







## Extremely low noise, vibration and abrasion, cleanroom suitable



### Advantages of the E6 system:

- For very high speeds and accelerations
- For small bend radii
- High strength
- Available as closed e-tube for some sizes
- Low-noise 37dB(A)<sup>1)</sup> - extremely low noise and vibration
- Suitable for cleanroom according to IPA ISO Class 3<sup>2)</sup>
- Tested for ISO class 1 cleanroom use

1) Extremely low-noise - tested at the igus® lab

2) Cleanroom IG0704-400 ISO Class 3 for E6.29.060.150.0 series



### When to use another e-chain® series:

- With only limited suitability for side-mounted applications
  - ▶ E4.1L, page 546
  - ▶ E2/000, page 382
- For longer unsupported lengths
  - ▶ E4.1L, page 546
  - ▶ E2/000, page 382
- For long travels
  - ▶ E4.1, page 626
  - ▶ E2/000, page 382
- For even less vibration and noise or even greater dynamics
  - ▶ E6.1, page 848

## Extremely low noise, vibration and abrasion, cleanroom suitable - system E6

The E6 series offers numerous advantages in addition to long life. It provides extremely quiet, low vibration operation, complimenting low vibration linear drives. It minimizes the polygon effect which can occur during the rolling motion of an e-chain®. The ultra-low noise levels have been confirmed in a recent report by the Rheinland Technical Inspection Agency. Our extensive product range offers the right e-chain® size for any application; a wide range of interior separation is also available.

1) Extremely low-noise - tested at the igus® lab

2) Cleanroom Class 1 proven in the igus® laboratory and Class 3 certified IG0704-400 IPA

### Typical industries and applications

- Cleanroom ● Stage and theatre technology
- Printing machines ● Automation ● Machine tools
- Measuring machines ● Semiconductor industry ● Medical industry ● Electronic industry
- General machinery



**IPA cleanroom Class 3<sup>2)</sup>, according to DIN EN ISO 14644-1** for series E6.29.060.150.0 at  $v = 1.64\text{ft/s}$  (0.5m/s), 6.56ft/s (2.0m/s)



37dB(A)<sup>1)</sup> - value determined at the igus® test lab,  $v = 3.28\text{ft/s}$  (1.0m/s) unsupported, series E6.29.080.075.0

Attachment from any side with KMA mounting brackets

Low noise from 37dB(A)<sup>1)</sup>: small pitch for low noise, smooth running

Long service life: low vibration, high strength

Dynamic: high speeds and accelerations

Quick assembly: openable along the inner and outer radius

Modular design: can be easily lengthened and shortened

High strength: for unsupported applications

No wear: polymer spring - no pin and bore connection

Variant: available as closed e-tube for some sizes

Cleanroom Class 1<sup>2)</sup>: virtually no wear or abrasion

# E6 | Selection table

| Series | Inner height<br><i>hi</i><br>in. (mm) | Inner width<br><i>Bi</i><br>in. (mm) | Outer width<br><i>Ba</i><br>in. (mm) | Outer height<br><i>ha</i><br>in. (mm) | Bend radius<br><i>R</i><br>in. (mm) | Unsupported<br>length<br>≤ ft. (m) |
|--------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|------------------------------------|
|--------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|------------------------------------|



## E6 e-chains®

crossbars removable along the inner and outer radius - standard

|        |           |                     |                      |            |                      |                |
|--------|-----------|---------------------|----------------------|------------|----------------------|----------------|
| E6.29  | 1.14 (29) | 1.18-5.51 (30-140)  | 1.81-6.14 (46-156)   | 1.38 (35)  | 2.17-5.91 (055-150)  | ≈ 5.74 (1.75)  |
| E6.35  | 1.38 (35) | 1.18-5.51 (30-140)  | 1.97-6.30 (50-160)   | 1.65 (42)  | 2.17-5.91 (055-150)  | ≈ 6.23 (1.90)  |
| E6.40  | 1.57 (40) | 1.57-11.81 (40-300) | 2.36-12.60 (60-320)  | 2.12 (54)  | 2.48-7.87 (063-200)  | ≈ 8.20 (2.50)  |
| E6.52  | 2.05 (52) | 1.57-11.81 (40-300) | 2.52-12.76 (64-324)  | 2.56 (65)  | 2.95-9.84 (075-250)  | ≈ 9.84 (3.00)  |
| E6.62  | 2.44 (62) | 1.97-15.75 (50-400) | 3.39-17.17 (86-436)  | 3.31 (84)  | 4.53-13.78 (115-350) | ≈ 13.12 (4.00) |
| E6.80L | 3.15 (80) | 3.53-21.65 (87-550) | 4.53-22.76 (115-578) | 4.25 (108) | 5.91-11.81 (150-300) | ≈ 8.20 (2.50)  |
| E6.80  | 3.15 (80) | 1.97-23.62 (50-600) | 3.94-25.59 (100-650) | 4.25 (108) | 5.91-17.72 (150-450) | ≈ 17.23 (5.25) |



## R6 e-tubes

fully enclosed - lids removable along the inner and outer radius

|       |           |                    |                    |           |                     |               |
|-------|-----------|--------------------|--------------------|-----------|---------------------|---------------|
| R6.29 | 1.10 (28) | 1.18-4.72 (30-120) | 1.81-6.14 (46-156) | 1.38 (35) | 2.17-5.91 (055-150) | ≈ 5.74 (1.75) |
| R6.40 | 1.57 (40) | 2.44-2.95 (62-75)  | 3.22-3.74 (82-95)  | 2.12 (54) | 2.48-7.87 (063-200) | ≈ 8.20 (2.50) |
| R6.52 | 2.05 (52) | 1.97-7.87 (50-200) | 2.91-8.82 (74-224) | 2.56 (65) | 2.95-9.84 (075-250) | ≈ 9.84 (3.00) |

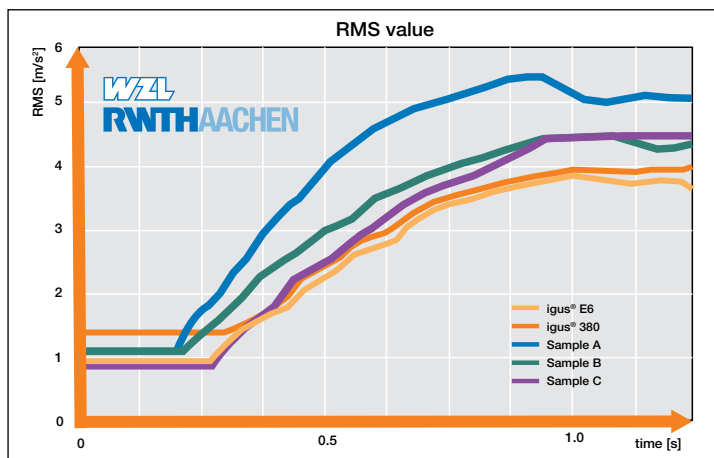


Available from stock. Ready to ship in 24 hours.\*

\*On average 90% of orders ship the same day..



Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ► From page 146



## E6 system – extremely quiet operation

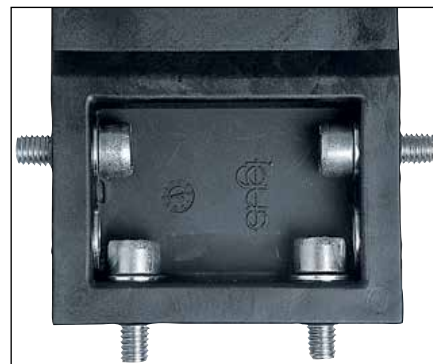
Study by the Machine Tools Laboratory and Business Operations (WZL) at RWTH Aachen on "Vibration Tests in Energy Supply Chains". Results: the "E6" energy supply system made by igus® GmbH, Cologne, is characterized by extremely low vibration and smooth operation.



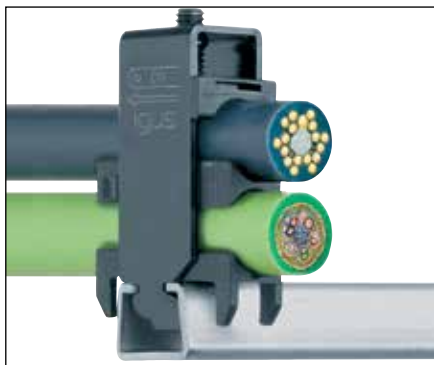
Lean separators enable extremely fast cable filling in several layers



Pivoting KMA mounting brackets - pivot angle corresponds to the bend radius



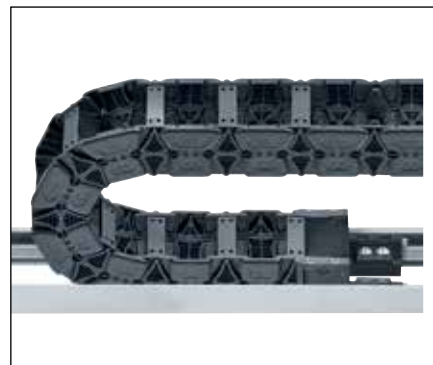
KMA mounting brackets with attachment options from any side



Strain relief e.g. clamps, tie-wrap plates, nuggets, etc. ► **From page 1418**



Aluminum "SuperTrough" - the standard igus® guide trough ► **From page 1336**



Aluminum and steel support trays for support of the lower run ► **From page 1394**



A linear drive provides the highly dynamic feed for PCBs. This system is twice as fast as handling units with a toothed-belt drive; designed to withstand high dynamic loads, E6 e-chains® ensure a supply of power, coolant and control data with ultra-low noise and vibration

## Cleanroom qualification of E6 e-chains®

By using a special material, the already low abrasion behavior of the e-chain® can be reduced even further. In many applications where cumbersome special solutions are required, a simple standard e-chain® can be used instead. IPA tests confirm that the standard e-chains® from igus® meet the requirements in cleanrooms and have been "Tested and certified as very good!". Cleanroom applications demand very high wear resistance of moving parts. e-chains®, for example, must be very wear-resistant, in order to meet the normal requirements for such a sensitive environment.



### IPA classification - report 0704-400:

- Standard material - IPA cleanroom Class 3, according to DIN EN ISO 14644-1 for series E6.29.060.150.0 at  $v = 1.64\text{ft/s}$  (0.5m/s), 6.56ft/s (2.0m/s) and series E6.29.050.055.0 with fitted cables CF34.15.04, CF9.05.12, CF11.02.01.02.PBA.LC.D



Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ► From page 146

## E6 e-chains® in low-noise areas - from 37dB(A)

### Selected noise tests - external noise corrected measurement values

| e-chain® series             | Test speed ft/s (m/s) | Test method              | Averaging of the corrected sound pressure levels |
|-----------------------------|-----------------------|--------------------------|--------------------------------------------------|
| igus® series E6.29*         | $v = 3.28$ (1.0)      | unsupported              | ≈ 37 dB(A)                                       |
| igus® series E6.52*         | $v = 1.64$ (0.5)      | side mounted unsupported | ≈ 41 dB(A)                                       |
| igus® series E6.52          | $v = 6.56$ (2.0)      | unsupported              | ≈ 46 dB(A)                                       |
| Chain 1 third-party product | $v = 6.56$ (2.0)      | unsupported              | ≈ 77 dB(A)                                       |
| Chain 2 third-party product | $v = 6.56$ (2.0)      | unsupported              | ≈ 68 dB(A)                                       |
| Chain 3 third-party product | $v = 6.56$ (2.0)      | unsupported              | ≈ 73 dB(A)                                       |

Source: TÜV Rheinland \*Source: igus® investigations



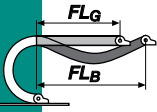
**Noise level  $\leq 37\text{dB(A)}$**  - a measurement conducted by the Rhineland Technical Inspection Authority (TÜV Rheinland) in May 2002 indicates a value of  $\leq 46\text{dB(A)}$  at 6.56ft/s (2m/s) and with an unsupported length of 4.92ft/s (1.5m) with series E6.52.100.100.0, and all this with at least 10dB(A) sound pressure level generated by external noise. We have received an official noise certificate from the Rhineland Technical Inspection Authority (TÜV Rheinland Berlin Brandenburg) and we are happy to provide you with a copy upon request. A measurement carried out in the igus® laboratory resulted in a value of 37dB(A) at  $v = 3.28\text{ft/s}$  (1m/s) for the series E6.29.080.075.0 (unsupported length).

## Technical data



Speed gliding<sup>1)</sup> / acceleration gliding

upon request



Speed  $FL_G$  / acceleration  $FL_G$

$\leq 64.6 \text{ ft/s (20 m/s) } / \leq 656 \text{ ft/s}^2 (200 \text{ m/s}^2)$

Speed  $FL_B$  / acceleration  $FL_B$

$\leq 9.84 \text{ ft. (3 m/s) } / \leq 19.69 \text{ ft/s}^2 (6 \text{ m/s}^2)$



igumid GE side part material - permitted temperature °F

upon request

igumid G crossbar material, permitted temperature °F

upon request

igumid TE Scalable crossbar material, permitted temperature °F

upon request



Flammability class, igumid G

VDE 0304 IIC UL94-HB

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

1) If a gliding application is required for a long travel, please consult igus®.

## Installation types, maximum travels

| Series        | Unsupported                      | Gliding <sup>1)</sup> | Vertical hanging                | Vertical standing               | Side mounted unsupported |
|---------------|----------------------------------|-----------------------|---------------------------------|---------------------------------|--------------------------|
| E6.29 / R6.29 | $\leq 11.48 \text{ ft. (3.5m)}$  | upon request          | $\leq 98.43 \text{ ft. (30m)}$  | $\leq 6.56 \text{ ft. (2.0m)}$  | upon request             |
| E6.35         | $\leq 12.47 \text{ ft. (3.8m)}$  | upon request          | $\leq 98.43 \text{ ft. (30m)}$  | $\leq 6.56 \text{ ft. (2.0m)}$  | upon request             |
| E6.40 / R6.40 | $\leq 16.41 \text{ ft. (5.0m)}$  | upon request          | $\leq 98.43 \text{ ft. (30m)}$  | $\leq 6.56 \text{ ft. (2.0m)}$  | upon request             |
| E6.52 / R6.52 | $\leq 19.69 \text{ ft. (6.0m)}$  | upon request          | $\leq 164 \text{ ft. (50m)}$    | $\leq 6.56 \text{ ft. (2.0m)}$  | upon request             |
| E6.62         | $\leq 26.25 \text{ ft. (8.0m)}$  | upon request          | $\leq 196.86 \text{ ft. (60m)}$ | $\leq 9.84 \text{ ft. (3.0m)}$  | upon request             |
| E6.80L        | $\leq 16.41 \text{ ft. (5.0m)}$  | upon request          | $\leq 196.86 \text{ ft. (60m)}$ | $\leq 13.12 \text{ ft. (4.0m)}$ | upon request             |
| E6.80L        | $\leq 34.45 \text{ ft. (10.5m)}$ | upon request          | $\leq 196.86 \text{ ft. (60m)}$ | $\leq 13.12 \text{ ft. (4.0m)}$ | upon request             |

1) If a gliding application is required for a long travel, please consult igus®.

# E6 | Options and order keys

## Options with order keys | Examples based on series E6.52



Standard

Simply turn outer side link,  
no additional rework

Part No.  
Standard



Part No.  
NC version



E6.52.100.R.0

E6.52.100.R.0.NC



Ready to ship in 72hrs.\*

Ready to ship in 72hrs.\*

\*On average 90% of orders ship the same day.

## Order key and color examples | Examples based on series E6.52



Order example for complete e-chain® 3.28 ft. (1m),  
color black, with mounting brackets and interior separation:

|                        |                                                                              |                 |
|------------------------|------------------------------------------------------------------------------|-----------------|
| e-chain® 3.28 ft. (1m) | Please indicate e-chain® length or number of links: 3.28ft. (1m) or 34 links | E6.52.100.075.0 |
| + Mounting brackets    | KMA pivoting - 1 set                                                         | E6.520.100.12   |
| Interior separation    | with 2 separators assembled every 2 <sup>nd</sup> link                       | 2 x 38222       |
| Order text:            | 3.28 ft (1m) E6.52.100.075.0 + E6.520.100.12 + 2 x 38222                     |                 |



### Order key

|                                    |                 |
|------------------------------------|-----------------|
| e-chain®                           | E6.52.100.075.0 |
| e-tube                             | R6.52.100.075.0 |
| Series / Type                      |                 |
| Width index (depends on <i>B</i> ) |                 |
| Bend radius <i>R</i>               |                 |
| Color index (standard black)       |                 |

### Order index for color options

| Color       | Order index       | Color      | Order index       |
|-------------|-------------------|------------|-------------------|
| Black       | Standard .0       | Orange     | Special color .2  |
| Silver-grey | Special color .31 | Yellow     | Special color .4  |
| White       | Special color .1  | Light grey | Special color .14 |
| Grey-white  | Special color .1S |            |                   |

Black e-chains® ready to ship in 72hrs.\*

Above special colors upon request.



e-chains® | Series E6.29 | Crossbars removable along the inner and outer radius  
 e-tubes | Series R6.29 | Lids removable along the inner and outer radius

| Part No<br>e-chains® | Part No.<br>e-tubes | <i>Bi</i><br>in. (mm) | <i>Ba</i><br>in. (mm) | E6.29<br>lbs/ft. (kg/m) | R6.29<br>lbs/ft. (kg/m) |
|----------------------|---------------------|-----------------------|-----------------------|-------------------------|-------------------------|
| E6.29.030.R.0        | R6.29.030.R.0       | 1.18 (30)             | 1.81 (46)             | ≈ 0.49 (0.73)           | ≈ 0.54 (0.80)           |
| E6.29.040.R.0        | R6.29.040.R.0       | 1.57 (40)             | 2.20 (56)             | ≈ 0.50 (0.75)           | ≈ 0.57 (0.85)           |
| E6.29.050.R.0        | R6.29.050.R.0       | 1.97 (50)             | 2.60 (66)             | ≈ 0.52 (0.78)           | ≈ 0.60 (0.89)           |
| E6.29.060.R.0        | R6.29.060.R.0       | 2.36 (60)             | 2.99 (76)             | ≈ 0.54 (0.80)           | ≈ 0.63 (0.94)           |
| E6.29.070.R.0        | R6.29.070.R.0*      | 2.76 (70)             | 3.39 (86)             | ≈ 0.56 (0.83)           | ≈ 0.65 (0.97)           |
| E6.29.080.R.0        | R6.29.080.R.0       | 3.15 (80)             | 3.78 (96)             | ≈ 0.57 (0.85)           | ≈ 0.69 (1.03)           |
| E6.29.090.R.0        | R6.29.090.R.0*      | 3.54 (90)             | 4.17 (106)            | ≈ 0.59 (0.88)           | ≈ 0.73 (1.08)           |
| E6.29.100.R.0        | R6.29.100.R.0*      | 3.94 (100)            | 4.57 (116)            | ≈ 0.60 (0.90)           | ≈ 0.76 (1.13)           |
| E6.29.110.R.0        | R6.29.110.R.0       | 4.33 (110)            | 4.96 (126)            | ≈ 0.62 (0.93)           | ≈ 0.79 (1.18)           |
| E6.29.120.R.0        | R6.29.120.R.0       | 4.72 (120)            | 5.35 (136)            | ≈ 0.64 (0.95)           | ≈ 0.82 (1.22)           |
| E6.29.140.R.0        | —                   | 5.51 (140)            | 6.14 (156)            | ≈ 0.67 (1.00)           | —                       |

\*\*Width available upon request. Delivery time upon request.

Complete Part No. with required radius (*R*). Example: E6.29.080.100.0 / R6.29.080.100.0

#### Available bend radii

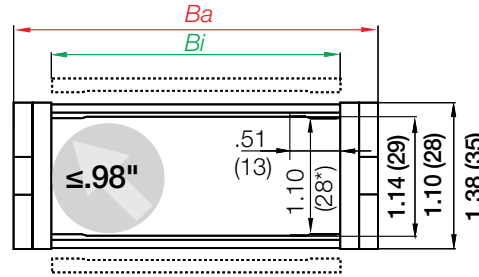
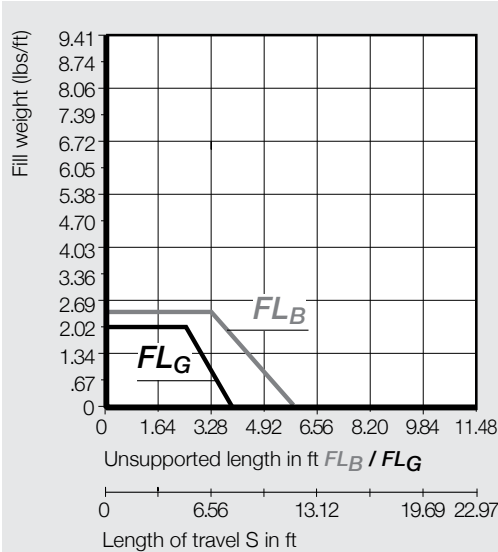
*R* in. (mm) | 2.17 (055) | 2.95 (075) | 3.94 (100) | 5.91 (150) |

#### Installation note - system E6

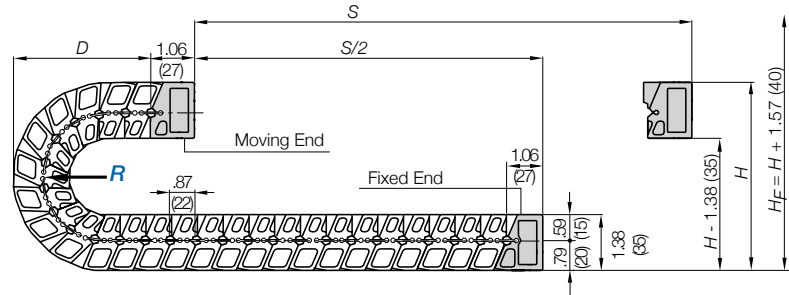
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



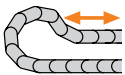


|                             |                         |
|-----------------------------|-------------------------|
| E6.29 Inner height in. (mm) | 1.14 (29)               |
| R6.29 Inner height in. (mm) | 1.10 (28)               |
| Pitch per link in. (mm)     | .87 (22)                |
| Links/ft (m)                | 13.79 (46)              |
| corresponds to (mm)         | 1,012                   |
| e-chain® length             | $L_K = \frac{S}{2} + K$ |



|          |                   |                   |                   |                   |
|----------|-------------------|-------------------|-------------------|-------------------|
| <b>R</b> | <b>2.17 (055)</b> | <b>2.95 (075)</b> | <b>3.94 (100)</b> | <b>5.91 (150)</b> |
| <b>H</b> | 7.09 (180)        | 8.66 (220)        | 10.63 (270)       | 14.57 (370)       |
| <b>D</b> | 4.25 (108)        | 5.04 (128)        | 6.02 (153)        | 7.99 (203)        |
| <b>K</b> | 8.66 (220)        | 11.02 (280)       | 14.17 (360)       | 20.47 (520)       |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.



If a gliding application is required for a long travel, please consult igus®.

### Aluminum support tray

- Corrosion-resistant and seawater-resistant aluminum rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-tube
- Open design - dirt and debris fall through

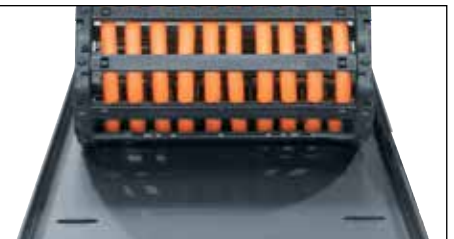
More information ► From page 1400

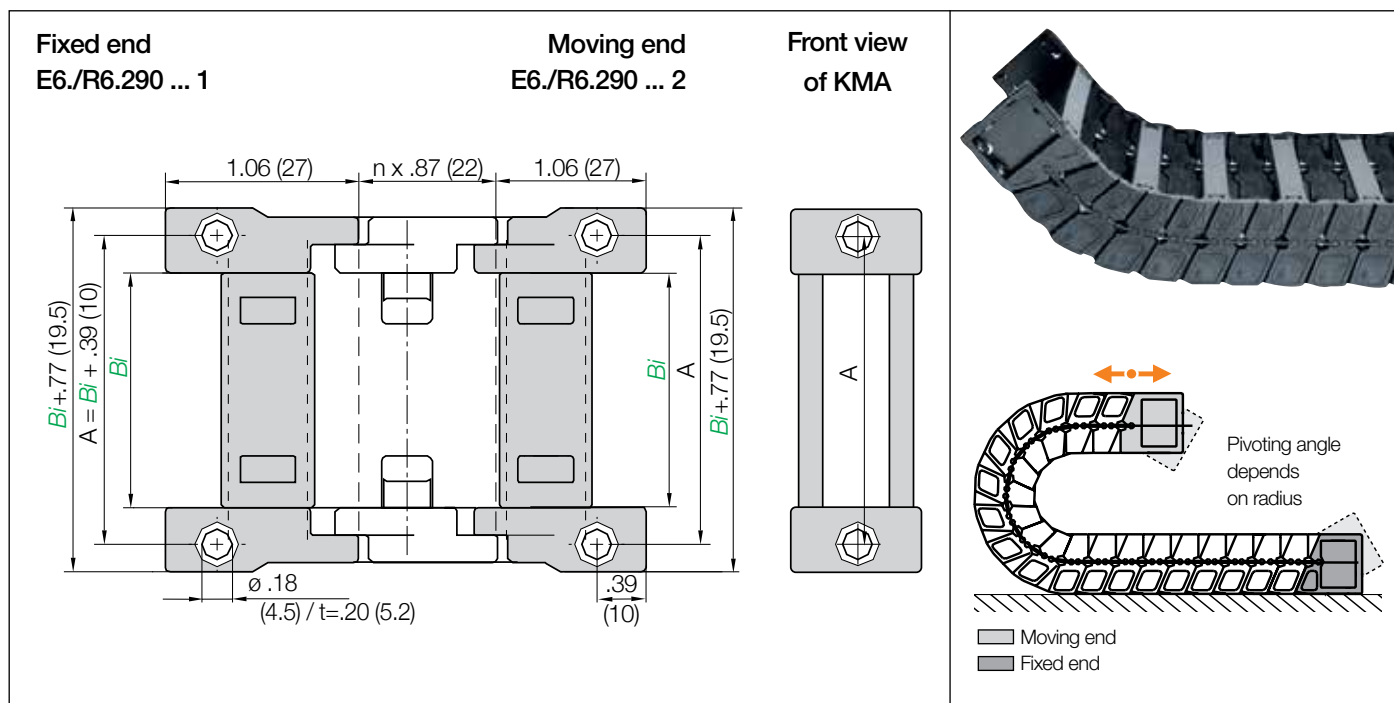


### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394





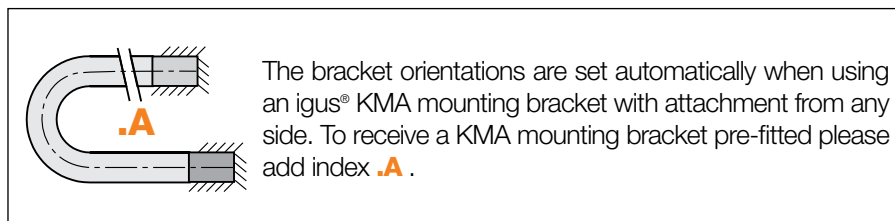
### KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A in. (mm) | $B_i$ in. (mm) |
|-------------|--------------------------------|------------|----------------|
| 030. ▶      | E6.290. R6.290. 030.12         | 1.57 (40)  | 1.18 (30)      |
| 040. ▶      | E6.290. R6.290. 040.12         | 1.97 (50)  | 1.57 (40)      |
| 050. ▶      | E6.290. R6.290. 050.12         | 2.36 (60)  | 1.97 (50)      |
| 060. ▶      | E6.290. R6.290. 060.12         | 2.76 (70)  | 2.36 (60)      |
| 070. ▶      | E6.290. R6.290.* 070.12        | 3.15 (80)  | 2.76 (70)      |
| 080. ▶      | E6.290. R6.290. 080.12         | 3.54 (90)  | 3.15 (80)      |

| Width index | Part No. full set KMA pivoting | A in. (mm) | $B_i$ in. (mm) |
|-------------|--------------------------------|------------|----------------|
| 090. ▶      | E6.290. R6.290.* 090.12        | 3.94 (100) | 3.54 (90)      |
| 100. ▶      | E6.290. R6.290.* 100.12        | 4.33 (110) | 3.94 (100)     |
| 110. ▶      | E6.290. R6.290. 110.12         | 4.72 (120) | 4.33 (110)     |
| 120. ▶      | E6.290. R6.290. 120.12         | 5.12 (130) | 4.72 (120)     |
| 140. ▶      | E6.290. R6.290. 140.12         | 4.92 (150) | 5.51 (140)     |

\*Width available upon request. Delivery time upon request.

(KMA = polymer metal mounting bracket)



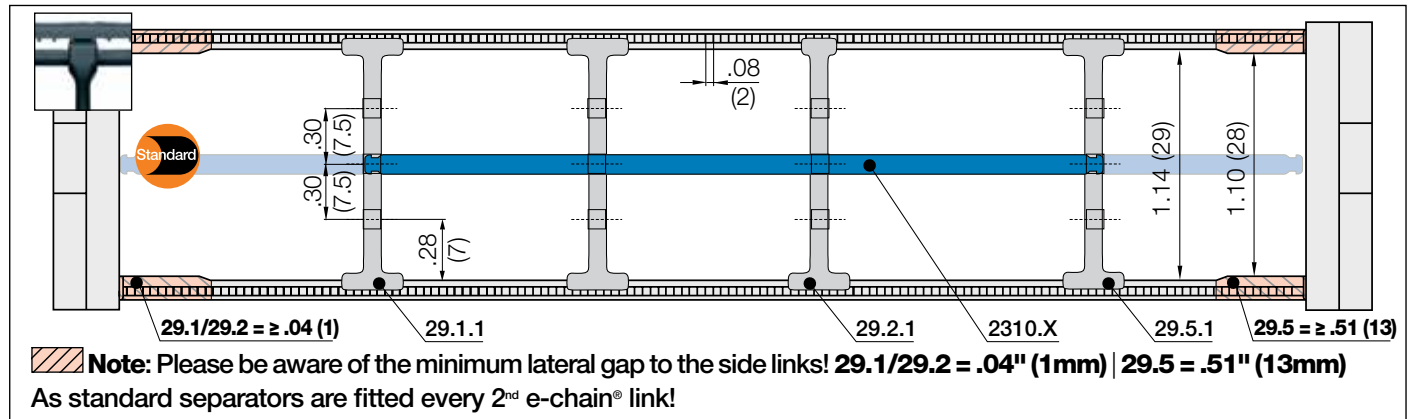
#### E61.290.080.12.**A** Order example

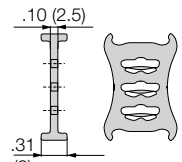
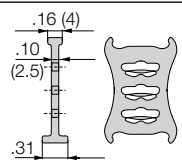
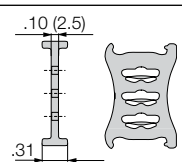
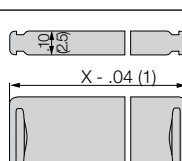


**Strain relief** e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1418

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ► next page)

Previous generation of interior separation with other options ► [www.igus.com/E6.29](http://www.igus.com/E6.29)



|                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |    | <b>Standard separator, wide base</b><br>unassembled 29.1<br>assembled 29.1.1         |
|    |    | <b>Separator, narrow top</b><br>unassembled 29.2<br>assembled 29.2.1                 |
|  |  | <b>Notch separator* for notched crossbar</b><br>unassembled 29.5<br>assembled 29.5.1 |
|  |  | <b>Shelf, lockable</b><br>unassembled 2300.X<br>assembled 2310.X                     |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### Locks securely in preset increments

(\*Suitable from **Bi 75**)

Notch separator for exact positioning. Recommended for side-mounted applications.

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

### Shelves

Width = X in. (mm)



| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|-----------|
| .59 (015)  | 2300.015    | 2310.015  | 2.36 (060) | 2300.060    | 2310.060  | 3.43 (087) | 2300.087    | 2310.087  |
| .98 (025)  | 2300.025    | 2310.025  | 2.44 (062) | 2300.062    | 2310.062  | 3.54 (090) | 2300.090    | 2310.090  |
| 1.18 (030) | 2300.030    | 2310.030  | 2.56 (065) | 2300.065    | 2310.065  | 3.94 (100) | 2300.100    | 2310.100  |
| 1.50 (038) | 2300.038    | 2310.038  | 2.76 (070) | 2300.070    | 2310.070  | 4.06 (103) | 2300.103    | 2310.103  |
| 1.57 (040) | 2300.040    | 2310.040  | 2.95 (075) | 2300.075    | 2310.075  | 4.33 (110) | 2300.110    | 2310.110  |
| 1.97 (050) | 2300.050    | 2310.050  | 3.03 (077) | 2300.077    | 2310.077  | 47.2 (120) | 2300.120    | 2310.120  |
| 2.24 (057) | 2300.057    | 2310.057  | 3.15 (080) | 2300.080    | 2310.080  | 4.92 (125) | 2300.125    | 2310.125  |

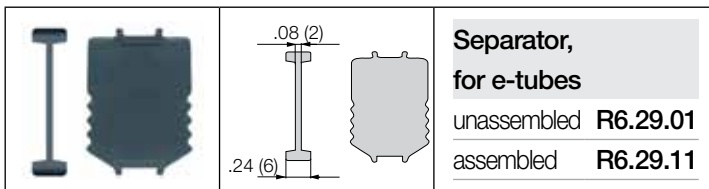
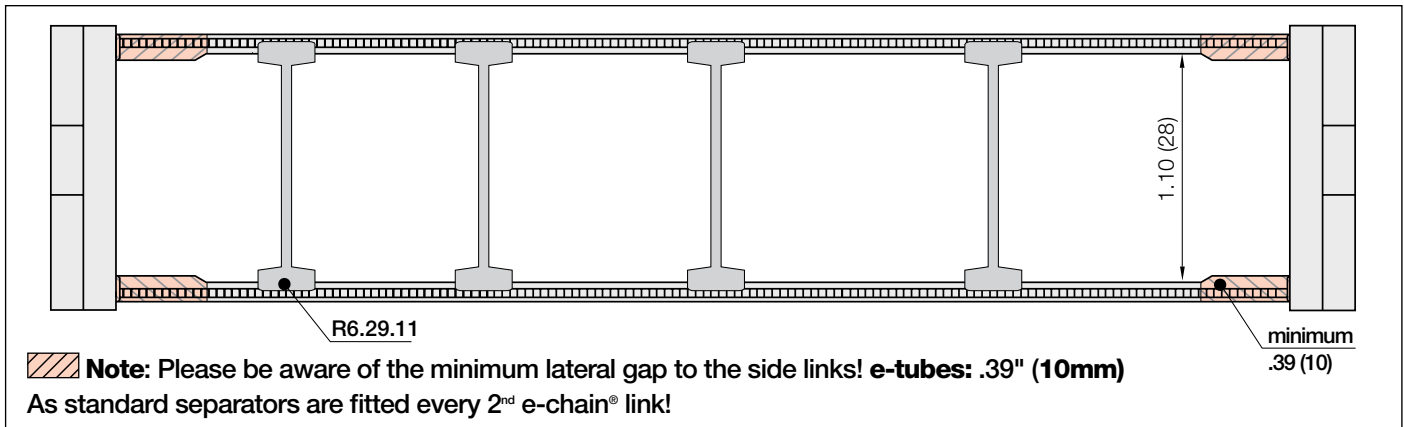
### Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

Part No. E6.29.02.Z - more information ► From page 1457



## Interior separation (only for e-tubes, for e-chains® ► previous page)



## Separator for e-tubes

Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.

## Separator with integrated strain relief teeth

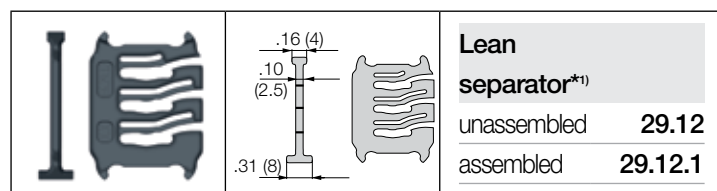
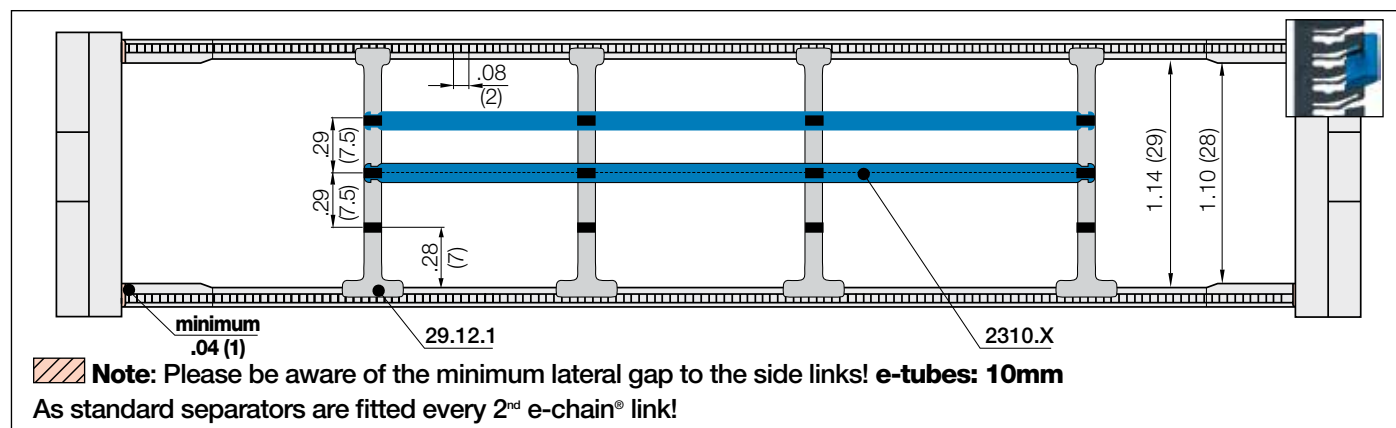
- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

Part No. R6.35.02.Z - more information ► From page 1457



e-chain® from the E6 range accelerates work processes in the wafer-handling application in chip production

## Interior separation | To allow faster filling



### Lean separators\*<sup>1)</sup>

For quick fitting of shelves in several layers. **1) Note:** Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains\*!

\*Only suitable for e-chains®

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%<sup>2)</sup>. 2) Lean interior separation vs. standard interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab





## e-chains® | Series E6.35 | Crossbars removable along the inner and outer radius

| Part No.                | <i>Bi</i> | <i>Ba</i>  | E6.35            |
|-------------------------|-----------|------------|------------------|
| e-chains®               | in. (mm)  | in. (mm)   | lbs/ft<br>(kg/m) |
| E6.35. 030. <i>R</i> .0 | 1.18 (30) | 1.97 (50)  | ≈ 0.59 (0.88)    |
| E6.35. 040. <i>R</i> .0 | 1.57 (40) | 2.36 (60)  | ≈ 0.54 (0.90)    |
| E6.35. 050. <i>R</i> .0 | 1.97 (50) | 2.76 (70)  | ≈ 0.90 (0.92)    |
| E6.35. 060. <i>R</i> .0 | 2.36 (60) | 3.15 (80)  | ≈ 0.63 (0.94)    |
| E6.35. 070. <i>R</i> .0 | 2.76 (70) | 3.54 (90)  | ≈ 0.65 (0.96)    |
| E6.35. 080. <i>R</i> .0 | 3.15 (80) | 3.94 (100) | ≈ 0.66 (0.99)    |

| Part No.                | <i>Bi</i>  | <i>Ba</i>  | E6.35            |
|-------------------------|------------|------------|------------------|
| e-chains®               | in. (mm)   | in. (mm)   | lbs/ft<br>(kg/m) |
| E6.35. 090. <i>R</i> .0 | 3.54 (90)  | 4.33 (110) | ≈ 0.68 (1.01)    |
| E6.35. 100. <i>R</i> .0 | 3.94 (100) | 4.72 (120) | ≈ 0.69 (1.03)    |
| E6.35. 110. <i>R</i> .0 | 4.33 (110) | 5.12 (130) | ≈ 0.76 (1.05)    |
| E6.35. 120. <i>R</i> .0 | 4.72 (120) | 5.51 (140) | ≈ 0.72 (1.07)    |
| E6.35. 140. <i>R</i> .0 | 5.51 (140) | 6.30 (160) | ≈ 0.75 (1.11)    |

Complete Part No. with required radius (*R*). Example: E6.35.100.100.0 = crossbars every link

## Available bend radii

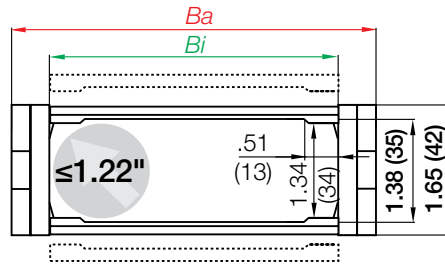
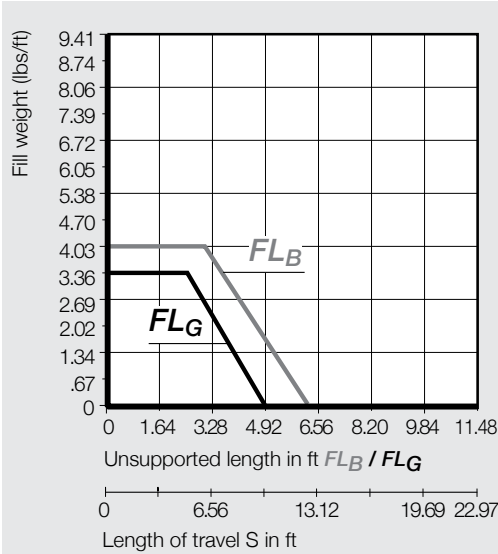
*R* in. (mm) | 2.17 (055) | 2.95 (075) | 3.94 (100) | 5.91 (150) |

## Installation note - system E6

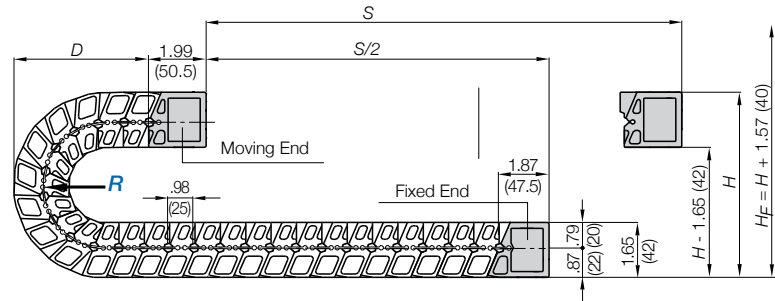
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



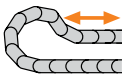


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 1.38 (35)               |
| Pitch per link in. (mm) | .98 (25)                |
| Links/ft (m)            | 12.24 (40)              |
| corresponds to (mm)     | 1,000                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



|          |                   |                   |                   |                   |
|----------|-------------------|-------------------|-------------------|-------------------|
| <b>R</b> | <b>2.17 (055)</b> | <b>2.95 (075)</b> | <b>3.94 (100)</b> | <b>5.91 (150)</b> |
| <b>H</b> | 7.44 (189)        | 9.01 (229)        | 10.98 (279)       | 14.92 (379)       |
| <b>D</b> | 4.53 (115)        | 5.31 (135)        | 6.30 (160)        | 8.27 (210)        |
| <b>K</b> | 8.86 (225)        | 11.42 (290)       | 14.37 (365)       | 20.67 (525)       |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.



If a gliding application is required for a long travel, please consult igus®.

### Aluminum support tray

- Corrosion-resistant and seawater-resistant aluminum rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-tube
- Open design - dirt and debris fall through

More information ► From page 1400

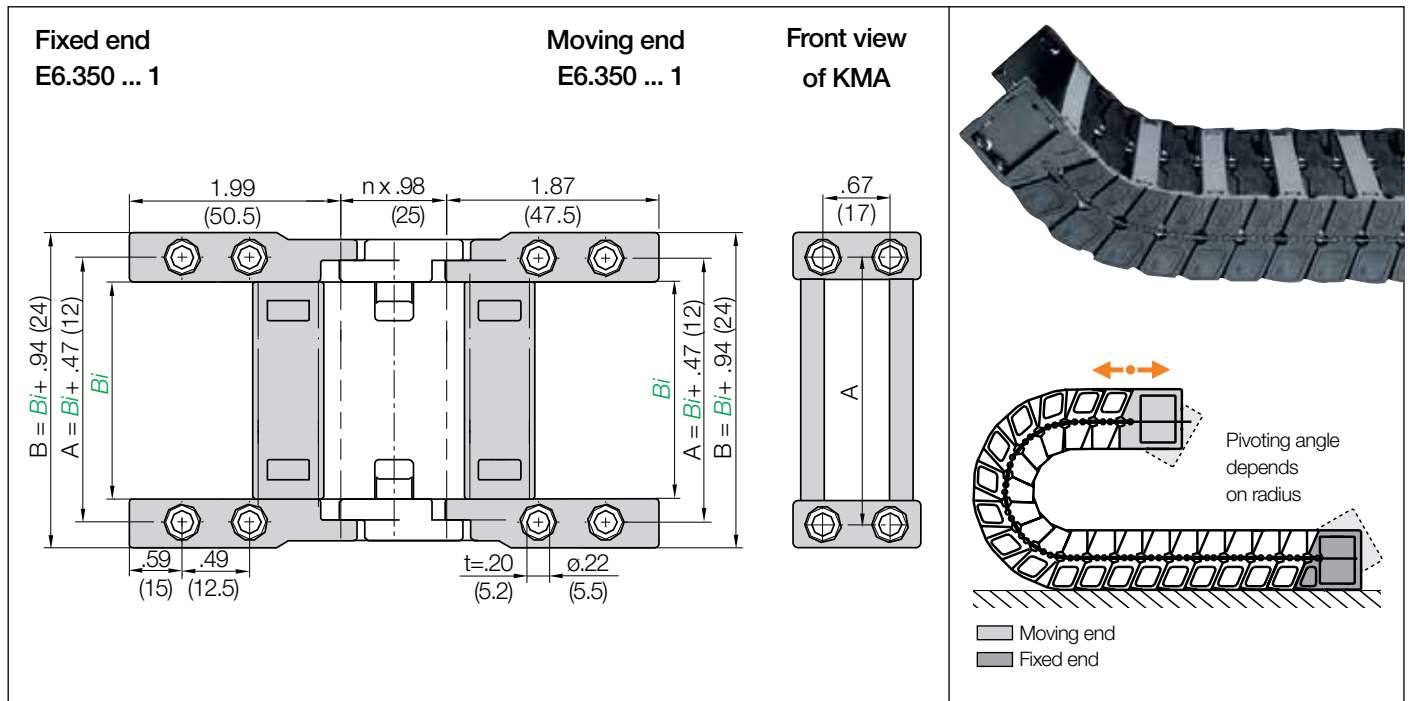


### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394

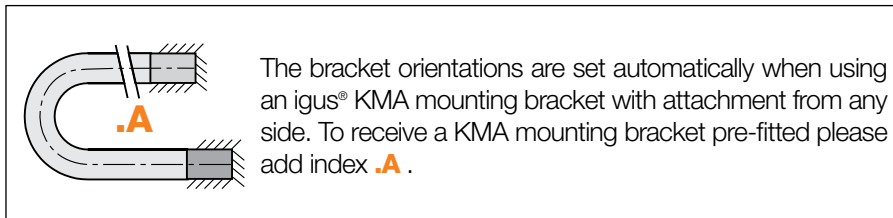




### KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | <i>Bi</i> in. (mm) | Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | <i>Bi</i> in. (mm) |
|-------------|--------------------------------|------------|------------|--------------------|-------------|--------------------------------|------------|------------|--------------------|
| 030. ▶      | E6.350.030.12                  | 1.65 (42)  | 2.13 (54)  | 1.18 (30)          | 090. ▶      | E6.350.090.12                  | 4.02 (102) | 4.49 (114) | 3.54 (90)          |
| 040. ▶      | E6.350.040.12                  | 2.05 (52)  | 2.52 (64)  | 1.57 (40)          | 100. ▶      | E6.350.100.12                  | 4.41 (112) | 4.88 (124) | 3.94 (100)         |
| 050. ▶      | E6.350.050.12                  | 2.44 (62)  | 2.91 (74)  | 1.97 (50)          | 110. ▶      | E6.350.110.12                  | 4.80 (122) | 5.28 (134) | 4.33 (110)         |
| 060. ▶      | E6.350.060.12                  | 2.83 (72)  | 3.31 (84)  | 2.36 (60)          | 120. ▶      | E6.350.120.12                  | 5.20 (132) | 5.67 (144) | 4.72 (120)         |
| 070. ▶      | E6.350.070.12                  | 3.23 (82)  | 3.70 (94)  | 2.76 (70)          | 140. ▶      | E6.350.140.12                  | 5.98 (152) | 6.46 (164) | 5.51 (140)         |
| 080. ▶      | E6.350.080.12                  | 3.62 (92)  | 4.09 (104) | 3.15 (80)          |             |                                |            |            |                    |

(KMA = polymer metal mounting bracket)



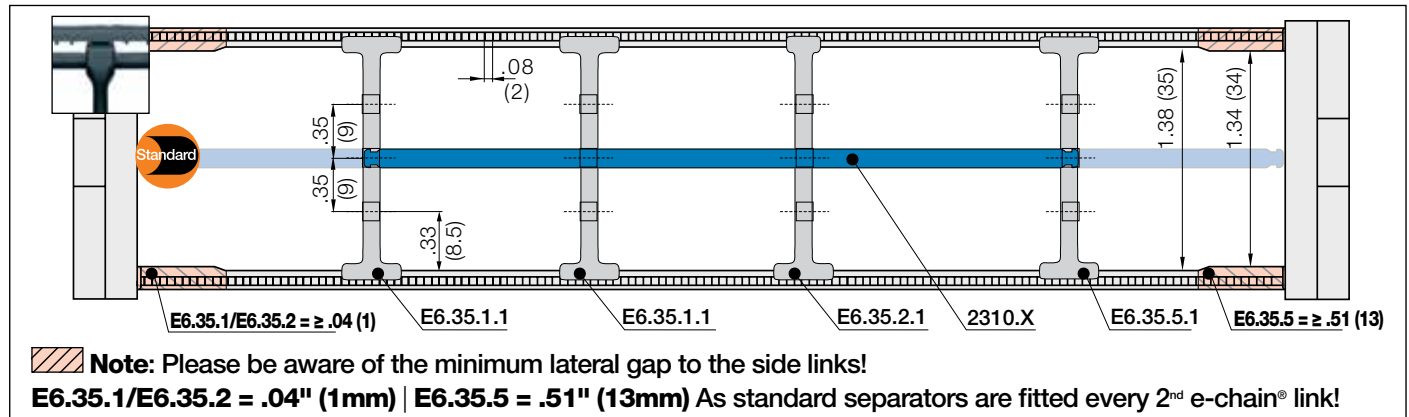
### E6.350.100.12.A Order example



**Strain relief** e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1418

## Interior separation | Increase cable service life

Previous generation of interior separation with other options ► [www.igus.com/E6.35](http://www.igus.com/E6.35)



|  |  |                                                                                                          |
|--|--|----------------------------------------------------------------------------------------------------------|
|  |  | <b>Standard separator, wide base</b><br>unassembled <b>E6.35.1</b><br>assembled <b>E6.35.1.1</b>         |
|  |  | <b>Separator, narrow top</b><br>unassembled <b>E6.35.2</b><br>assembled <b>E6.35.2.1</b>                 |
|  |  | <b>Notch separator* for notched crossbar</b><br>unassembled <b>E6.35.5</b><br>assembled <b>E6.35.5.1</b> |
|  |  | <b>Shelf, lockable</b><br>unassembled <b>2300.X</b><br>assembled <b>2310.X</b>                           |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

### Shelves

Width = X in. (mm)



| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|-----------|
| .59 (015)  | 2300.015    | 2310.015  | 2.36 (060) | 2300.060    | 2310.060  | 3.43 (087) | 2300.087    | 2310.087  |
| .98 (025)  | 2300.025    | 2310.025  | 2.44 (062) | 2300.062    | 2310.062  | 3.54 (090) | 2300.090    | 2310.090  |
| 1.18 (030) | 2300.030    | 2310.030  | 2.56 (065) | 2300.065    | 2310.065  | 3.94 (100) | 2300.100    | 2310.100  |
| 1.50 (038) | 2300.038    | 2310.038  | 2.76 (070) | 2300.070    | 2310.070  | 4.06 (103) | 2300.103    | 2310.103  |
| 1.57 (040) | 2300.040    | 2310.040  | 2.95 (075) | 2300.075    | 2310.075  | 4.33 (110) | 2300.110    | 2310.110  |
| 1.97 (050) | 2300.050    | 2310.050  | 3.03 (077) | 2300.077    | 2310.077  | 47.2 (120) | 2300.120    | 2310.120  |
| 2.24 (057) | 2300.057    | 2310.057  | 3.15 (080) | 2300.080    | 2310.080  | 4.92 (125) | 2300.125    | 2310.125  |

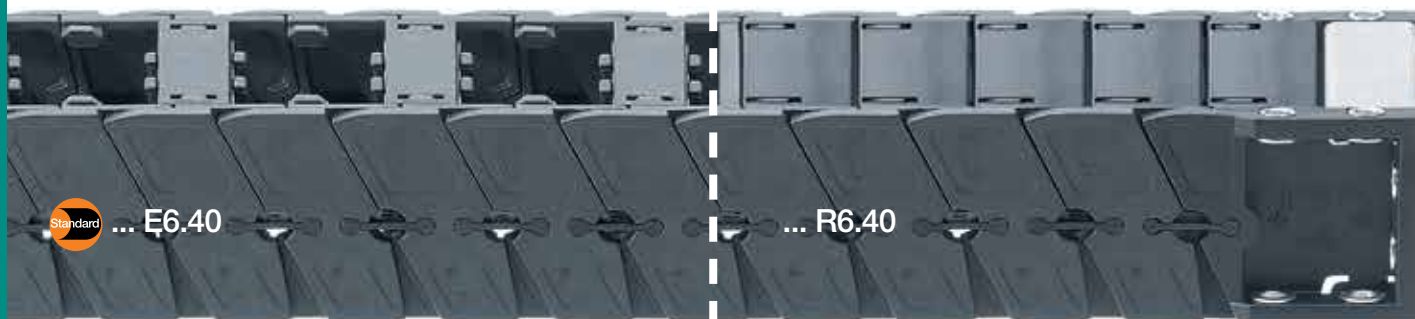
### Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

Part No. E6.29.02.Z - more information ► From page 1457



Extremely low noise and vibration



e-chains® | Series E6.40 | Crossbars removable along the inner and outer radius  
 e-tubes | Series R6.40 | Lids removable along the inner and outer radius

| Part No.               |                          | <i>Bi</i>  | <i>Ba</i>  | E6.40            | R6.40            |
|------------------------|--------------------------|------------|------------|------------------|------------------|
| e-chains®              |                          | in. (mm)   | in. (mm)   | lbs/ft<br>(kg/m) | lbs/ft<br>(kg/m) |
| E6.40. 040. <i>R.0</i> | R6.40. 040. <i>R.0</i> * | 1.57 (40)  | 2.36 (60)  | ≈ 0.87 (1.29)    | —                |
| E6.40. 050. <i>R.0</i> | R6.40. 050. <i>R.0</i> * | 1.97 (50)  | 2.76 (70)  | ≈ 0.89 (1.33)    | —                |
| E6.40. 052. <i>R.0</i> | R6.40. 052. <i>R.0</i> * | 2.05 (52)  | 2.83 (72)  | ≈ 0.90 (1.34)    | —                |
| E6.40. 062. <i>R.0</i> | R6.40. 062. <i>R.0</i>   | 2.44 (62)  | 3.23 (82)  | ≈ 0.93 (1.38)    | ≈ 1.07 (1.59)    |
| E6.40. 070. <i>R.0</i> | R6.40. 070. <i>R.0</i> * | 2.76 (70)  | 3.54 (90)  | ≈ 0.95 (1.41)    | —                |
| E6.40. 075. <i>R.0</i> | R6.40. 075. <i>R.0</i>   | 2.95 (75)  | 3.74 (95)  | ≈ 0.96 (1.43)    | —                |
| E6.40. 087. <i>R.0</i> | R6.40. 087. <i>R.0</i> * | 3.42 (87)  | 4.21 (107) | ≈ 0.99 (1.48)    | —                |
| E6.40. 100. <i>R.0</i> | R6.40. 100. <i>R.0</i> * | 3.94 (100) | 4.72 (120) | ≈ 1.02 (1.53)    | —                |

| Part No.               |                          | <i>Bi</i>   | <i>Ba</i>   | E6.40            | R6.40            |
|------------------------|--------------------------|-------------|-------------|------------------|------------------|
| e-chains®              |                          | in. (mm)    | in. (mm)    | lbs/ft<br>(kg/m) | lbs/ft<br>(kg/m) |
| E6.40. 125. <i>R.0</i> | R6.40. 125. <i>R.0</i> * | 4.92 (125)  | 5.71 (145)  | ≈ 1.10 (1.63)    | —                |
| E6.40. 150. <i>R.0</i> | R6.40. 150. <i>R.0</i> * | 5.91 (150)  | 6.69 (170)  | ≈ 1.16 (1.73)    | —                |
| E6.40. 175. <i>R.0</i> | R6.40. 175. <i>R.0</i> * | 6.89 (175)  | 7.68 (195)  | ≈ 1.23 (1.83)    | —                |
| E6.40. 200. <i>R.0</i> | R6.40. 200. <i>R.0</i> * | 7.87 (200)  | 8.66 (220)  | ≈ 2.50 (1.93)    | —                |
| E6.40. 225. <i>R.0</i> | R6.40. 225. <i>R.0</i> * | 8.86 (225)  | 9.65 (245)  | ≈ 1.36 (2.02)    | —                |
| E6.40. 250. <i>R.0</i> | R6.40. 250. <i>R.0</i> * | 9.84 (250)  | 10.63 (270) | ≈ 1.42 (2.12)    | —                |
| E6.40. 275. <i>R.0</i> | R6.40. 275. <i>R.0</i> * | 10.83 (275) | 11.61 (295) | ≈ 1.49 (2.22)    | —                |
| E6.40. 300. <i>R.0</i> | R6.40. 300. <i>R.0</i> * | 11.81 (300) | 12.60 (320) | ≈ 1.56 (2.32)    | —                |

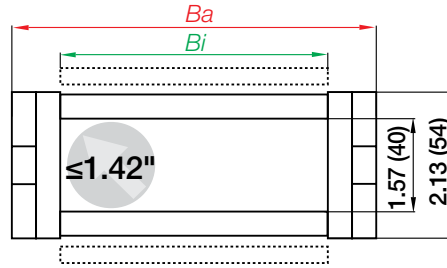
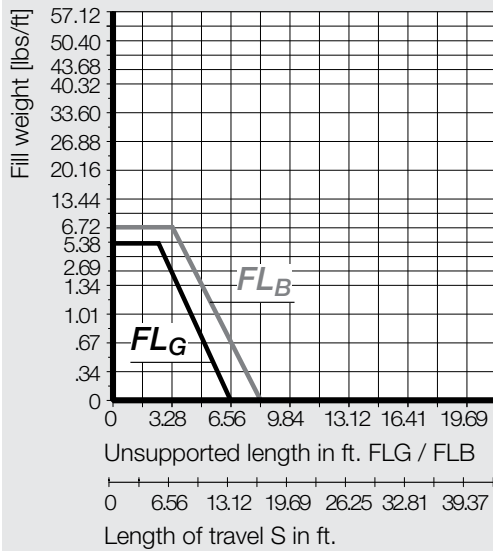
\*Width available upon request. Delivery time upon request.

Complete Part No. with required radius (*R*). Example: E6.40.062.100.0 = e-chain® / R6.40.062.100.0 = e-tube**Available bend radii***R* in. (mm) | 2.48 (063) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) | 7.87 (200) |**Installation note - system E6**

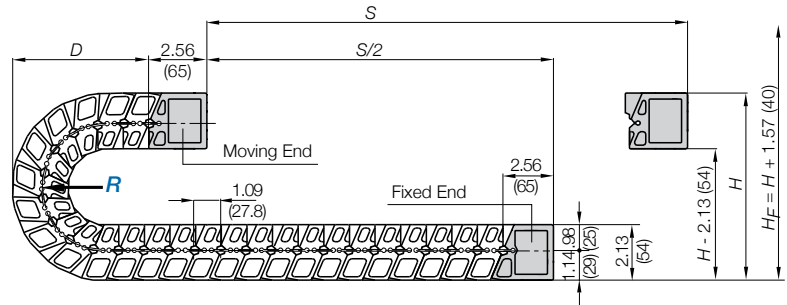
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



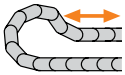


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 1.57 (40)               |
| Pitch per link in. (mm) | 1.09 (27.8)             |
| Links/ft (m)            | 11 (36)                 |
| corresponds to (mm)     | 1,001                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



| R | 2.48 (063)  | 2.95 (075)  | 3.94 (100)  | 4.92 (125)  | 5.91 (150)  | 7.87 (200)  |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| H | 8.82 (224)  | 9.76 (248)  | 11.73 (298) | 13.71 (348) | 15.67 (398) | 19.61 (498) |
| D | 5.28 (134)  | 5.75 (146)  | 6.73 (171)  | 7.72 (196)  | 8.70 (221)  | 10.67 (271) |
| K | 10.04 (255) | 11.61 (295) | 14.57 (370) | 17.72 (450) | 20.87 (530) | 26.97 (685) |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.



If a gliding application is required for a long travel, please consult igus®.

### Aluminum support tray

- Corrosion-resistant and seawater-resistant aluminum rails with adjustable width
- Noise-reducing glide strip integrated as standard
- Easy installation and connection of the e-tube
- Open design - dirt and debris fall through

More information ► From page 1400

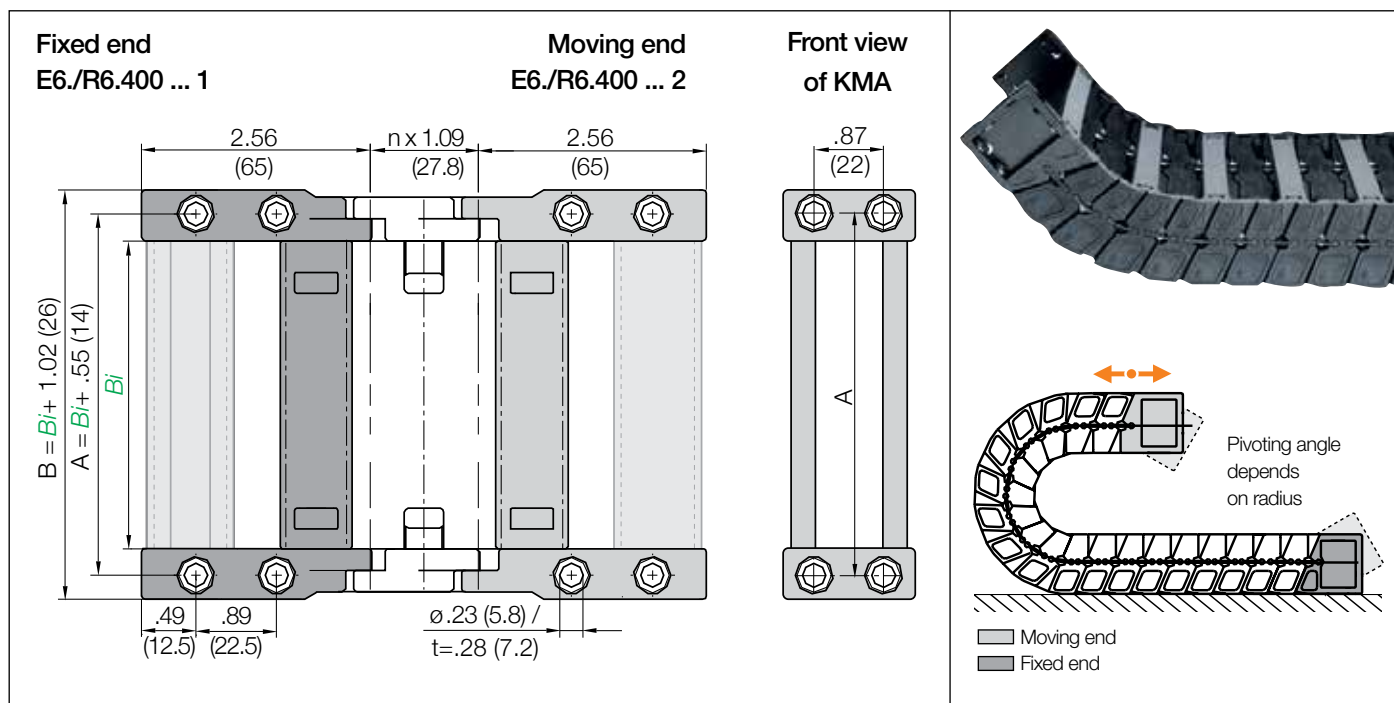


### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394



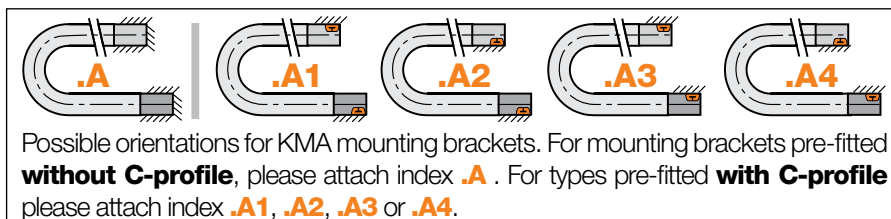


## KMA pivoting | Recommended for unsupported applications

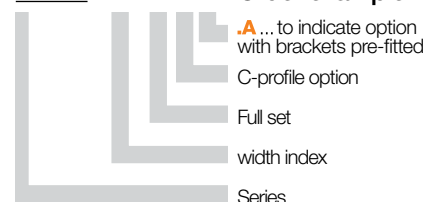
| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | Bi in. (mm) | Width index | Part No. full set KMA pivoting | A in. (mm)  | B in. (mm)  | Bi in. (mm) |
|-------------|--------------------------------|------------|------------|-------------|-------------|--------------------------------|-------------|-------------|-------------|
| 040.        | ► E6.400. R6.400.* 040.12.C    | 2.13 (54)  | 2.60 (66)  | 1.57 (40)   | 125.        | ► E6.400. R6.400.* 125.12.C    | 5.47 (139)  | 5.94 (151)  | 4.92 (125)  |
| 050.        | ► E6.400. R6.400.* 050.12.C    | 2.52 (64)  | 2.99 (76)  | 1.97 (50)   | 150.        | ► E6.400. R6.400.* 150.12.C    | 6.46 (164)  | 6.93 (176)  | 5.91 (150)  |
| 052.        | ► E6.400. R6.400.* 052.12.C    | 2.66 (66)  | 3.07 (78)  | 2.05 (52)   | 175.        | ► E6.400. R6.400.* 175.12.C    | 7.44 (189)  | 7.91 (201)  | 6.89 (175)  |
| 062.        | ► E6.400. R6.400.* 062.12.C    | 2.99 (76)  | 3.46 (88)  | 2.44 (62)   | 200.        | ► E6.400. R6.400.* 200.12.C    | 8.43 (214)  | 8.90 (226)  | 7.87 (200)  |
| 070.        | ► E6.400. R6.400.* 070.12.C    | 3.31 (84)  | 3.78 (96)  | 2.76 (70)   | 225.        | ► E6.400. R6.400.* 225.12.C    | 9.41 (239)  | 9.88 (251)  | 8.86 (225)  |
| 075.        | ► E6.400. R6.400.* 075.12.C    | 3.50 (89)  | 3.98 (101) | 2.95 (75)   | 250.        | ► E6.400. R6.400.* 250.12.C    | 10.39 (264) | 10.87 (276) | 9.84 (250)  |
| 087.        | ► E6.400. R6.400.* 087.12.C    | 3.98 (101) | 4.45 (113) | 3.42 (87)   | 275.        | ► E6.400. R6.400.* 275.12.C    | 11.38 (289) | 11.85 (301) | 10.83 (275) |
| 100.        | ► E6.400. R6.400.* 100.12.C    | 4.49 (114) | 4.96 (126) | 3.94 (100)  | 300.        | ► E6.400. R6.400.* 300.12.C    | 12.36 (314) | 12.83 (326) | 11.81 (300) |

\*Width available upon request. Delivery time upon request.

(KMA = polymer metal mounting bracket)



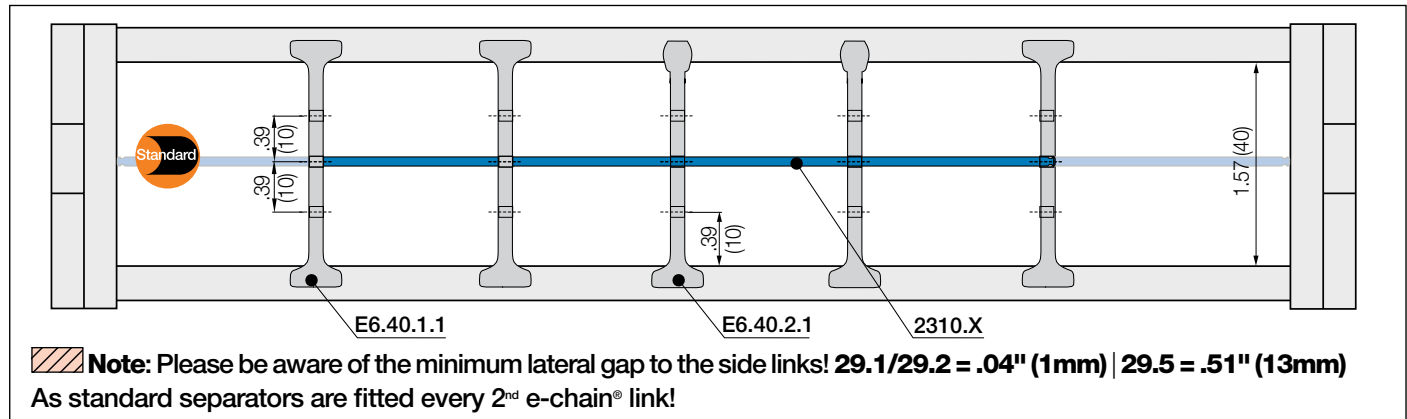
## E6.400.100.12.C.A2 Order example

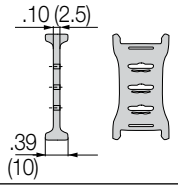
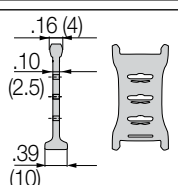
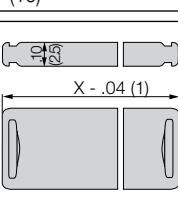


**Strain relief** e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 146

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ► next page)

Previous generation of interior separation with other options ► [www.igus.com/E6.40](http://www.igus.com/E6.40)



|                                                                                     |                                                                                     |                                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|    |    | <b>Standard separator, wide base</b><br>unassembled <b>E6.40.1</b><br>assembled <b>E6.40.1.1</b> |
|   |   | <b>Separator, narrow top</b><br>unassembled <b>E6.40.2</b><br>assembled <b>E6.40.2.1</b>         |
|  |  | <b>Shelf, lockable</b><br>unassembled <b>2300.X</b><br>assembled <b>2310.X</b>                   |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

### Shelves

Width = X in. (mm)



| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|-----------|
| .59 (015)  | 2300.015    | 2310.015  | 2.36 (060) | 2300.060    | 2310.060  | 3.43 (087) | 2300.087    | 2310.087  |
| .98 (025)  | 2300.025    | 2310.025  | 2.44 (062) | 2300.062    | 2310.062  | 3.54 (090) | 2300.090    | 2310.090  |
| 1.18 (030) | 2300.030    | 2310.030  | 2.56 (065) | 2300.065    | 2310.065  | 3.94 (100) | 2300.100    | 2310.100  |
| 1.50 (038) | 2300.038    | 2310.038  | 2.76 (070) | 2300.070    | 2310.070  | 4.06 (103) | 2300.103    | 2310.103  |
| 1.57 (040) | 2300.040    | 2310.040  | 2.95 (075) | 2300.075    | 2310.075  | 4.33 (110) | 2300.110    | 2310.110  |
| 1.97 (050) | 2300.050    | 2310.050  | 3.03 (077) | 2300.077    | 2310.077  | 47.2 (120) | 2300.120    | 2310.120  |
| 2.24 (057) | 2300.057    | 2310.057  | 3.15 (080) | 2300.080    | 2310.080  | 4.92 (125) | 2300.125    | 2310.125  |

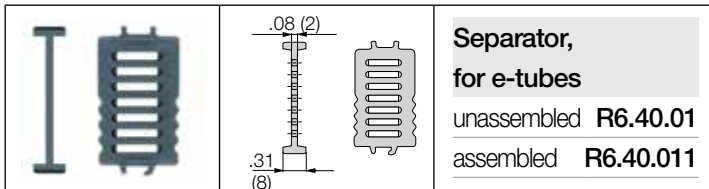
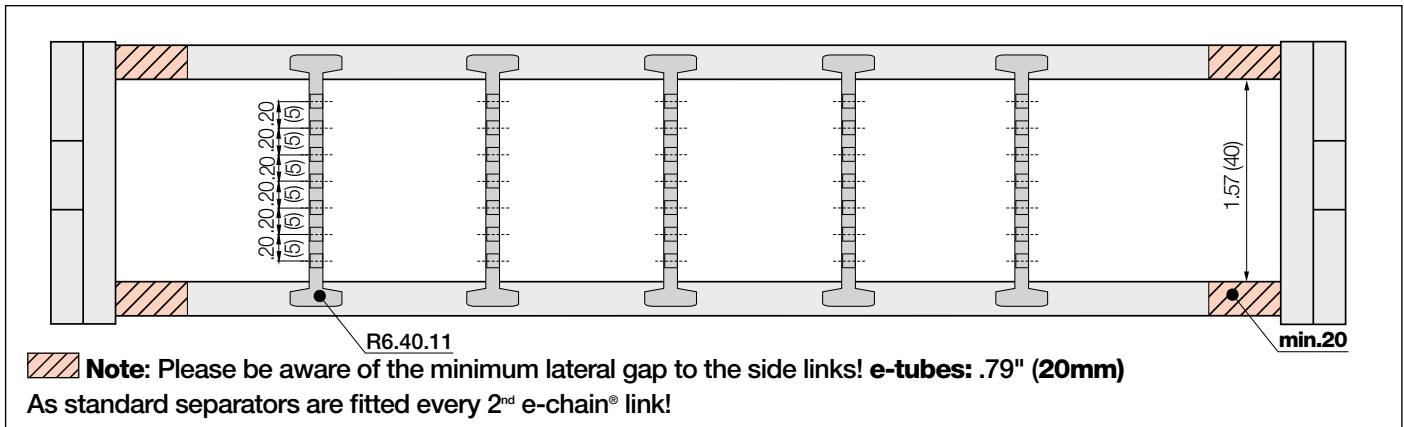
### Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point
- Combines strain relief and interior separation, for restricted space conditions
- Strain relief separator is easy to assemble without any screws

Part No. E6.40.02.Z - more information ► From page 1457

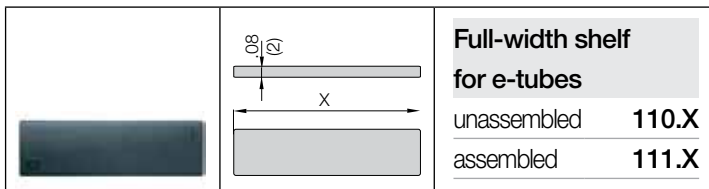


## Interior separation (only for e-tubes, for e-chains® ► previous page)



## Separator for e-tubes

Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.



## Full-width shelf for e-tubes

This option is for applications with many small cables with similar diameters for full-width separation.

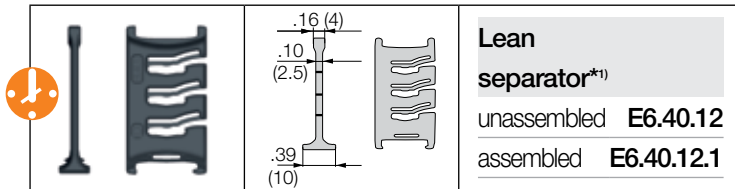
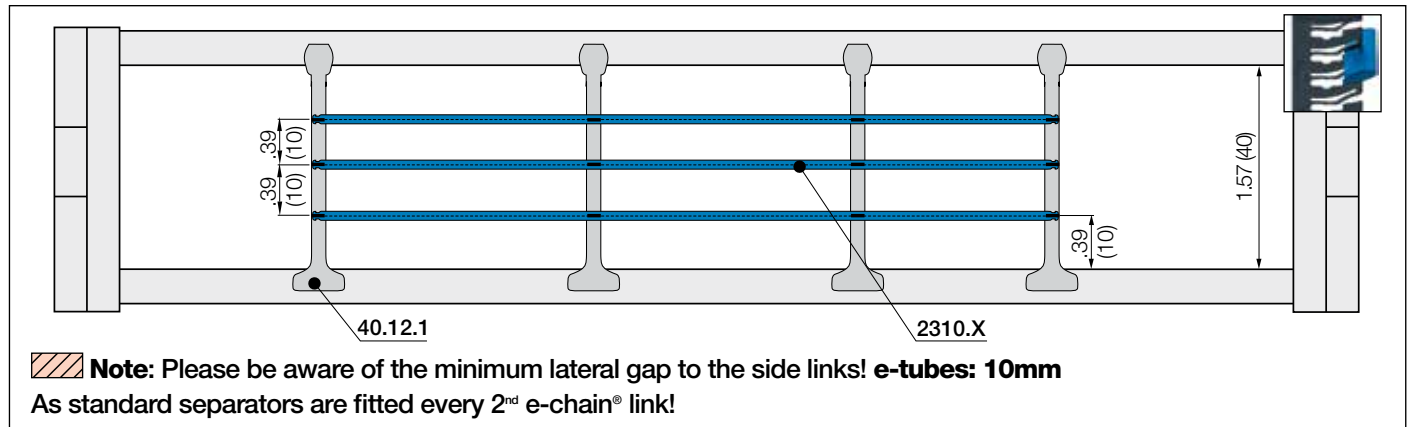
Full-width shelves  
Width = X [mm]

| X in. (mm) | unassembled   | assembled     |
|------------|---------------|---------------|
| 1.18 (030) | <b>110.30</b> | <b>111.30</b> |
| 1.57 (040) | <b>110.40</b> | <b>111.40</b> |
| 1.97 (050) | <b>110.50</b> | <b>111.50</b> |
| 2.36 (060) | <b>110.63</b> | <b>111.63</b> |

| X in. (mm) | unassembled    | assembled      |
|------------|----------------|----------------|
| 2.76 (070) | <b>110.68</b>  | <b>111.68</b>  |
| 3.15 (080) | <b>110.80</b>  | <b>111.80</b>  |
| 3.54 (090) | <b>110.90</b>  | <b>111.90</b>  |
| 3.94 (100) | <b>110.100</b> | <b>111.100</b> |

| X in. (mm) | unassembled    | assembled      |
|------------|----------------|----------------|
| 4.33 (110) | <b>110.110</b> | <b>111.110</b> |
| 4.72 (120) | <b>110.120</b> | <b>111.120</b> |

## Interior separation | To allow faster filling



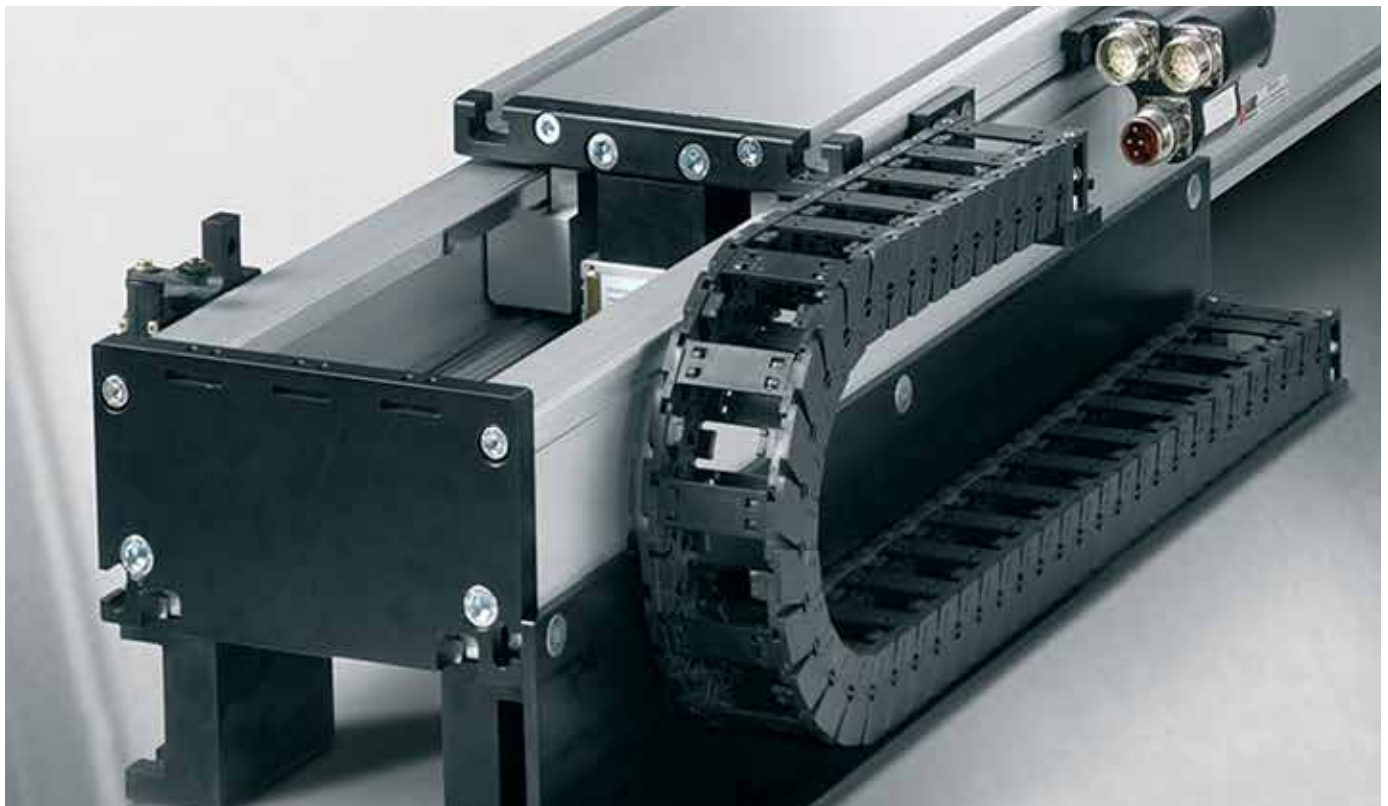
### Lean separators\*<sup>1)</sup>

For quick fitting of shelves in several layers.

**1) Note:** Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains!

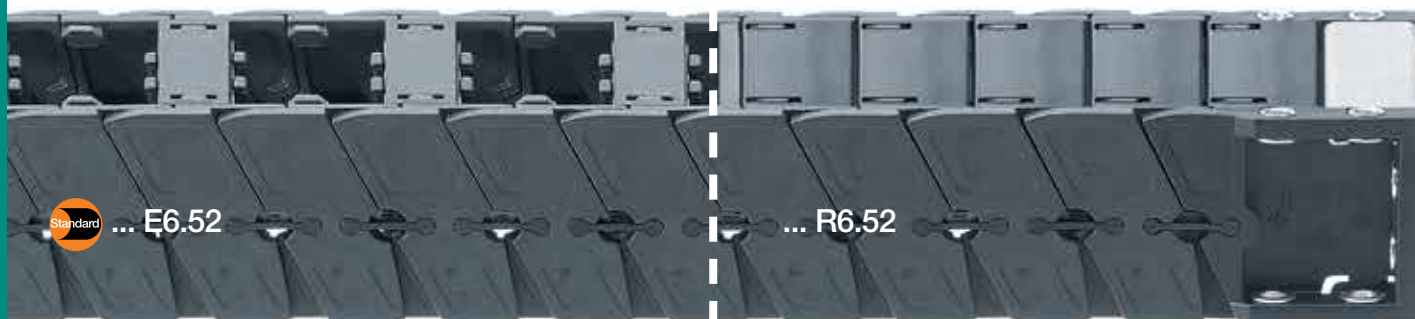
\*Only suitable for e-chains®

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%<sup>2)</sup>. 2) Lean interior separation vs. standard interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab



igus® system E6 on a linear drive for extremely high accelerations - over 1,969 fpm (10m/s<sup>2</sup>)

Extremely low noise and vibration



e-chains® | Series E6.52 | Crossbars removable along the inner and outer radius  
 e-tubes | Series R6.52 | Lids removable along the inner and outer radius

| Part No.               | Part No.                 | <i>Bi</i>  | <i>Ba</i>  | E6.52            | R6.52            |
|------------------------|--------------------------|------------|------------|------------------|------------------|
| e-chains®              | e-tubes                  | in. (mm)   | in. (mm)   | lbs/ft<br>(kg/m) | lbs/ft<br>(kg/m) |
| E6.52. 040. <i>R.0</i> | R6.52. 040. <i>R.0</i> * | 1.57 (40)  | 2.51 (64)  | ≈ 1.18 (1.76)    | ≈ 1.19 (1.78)    |
| E6.52. 050. <i>R.0</i> | R6.52. 050. <i>R.0</i> * | 1.97 (50)  | 2.91 (74)  | ≈ 1.21 (1.80)    | ≈ 1.27 (1.89)    |
| E6.52. 052. <i>R.0</i> | R6.52. 052. <i>R.0</i> * | 2.05 (52)  | 2.60 (66)  | ≈ 1.22 (1.81)    | ≈ 1.29 (1.92)    |
| E6.52. 062. <i>R.0</i> | R6.52. 062. <i>R.0</i>   | 2.44 (62)  | 3.39 (86)  | ≈ 1.24 (1.84)    | ≈ 1.32 (1.97)    |
| E6.52. 070. <i>R.0</i> | R6.52. 070. <i>R.0</i> * | 2.76 (70)  | 3.70 (94)  | ≈ 1.26 (1.87)    | ≈ 1.39 (2.07)    |
| E6.52. 075. <i>R.0</i> | R6.52. 075. <i>R.0</i> * | 2.95 (75)  | 3.90 (99)  | ≈ 1.27 (1.89)    | ≈ 1.42 (2.12)    |
| E6.52. 087. <i>R.0</i> | R6.52. 087. <i>R.0</i> * | 3.42 (87)  | 4.37 (111) | ≈ 1.30 (1.94)    | ≈ 1.48 (2.21)    |
| E6.52. 100. <i>R.0</i> | R6.52. 100. <i>R.0</i> * | 3.94 (100) | 4.88 (124) | ≈ 1.33 (1.98)    | ≈ 1.58 (2.35)    |

| Part No.               | Part No.                 | <i>Bi</i>   | <i>Ba</i>   | E6.52            | R6.52            |
|------------------------|--------------------------|-------------|-------------|------------------|------------------|
| e-chains®              | e-tubes                  | in. (mm)    | in. (mm)    | lbs/ft<br>(kg/m) | lbs/ft<br>(kg/m) |
| E6.52. 125. <i>R.0</i> | R6.52. 125. <i>R.0</i> * | 4.92 (125)  | 5.87 (149)  | ≈ 1.39 (2.07)    | ≈ 1.73 (2.57)    |
| E6.52. 150. <i>R.0</i> | R6.52. 150. <i>R.0</i> * | 5.91 (150)  | 6.85 (174)  | ≈ 1.46 (2.17)    | ≈ 1.88 (2.80)    |
| E6.52. 175. <i>R.0</i> | R6.52. 175. <i>R.0</i> * | 6.89 (175)  | 7.83 (199)  | ≈ 1.52 (2.26)    | ≈ 2.04 (3.03)    |
| E6.52. 200. <i>R.0</i> | R6.52. 200. <i>R.0</i> * | 7.87 (200)  | 8.82 (224)  | ≈ 1.59 (2.36)    | ≈ 2.18 (3.25)    |
| E6.52. 225. <i>R.0</i> | R6.52. 225. <i>R.0</i> * | 8.86 (225)  | 9.80 (249)  | ≈ 1.65 (2.45)    | ≈ 2.33 (3.46)    |
| E6.52. 250. <i>R.0</i> | R6.52. 250. <i>R.0</i> * | 9.84 (250)  | 10.79 (274) | ≈ 1.71 (2.54)    | ≈ 2.47 (3.68)    |
| E6.52. 275. <i>R.0</i> | R6.52. 275. <i>R.0</i> * | 10.83 (275) | 11.77 (299) | ≈ 1.77 (2.64)    | ≈ 2.63 (3.92)    |
| E6.52. 300. <i>R.0</i> | R6.52. 300. <i>R.0</i> * | 11.81 (300) | 12.76 (324) | ≈ 1.83 (2.73)    | ≈ 2.79 (4.15)    |

\*Width available upon request. Delivery time upon request.

Complete Part No. with required radius (*R*). Example: E6.52.100.100.0 = e-chain® / R6.52.100.100.0 = e-tube

#### Available bend radii

*R* in. (mm) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) | 7.87 (200) | 9.84 (250) |

#### Installation note - system E6

To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



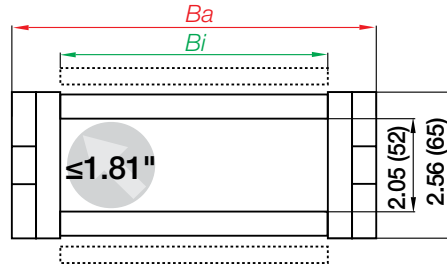
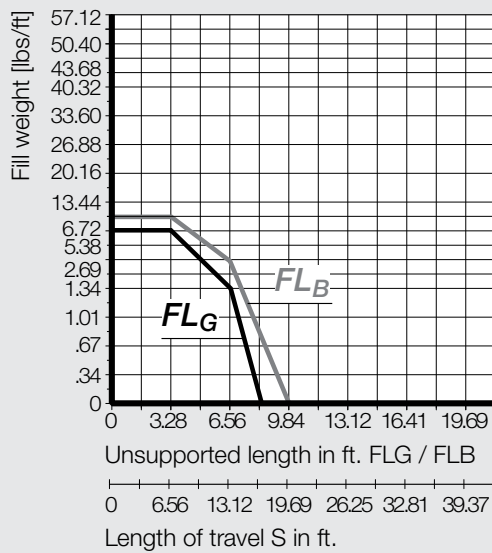


1418

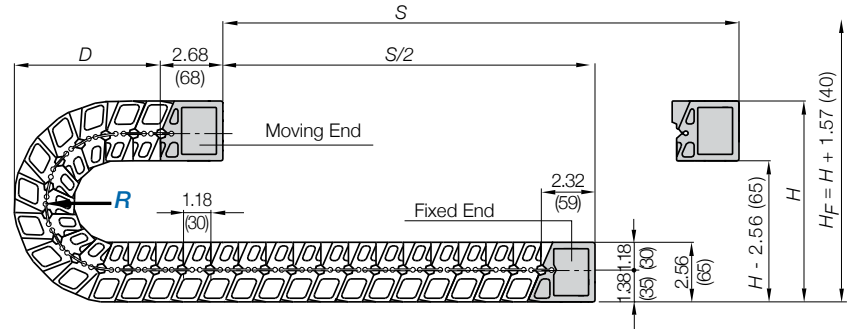


1358

E6.52  
R6.52

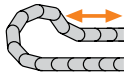


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 2.05 (52)               |
| Pitch per link in. (mm) | 1.18 (30)               |
| Links/ft (m)            | 10.17 (34)              |
| corresponds to (mm)     | 1,020                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



| R | 2.95 (075)  | 3.94 (100)  | 4.92 (125)  | 5.91 (150)  | 7.87 (200)  | 9.84 (250)  |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| H | 10.63 (270) | 12.60 (320) | 14.37 (365) | 16.54 (420) | 20.47 (520) | 24.41 (620) |
| D | 6.10 (155)  | 7.09 (180)  | 7.99 (203)  | 9.06 (230)  | 11.02 (280) | 12.99 (330) |
| K | 11.81 (300) | 14.76 (375) | 17.91 (455) | 21.06 (535) | 27.17 (690) | 33.46 (850) |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.

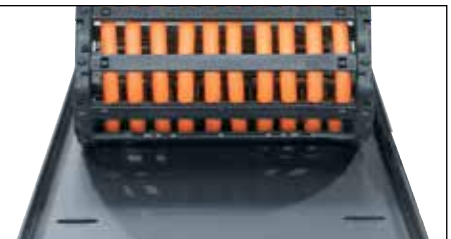


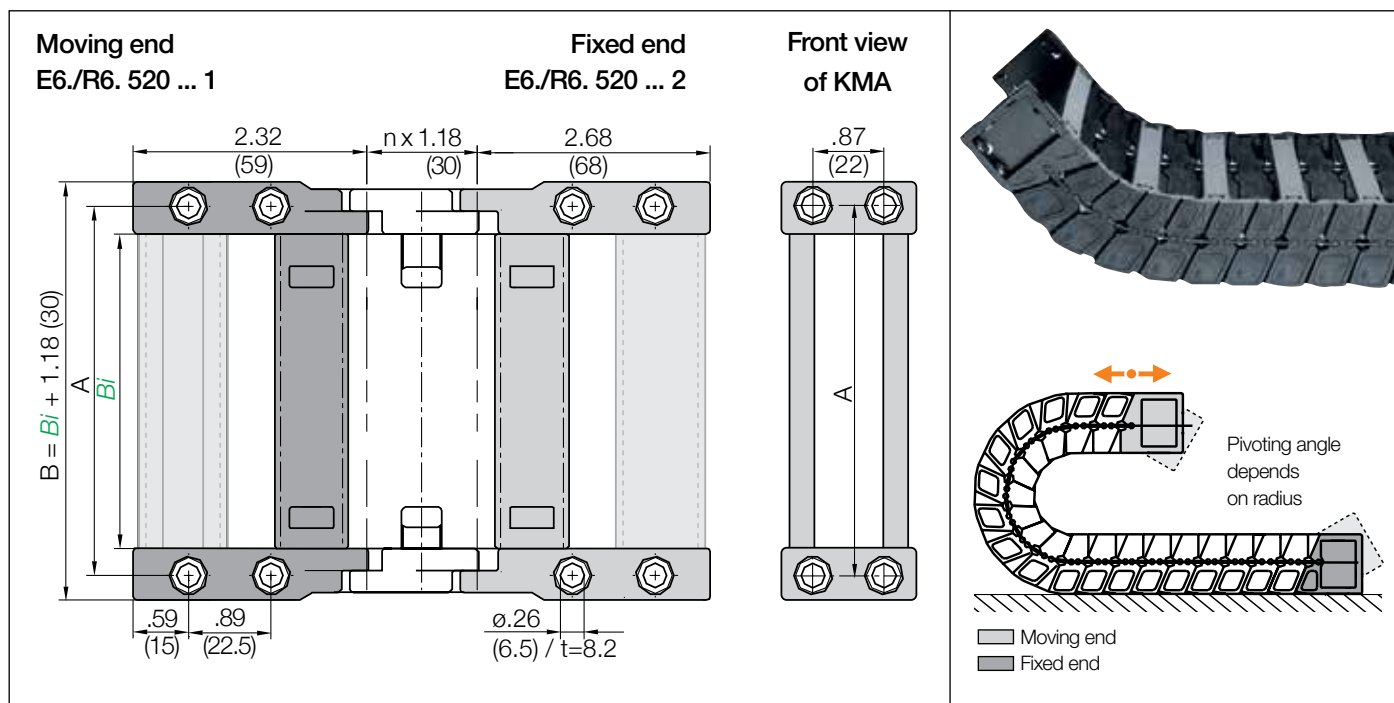
If a gliding application is required for a long travel, please consult igus®.

### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394



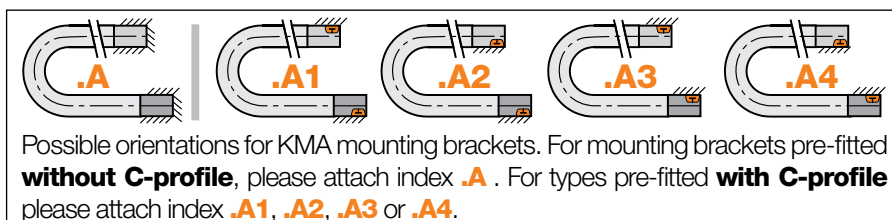


## KMA pivoting | Recommended for unsupported applications

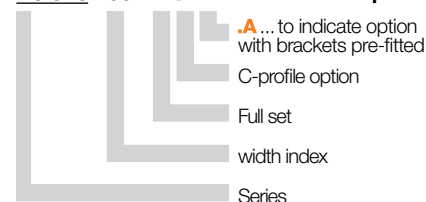
| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | Bi in. (mm) | Width index | Part No. full set KMA pivoting | A in. (mm)  | B in. (mm)  | Bi in. (mm) |
|-------------|--------------------------------|------------|------------|-------------|-------------|--------------------------------|-------------|-------------|-------------|
| 040.        | ▶ E6.520. R6.520.* 040.12.C    | 2.20 (56)  | 2.76 (70)  | 1.57 (40)   | 125.        | ▶ E6.520. R6.520. 125.12.C     | 5.55 (141)  | 6.10 (155)  | 4.92 (125)  |
| 050.        | ▶ E6.520. R6.520. 050.12.C     | 2.60 (66)  | 3.15 (80)  | 1.97 (50)   | 150.        | ▶ E6.520. R6.520. 150.12.C     | 6.54 (166)  | 7.09 (180)  | 5.91 (150)  |
| 052.        | ▶ E6.520. R6.520.* 052.12.C    | 2.68 (68)  | 3.23 (82)  | 2.05 (52)   | 175.        | ▶ E6.520. R6.520. 175.12.C     | 7.52 (191)  | 8.07 (205)  | 6.89 (175)  |
| 062.        | ▶ E6.520. R6.520.* 062.12.C    | 3.07 (78)  | 3.62 (92)  | 2.44 (62)   | 200.        | ▶ E6.520. R6.520. 200.12.C     | 8.50 (216)  | 9.06 (230)  | 7.87 (200)  |
| 070.        | ▶ E6.520. R6.520.* 070.12.C    | 3.39 (86)  | 3.94 (100) | 2.76 (70)   | 225.        | ▶ E6.520. R6.520.* 225.12.C    | 9.49 (241)  | 10.04 (255) | 8.86 (225)  |
| 075.        | ▶ E6.520. R6.520. 075.12.C     | 3.58 (91)  | 4.13 (105) | 2.95 (75)   | 250.        | ▶ E6.520. R6.520.* 250.12.C    | 10.47 (266) | 11.02 (280) | 9.84 (250)  |
| 087.        | ▶ E6.520. R6.520.* 087.12.C    | 4.06 (103) | 4.61 (117) | 3.42 (87)   | 275.        | ▶ E6.520. R6.520.* 275.12.C    | 11.46 (291) | 12.01 (305) | 10.83 (275) |
| 100.        | ▶ E6.520. R6.520. 100.12.C     | 4.57 (116) | 5.12 (130) | 3.94 (100)  | 300.        | ▶ E6.520. R6.520.* 300.12.C    | 12.44 (316) | 12.99 (330) | 11.81 (300) |

\*Width available upon request. Delivery time upon request.

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



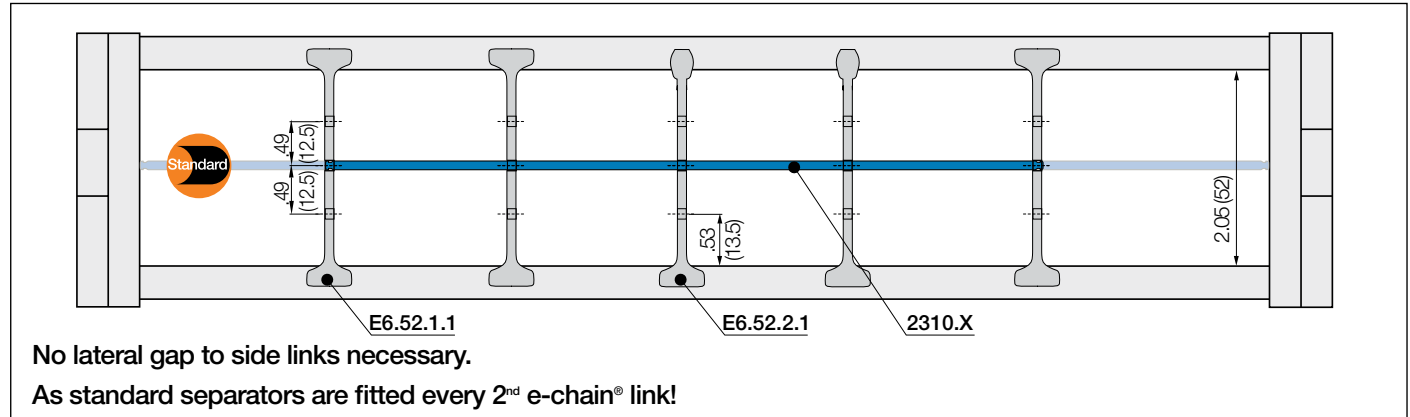
## E6.520.100.12.C.A2 Order example

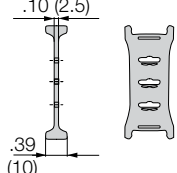
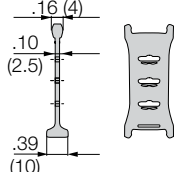
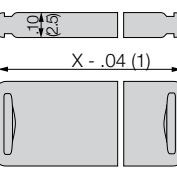


**Strain relief** e.g. clamps, tiwrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1418

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ► next page)

Previous generation of interior separation with other options ► [www.igus.com/E6.52](http://www.igus.com/E6.52)



|                                                                                     |                                                                                     |                                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|    |    | <b>Standard separator, wide base</b><br>unassembled <b>E6.52.1</b><br>assembled <b>E6.52.1.1</b> |
|   |   | <b>Separator, narrow top</b><br>unassembled <b>E6.52.2</b><br>assembled <b>E6.52.2.1</b>         |
|  |  | <b>Shelf, lockable</b><br>unassembled <b>2300.X</b><br>assembled <b>2310.X</b>                   |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

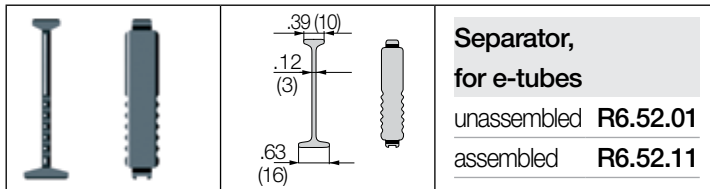
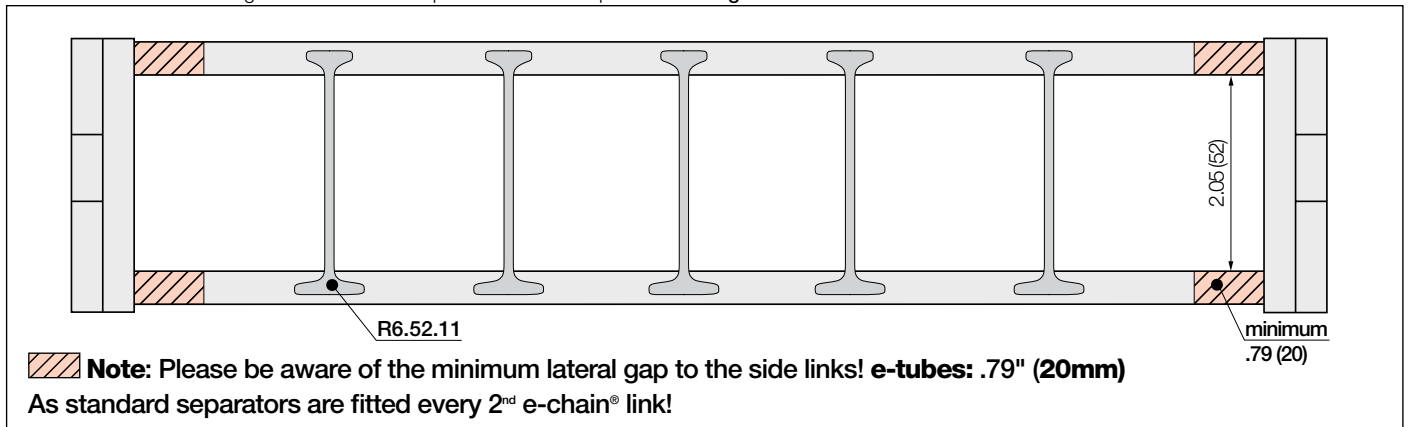
### Shelves

Width = X in. (mm)



| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|-----------|
| .59 (015)  | 2300.015    | 2310.015  | 2.36 (060) | 2300.060    | 2310.060  | 3.43 (087) | 2300.087    | 2310.087  |
| .98 (025)  | 2300.025    | 2310.025  | 2.44 (062) | 2300.062    | 2310.062  | 3.54 (090) | 2300.090    | 2310.090  |
| 1.18 (030) | 2300.030    | 2310.030  | 2.56 (065) | 2300.065    | 2310.065  | 3.94 (100) | 2300.100    | 2310.100  |
| 1.50 (038) | 2300.038    | 2310.038  | 2.76 (070) | 2300.070    | 2310.070  | 4.06 (103) | 2300.103    | 2310.103  |
| 1.57 (040) | 2300.040    | 2310.040  | 2.95 (075) | 2300.075    | 2310.075  | 4.33 (110) | 2300.110    | 2310.110  |
| 1.97 (050) | 2300.050    | 2310.050  | 3.03 (077) | 2300.077    | 2310.077  | 47.2 (120) | 2300.120    | 2310.120  |
| 2.24 (057) | 2300.057    | 2310.057  | 3.15 (080) | 2300.080    | 2310.080  | 4.92 (125) | 2300.125    | 2310.125  |

## Interior separation | Only for e-tubes (e-chains® ► previous page)

Previous generation of interior separation with other options ► [www.igus.com/R6.52](http://www.igus.com/R6.52)

## Separator for e-tubes

Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.



Pre-assembled energy supply systems significantly reduce assembly times. As cleanroom compatibility is required in this positioning system, a cleaning protocol is provided with each pre-harnessed e-chain system®

igus® system E6 on a linear drive for extremely high accelerations - over 1,969 fpm ( $10\text{m/s}^2$ )

Extremely low noise and vibration



## e-chains® | Series E6.62 | Crossbars removable along the inner and outer radius

| Part No.<br>e-chains® | Bi<br>in. (mm) | Ba<br>in. (mm) | E6.62<br>lbs/ft<br>(kg/m) |
|-----------------------|----------------|----------------|---------------------------|
| E6.62. 05. R.0        | 1.97 (50)      | 3.39 (86)      | ≈ 2.16 (3.22)             |
| E6.62. 06. R.0        | 2.67 (68)      | 4.09 (104)     | ≈ 2.20 (3.28)             |
| E6.62. 07. R.0        | 2.95 (75)      | 4.37 (111)     | ≈ 2.22 (3.31)             |
| E6.62. 087. R.0       | 3.43 (87)      | 4.84 (123)     | ≈ 2.25 (3.35)             |
| E6.62. 097. R.0       | 3.82 (97)      | 5.24 (133)     | ≈ 2.27 (3.38)             |
| E6.62. 10. R.0        | 3.94 (100)     | 5.35 (136)     | ≈ 2.28 (3.39)             |
| E6.62. 11. R.0        | 4.25 (108)     | 5.67 (144)     | ≈ 2.30 (3.42)             |
| E6.62. 112. R.0       | 4.41 (112)     | 5.83 (148)     | ≈ 2.30 (3.43)             |
| E6.62. 12. R.0        | 4.92 (125)     | 6.34 (161)     | ≈ 2.34 (3.48)             |
| E6.62. 137. R.0       | 5.39 (137)     | 6.81 (173)     | ≈ 2.37 (3.52)             |
| E6.62. 15. R.0        | 5.91 (150)     | 7.32 (186)     | ≈ 2.40 (3.57)             |
| E6.62. 162. R.0       | 6.38 (162)     | 7.80 (198)     | ≈ 2.43 (3.61)             |
| E6.62. 17. R.0        | 6.61 (168)     | 8.03 (204)     | ≈ 2.44 (3.63)             |
| E6.62. 18. R.0        | 6.89 (175)     | 8.31 (211)     | ≈ 2.45 (3.65)             |
| E6.62. 187. R.0       | 7.36 (187)     | 8.78 (223)     | ≈ 2.48 (3.69)             |
| E6.62. 20. R.0        | 7.87 (200)     | 9.29 (236)     | ≈ 2.51 (3.74)             |

| Part No.<br>e-chains® | Bi<br>in. (mm) | Ba<br>in. (mm) | E6.62<br>lbs/ft<br>(kg/m) |
|-----------------------|----------------|----------------|---------------------------|
| E6.62. 212. R.0       | 8.35 (212)     | 9.76 (248)     | ≈ 2.54 (3.78)             |
| E6.62. 23. R.0        | 8.86 (225)     | 10.28 (261)    | ≈ 2.57 (3.83)             |
| E6.62. 237. R.0       | 9.33 (237)     | 10.75 (273)    | ≈ 2.60 (3.87)             |
| E6.62. 25. R.0        | 9.84 (250)     | 11.26 (286)    | ≈ 2.63 (3.91)             |
| E6.62. 262. R.0       | 10.31 (262)    | 11.73 (298)    | ≈ 2.65 (3.95)             |
| E6.62. 28. R.0        | 10.83 (275)    | 12.24 (311)    | ≈ 2.69 (4.00)             |
| E6.62. 29. R.0        | 11.30 (287)    | 12.72 (323)    | ≈ 2.71 (4.04)             |
| E6.62. 30. R.0        | 11.81 (300)    | 13.23 (336)    | ≈ 2.75 (4.09)             |
| E6.62. 312. R.0       | 12.28 (312)    | 13.70 (348)    | ≈ 2.78 (4.13)             |
| E6.62. 325. R.0       | 12.80 (325)    | 14.21 (361)    | ≈ 2.80 (4.17)             |
| E6.62. 337. R.0       | 13.27 (337)    | 14.69 (373)    | ≈ 2.83 (4.21)             |
| E6.62. 350. R.0       | 13.78 (350)    | 15.20 (386)    | ≈ 2.86 (4.26)             |
| E6.62. 362. R.0       | 14.25 (362)    | 15.67 (398)    | ≈ 2.89 (4.30)             |
| E6.62. 375. R.0       | 14.76 (375)    | 16.18 (411)    | ≈ 2.92 (4.35)             |
| E6.62. 387. R.0       | 15.24 (387)    | 16.65 (423)    | ≈ 2.95 (4.39)             |
| E6.62. 400. R.0       | 15.75 (400)    | 17.16 (436)    | ≈ 2.98 (4.43)             |

Complete Part No. with required radius (R). Example: E6.62.10.250.0

## Available bend radii

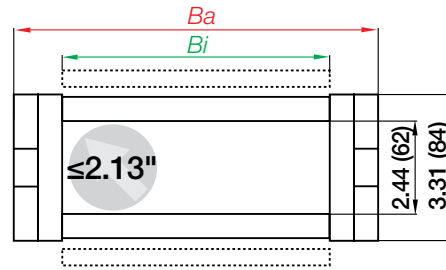
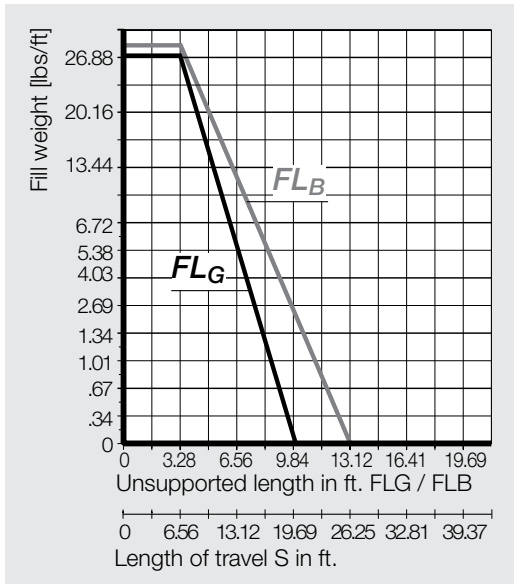
R in. (mm) | 3.94 (115) | 5.91 (150) | 7.87 (200) | 9.84 (250) | 11.81 (300) | 13.78 (350) |

## Installation note - system E6

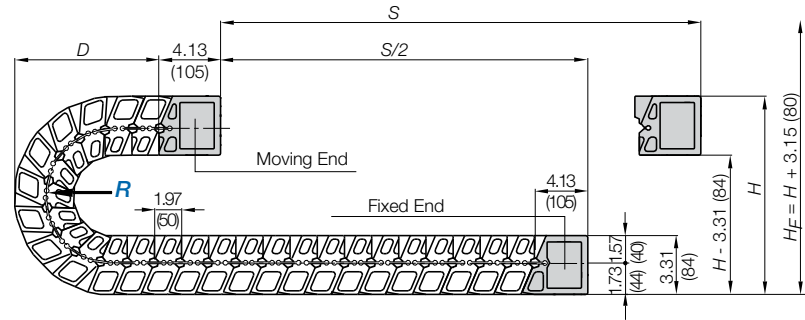
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



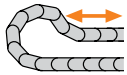


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 2.44 (62)               |
| Pitch per link in. (mm) | 1.97 (50)               |
| Links/ft (m)            | 6.1 (20)                |
| corresponds to (mm)     | 1,000                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



| R | 4.53 (115)  | 5.91 (150)  | 7.87 (200)  | 9.84 (250)  | 11.81 (300)  | 13.78 (350)  |
|---|-------------|-------------|-------------|-------------|--------------|--------------|
| H | 15.28 (388) | 18.03 (458) | 21.97 (558) | 25.91 (658) | 29.84 (758)  | 33.78 (858)  |
| D | 9.21 (234)  | 10.59 (269) | 12.56 (319) | 14.53 (369) | 16.50 (419)  | 18.46 (469)  |
| K | 18.31 (465) | 22.64 (575) | 28.74 (730) | 35.04 (890) | 41.14 (1045) | 47.24 (1200) |

The required clearance height:  $H_F = H + 3.15$  in. (80 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.

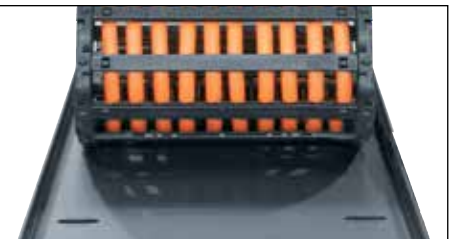


If a gliding application is required for a long travel, please consult igus®.

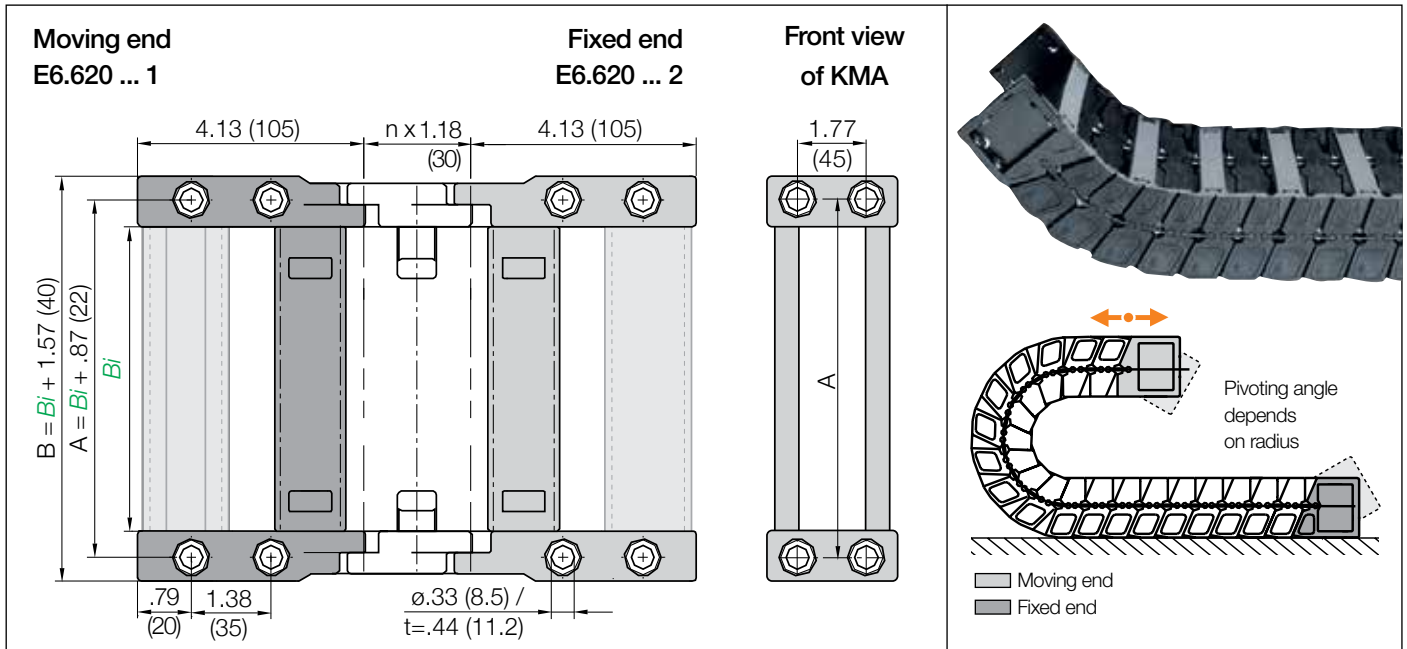
### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394



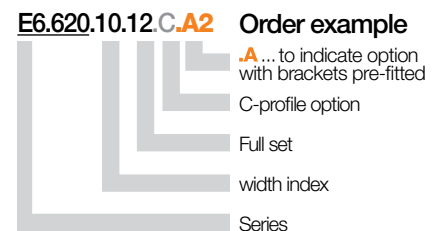
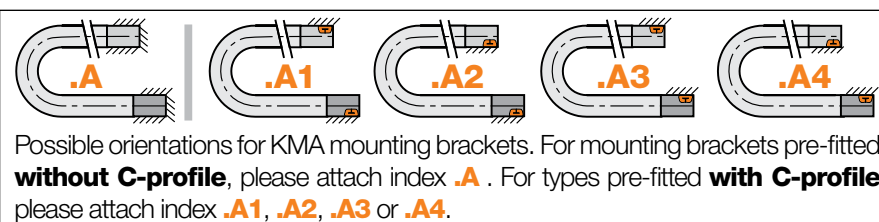
## KMA mounting brackets | Attachment from any side | Pivoting



## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | Bi in. (mm) | Width index | Part No. full set KMA pivoting | A in. (mm)  | B in. (mm)  | Bi in. (mm) |
|-------------|--------------------------------|------------|------------|-------------|-------------|--------------------------------|-------------|-------------|-------------|
| 05.         | ▶ E6.620.05.12.C               | 2.83 (72)  | 3.54 (90)  | 1.97 (50)   | 212.        | ▶ E6.620.212.12.C              | 9.21 (234)  | 9.92 (252)  | 8.35 (212)  |
| 06.         | ▶ E6.620.06.12.C               | 3.54 (90)  | 4.25 (108) | 2.67 (68)   | 23.         | ▶ E6.620.23.12.C               | 9.72 (247)  | 10.43 (265) | 8.86 (225)  |
| 07.         | ▶ E6.620.07.12.C               | 3.82 (97)  | 4.53 (115) | 2.95 (75)   | 237.        | ▶ E6.620.237.12.C              | 10.20 (259) | 10.91 (277) | 9.33 (237)  |
| 087.        | ▶ E6.620.087.12.C              | 4.29 (109) | 5.00 (127) | 3.43 (87)   | 25.         | ▶ E6.620.25.12.C               | 10.71 (272) | 11.42 (290) | 9.84 (250)  |
| 097.        | ▶ E6.620.097.12.C              | 4.69 (119) | 5.39 (137) | 3.82 (97)   | 262.        | ▶ E6.620.262.12.C              | 11.18 (284) | 11.89 (302) | 10.31 (262) |
| 10.         | ▶ E6.620.10.12.C               | 4.80 (122) | 5.51 (140) | 3.94 (100)  | 28.         | ▶ E6.620.28.12.C               | 11.69 (297) | 12.40 (315) | 10.83 (275) |
| 11.         | ▶ E6.620.11.12.C               | 5.12 (130) | 5.83 (148) | 4.25 (108)  | 29.         | ▶ E6.620.29.12.C               | 12.17 (309) | 12.87 (327) | 11.30 (287) |
| 112.        | ▶ E6.620.112.12.C              | 5.28 (134) | 5.98 (152) | 4.41 (112)  | 30.         | ▶ E6.620.30.12.C               | 12.68 (322) | 13.39 (340) | 11.81 (300) |
| 12.         | ▶ E6.620.12.12.C               | 5.79 (147) | 6.50 (165) | 4.92 (125)  | 312.        | ▶ E6.620.312.12.C              | 13.15 (334) | 13.86 (352) | 12.28 (312) |
| 137.        | ▶ E6.620.137.12.C              | 6.26 (159) | 6.97 (177) | 5.39 (137)  | 325.        | ▶ E6.620.325.12.C              | 13.66 (347) | 14.37 (365) | 12.80 (325) |
| 15.         | ▶ E6.620.15.12.C               | 6.77 (172) | 7.48 (190) | 5.91 (150)  | 337.        | ▶ E6.620.337.12.C              | 14.13 (359) | 14.84 (377) | 13.27 (337) |
| 162.        | ▶ E6.620.162.12.C              | 7.24 (184) | 7.95 (202) | 6.38 (162)  | 350.        | ▶ E6.620.350.12.C              | 14.65 (372) | 15.35 (390) | 13.78 (350) |
| 17.         | ▶ E6.620.17.12.C               | 7.48 (190) | 8.19 (208) | 6.61 (168)  | 362.        | ▶ E6.620.362.12.C              | 15.12 (384) | 15.83 (402) | 14.25 (362) |
| 18.         | ▶ E6.620.18.12.C               | 7.76 (197) | 8.46 (215) | 6.89 (175)  | 375.        | ▶ E6.620.375.12.C              | 15.63 (397) | 16.34 (415) | 14.76 (375) |
| 187.        | ▶ E6.620.187.12.C              | 8.23 (209) | 8.94 (227) | 7.36 (187)  | 387.        | ▶ E6.620.387.12.C              | 16.10 (409) | 16.81 (427) | 15.24 (387) |
| 20.         | ▶ E6.620.20.12.C               | 8.74 (222) | 9.45 (240) | 7.87 (200)  | 400.        | ▶ E6.620.400.12.C              | 16.61 (422) | 17.32 (440) | 15.75 (400) |

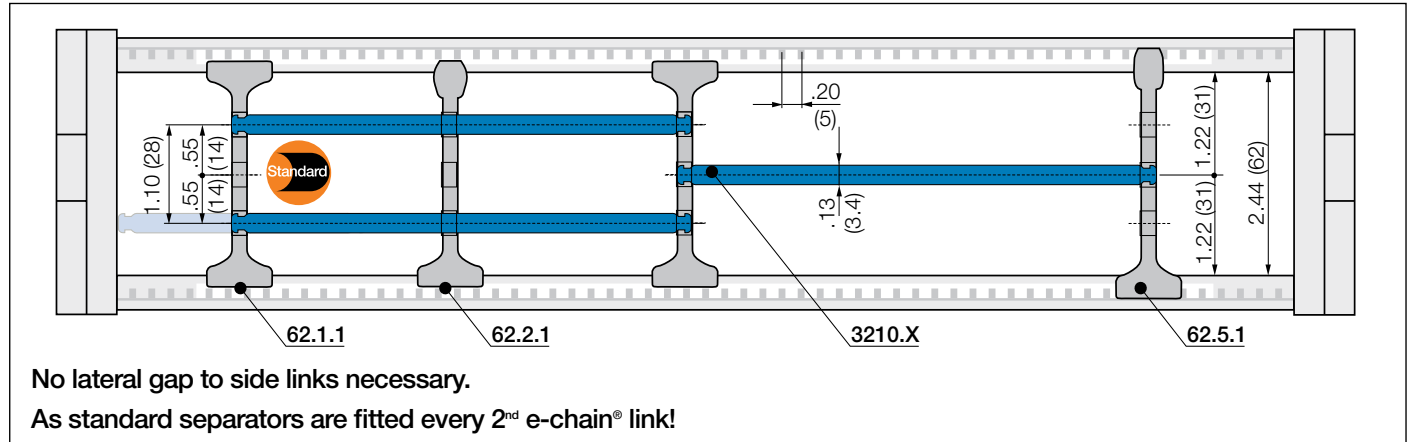
(KMA = polymer metal mounting bracket) For the C-profile option please add index .C

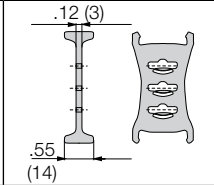
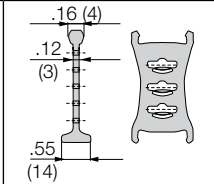
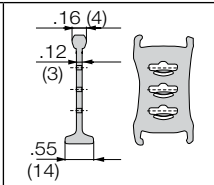
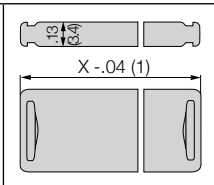


Strain relief e.g. clamps, tie-wrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1418

## Interior separation | Increase cable service life (only for e-chains®, for e-tubes ► next page)

Previous generation of interior separation with other options ► [www.igus.com/E6.62](http://www.igus.com/E6.62)



|                                                                                     |                                                                                     |                                                                                            |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|    |    | <b>Standard separator, wide base</b><br>unassembled <b>62.1</b><br>assembled <b>62.1.1</b> |
|   |   | <b>Separator, narrow top</b><br>unassembled <b>62.2</b><br>assembled <b>62.2.1</b>         |
|  |  | <b>Separator, narrow top</b><br>unassembled <b>62.5</b><br>assembled <b>62.5.1</b>         |
|  |  | <b>Shelf, lockable</b><br>unassembled <b>3200.X</b><br>assembled <b>3210.X</b>             |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.

(\*Suitable from **Bi 75**)

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

### Shelves

Width = X in. (mm)



| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|-----------|
| 1.97 (050) | 3200.050    | 3210.050  | 4.92 (125) | 3200.125    | 3210.125  | 8.86 (225) | 3200.225    | 3210.225  |
| 2.95 (075) | 3200.075    | 3210.075  | 5.91 (150) | 3200.150    | 3210.150  | 9.84 (250) | 3200.250    | 3210.250  |
| 3.94 (100) | 3200.100    | 3210.100  | 6.89 (175) | 3200.175    | 3210.175  |            |             |           |
| 4.53 (115) | 3200.115    | 3210.115  | 7.87 (200) | 3200.200    | 3210.200  |            |             |           |



## e-chains® | Series E6.80L | Crossbars removable along the inner and outer radius

| Part No.<br>e-chains®  | <i>Bi</i><br>in. (mm) | <i>Ba</i><br>in. (mm) | E6.80L<br>lbs/ft<br>(kg/m) |
|------------------------|-----------------------|-----------------------|----------------------------|
| E6.80L 08. <i>R</i> .0 | 3.43 (87)             | 4.53 (115)            | ≈ 2.20 (3.28)              |
| E6.80L 10. <i>R</i> .0 | 3.94 (100)            | 5.04 (128)            | ≈ 2.24 (3.33)              |
| E6.80L 11. <i>R</i> .0 | 4.41 (112)            | 5.51 (140)            | ≈ 2.26 (3.38)              |
| E6.80L 12. <i>R</i> .0 | 4.92 (125)            | 6.02 (153)            | ≈ 2.30 (3.43)              |
| E6.80L 13. <i>R</i> .0 | 5.39 (137)            | 6.50 (165)            | ≈ 2.35 (3.49)              |
| E6.80L 15. <i>R</i> .0 | 5.91 (150)            | 7.01 (178)            | ≈ 2.39 (3.55)              |
| E6.80L 16. <i>R</i> .0 | 6.38 (162)            | 7.48 (190)            | ≈ 2.43 (3.61)              |
| E6.80L 17. <i>R</i> .0 | 6.89 (175)            | 7.99 (203)            | ≈ 2.47 (3.67)              |
| E6.80L 18. <i>R</i> .0 | 7.36 (187)            | 8.46 (215)            | ≈ 2.51 (3.73)              |
| E6.80L 20. <i>R</i> .0 | 7.87 (200)            | 8.98 (228)            | ≈ 2.55 (3.79)              |
| E6.80L 21. <i>R</i> .0 | 8.35 (212)            | 9.45 (240)            | ≈ 2.59 (3.85)              |
| E6.80L 22. <i>R</i> .0 | 8.86 (225)            | 9.96 (253)            | ≈ 2.63 (3.91)              |
| E6.80L 23. <i>R</i> .0 | 9.33 (237)            | 10.43 (265)           | ≈ 2.67 (3.97)              |
| E6.80L 25. <i>R</i> .0 | 9.84 (250)            | 10.94 (278)           | ≈ 2.70 (4.02)              |
| E6.80L 26. <i>R</i> .0 | 10.31 (262)           | 11.42 (290)           | ≈ 2.75 (4.09)              |
| E6.80L 27. <i>R</i> .0 | 10.83 (275)           | 11.93 (303)           | ≈ 2.78 (4.14)              |
| E6.80L 28. <i>R</i> .0 | 11.30 (287)           | 12.40 (315)           | ≈ 2.82 (4.20)              |
| E6.80L 30. <i>R</i> .0 | 11.81 (300)           | 12.91 (328)           | ≈ 2.86 (4.26)              |
| E6.80L 31. <i>R</i> .0 | 12.28 (312)           | 13.39 (340)           | ≈ 2.90 (4.32)              |

| Part No.<br>e-chains®  | <i>Bi</i><br>in. (mm) | <i>Ba</i><br>in. (mm) | E6.80L<br>lbs/ft<br>(kg/m) |
|------------------------|-----------------------|-----------------------|----------------------------|
| E6.80L 32. <i>R</i> .0 | 12.80 (325)           | 13.90 (353)           | ≈ 2.94 (4.38)              |
| E6.80L 33. <i>R</i> .0 | 13.27 (337)           | 14.37 (365)           | ≈ 2.98 (4.44)              |
| E6.80L 35. <i>R</i> .0 | 13.78 (350)           | 14.88 (378)           | ≈ 3.02 (4.50)              |
| E6.80L 36. <i>R</i> .0 | 14.25 (362)           | 15.35 (390)           | ≈ 3.06 (4.56)              |
| E6.80L 37. <i>R</i> .0 | 14.76 (375)           | 15.87 (403)           | ≈ 3.10 (4.62)              |
| E6.80L 38. <i>R</i> .0 | 15.24 (387)           | 16.34 (415)           | ≈ 3.14 (4.68)              |
| E6.80L 40. <i>R</i> .0 | 15.75 (400)           | 16.85 (428)           | ≈ 3.19 (4.74)              |
| E6.80L 41. <i>R</i> .0 | 16.22 (412)           | 17.32 (440)           | ≈ 3.23 (4.80)              |
| E6.80L 42. <i>R</i> .0 | 16.73 (425)           | 17.83 (453)           | ≈ 3.26 (4.85)              |
| E6.80L 43. <i>R</i> .0 | 17.20 (437)           | 18.31 (465)           | ≈ 3.31 (4.92)              |
| E6.80L 45. <i>R</i> .0 | 17.72 (450)           | 18.82 (478)           | ≈ 3.38 (5.03)              |
| E6.80L 46. <i>R</i> .0 | 18.19 (462)           | 19.29 (490)           | ≈ 3.42 (5.09)              |
| E6.80L 47. <i>R</i> .0 | 18.70 (475)           | 19.80 (503)           | ≈ 3.46 (5.15)              |
| E6.80L 48. <i>R</i> .0 | 19.17 (487)           | 20.28 (515)           | ≈ 3.50 (5.21)              |
| E6.80L 50. <i>R</i> .0 | 19.69 (500)           | 20.79 (528)           | ≈ 3.54 (5.27)              |
| E6.80L 51. <i>R</i> .0 | 20.16 (512)           | 21.26 (540)           | ≈ 3.58 (5.33)              |
| E6.80L 52. <i>R</i> .0 | 20.67 (525)           | 21.77 (553)           | ≈ 3.62 (5.39)              |
| E6.80L 53. <i>R</i> .0 | 21.14 (537)           | 22.24 (565)           | ≈ 3.66 (5.45)              |
| E6.80L 55. <i>R</i> .0 | 21.65 (550)           | 22.76 (578)           | ≈ 3.70 (5.51)              |

Complete Part No. with required radius (*R*). Example: **E6.80L.10.175.0**

## Available bend radii

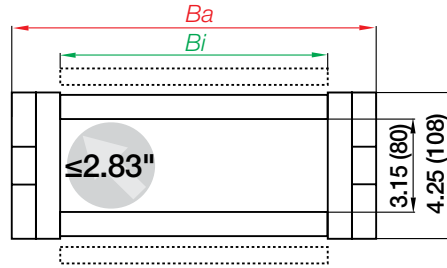
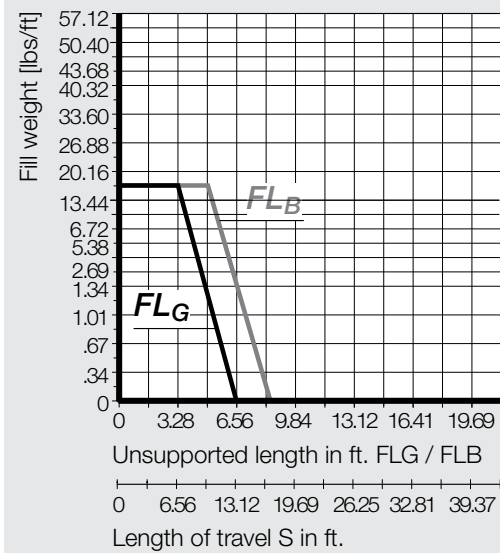
*R* in. (mm) | 5.91 (150) | 6.89 (175) | 7.87 (200) | 9.84 (250) | 11.81 (300) |

## Installation note - system E6

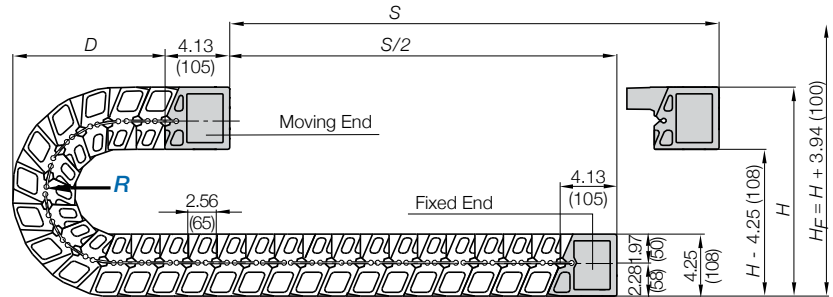
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



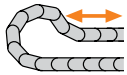


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 3.15 (80)               |
| Pitch per link in. (mm) | 2.56 (65)               |
| Links/ft (m)            | 4.69 (16)               |
| corresponds to (mm)     | 1,040                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



| R | 5.91 (150)  | 6.89 (175)  | 7.87 (200)  | 9.84 (250)  | 11.81 (300)  |
|---|-------------|-------------|-------------|-------------|--------------|
| H | 20.31 (516) | 22.28 (566) | 24.25 (616) | 28.19 (716) | 32.13 (816)  |
| D | 12.05 (306) | 13.03 (331) | 14.02 (356) | 15.98 (406) | 17.95 (456)  |
| K | 23.82 (605) | 26.77 (680) | 29.92 (760) | 36.02 (915) | 42.32 (1075) |

The required clearance height:  $H_F = H + 3.94$  in. (100 mm) with 3.36 lbs/ft (5.0 kg/m) fill weight.

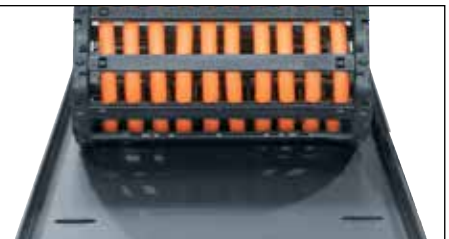


If a gliding application is required for a long travel, please consult igus®.

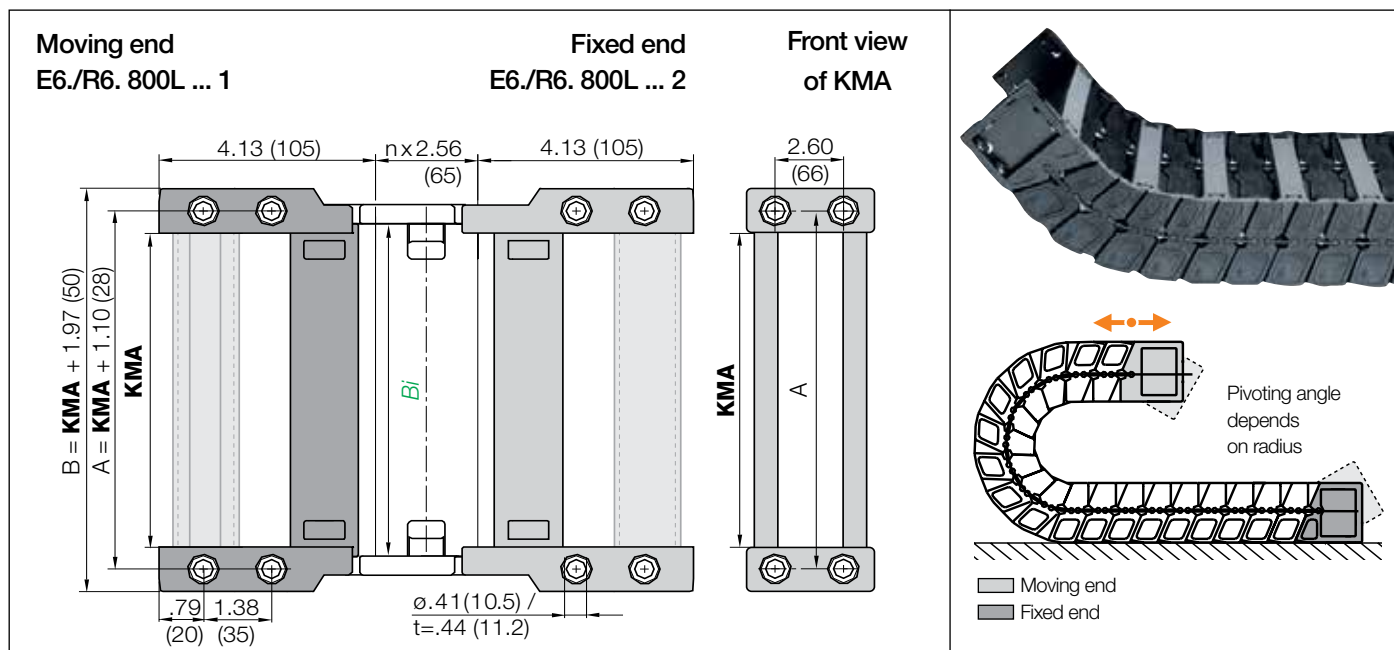
### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394



## KMA mounting brackets | Attachment from any side | Pivoting



## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set<br>KMA pivoting | A<br>in. (mm) | KMA<br>in. (mm) | Width index | Part No. full set<br>KMA pivoting | A<br>in. (mm) | KMA<br>in. (mm) |
|-------------|-----------------------------------|---------------|-----------------|-------------|-----------------------------------|---------------|-----------------|
| 08.         | ▶ E6.800L. 08.12.C                | 4.06 (103)    | 2.95 (75)       | 32.         | ▶ E6.800L. 32.12.C                | 13.39 (340)   | 12.28 (312)     |
| 10.         | ▶ E6.800L. 10.12.C                | 4.53 (115)    | 3.42 (87)       | 33.         | ▶ E6.800L. 33.12.C                | 13.90 (353)   | 12.80 (325)     |
| 11.         | ▶ E6.800L. 11.12.C                | 5.04 (128)    | 3.94 (100)      | 35.         | ▶ E6.800L. 35.12.C                | 14.37 (365)   | 13.27 (337)     |
| 12.         | ▶ E6.800L. 12.12.C                | 5.51 (140)    | 4.41 (112)      | 36.         | ▶ E6.800L. 36.12.C                | 14.88 (378)   | 13.78 (350)     |
| 13.         | ▶ E6.800L. 13.12.C                | 6.02 (153)    | 4.92 (125)      | 37.         | ▶ E6.800L. 37.12.C                | 15.35 (390)   | 14.25 (362)     |
| 15.         | ▶ E6.800L. 15.12.C                | 6.50 (165)    | 5.39 (137)      | 38.         | ▶ E6.800L. 38.12.C                | 15.87 (403)   | 14.76 (375)     |
| 16.         | ▶ E6.800L. 16.12.C                | 7.01 (178)    | 5.91 (150)      | 40.         | ▶ E6.800L. 40.12.C                | 16.34 (415)   | 15.24 (387)     |
| 17.         | ▶ E6.800L. 17.12.C                | 7.48 (190)    | 6.38 (162)      | 41.         | ▶ E6.800L. 41.12.C                | 16.85 (428)   | 15.75 (400)     |
| 18.         | ▶ E6.800L. 18.12.C                | 7.99 (203)    | 6.89 (175)      | 42.         | ▶ E6.800L. 42.12.C                | 17.32 (440)   | 16.22 (412)     |
| 20.         | ▶ E6.800L. 20.12.C                | 8.46 (215)    | 7.36 (187)      | 43.         | ▶ E6.800L. 43.12.C                | 17.83 (453)   | 16.73 (425)     |
| 21.         | ▶ E6.800L. 21.12.C                | 8.98 (228)    | 7.87 (200)      | 45.         | ▶ E6.800L. 45.12.C                | 18.31 (465)   | 17.20 (437)     |
| 22.         | ▶ E6.800L. 22.12.C                | 9.45 (240)    | 8.35 (212)      | 46.         | ▶ E6.800L. 46.12.C                | 18.82 (478)   | 17.72 (450)     |
| 23.         | ▶ E6.800L. 23.12.C                | 9.96 (253)    | 8.86 (225)      | 47.         | ▶ E6.800L. 47.12.C                | 19.29 (490)   | 18.19 (462)     |
| 25.         | ▶ E6.800L. 25.12.C                | 10.43 (265)   | 9.33 (237)      | 48.         | ▶ E6.800L. 48.12.C                | 19.80 (503)   | 18.70 (475)     |
| 26.         | ▶ E6.800L. 26.12.C                | 10.94 (278)   | 9.84 (250)      | 50.         | ▶ E6.800L. 50.12.C                | 20.28 (515)   | 19.17 (487)     |
| 27.         | ▶ E6.800L. 27.12.C                | 11.42 (290)   | 10.31 (262)     | 51.         | ▶ E6.800L. 51.12.C                | 20.79 (528)   | 19.69 (500)     |
| 28.         | ▶ E6.800L. 28.12.C                | 11.93 (303)   | 10.83 (275)     | 52.         | ▶ E6.800L. 52.12.C                | 21.26 (540)   | 20.16 (512)     |
| 30.         | ▶ E6.800L. 30.12.C                | 12.40 (315)   | 11.30 (287)     | 53.         | ▶ E6.800L. 53.12.C                | 21.77 (553)   | 20.67 (525)     |
| 31.         | ▶ E6.800L. 31.12.C                | 12.91 (328)   | 11.81 (300)     | 55.         | ▶ E6.800L. 55.12.C                | 22.24 (565)   | 21.14 (537)     |



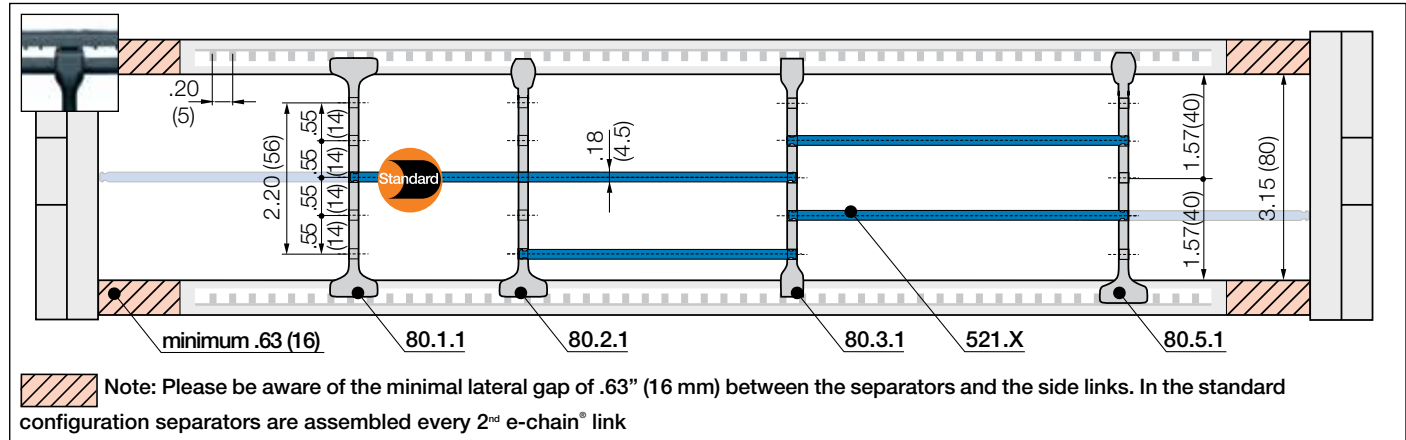
Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

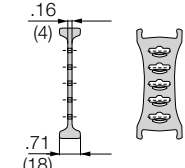
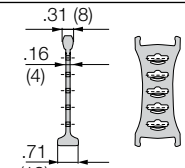
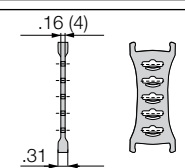
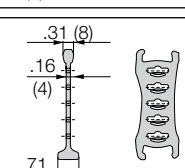
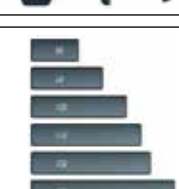
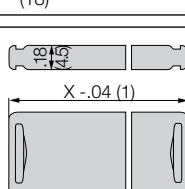
## E6.800L.10.12.C.A2 Order example

**.A...** to indicate option with brackets pre-fitted  
C-profile option  
Full set  
width index  
Series

## Interior separation | Increase cable service life

Previous generation of interior separation with other options ► [www.igus.com/E6.80L](http://www.igus.com/E6.80L)



|                                                                                     |                                                                                     |                                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|    |    | <b>Standard separator, wide base</b><br>unassembled <b>80.1</b><br>assembled <b>80.1.1</b>        |
|   |   | <b>Separator, narrow top</b><br>unassembled <b>80.2</b><br>assembled <b>80.2.1</b>                |
|  |  | <b>Separator, narrow</b><br>unassembled <b>80.3</b><br>assembled <b>80.3.1</b>                    |
|  |  | <b>Notch separator for notched crossbar</b><br>unassembled <b>80.5</b><br>assembled <b>80.5.1</b> |
|  |  | <b>Shelf, lockable</b><br>unassembled <b>520.X</b><br>assembled <b>521.X</b>                      |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### For a large number of thin cables

Separator with a narrow base for a large number of thin cables side by side. Saves space.

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

### Shelves

Width = X in. (mm)

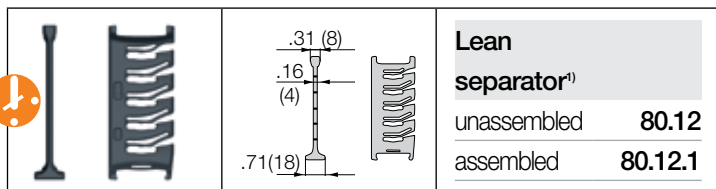
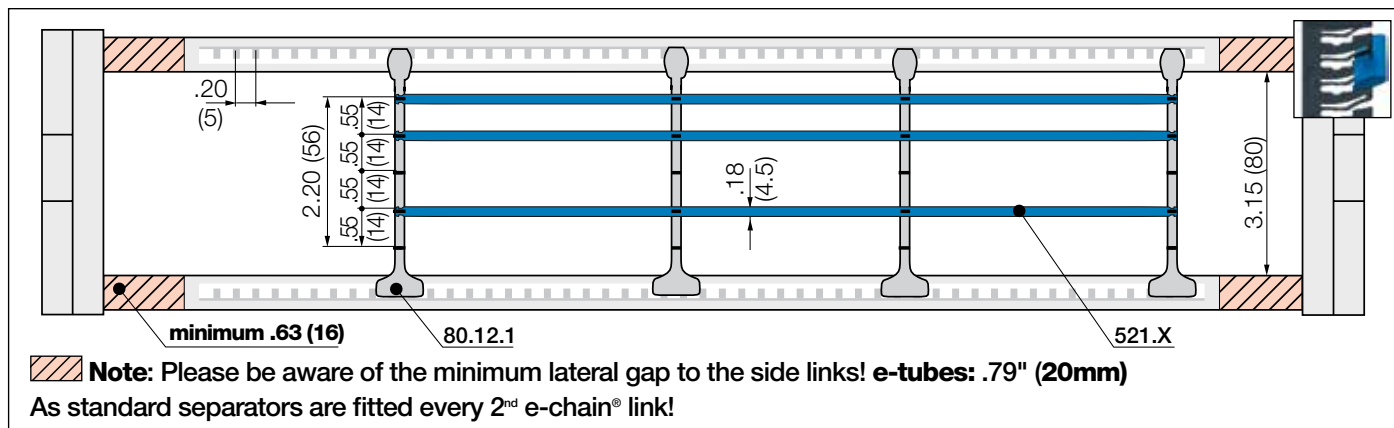


| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm)  | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|-------------|-------------|-----------|
| 1.97 (050) | 520.050     | 521.050   | 5.91 (150) | 520.150     | 521.150   | 11.81 (300) | 520.300     | 521.300   |
| 2.56 (065) | 520.065     | 521.065   | 6.89 (175) | 520.175     | 521.175   | 13.78 (350) | 520.350     | 521.350   |
| 2.95 (075) | 520.075     | 521.075   | 7.87 (200) | 520.200     | 521.200   | 14.76 (375) | 520.375     | 521.375   |
| 3.94 (100) | 520.100     | 521.100   | 8.86 (225) | 520.225     | 521.225   | 15.24 (387) | 520.387     | 521.387   |
| 4.92 (125) | 520.125     | 521.125   | 9.84 (250) | 520.250     | 521.250   | 17.72 (450) | 520.450     | 521.450   |



**Strain relief** e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1418

## Interior separation | To allow faster filling

Lean separators<sup>1)</sup>

For quick fitting of shelves in several layers.

**1) Note:** Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains<sup>2)</sup>!

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%<sup>2)</sup>.

2) Lean interior separation vs. standard interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab





The E6 system is one of the best ways to guide energy, data and media safely and with very low vibration on printers and plotters



## e-chains® | Series E6.80 | Crossbars removable along the inner and outer radius

| Part No.<br>e-chains® | Bi<br>in. (mm) | Ba<br>in. (mm) | E6.80L<br>lbs/ft<br>(kg/m) |
|-----------------------|----------------|----------------|----------------------------|
| E6.80. 05. R.0        | 1.97 (50)      | 3.94 (100)     | ≈3.50 (5.21)               |
| E6.80. 06. R.0        | 2.56 (65)      | 4.53 (115)     | ≈3.55 (5.28)               |
| E6.80. 07. R.0        | 2.95 (75)      | 4.92 (125)     | ≈3.58 (5.33)               |
| E6.80. 08. R.0        | 3.43 (87)      | 5.91 (137)     | ≈3.62 (5.38)               |
| E6.80. 10. R.0        | 3.94 (100)     | 5.91 (150)     | ≈3.66 (5.45)               |
| E6.80. 11. R.0        | 4.41 (112)     | 6.38 (162)     | ≈3.70 (5.50)               |
| E6.80. 12. R.0        | 4.92 (125)     | 6.89 (175)     | ≈3.74 (5.57)               |
| E6.80. 13. R.0        | 5.39 (137)     | 7.36 (187)     | ≈3.78 (5.62)               |
| E6.80. 15. R.0        | 5.91 (150)     | 7.87 (200)     | ≈3.82 (5.68)               |
| E6.80. 16. R.0        | 6.38 (162)     | 8.35 (212)     | ≈3.86 (5.74)               |
| E6.80. 17. R.0        | 6.89 (175)     | 8.86 (225)     | ≈3.90 (5.80)               |
| E6.80. 18. R.0        | 7.36 (187)     | 9.33 (237)     | ≈3.94 (5.86)               |
| E6.80. 20. R.0        | 7.87 (200)     | 9.84 (250)     | ≈3.98 (5.92)               |
| E6.80. 21. R.0        | 8.35 (212)     | 10.31 (262)    | ≈4.02 (5.98)               |
| E6.80. 22. R.0        | 8.86 (225)     | 10.83 (275)    | ≈4.06 (6.04)               |
| E6.80. 23. R.0        | 9.33 (237)     | 11.30 (287)    | ≈4.10 (6.10)               |
| E6.80. 25. R.0        | 9.84 (250)     | 11.81 (300)    | ≈4.14 (6.16)               |
| E6.80. 26. R.0        | 10.31 (262)    | 12.28 (312)    | ≈4.17 (6.21)               |
| E6.80. 27. R.0        | 10.83 (275)    | 12.80 (325)    | ≈4.22 (6.28)               |
| E6.80. 28. R.0        | 11.30 (287)    | 13.27 (337)    | ≈4.25 (6.33)               |
| E6.80. 30. R.0        | 11.81 (300)    | 13.78 (350)    | ≈4.29 (6.39)               |

| Part No.<br>e-chains® | Bi<br>in. (mm) | Ba<br>in. (mm) | E6.80L<br>lbs/ft<br>(kg/m) |
|-----------------------|----------------|----------------|----------------------------|
| E6.80. 31. R.0        | 12.28 (312)    | 14.25 (362)    | ≈4.33 (6.45)               |
| E6.80. 32. R.0        | 12.80 (325)    | 14.76 (375)    | ≈4.37 (6.51)               |
| E6.80. 33. R.0        | 13.27 (337)    | 15.24 (387)    | ≈4.41 (6.57)               |
| E6.80. 35. R.0        | 13.78 (350)    | 15.75 (400)    | ≈4.46 (6.63)               |
| E6.80. 36. R.0        | 14.25 (362)    | 16.22 (412)    | ≈4.50 (6.69)               |
| E6.80. 37. R.0        | 14.76 (375)    | 16.73 (425)    | ≈4.54 (6.75)               |
| E6.80. 38. R.0        | 15.24 (387)    | 17.20 (437)    | ≈4.57 (6.80)               |
| E6.80. 40. R.0        | 15.75 (400)    | 17.72 (450)    | ≈4.62 (6.88)               |
| E6.80. 41. R.0        | 16.22 (412)    | 18.19 (462)    | ≈4.65 (6.92)               |
| E6.80. 42. R.0        | 16.73 (425)    | 18.70 (475)    | ≈4.70 (6.99)               |
| E6.80. 43. R.0        | 17.20 (437)    | 19.17 (487)    | ≈4.73 (7.04)               |
| E6.80. 45. R.0        | 17.72 (450)    | 19.69 (500)    | ≈4.77 (7.10)               |
| E6.80. 46. R.0        | 18.19 (462)    | 20.16 (512)    | ≈4.81 (7.16)               |
| E6.80. 47. R.0        | 18.70 (475)    | 20.67 (525)    | ≈4.85 (7.22)               |
| E6.80. 48. R.0        | 19.17 (487)    | 21.14 (537)    | ≈4.89 (7.28)               |
| E6.80. 50. R.0        | 19.69 (500)    | 21.65 (550)    | ≈4.93 (7.34)               |
| E6.80. 51. R.0        | 20.16 (512)    | 22.13 (562)    | ≈4.97 (7.40)               |
| E6.80. 52. R.0        | 20.67 (525)    | 22.64 (575)    | ≈5.01 (7.46)               |
| E6.80. 53. R.0        | 21.14 (537)    | 23.11 (587)    | ≈5.05 (7.52)               |
| E6.80. 55. R.0        | 21.65 (550)    | 23.62 (600)    | ≈5.09 (7.58)               |
| E6.80. 60. R.0        | 23.62 (600)    | 25.59 (650)    | ≈5.25 (7.81)               |

Complete Part No. with required radius (R). Example: E6.80.10.250.0 = crossbars every link

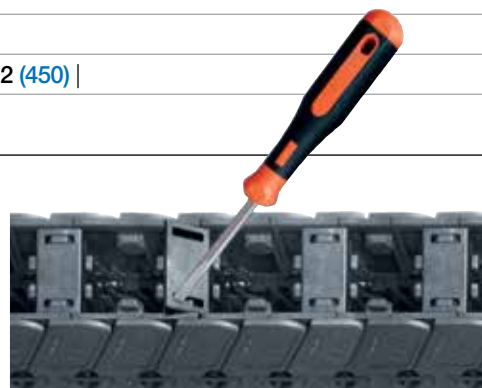
## Available bend radii

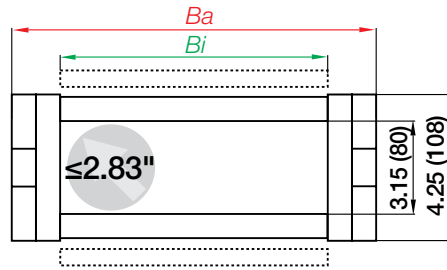
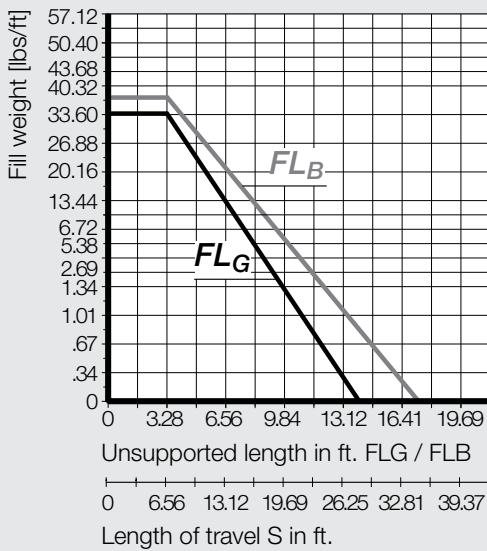
R in. (mm) | 5.91 (150) | 7.87 (200) | 9.84 (250) | 11.81 (300) | 13.78 (350) | 15.75 (400) | 17.72 (450) |

## Installation note - system E6

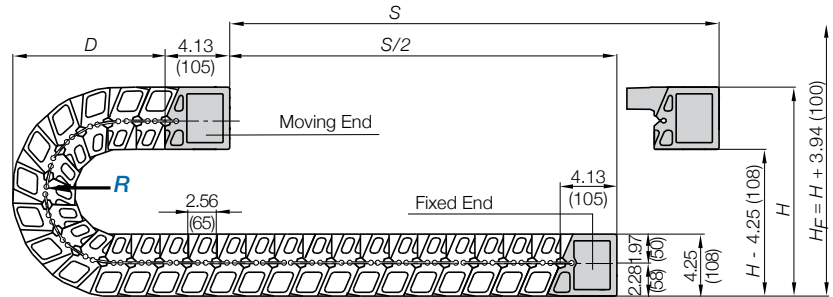
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at ► [www.igus.com/E6\\_assembly](http://www.igus.com/E6_assembly)



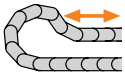


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 3.15 (80)               |
| Pitch per link in. (mm) | 2.56 (65)               |
| Links/ft (m)            | 4.69 (16)               |
| corresponds to (mm)     | 1,040                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



| R | 5.91 (150)  | 7.87 (200)  | 9.84 (250)  | 11.81 (300)  | 13.78 (350)  | 15.75 (400)  | 17.71 (450)  |
|---|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| H | 20.31 (516) | 24.25 (616) | 28.19 (716) | 32.13 (816)  | 36.06 (916)  | 40.00 (1016) | 43.94 (1116) |
| D | 12.05 (306) | 14.02 (356) | 15.98 (406) | 17.95 (456)  | 19.92 (506)  | 21.89 (556)  | 23.86 (606)  |
| K | 23.82 (605) | 29.92 (760) | 36.22 (920) | 42.32 (1075) | 48.43 (1230) | 54.72 (1390) | 60.83 (1545) |

The required clearance height:  $H_F = H + 3.94$  in. (100 mm) with 3.36 lbs/ft (5.0 kg/m) fill weight.

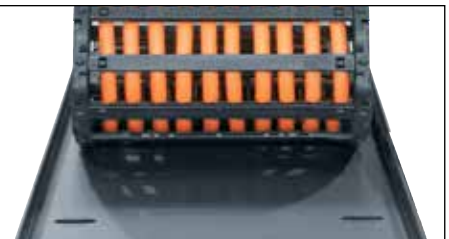


If a gliding application is required for a long travel, please consult igus®.

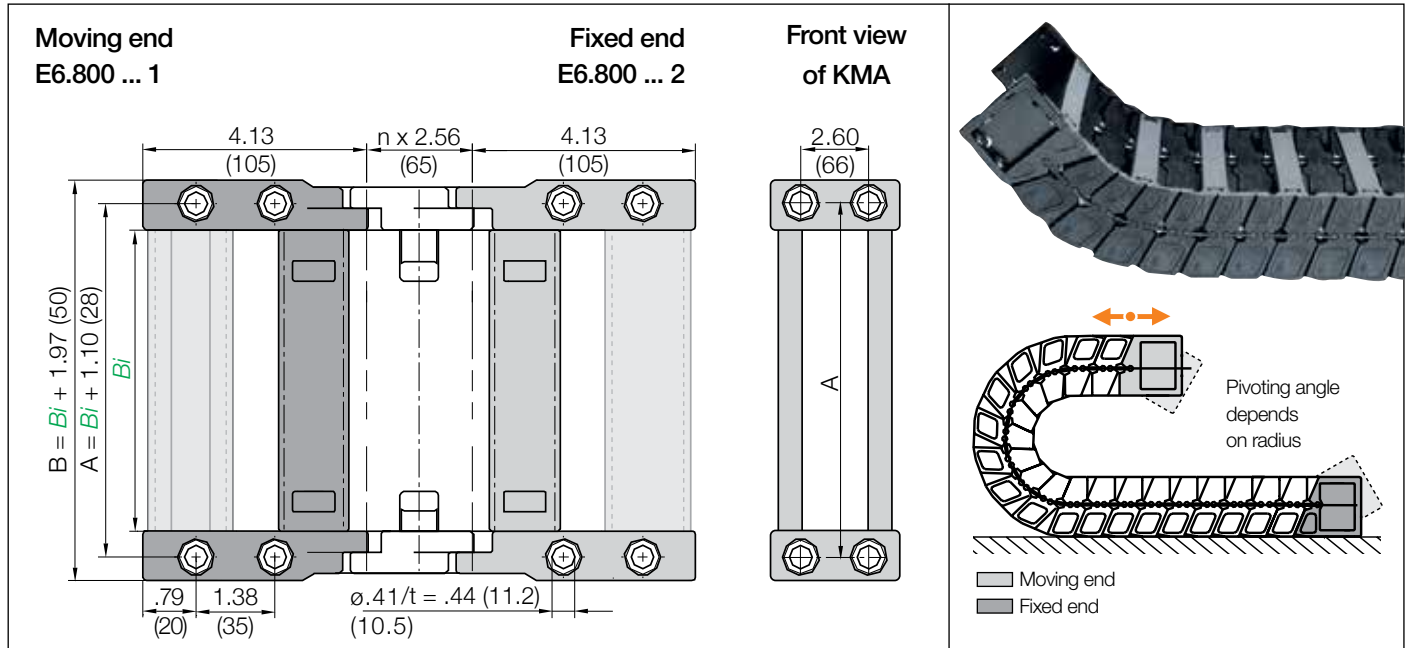
### Steel support tray for support of the lower run

- Simple one-piece support trays for the lower run
- To your requirements and specification
- 4 options available

More information ► From page 1394



## KMA mounting brackets | Attachment from any side | Pivoting



## KMA pivoting | Recommended for unsupported applications

| Width index | Part No. full set<br>KMA pivoting | A<br>in. (mm) | B<br>in. (mm) | Bi<br>in. (mm) | Width index | Part No. full set<br>KMA pivoting | A<br>in. (mm) | B<br>in. (mm) | Bi<br>in. (mm) |
|-------------|-----------------------------------|---------------|---------------|----------------|-------------|-----------------------------------|---------------|---------------|----------------|
| 05.         | ▶ E6.800.05.12.C                  | 3.07 (78)     | 3.94 (100)    | 1.97 (50)      | 31.         | ▶ E6.800.31.12.C                  | 13.39 (340)   | 14.25 (362)   | 12.28 (312)    |
| 06.         | ▶ E6.800.06.12.C                  | 3.66 (93)     | 4.53 (115)    | 2.56 (65)      | 32.         | ▶ E6.800.32.12.C                  | 13.90 (353)   | 14.76 (375)   | 12.80 (325)    |
| 07.         | ▶ E6.800.07.12.C                  | 4.06 (103)    | 4.92 (125)    | 2.95 (75)      | 33.         | ▶ E6.800.33.12.C                  | 14.37 (365)   | 15.24 (387)   | 13.27 (337)    |
| 08.         | ▶ E6.800.08.12.C                  | 4.53 (115)    | 5.39 (137)    | 3.43 (87)      | 35.         | ▶ E6.800.35.12.C                  | 14.88 (378)   | 15.75 (400)   | 13.78 (350)    |
| 10.         | ▶ E6.800.10.12.C                  | 5.04 (128)    | 5.91 (150)    | 3.94 (100)     | 36.         | ▶ E6.800.36.12.C                  | 15.35 (390)   | 16.22 (412)   | 14.25 (362)    |
| 11.         | ▶ E6.800.11.12.C                  | 5.51 (140)    | 6.38 (162)    | 4.41 (112)     | 37.         | ▶ E6.800.37.12.C                  | 15.87 (403)   | 16.73 (425)   | 14.76 (375)    |
| 12.         | ▶ E6.800.12.12.C                  | 6.02 (153)    | 6.89 (175)    | 4.92 (125)     | 38.         | ▶ E6.800.38.12.C                  | 16.34 (415)   | 17.20 (437)   | 15.24 (387)    |
| 13.         | ▶ E6.800.13.12.C                  | 6.50 (165)    | 7.36 (187)    | 5.39 (137)     | 40.         | ▶ E6.800.40.12.C                  | 16.85 (428)   | 17.72 (450)   | 15.75 (400)    |
| 15.         | ▶ E6.800.15.12.C                  | 7.01 (178)    | 7.87 (200)    | 5.91 (150)     | 41.         | ▶ E6.800.41.12.C                  | 17.32 (440)   | 18.19 (462)   | 16.22 (412)    |
| 16.         | ▶ E6.800.16.12.C                  | 7.48 (190)    | 8.35 (212)    | 6.38 (162)     | 42.         | ▶ E6.800.42.12.C                  | 17.83 (453)   | 18.70 (475)   | 16.73 (425)    |
| 17.         | ▶ E6.800.17.12.C                  | 7.99 (203)    | 8.86 (225)    | 6.89 (175)     | 43.         | ▶ E6.800.43.12.C                  | 18.31 (465)   | 19.17 (487)   | 17.20 (437)    |
| 18.         | ▶ E6.800.18.12.C                  | 8.46 (215)    | 9.33 (237)    | 7.36 (187)     | 45.         | ▶ E6.800.45.12.C                  | 18.82 (478)   | 19.69 (500)   | 17.72 (450)    |
| 20.         | ▶ E6.800.20.12.C                  | 8.98 (228)    | 9.84 (250)    | 7.78 (200)     | 46.         | ▶ E6.800.46.12.C                  | 19.29 (490)   | 20.16 (512)   | 18.19 (462)    |
| 21.         | ▶ E6.800.21.12.C                  | 9.45 (240)    | 10.31 (262)   | 8.35 (212)     | 47.         | ▶ E6.800.47.12.C                  | 19.80 (503)   | 20.67 (525)   | 18.70 (475)    |
| 22.         | ▶ E6.800.22.12.C                  | 9.96 (253)    | 10.83 (275)   | 8.86 (225)     | 48.         | ▶ E6.800.48.12.C                  | 20.28 (515)   | 21.14 (537)   | 19.17 (487)    |
| 23.         | ▶ E6.800.23.12.C                  | 10.43 (265)   | 11.30 (287)   | 9.33 (237)     | 50.         | ▶ E6.800.50.12.C                  | 20.79 (528)   | 21.65 (550)   | 19.69 (500)    |
| 25.         | ▶ E6.800.25.12.C                  | 10.94 (278)   | 11.81 (300)   | 9.84 (250)     | 51.         | ▶ E6.800.51.12.C                  | 21.26 (540)   | 22.13 (562)   | 20.16 (512)    |
| 26.         | ▶ E6.800.26.12.C                  | 11.42 (290)   | 12.28 (312)   | 10.31 (262)    | 52.         | ▶ E6.800.52.12.C                  | 21.77 (553)   | 22.64 (575)   | 20.67 (525)    |
| 27.         | ▶ E6.800.27.12.C                  | 11.93 (303)   | 12.80 (325)   | 10.83 (275)    | 53.         | ▶ E6.800.53.12.C                  | 22.24 (565)   | 23.11 (587)   | 21.14 (537)    |
| 28.         | ▶ E6.800.28.12.C                  | 12.40 (315)   | 13.27 (337)   | 11.30 (287)    | 55.         | ▶ E6.800.55.12.C                  | 22.76 (578)   | 23.62 (600)   | 21.65 (550)    |
| 30.         | ▶ E6.800.30.12.C                  | 12.91 (328)   | 13.78 (350)   | 11.81 (300)    | 60.         | ▶ E6.800.60.12.C                  | 24.72 (628)   | 25.59 (650)   | 23.62 (600)    |

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C



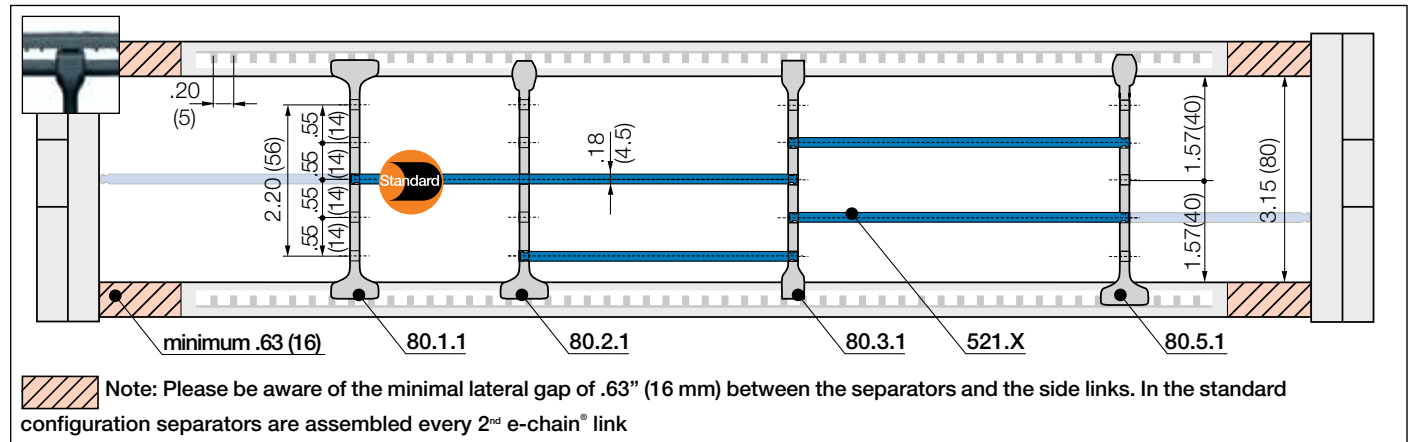
Possible orientations for KMA mounting brackets. For mounting brackets pre-fitted **without C-profile**, please attach index **.A**. For types pre-fitted **with C-profile** please attach index **.A1**, **.A2**, **.A3** or **.A4**.

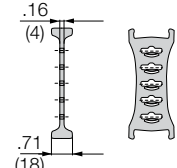
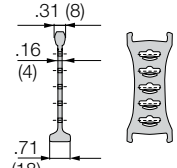
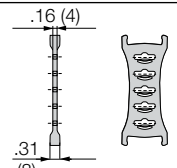
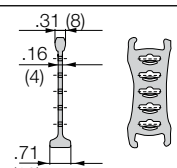
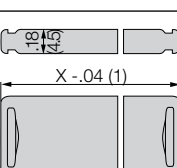
## E6.800.10.12.C.A2 Order example

- .A... to indicate option with brackets pre-fitted
- C-profile option
- Full set
- width index
- Series

## Interior separation | Increase cable service life

Previous generation of interior separation with other options ► [www.igus.com/E6.80](http://www.igus.com/E6.80)



|                                                                                     |                                                                                     |                                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|    |    | <b>Standard separator, wide base</b><br>unassembled <b>80.1</b><br>assembled <b>80.1.1</b>        |
|   |   | <b>Separator, narrow top</b><br>unassembled <b>80.2</b><br>assembled <b>80.2.1</b>                |
|  |  | <b>Separator, narrow</b><br>unassembled <b>80.3</b><br>assembled <b>80.3.1</b>                    |
|  |  | <b>Notch separator for notched crossbar</b><br>unassembled <b>80.5</b><br>assembled <b>80.5.1</b> |
|  |  | <b>Shelf, lockable</b><br>unassembled <b>520.X</b><br>assembled <b>521.X</b>                      |

### Standard - for any application

Separator with a wide base for maximum holding force.

### For even faster installation

Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

### For a large number of thin cables

Separator with a narrow base for a large number of thin cables side by side. Saves space.

### Locks securely in preset increments

Notch separator for exact positioning. Recommended for side-mounted applications.

### Horizontal separation

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

### Shelves

Width = X in. (mm)

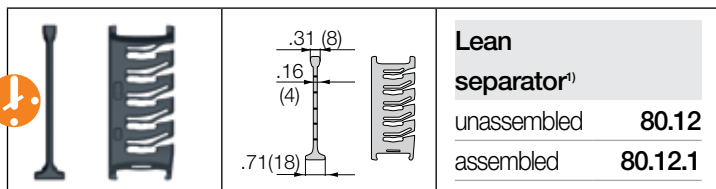
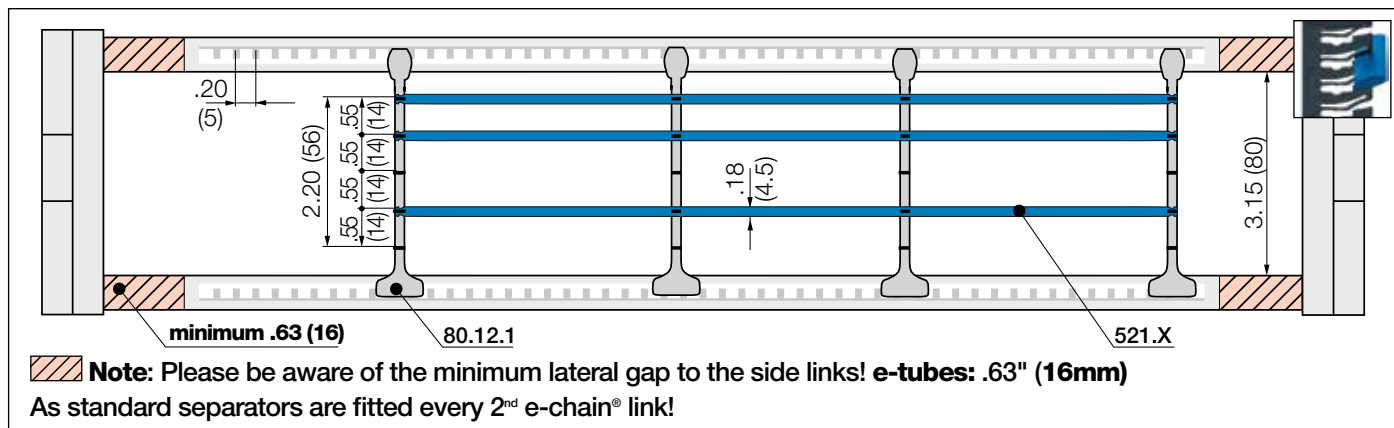


| X in. (mm) | unassembled | assembled | X in. (mm) | unassembled | assembled | X in. (mm)  | unassembled | assembled |
|------------|-------------|-----------|------------|-------------|-----------|-------------|-------------|-----------|
| 1.97 (050) | 520.050     | 521.050   | 5.91 (150) | 520.150     | 521.150   | 11.81 (300) | 520.300     | 521.300   |
| 2.56 (065) | 520.065     | 521.065   | 6.89 (175) | 520.175     | 521.175   | 13.78 (350) | 520.350     | 521.350   |
| 2.95 (075) | 520.075     | 521.075   | 7.87 (200) | 520.200     | 521.200   | 14.76 (375) | 520.375     | 521.375   |
| 3.94 (100) | 520.100     | 521.100   | 8.86 (225) | 520.225     | 521.225   | 15.24 (387) | 520.387     | 521.387   |
| 4.92 (125) | 520.125     | 521.125   | 9.84 (250) | 520.250     | 521.250   | 17.72 (450) | 520.450     | 521.450   |



**Strain relief** e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1418

## Interior separation | To allow faster filling

Lean separators<sup>1)</sup>

For quick fitting of shelves in several layers.

**1) Note:** Please combine maximum 4 lean separators with one shelf. Not suitable for side-mounted e-chains!

With the lean separator you can quickly insert several layers of cables into the e-chain® and reduce the installation time by up to 50%<sup>2)</sup>.

2) Lean interior separation vs. standard interior separation - measured on a 4m long e-chain® fitted with 12 cables in the igus® lab





igus® system E6 guiding an extraction hose - speed 26.25 ft/s (8m/s), acceleration 257.5 ft/s<sup>2</sup> (78.5m/s<sup>2</sup>)



An igus® e-chain® from the E6 range accelerates work processes in the wafer-handling application in chip production. The E6 easily supplies energy for wafer handling in chip production requiring acceleration rates of up to 13.12 ft/s<sup>2</sup> (4m/s<sup>2</sup>) and speeds of up to 19.69 ft/s (6m/s). Its low abrasion is especially important because a high degree of purity is critical in chip production. The E6 is cleanroom-compatible and has Fraunhofer IPA certification

## Highest cleanroom suitability, very low abrasion, high strength - C6

The series meeting the highest cleanroom requirements is available in three inner heights: 29, 38 and 53mm. Optimized with the crossbars every link along the outer radius and as standard with crossbars and interior separations made of iglidur® J, the optimum friction partner for any cable jacket material. The side links are made of tribo-optimized low-wear dissipative ESD material as standard.



Attachment from any side  
with KMA mounting  
brackets

Fast assembly:  
crossbars removable along  
the inner and outer radius

Electrostatically  
dissipative: side parts  
made of ESD material to  
prevent static buildup

Standard:  
crossbars and interior  
separations made  
from iglide® J

Dynamic:  
high speeds and  
accelerations

Long service life:  
low vibration, high strength

IPA cleanroom Class 1:  
virtually no wear  
or abrasion

Modular design:  
can be easily lengthened  
and shortened

### Benefits

- Optimized design without any measurable abrasion
- For ISO cleanroom Class 1 applications
- High strength due to tough double stop-dog system
- Very quiet operation
- Side parts made of ESD material
- Long service life due to low life cycle costs
- Easy and therefore cost-saving installation
- Tribo-optimized iglidur® J crossbars and interior separations

### Typical application areas

- Electrical manufacturing
- Semiconductor industry
- FPD production
- Microelectronics
- Panel robots
- Packaging
- Plotters/printers
- Pharmaceutical industry

# C6 | Selection table | Technical data

| Series                                                                                      | Inner height<br><i>hi</i><br>in. (mm) | Inner width<br><i>Bi</i><br>in. (mm) | Outer width<br><i>Ba</i><br>in. (mm) | Outer height<br><i>ha</i><br>in. (mm) | Bend radius<br><i>R</i><br>in. (mm) | Unsupported<br>length<br>≤ ft. (m) |
|---------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|------------------------------------|
|            |                                       |                                      |                                      |                                       |                                     |                                    |
| <b>C6 e-chains®</b><br>crossbars every link - removable<br>along the inner and outer radius |                                       |                                      |                                      |                                       |                                     |                                    |
| C6.29                                                                                       | 1.14 (29)                             | 1.18-5.51 (30-140)                   | 1.81-6.14 (46-156)                   | 1.49 (38)                             | 2.17-5.91 (055-150)                 | ≈ 5.74 (1.75)                      |
| C6.38                                                                                       | 1.49 (38)                             | 1.18-5.51 (30-140)                   | 1.89-6.22 (48-158)                   | 1.85 (47)                             | 2.36-5.91 (060-150)                 | ≈ 8.20 (2.50)                      |
| C6.53                                                                                       | 2.09 (53)                             | 1.97-6.89 (50-175)                   | 2.91-7.83 (74-199)                   | 2.66 (67.5)                           | 2.95-7.87 (075-200)                 | ≈ 9.84 (3.00)                      |

## Technical data



Speed  $FL_G$  / acceleration  $FL_G$  ≤ 64.6 ft/s (20 m/s) / ≤ 656 ft/s<sup>2</sup> (200 m/s<sup>2</sup>)

Speed  $FL_B$  / acceleration  $FL_B$  ≤ 9.84 ft. (3 m/s) / ≤ 19.69 ft/s<sup>2</sup> (6 m/s<sup>2</sup>)



igumid® ESD LW side part material - permitted temperature upon request

Crossbar material, iglide J - permitted temperature -58°F (-50°C) / +194°F (+90°C)

Crossbar material, igumid TE - permitted temperature -40°F (-40°C) / +158°F (+70°C)



Flammability class VDE 0304 IIC UL94-HB

## Installation types, maximum travel lengths

| Series | <br>Unsupported | <br>Vertical hanging | <br>Vertical standing | <br>Side mounted, unsupported |
|--------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| C6.29  | ≤ 11.48 ft.<br>(3.5m)                                                                              | ≤ 82.03 ft.<br>(25m)                                                                                    | ≤ 6.56 ft.<br>(2.0m)                                                                                       | upon request                                                                                                       |
| C6.38  | ≤ 16.41 ft.<br>(5.0m)                                                                              | ≤ 164 ft.<br>(50m)                                                                                      | ≤ 6.56 ft.<br>(2.0m)                                                                                       | upon request                                                                                                       |
| C6.53  | ≤ 19.69 ft.<br>(6.0m)                                                                              | ≤ 164 ft.<br>(50m)                                                                                      | ≤ 6.56 ft.<br>(2.0m)                                                                                       | upon request                                                                                                       |

## Proof

IPA Qualification Certificate - Report IG 2304-1412 for C6 system C6, C6.29.060.100.17 series

| Test parameters                                                                    | Result            |
|------------------------------------------------------------------------------------|-------------------|
| $v_1 = 1.64\text{ft/s}$ (0.5m/s) $a_1 = 3.28\text{ft/s}^2$ (1.0m/s <sup>2</sup> )  | Cleanroom Class 1 |
| $v_2 = 3.28\text{ft/s}$ (1.0m/s) $a_2 = 6.56\text{ft/s}^2$ (2.0m/s <sup>2</sup> )  | Cleanroom Class 1 |
| $v_3 = 6.56\text{ft/s}$ (2.0m/s) $a_3 = 13.12\text{ft/s}^2$ (4.0m/s <sup>2</sup> ) | Cleanroom Class 1 |
| Overall result                                                                     | ISO Class 1       |





## e-chains® | Series C6.29 | Crossbars removable along the inner and outer radius

| Part No.                | <i>Bi</i> | <i>Ba</i> | C6.29            |
|-------------------------|-----------|-----------|------------------|
| e-chains®               | in. (mm)  | in. (mm)  | lbs/ft<br>(kg/m) |
| C6.29.030. <i>R</i> .17 | 1.18 (30) | 1.81 (46) | ≈0.42 (0.63)     |
| C6.29.040. <i>R</i> .17 | 1.57 (40) | 2.20 (56) | ≈0.46 (0.68)     |
| C6.29.050. <i>R</i> .17 | 1.97 (50) | 2.60 (66) | ≈0.48 (0.72)     |
| C6.29.060. <i>R</i> .17 | 2.36 (60) | 2.99 (76) | ≈0.52 (0.77)     |
| C6.29.070. <i>R</i> .17 | 2.76 (70) | 3.39 (86) | ≈0.54 (0.80)     |

| Part No.                | <i>Bi</i>  | <i>Ba</i>  | C6.29            |
|-------------------------|------------|------------|------------------|
| e-chains®               | in. (mm)   | in. (mm)   | lbs/ft<br>(kg/m) |
| C6.29.080. <i>R</i> .17 | 3.15 (80)  | 3.78 (96)  | ≈0.57 (0.85)     |
| C6.29.100. <i>R</i> .17 | 3.94 (100) | 4.57 (116) | ≈0.64 (0.95)     |
| C6.29.120. <i>R</i> .17 | 4.72 (120) | 5.35 (136) | ≈0.71 (1.05)     |
| C6.29.140. <i>R</i> .17 | 5.51 (140) | 6.14 (156) | ≈0.78 (1.16)     |

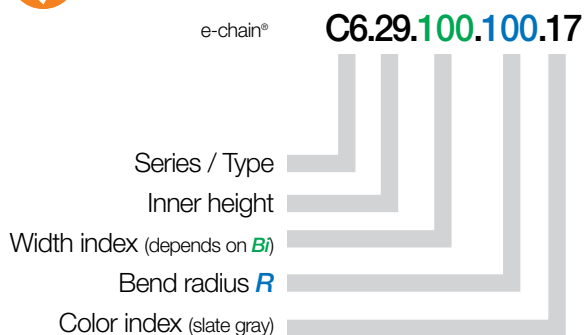
Complete Part No. with required radius (*R*). Example: C6.29.100.100.17 = crossbars every link

### Available bend radii

*R* in. (mm) | 2.17 (055) | 2.95 (075) | 3.94 (100) | 5.91 (150) |

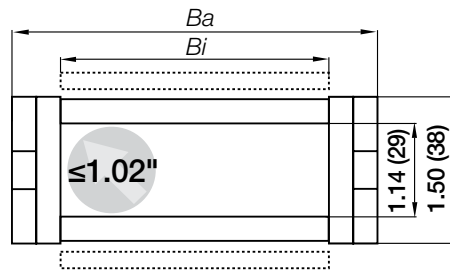
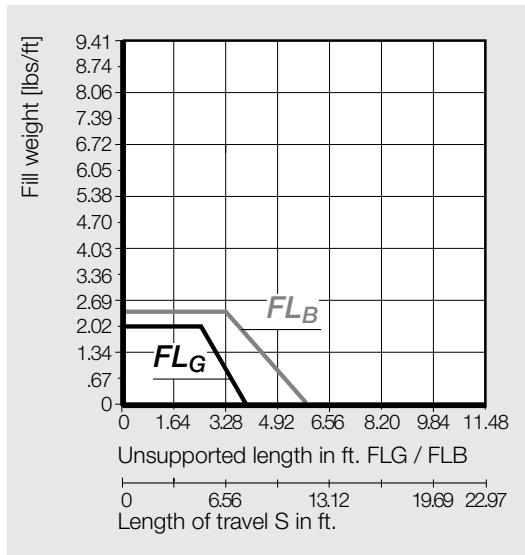


### Order key

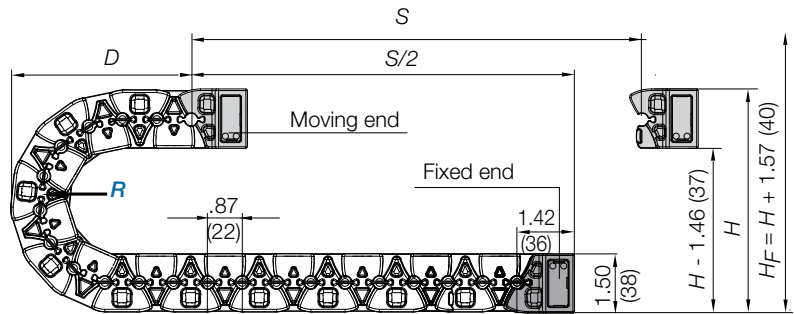


Available from stock  
On request

## Unsupported applications | Short travels

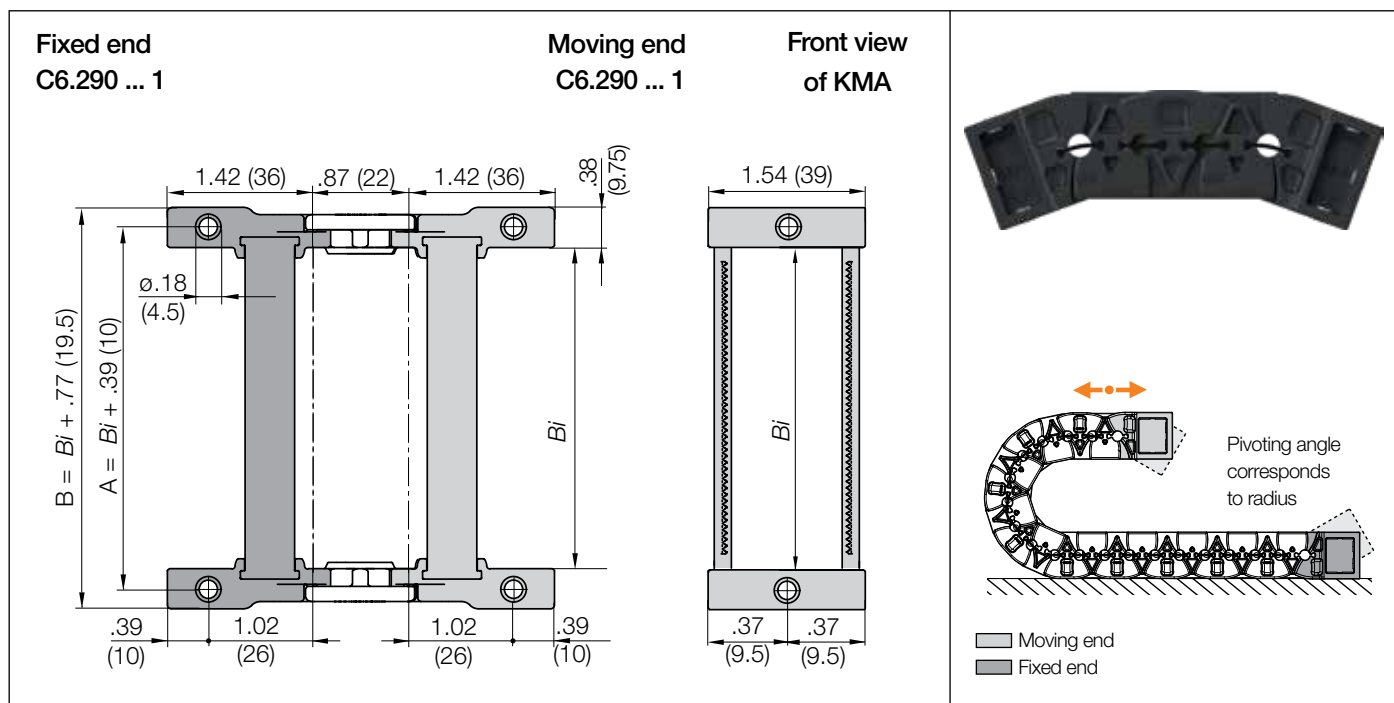


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 1.14 (29)               |
| Pitch per link in. (mm) | .87 (22)                |
| Links/ft (m)            | 13.79 (46)              |
| corresponds to (mm)     | 1,012                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



|          |                   |                   |                   |                   |
|----------|-------------------|-------------------|-------------------|-------------------|
| <b>R</b> | <b>2.17 (055)</b> | <b>2.95 (075)</b> | <b>3.94 (100)</b> | <b>5.91 (150)</b> |
| <b>H</b> | 7.01 (178)        | 8.58 (218)        | 10.55 (268)       | 14.49 (368)       |
| <b>D</b> | 4.21 (107)        | 5.00 (127)        | 5.98 (152)        | 7.95 (202)        |
| <b>K</b> | 8.54 (217)        | 9.29 (236)        | 12.40 (315)       | 18.58 (472)       |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.

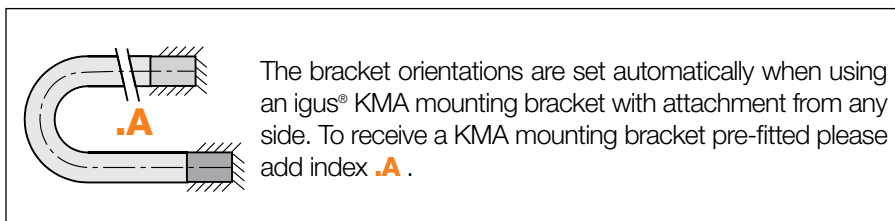


### KMA pivoting |

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm)  | <i>Bi</i> in. (mm) |
|-------------|--------------------------------|------------|-------------|--------------------|
| 030. ▶      | C6.290.030.12                  | 1.57 (40)  | 1.95 (49.5) | 1.18 (30)          |
| 040. ▶      | C6.290.040.12                  | 1.97 (50)  | 2.34 (59.5) | 1.57 (40)          |
| 050. ▶      | C6.290.050.12                  | 2.36 (60)  | 2.74 (69.5) | 1.97 (50)          |
| 060. ▶      | C6.290.060.12                  | 2.76 (70)  | 3.13 (79.5) | 2.36 (60)          |
| 070. ▶      | C6.290.070.12                  | 3.15 (80)  | 3.52 (89.5) | 2.76 (70)          |

(KMA = polymer metal mounting bracket)

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm)   | <i>Bi</i> in. (mm) |
|-------------|--------------------------------|------------|--------------|--------------------|
| 080. ▶      | C6.290.080.12                  | 3.54 (90)  | 3.92 (99.5)  | 3.15 (80)          |
| 100. ▶      | C6.290.100.12                  | 4.33 (110) | 4.70 (119.5) | 3.94 (100)         |
| 120. ▶      | C6.290.120.12                  | 5.12 (130) | 5.49 (139.5) | 4.72 (120)         |
| 140. ▶      | C6.290.140.12                  | 4.92 (150) | 6.28 (159.5) | 5.51 (140)         |



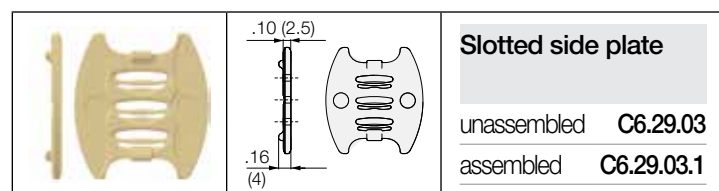
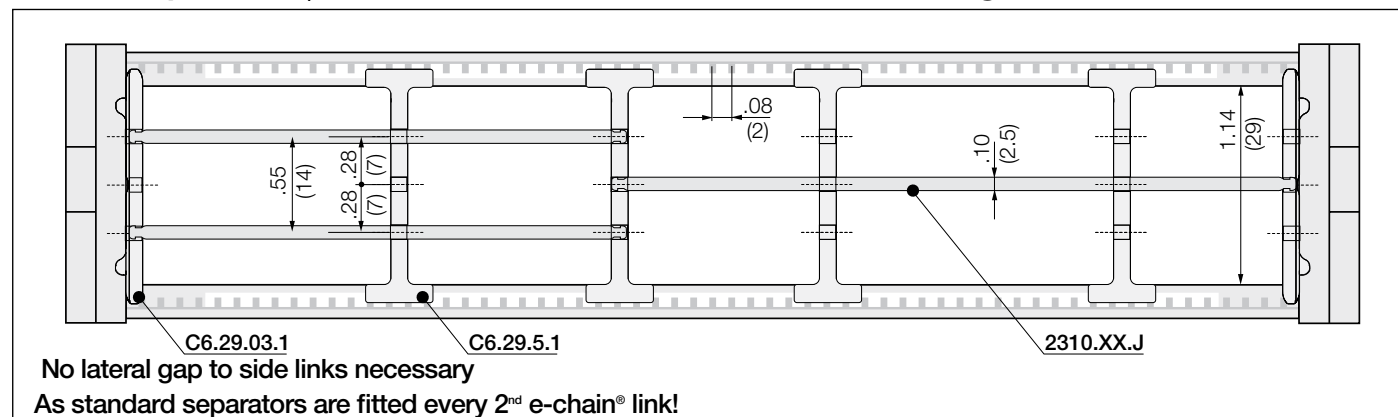
### C6.290.100.12.A Order example



Available from stock

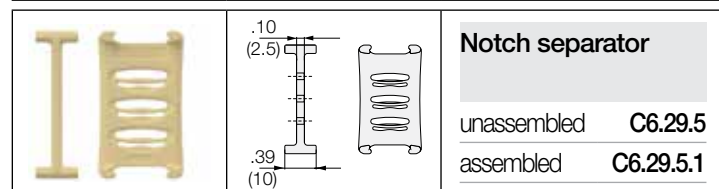
On request

## Interior separation | For minimum cable abrasion, made from iglide® J



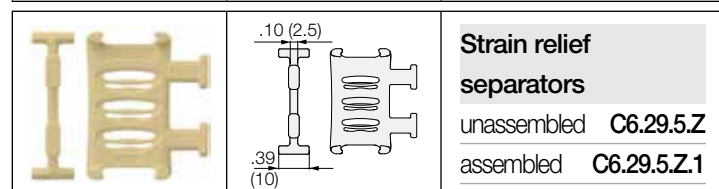
### Slotted side plate

Side plate made from iglide® J for minimum cable abrasion. Allows modular shelving right up to the side links. No clearance required.



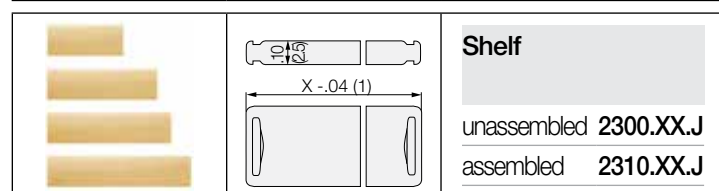
### Locks securely in preset increments

iglide® J notch separator for exact positioning.



### Strain relief separators

Separator with integrated strain relief teeth made from iglide® J. For assembly either at the first or last e-chain® link. For restricted space conditions.



### Horizontal separation made from iglide® J

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or modular shelving.

### Shelves

Width = X in. (mm)

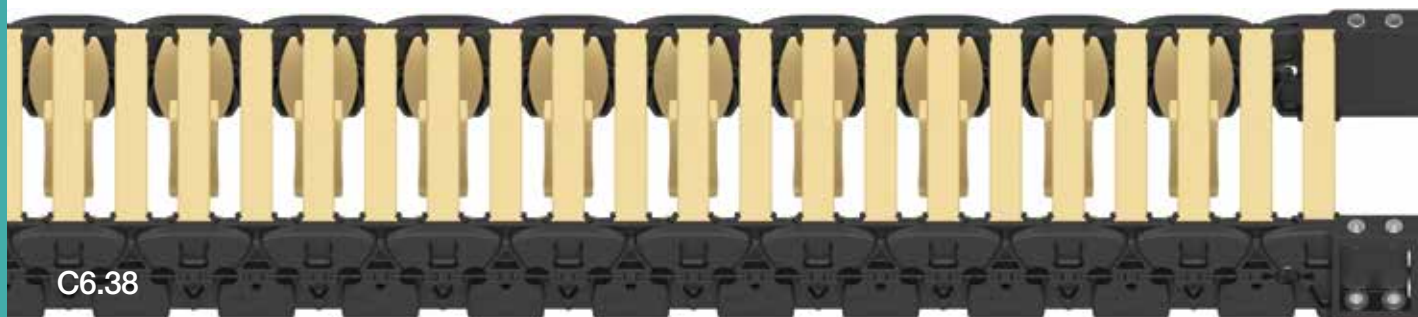
| X in. (mm) | unassembled | assembled  | X in. (mm) | unassembled | assembled  | X in. (mm) | unassembled | assembled  |
|------------|-------------|------------|------------|-------------|------------|------------|-------------|------------|
| .98 (025)  | 2300.025.J  | 2310.025.J | 2.36 (060) | 2300.060.J  | 2310.060.J | 47.2 (120) | 2300.120.J  | 2310.120.J |
| 1.18 (030) | 2300.030.J  | 2310.030.J | 2.76 (070) | 2300.070.J  | 2310.070.J | 4.92 (125) | 2300.125.J  | 2310.125.J |
| 1.57 (040) | 2300.040.J  | 2310.040.J | 3.15 (080) | 2300.080.J  | 2310.080.J | 5.51 (140) | 2300.140.J  | 2310.140.J |
| 1.97 (050) | 2300.050.J  | 2310.050.J | 3.94 (100) | 2300.100.J  | 2310.100.J |            |             |            |

More widths available upon request, please consult igus® for delivery time.



Available from stock

On request



## e-chains® | Series C6.38 | Crossbars removable along the inner and outer radius

| Part No.                | <i>Bi</i> | <i>Ba</i> | C6.38            |
|-------------------------|-----------|-----------|------------------|
| e-chains®               | in. (mm)  | in. (mm)  | lbs/ft<br>(kg/m) |
| C6.38.030. <i>R</i> .17 | 1.18 (30) | 1.81 (46) | ≈0.56 (0.84)     |
| C6.38.040. <i>R</i> .17 | 1.57 (40) | 2.20 (56) | ≈0.59 (0.88)     |
| C6.38.050. <i>R</i> .17 | 1.97 (50) | 2.60 (66) | ≈0.61 (0.91)     |
| C6.38.060. <i>R</i> .17 | 2.36 (60) | 2.99 (76) | ≈0.65 (0.96)     |
| C6.38.070. <i>R</i> .17 | 2.76 (70) | 3.39 (86) | ≈0.66 (0.99)     |

| Part No.                | <i>Bi</i>  | <i>Ba</i>  | C6.38            |
|-------------------------|------------|------------|------------------|
| e-chains®               | in. (mm)   | in. (mm)   | lbs/ft<br>(kg/m) |
| C6.38.080. <i>R</i> .17 | 3.15 (80)  | 3.78 (96)  | ≈0.69 (1.03)     |
| C6.38.100. <i>R</i> .17 | 3.94 (100) | 4.57 (116) | ≈0.75 (1.11)     |
| C6.38.120. <i>R</i> .17 | 4.72 (120) | 5.35 (136) | ≈0.81 (1.20)     |
| C6.38.140. <i>R</i> .17 | 5.51 (140) | 6.14 (156) | ≈0.87 (1.29)     |

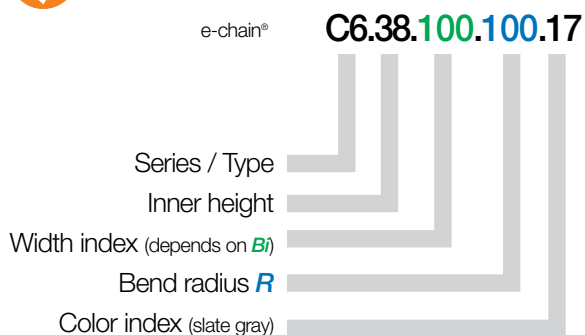
Complete Part No. with required radius (*R*). Example: C6.38.100.100.17 = crossbars every link

### Available bend radii

*R* in. (mm) | 2.36 (060) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) |

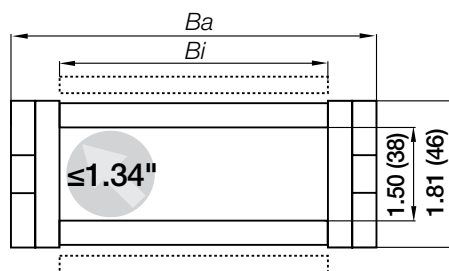
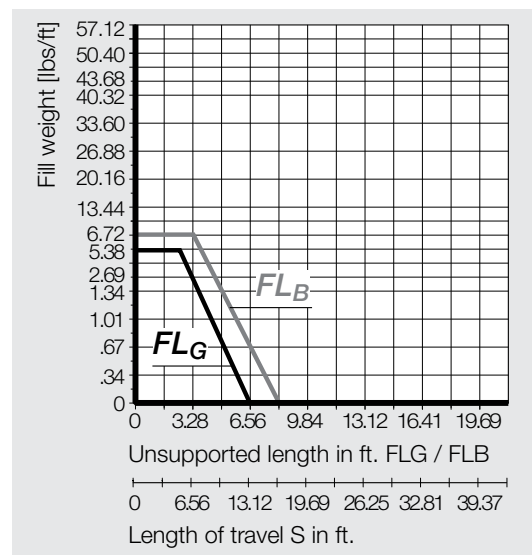


### Order key

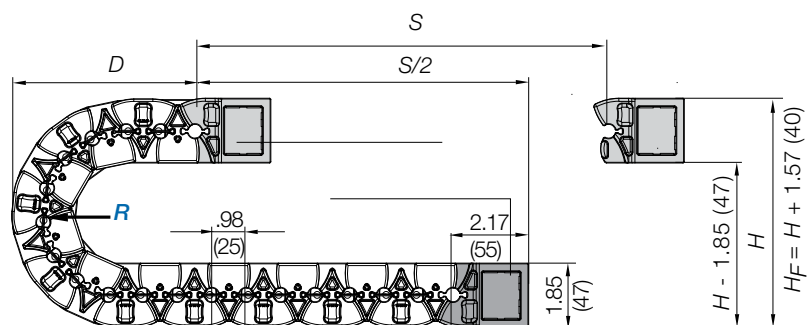


Available from stock  
On request

## Unsupported applications | Short travels

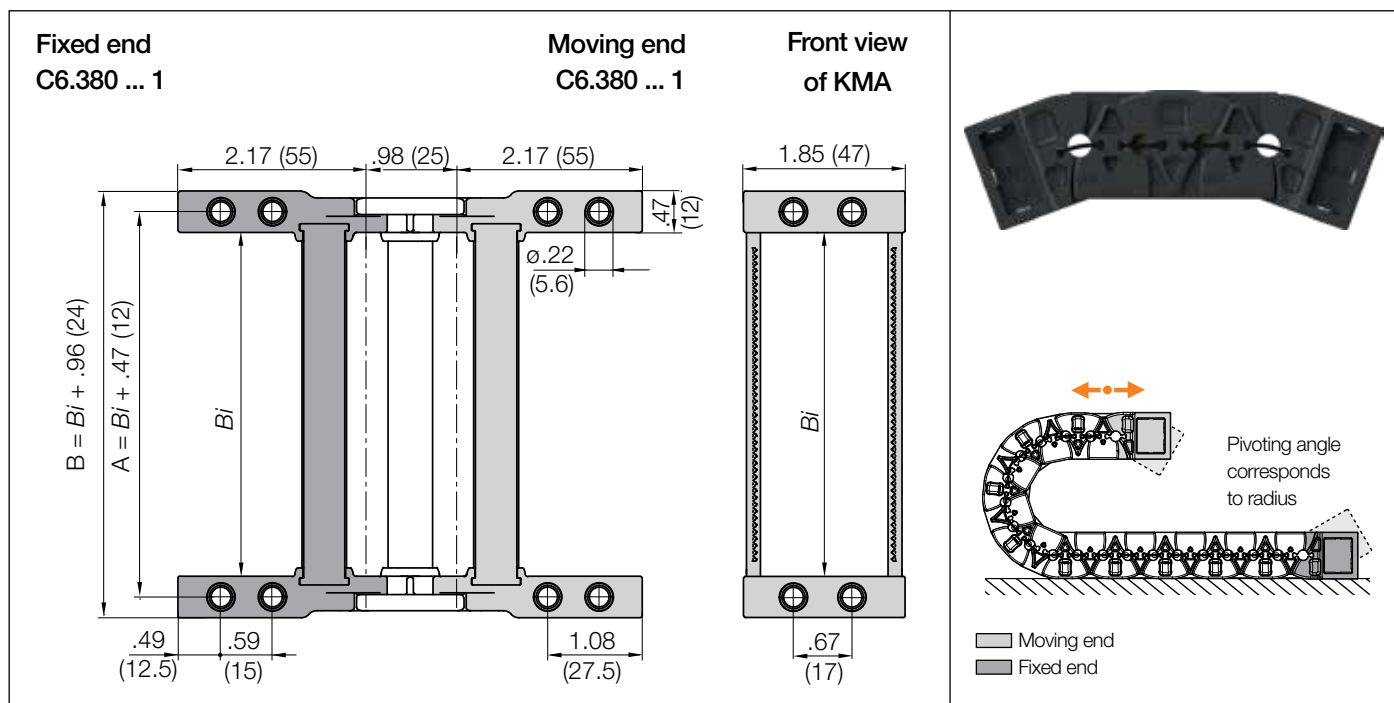


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 1.50 (38)               |
| Pitch per link in. (mm) | .98 (25)                |
| Links/ft (m)            | 12.24 (40)              |
| corresponds to (mm)     | 1,000                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



|          |                   |                   |                   |                   |                   |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>R</b> | <b>2.17 (060)</b> | <b>2.36 (075)</b> | <b>3.94 (100)</b> | <b>4.92 (125)</b> | <b>5.91 (150)</b> |
| <b>H</b> | 8.07 (205)        | 9.25 (235)        | 11.22 (285)       | 13.19 (335)       | 15.16 (385)       |
| <b>D</b> | 4.77 (121)        | 5.35 (136)        | 6.34 (161)        | 7.32 (186)        | 8.31 (211)        |
| <b>K</b> | 9.41 (239)        | 9.29 (236)        | 12.40 (315)       | 15.47 (393)       | 18.58 (472)       |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.

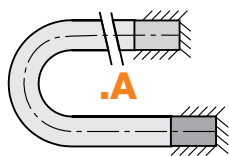


### KMA pivoting |

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | $Bi$ in. (mm) |
|-------------|--------------------------------|------------|------------|---------------|
| 030.        | ► C6.380.030.12                | 1.65 (42)  | 2.13 (54)  | 1.18 (30)     |
| 040.        | ► C6.380.040.12                | 2.05 (52)  | 2.52 (64)  | 1.57 (40)     |
| 050.        | ► C6.380.050.12                | 2.44 (62)  | 2.91 (74)  | 1.97 (50)     |
| 060.        | ► C6.380.060.12                | 2.83 (72)  | 3.31 (84)  | 2.36 (60)     |
| 070.        | ► C6.380.070.12                | 3.23 (82)  | 3.70 (94)  | 2.76 (70)     |

(KMA = polymer metal mounting bracket)

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | $Bi$ in. (mm) |
|-------------|--------------------------------|------------|------------|---------------|
| 080.        | ► C6.380.080.12                | 3.62 (92)  | 4.09 (104) | 3.15 (80)     |
| 100.        | ► C6.380.100.12                | 4.41 (112) | 4.88 (124) | 3.94 (100)    |
| 120.        | ► C6.380.120.12                | 5.20 (132) | 5.67 (144) | 4.72 (120)    |
| 140.        | ► C6.380.140.12                | 5.98 (152) | 6.46 (164) | 5.51 (140)    |



The bracket orientations are set automatically when using an igus® KMA mounting bracket with attachment from any side. To receive a KMA mounting bracket pre-fitted please add index **.A**.

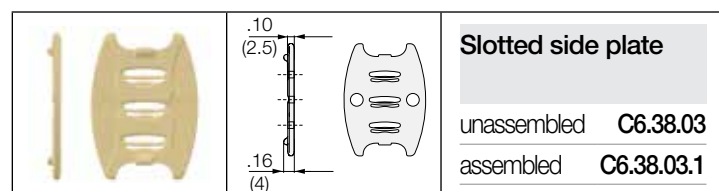
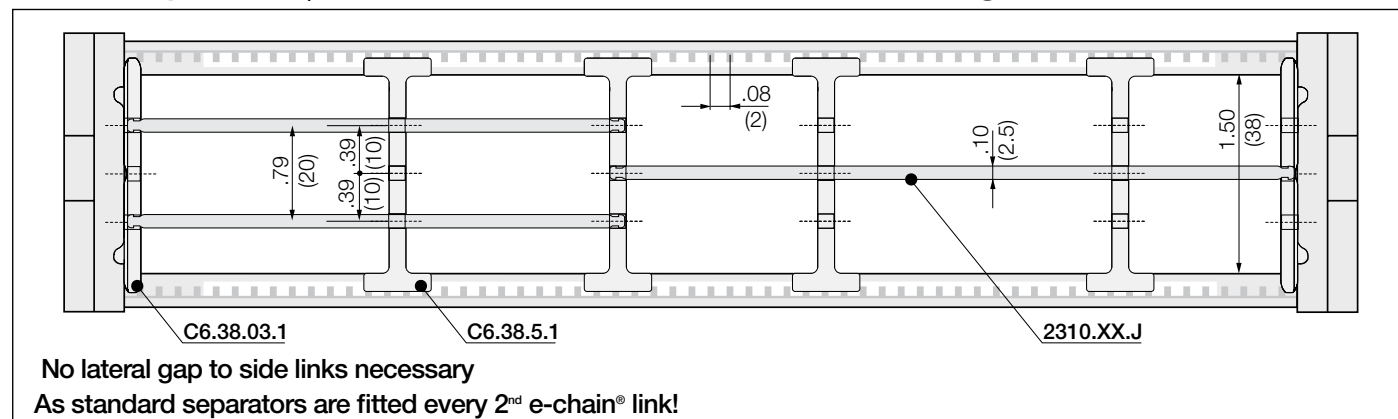
### C6.380.100.12.A Order example



Available from stock

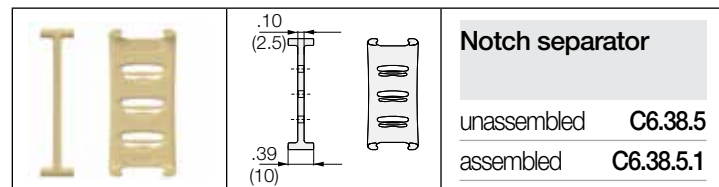
On request

## Interior separation | For minimum cable abrasion, made from iglide® J



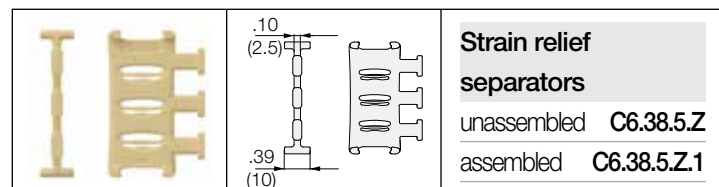
### Slotted side plate

Side plate made from iglide® J for minimum cable abrasion. Allows modular shelving right up to the side links. No clearance required.



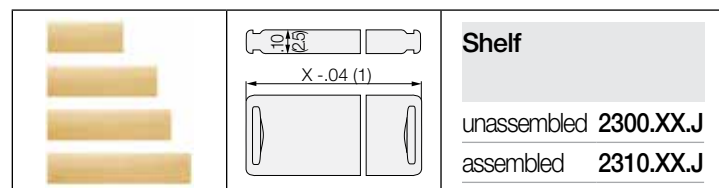
### Locks securely in preset increments

iglide® J notch separator for exact positioning.



### Strain relief separators

Separator with integrated strain relief teeth made from iglide® J. For assembly either at the first or last e-chain® link. For restricted space conditions.



### Horizontal separation made from iglide® J

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or modular shelving.

### Shelves

Width = X in. (mm)

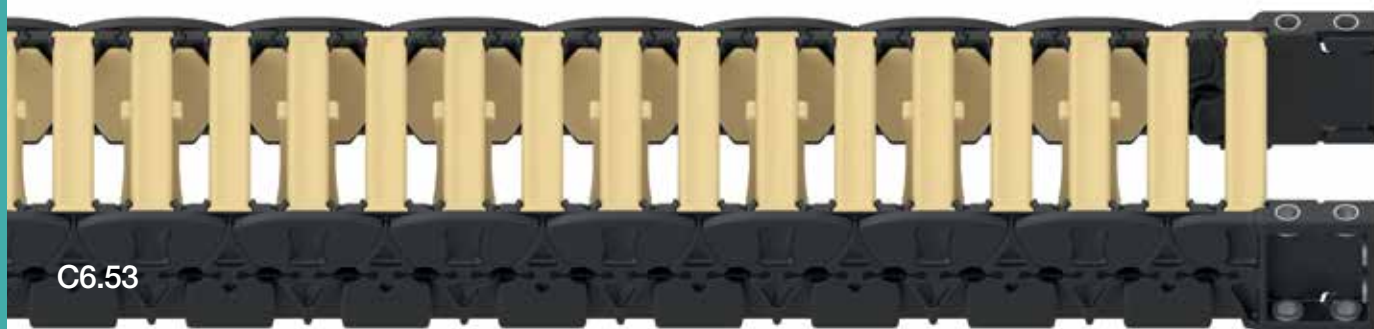
| X in. (mm) | unassembled | assembled  | X in. (mm) | unassembled | assembled  | X in. (mm) | unassembled | assembled  |
|------------|-------------|------------|------------|-------------|------------|------------|-------------|------------|
| .98 (025)  | 2300.025.J  | 2310.025.J | 2.36 (060) | 2300.060.J  | 2310.060.J | 47.2 (120) | 2300.120.J  | 2310.120.J |
| 1.18 (030) | 2300.030.J  | 2310.030.J | 2.76 (070) | 2300.070.J  | 2310.070.J | 4.92 (125) | 2300.125.J  | 2310.125.J |
| 1.57 (040) | 2300.040.J  | 2310.040.J | 3.15 (080) | 2300.080.J  | 2310.080.J | 5.51 (140) | 2300.140.J  | 2310.140.J |
| 1.97 (050) | 2300.050.J  | 2310.050.J | 3.94 (100) | 2300.100.J  | 2310.100.J |            |             |            |

More widths available upon request, please consult igus® for delivery time.



Available from stock

On request



## e-chains® | Series C6.53 | Crossbars removable along the inner and outer radius

| Part No.                | <i>Bi</i>   | <i>Ba</i>    | C6.29            |
|-------------------------|-------------|--------------|------------------|
| e-chains®               | in. (mm)    | in. (mm)     | lbs/ft<br>(kg/m) |
| C6.53.050. <i>R</i> .17 | 1.97 (50)   | 2.91 (74)    | ≈ 1.03 (1.53)    |
| C6.53.062. <i>R</i> .17 | 2.46 (62.5) | 3.41 (86.5)  | ≈ 1.07 (1.59)    |
| C6.53.075. <i>R</i> .17 | 2.95 (75)   | 3.90 (99)    | ≈ 1.12 (1.67)    |
| C6.53.087. <i>R</i> .17 | 3.44 (87.5) | 4.39 (111.5) | ≈ 1.16 (1.73)    |

| Part No.                | <i>Bi</i>  | <i>Ba</i>  | C6.29            |
|-------------------------|------------|------------|------------------|
| e-chains®               | in. (mm)   | in. (mm)   | lbs/ft<br>(kg/m) |
| C6.53.100. <i>R</i> .17 | 3.94 (100) | 4.88 (124) | ≈ 1.21 (1.80)    |
| C6.53.125. <i>R</i> .17 | 4.92 (125) | 5.87 (149) | ≈ 1.29 (1.92)    |
| C6.53.175. <i>R</i> .17 | 6.89 (175) | 7.83 (199) | ≈ 1.46 (2.18)    |

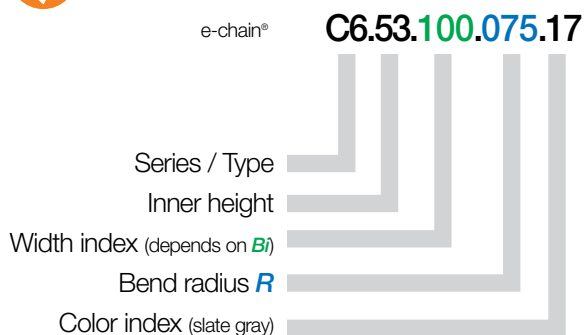
Complete Part No. with required radius (*R*). Example: C6.53.100.100.17 = crossbars every link

### Available bend radii

*R* in. (mm) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) | 5.91 (175) | 5.91 (200) |

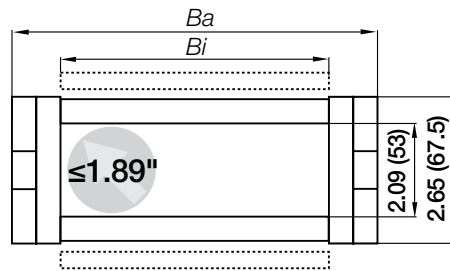
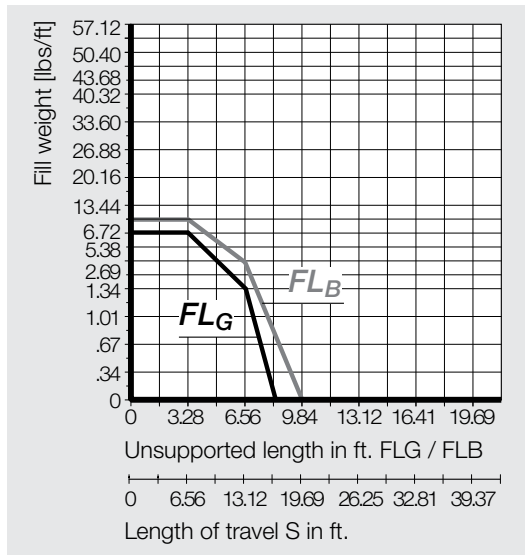


### Order key

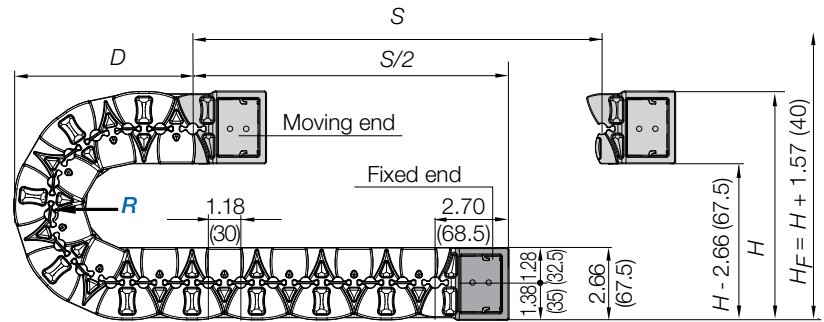


Available from stock  
On request

## Unsupported applications | Short travels

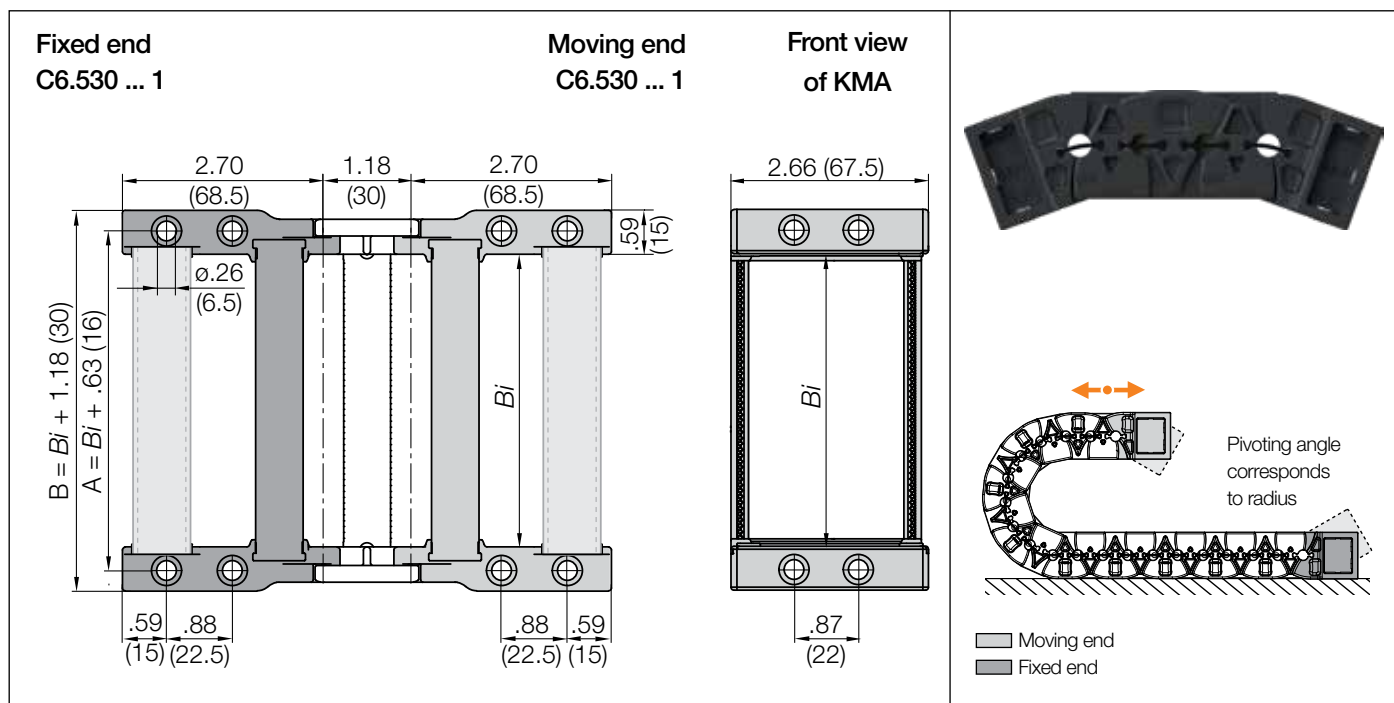


|                         |                         |
|-------------------------|-------------------------|
| Inner height in. (mm)   | 2.09 (53)               |
| Pitch per link in. (mm) | 1.18 (30)               |
| Links/ft (m)            | 10.17 (34)              |
| corresponds to (mm)     | 1,020                   |
| e-chain® length         | $L_K = \frac{S}{2} + K$ |



| R | 2.95 (075)  | 3.94 (100)  | 4.92 (125)  | 5.91 (150)  | 6.89 (175)  | 7.87 (200)  |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| H | 10.63 (270) | 12.60 (320) | 14.57 (370) | 16.54 (420) | 18.50 (470) | 20.47 (520) |
| D | 6.10 (155)  | 7.09 (180)  | 8.07 (205)  | 9.06 (230)  | 10.04 (255) | 11.02 (280) |
| K | 11.65 (296) | 14.76 (375) | 17.83 (453) | 20.94 (532) | 24.01 (610) | 27.13 (689) |

The required clearance height:  $H_F = H + 1.57$  in. (40 mm) with 1.34 lbs/ft (2.0 kg/m) fill weight.

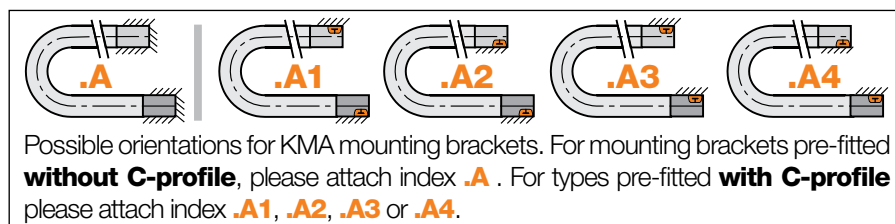


## KMA pivoting |

| Width index | Part No. full set KMA pivoting | A in. (mm)   | B in. (mm)   | <i>Bi</i> in. (mm) |
|-------------|--------------------------------|--------------|--------------|--------------------|
| 050.        | ▶ C6.530.050.12.C              | 2.60 (66)    | 3.15 (80)    | 1.97 (50)          |
| 062.        | ▶ C6.530.062.12.C              | 3.09 (78.5)  | 3.64 (92.5)  | 2.46 (62.5)        |
| 075.        | ▶ C6.530.075.12.C              | 3.58 (91)    | 4.13 (105)   | 2.95 (75)          |
| 087.        | ▶ C6.530.087.12.C              | 4.07 (103.5) | 4.63 (117.5) | 3.44 (87.5)        |

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C

| Width index | Part No. full set KMA pivoting | A in. (mm) | B in. (mm) | <i>Bi</i> in. (mm) |
|-------------|--------------------------------|------------|------------|--------------------|
| 100.        | ▶ C6.530.100.12.C              | 4.57 (116) | 5.12 (130) | 3.94 (100)         |
| 125.        | ▶ C6.530.125.12.C              | 5.55 (141) | 6.10 (155) | 4.92 (125)         |
| 175.        | ▶ C6.530.175.12.C              | 7.52 (191) | 8.07 (205) | 6.89 (175)         |



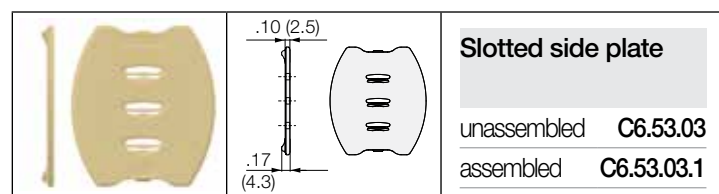
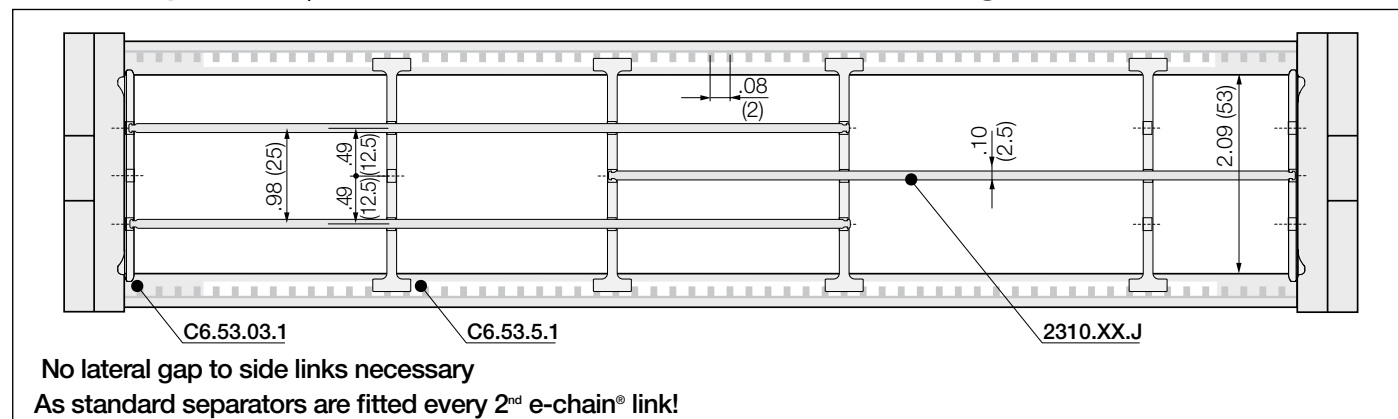
## C6.530.100.12.C.A Order example



Available from stock

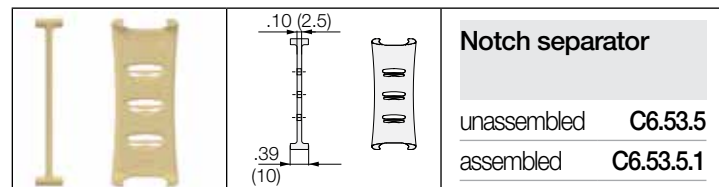
On request

## Interior separation | For minimum cable abrasion, made from iglide® J



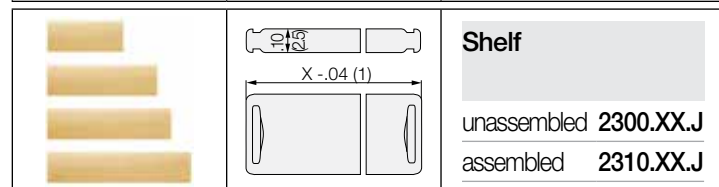
## Slotted side plate

Side plate made from iglide® J for minimum cable abrasion. Allows modular shelving right up to the side links. No clearance required.



## Locks securely in preset increments

iglide® J notch separator for exact positioning.



## Horizontal separation made from iglide® J

Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or modular shelving.

## Shelves

Width = X in. (mm)

| X in. (mm) | unassembled | assembled  | X in. (mm) | unassembled | assembled  | X in. (mm) | unassembled | assembled  |
|------------|-------------|------------|------------|-------------|------------|------------|-------------|------------|
| .98 (025)  | 2300.025.J  | 2310.025.J | 2.36 (060) | 2300.060.J  | 2310.060.J | 47.2 (120) | 2300.120.J  | 2310.120.J |
| 1.18 (030) | 2300.030.J  | 2310.030.J | 2.76 (070) | 2300.070.J  | 2310.070.J | 4.92 (125) | 2300.125.J  | 2310.125.J |
| 1.57 (040) | 2300.040.J  | 2310.040.J | 3.15 (080) | 2300.080.J  | 2310.080.J | 5.51 (140) | 2300.140.J  | 2310.140.J |
| 1.97 (050) | 2300.050.J  | 2310.050.J | 3.94 (100) | 2300.100.J  | 2310.100.J |            |             |            |

More widths available upon request, please consult igus® for delivery time.



Available from stock

On request