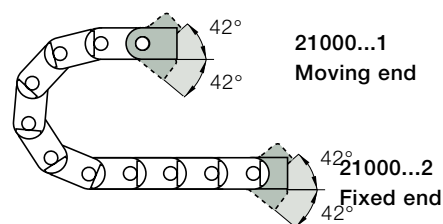




## Mounting Brackets

## Option 3: KMA pivoting

- Pivoting
- Short travels
- Space-restricted conditions
- Corrosion-resistant
- Bolted connection outside of chain cross-section



- Stackable

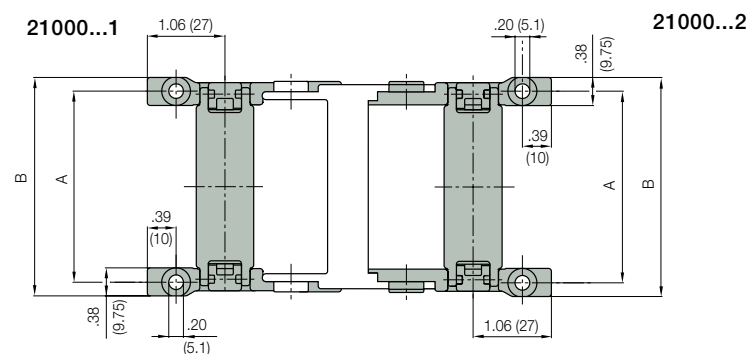
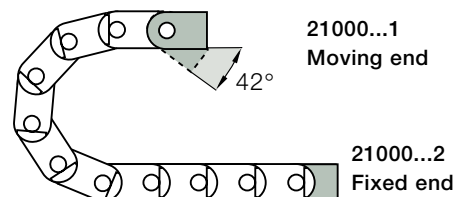


| Chain Type     | Part No.<br>Full Set | Dimension A |         | Dimension B |       |
|----------------|----------------------|-------------|---------|-------------|-------|
|                |                      | in.         | (mm)    | in.         | (mm)  |
| 200/240/250-02 | 20000-02-12          | 1.36        | (34.5)  | 1.73        | (44)  |
| 200/240/250-03 | 20000-03-12          | 1.87        | (47.5)  | 2.24        | (57)  |
| 200/240/250-05 | 20000-05-12          | 2.62        | (66.5)  | 2.99        | (76)  |
| 200/240/250-07 | 20000-07-12          | 3.41        | (86.5)  | 3.78        | (96)  |
| 200/240/250-09 | 20000-09-12          | 3.92        | (99.5)  | 4.29        | (109) |
| 200/240/250-10 | 20000-10-12          | 4.43        | (112.5) | 4.80        | (122) |
| 200/240/250-12 | 20000-12-12          | 5.30        | (134.5) | 5.67        | (144) |

21000...12 = Full set, each with pin/bore  
 21000...1 = Mounting bracket with bore  
 21000...2 = Mounting bracket with pin

## Option 4: KMA locking

- Locked connections
- Vertical hanging/standing travels
- Extreme accelerations
- Corrosion-resistant
- Bolted connection outside of chain cross-section



- Stackable



| Chain Type     | Part No.<br>Full Set | Dimension A |         | Dimension B |       |
|----------------|----------------------|-------------|---------|-------------|-------|
|                |                      | in.         | (mm)    | in.         | (mm)  |
| 200/240/250-02 | 21000-02-12          | 1.36        | (34.5)  | 1.73        | (44)  |
| 200/240/250-03 | 21000-03-12          | 1.87        | (47.5)  | 2.24        | (57)  |
| 200/240/250-05 | 21000-05-12          | 2.62        | (66.5)  | 2.99        | (76)  |
| 200/240/250-07 | 21000-07-12          | 3.41        | (86.5)  | 3.78        | (96)  |
| 200/240/250-09 | 21000-09-12          | 3.92        | (99.5)  | 4.29        | (109) |
| 200/240/250-10 | 21000-10-12          | 4.43        | (112.5) | 4.80        | (122) |
| 200/240/250-12 | 21000-12-12          | 5.30        | (134.5) | 5.67        | (144) |

21000...12 = Full set, each with pin/bore  
 21000...1 = Mounting bracket with bore  
 21000...2 = Mounting bracket with pin

# Series 200/240/250 E2 “medium”

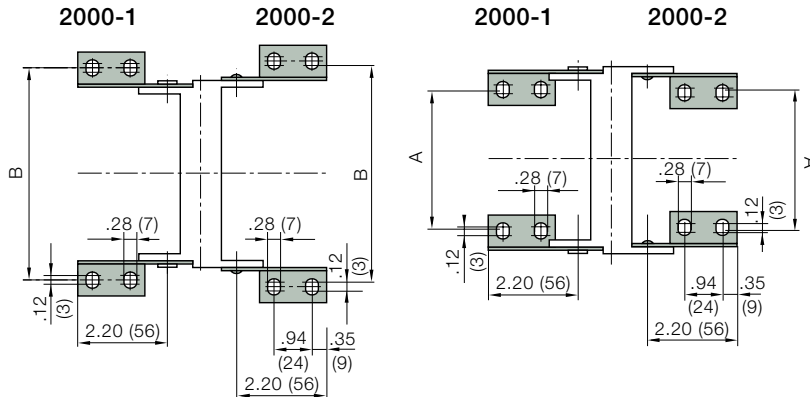
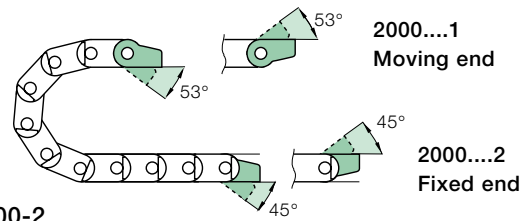


200  
240  
250

## Mounting Brackets

### Option 5: Steel

- One part for all chain widths
- Electrically conductive



| Chain Type     | Part No.<br>Full Set | Dimension A<br>in. (mm) | Dimension B<br>in. (mm) |
|----------------|----------------------|-------------------------|-------------------------|
| 200/240/250-02 | 2000-12              | –                       | 2.36 (60)               |
| 200/240/250-03 | 2000-12              | .98 (25)                | 2.87 (73)               |
| 200/240/250-05 | 2000-12              | 1.73 (44)               | 3.62 (92)               |
| 200/240/250-07 | 2000-12              | 2.52 (64)               | 4.41 (112)              |
| 200/240/250-09 | 2000-12              | 2.99 (76)               | 4.88 (124)              |
| 200/240/250-10 | 2000-12              | 3.54 (90)               | 5.43 (138)              |
| 200/240/250-12 | 2000-12              | 4.41 (112)              | 6.30 (160)              |

2000-12 = Full set, 4 parts,  
2 with pin, 2 with bore  
2000-1 = Mounting bracket with bore,  
1 part left/right  
2000-2 = Mounting bracket with pin,  
1 part left/right

## Strain Relief for Polymer Mounting Brackets (pivoting or locking)

The strain relief tiwrap plates can be snapped directly onto the mounting bracket without additional hardware. When the mounting brackets are bolted into place, the tiwrap plates are also connected firmly to the machine surface. No separate installation is necessary. Cable tiwraps secure cables using the “teeth” of the tiwrap plate for time-saving, effective strain relief.

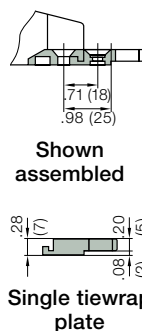
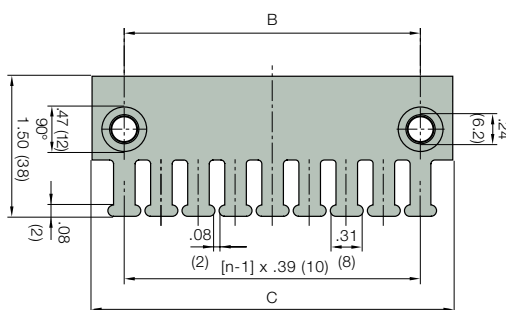


## Strain relief for KMA and steel mounting brackets

With these mounting brackets, strain relief tiwrap plates may be bolted into the bores in front of the mounting bracket.



## Tiwrap plate as an individual part



| Tiwrap Plates | n<br>Number of Teeth | C<br>Overall Width | B<br>Distance Between Bore Holes |
|---------------|----------------------|--------------------|----------------------------------|
| 2020-ZB       | 3                    | 1.18 (30)          | .59 (15)                         |
| 2030-ZB       | 4                    | 1.57 (40)          | .79 (20)                         |
| 2040-ZB       | 5                    | 1.97 (50)          | 1.18 (30)                        |
| 2050-ZB       | 6                    | 2.36 (60)          | 1.57 (40)                        |
| 2070-ZB       | 8                    | 3.15 (80)          | 2.36 (60)                        |
| 2090-ZB       | 9                    | 3.54 (90)          | 2.76 (70)                        |
| 2100-ZB       | 10                   | 3.94 (100)         | 3.15 (80)                        |
| 2120-ZB       | 12                   | 4.72 (120)         | 3.94 (100)                       |

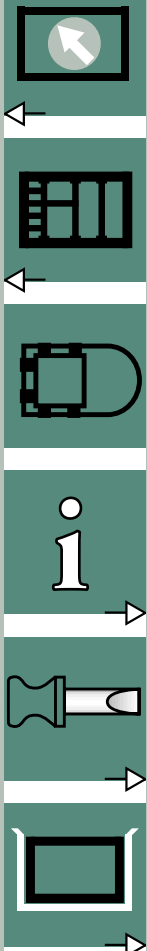
## Cable tiwraps as individual parts

| Cable tiwraps<br>100 pieces/bag | Width x Length<br>in. (mm) | Maximum Ø<br>in. (mm) | Tensile Strength<br>lbs (N) |
|---------------------------------|----------------------------|-----------------------|-----------------------------|
| CFB-001                         | .19 x 5.91 (4.8 x 150)     | 1.42 (36)             | 50 (222)                    |

- Other strain relief elements
- Strain Relief, Chapter 10

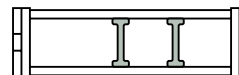
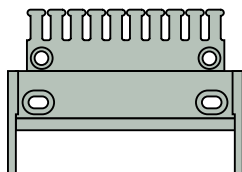
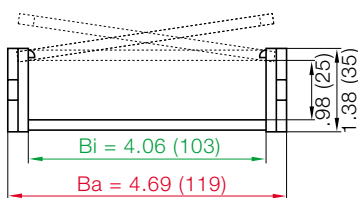
Series  
200/240/250

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## Order example

250-10



### 1. Chain selection:

250-10-100-0

- Color black
- Radius
- Width
- Chain type

### 2. Mounting brackets:

2100-34-PZB

- With tiewrap plates
- Full set, pivoting
- Chain width

### 3. Interior separation:

2 separators, unassembled, (Part No. 201), or assembled every other link (Part No. 211). Alternative interior separation configuration according to design layout possible.

### 4. Additional information on guide troughs ► Page 4.47

For 16.4 ft (5 m) chain, color black, with pivoting mounting brackets  
16.4 ft (5 m) 250-10-100-0 and 2100-34PZ

110 links — 6.71 links/ft (22 links/m)

## Technical data

| Chain Type     | Weight Per Link |         | Weight   |        |
|----------------|-----------------|---------|----------|--------|
|                | (oz.)           | (g)     | (lbs/ft) | (kg/m) |
| 200/240/250-02 | 0.074           | (0.034) | 0.50     | (0.74) |
| 200/240/250-03 | 0.081           | (0.037) | 0.54     | (0.81) |
| 200/240/250-05 | 0.090           | (0.041) | 0.60     | (0.90) |
| 200/240/250-07 | 0.101           | (0.046) | 0.68     | (1.01) |
| 200/240/250-09 | 0.115           | (0.052) | 0.73     | (1.08) |
| 200/240/250-10 | 0.128           | (0.058) | 0.77     | (1.15) |
| 200/240/250-12 | 0.141           | (0.064) | 0.82     | (1.22) |

|                       |                           |
|-----------------------|---------------------------|
| Material              | igumid G                  |
| Permitted temperature | -40°/+266°F (-40°/+130°C) |
| Gliding speed max.    | 16.4 ft/s (5 m/s)         |
| Unsupported V max.    | 32.8 ft/s (10 m/s)        |
| Flammability class    | VDE 0304 IIC UL94 1H      |

- Details of material properties
- Design, Chapter 1

### Guide Troughs



- Other technical data on guide troughs
- Chapter 9



# Series 200/240/250 E2 “medium”

## Assembly Instructions



1. To open crossbars: press screwdriver into tab on top of link, lever screwdriver until crossbar opens



2. Repeat Step 1 on other side



3. To close crossbars: push down on crossbar with thumb until it snaps into place



4. Joining chain sections: push sections together; angle one side until pin snaps into bore; repeat on other side



5. Separating chain sections: insert screwdriver between two links



6. Twist until pin disengages from bore; pull sections apart



7. Attaching mounting brackets: snap bracket into link (see Step 4 - “Joining chain sections”)



8. Snap tiewrap plate into bottom groove of the mounting bracket

## Guide Troughs

Guide troughs are used with applications where the upper run of the Energy Chain® glides on the lower run. If using igus® steel guide troughs, the following components are required:

- Full travel length of guide trough  
**Part Number 92-30**
- 1/2 travel length of glide bars  
**Part Number 92-01**
- Installation sets as end connectors  
**Part Number 92-50-XX**

-XX indicates the length of the profile rail on which the guide trough is mounted. The values and part numbers are specified in the table on the left. The standard length of the trough components and glide bars is 6.56 ft (2 m.) The required overall length of the guide trough directly correlates to the length of travel.

### Example:

Length of travel 164 ft (50 m)  
Center mounted

### Required guide troughs:

164 ft (50 m) guide trough  
82 ft (25 m) glide bar

= 25 sections of 6.56 ft  
(2 m) guide trough

### Part No. 92-30

= 13 sections of 6.56 ft (2 m) glide bar

### Part No. 92-01

### Required number of installation sets:

= Number of guide trough components + 1  
= 25 + 1 = 26

Part number of the installation sets

Example: 92-50-400 for 15.75" (400 mm) long profile rail.

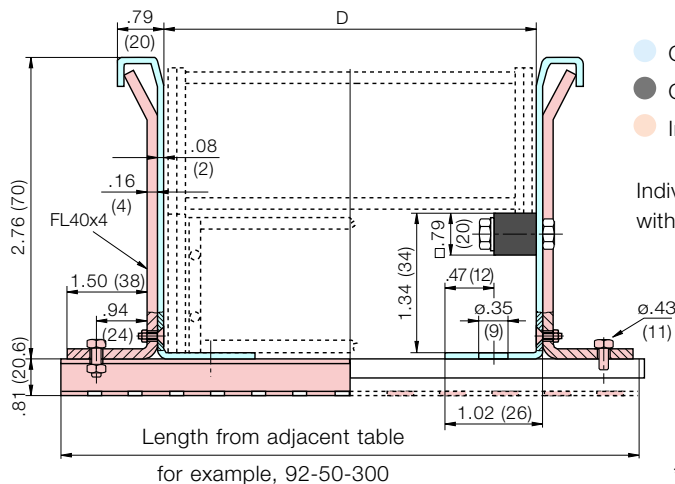


Width of Crossbar  
250-05-200-0

Dimension D

Installation  
Part No.

|      |            |           |
|------|------------|-----------|
| -02* | 1.81 (46)  | 92-50-150 |
| -03  | 2.32 (59)  | 92-50-175 |
| -05  | 3.07 (78)  | 92-50-175 |
| -07  | 3.86 (98)  | 92-50-200 |
| -09  | 4.37 (111) | 92-50-250 |
| -10  | 4.88 (124) | 92-50-250 |
| -12  | 5.75 (146) | 92-50-300 |



- Guide trough
- Glide bars
- Installation set

Individual attachment  
without profile rail

Standard length profile rail

\* Specialized guide  
trough available  
upon request

200  
240  
250

Series  
200/240/250

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