





E6.1

clean-room

Dynamic, quiet, light and cleanroom suitable



Advantages of the E6.1 system:

- Extremely quiet, low-vibration e-chain®
- For very high speeds and accelerations
- Ideal ratio of internal and external dimensions with thinner outer links and optimized crossbar geometry
- High push/pull forces
- Small bend radii
- Low noise 32dB(A)¹⁾ - extremely low noise and vibration
- Suitable for cleanrooms according to IPA cleanroom Class 1²⁾

1) Extremely low-noise - tested at the igus® lab Series E61.29.070.055.0

2) Cleanroom - E61.29.50.075.0 series



When to use another e-chain® series:

- For side-mounted applications
 - ▶ E6, page 886
 - ▶ E2/000, page 382
- When a Reverse Bend Radius **RBR** is required
 - ▶ E2/000, page 382
- For longer unsupported lengths
 - ▶ E2/000, page 382
- For long travels
 - ▶ E2/000, page 382
- When an enclosed e-chain® for smooth running is required
 - ▶ R6, page 886
 - ▶ e-skin® corrugated tube SK / SKS / SKY, page 838

E6.1 | Introduction | Advantages

Dynamic, quiet, light and cleanroom suitable - E6.1

Attachment from any side
with KMA mounting
brackets

Fast assembly:
crossbars removable
along the inner and
outer radius

**Low noise from
32dB(A)¹⁾:**
small pitch for low
noise, smooth running

Dynamic:
high speeds and
accelerations

Long service life:
low vibration,
high strength

IPA cleanroom Class 1²⁾:
virtually no wear
or abrasion

Modular design:
can be easily lengthened
and shortened



**Series E61.29
special feature:**
crossbar openable
along inner and outer
radius, from both sides

The E6.1 series is a development of the E6 series. It incorporates all the advantages of the E6 such as strength, cleanroom-compatibility and low weight in addition to even quieter operation at higher maximum speeds. In addition, its accessibility to the interior and the assembly and handling have been improved.

- Quiet - from a noise level of 32dB(A)¹⁾
- Weight savings approx. 30% compared to the E6 system
- Highly dynamic
- Extremely low vibration
- Cleanroom-compatible due to principle of low-abrasion for connectors, without pin and bore connection
- Virtually no polygon effect, smooth rolling operation
- Smooth interior design for a long lifetime for cables and hoses
- Crossbars removable along the inner and outer radius
- Option without camber (NC) simply by turning the inner link

1) Extremely low-noise - tested at the igus® lab Series E61.29.070.055.0

2) Cleanroom - E61.29.50.075.0 series

Typical industries and applications

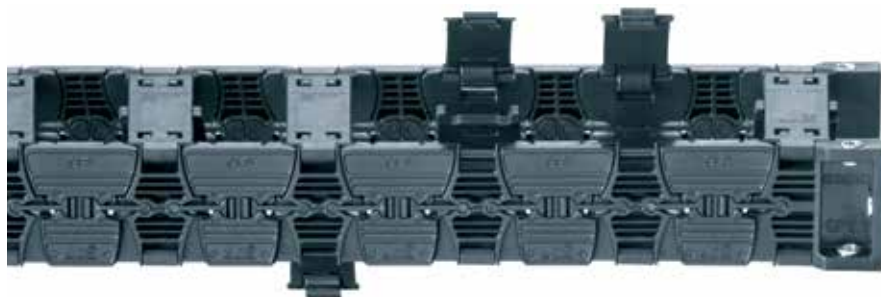
- Semiconductor industry
- Studio equipment and camera tracking systems
- Printer/plotter industry
- In applications with extremely high accelerations
- When noise reduction and a low level of abrasion are important



32dB(A)¹⁾ - level determined at the igus® test-lab, $v = 197 \text{ fpm (1.0m/s)}$ unsupported, series E61.29.070.055.0

E6.1 | Selection table

Series	Inner height h_i		Inner width B_i		Outer width B_a		Outer height h_a		Bend radius R		Unsupported length	
	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	≤ ft.	≤ (m)



E6.1 e-chains®
openable along inner and
outer radius, from both sides

E61.29	1.14	(29)	1.18-5.51	(30-140)	1.73-6.06	(44-154)	1.38	(35)	2.17-5.91	(055-150)	5.74	(1.75)
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E6.1 e-chains®
crossbars removable along
the inner and outer radius

EF61.29	1.14	(29)	1.18-5.51	(30-140)	1.73-6.06	(44-154)	1.38	(35)	2.17-5.91	(055-150)	5.74	(1.75)
E61.35	1.38	(35)	1.18-5.51	(30-140)	1.81-6.14	(46-156)	1.65	(42)	2.17-5.91	(055-150)	6.23	(1.90)
E61.40	1.57	(40)	1.57-11.81	(40-300)	2.20-12.44	(56-316)	2.13	(54)	2.48-7.87	(063-200)	8.20	(2.50)
E61.52	2.05	(52)	1.57-11.81	(40-300)	2.52-12.76	(64-324)	2.56	(65)	2.95-5.91	(075-150)	9.84	(3.00)
E61.62	2.44	(62)	1.97-15.75	(50-400)	3.22-17.01	(82-432)	3.31	(84)	4.53	(115)	13.12	(4.00)
E61.80	3.15	(80)	1.97-23.62	(50-600)	3.94-25.59	(100-650)	4.25	(108)	5.91	(150)	17.23	(5.25)



Available from stock. Orders ship as early as today.*

*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

Next e-chain® generation for highest cleanroom suitability ISO cleanroom Class 1; C6

- Optimized design without any measurable abrasion
 - Parts that contact the cables are made of tribo-optimized igulene CR1
- Samples available upon request ► Please consult igus®.



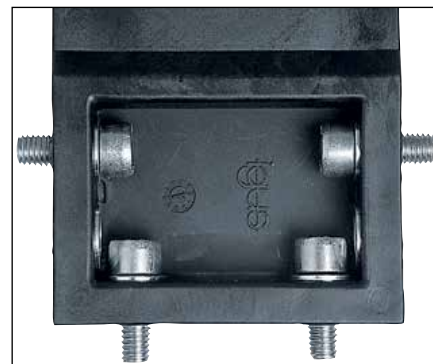
E6.1 | Features | Accessories



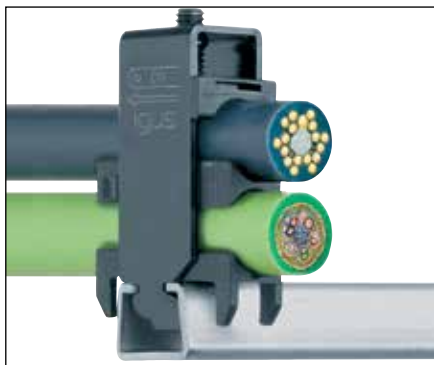
Lean separators enable extremely fast cable filling in several layers



Series E61.29 with openable mechanism, openable on left or right



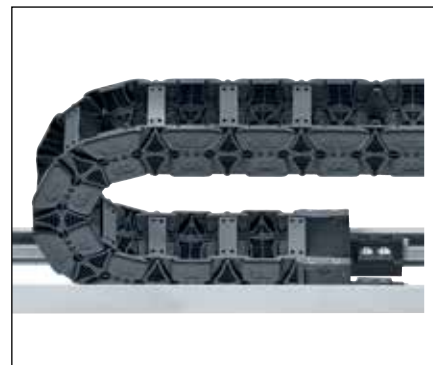
KMA mounting brackets with attachment options from any side



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



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



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



The interior of the E6.1 has been designed to be extremely cable-friendly to increase the service life of cables and hoses even more. The crossbars are very smooth and rounded as is the transition from e-chain® link to crossbar, and all markings have been moved outside of the e-chain® cross section.

E6.1 | Further advantages

Cleanroom qualification of igus® system E6.1 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.



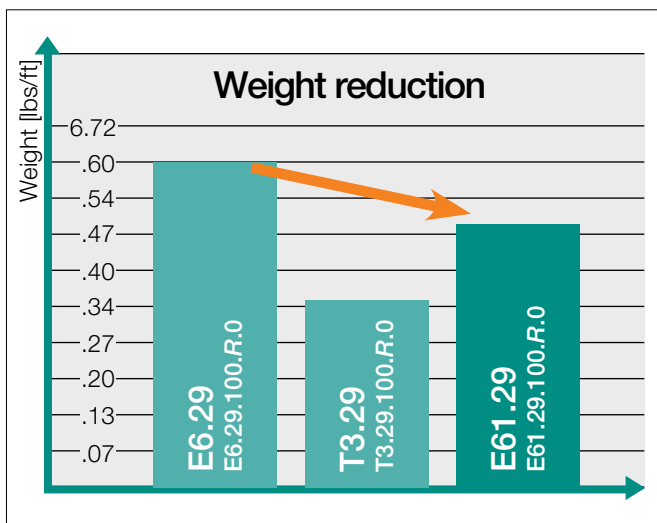
IPA Qualification Certificate²⁾ - Report IG 1303-640-1:

ISO Class 1, according to DIN EN ISO 14644-1 for system E6.1, series E61.29.50.075.0 at $v = 98.4$ fpm (0.5m/s), 197 fpm (1m/s), 394 fpm (2m/s)

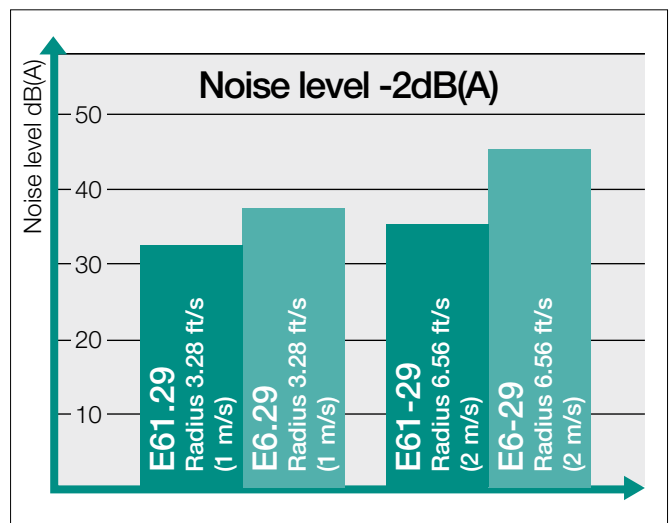


Further information about igus® cleanroom e-chains® and the new, unique igus® cleanroom laboratory for IPA cleanroom Class 1 components ► From page 146

System E6.1 internal tests in the igus® lab



The E6.1 generation can take up higher accelerations, due to a weight reduction, making it a highly dynamic yet still extremely quiet e-chain®



Series E61.29 tests in the igus® test lab show noise levels, which are 2 dB(A) below the already class-leading noise-levels of the igus® E6.29 series

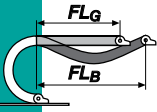
E6.1 | Technical data | Overview

Technical data



Speed gliding¹⁾ / 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

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



e-chain® link material, igumid G, permitted temperature °F,

upon request

Scalable crossbar material, igumid TE, 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 ¹⁾	 Vertical hanging	 Vertical standing	 Side mounted unsupported
EF6.1.29 / E61.29	$\leq 11.48 \text{ ft. (3.5m)}$	upon request	$\leq 82.03 \text{ ft. (25m)}$	$\leq 6.56 \text{ ft. (2.0m)}$	upon request
E61.35	$\leq 12.47 \text{ ft. (3.8m)}$	upon request	$\leq 98.43 \text{ ft. (30m)}$	$\leq 6.56 \text{ ft. (2.0m)}$	upon request
E61.40	$\leq 16.41 \text{ ft. (5.0m)}$	upon request	$\leq 98.43 \text{ ft. (30m)}$	$\leq 6.56 \text{ ft. (2.0m)}$	upon request
E61.52	$\leq 19.69 \text{ ft. (6.0m)}$	upon request	$\leq 164.05 \text{ ft. (50m)}$	$\leq 6.56 \text{ ft. (2.0m)}$	upon request
E61.62	$\leq 26.25 \text{ ft. (8.0m)}$	upon request	$\leq 196.86 \text{ ft. (60m)}$	$\leq 9.84 \text{ ft. (3.0m)}$	upon request
E61.80	$\leq 34.45 \text{ ft. (10.5m)}$	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®.

E6.1 | Options and order keys

Options with order keys | Examples based on series E61.52



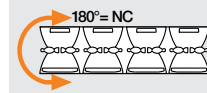
Standard

Simply turn outer side link,
no additional rework

Part No.
Standard



Part No.
NC version



E61.52.100.R.0

E61.52.100.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 E61.52



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 **E61.52.100.075.0**

+ Mounting brackets KMA pivoting - 1 set **E61.520.100.12**

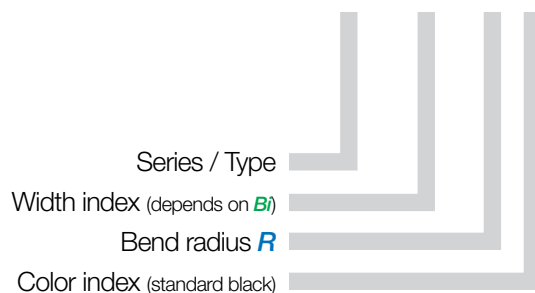
Interior separation with 2 separators assembled every 2nd link **2 x E6.52.1.1**

Order text: 3.28 ft (1m) E61.52.100.075.0 + E61.520.100.12 + 2 x E6.52.1.1



Order key

crossbars removable **E61.52.100.075.0**

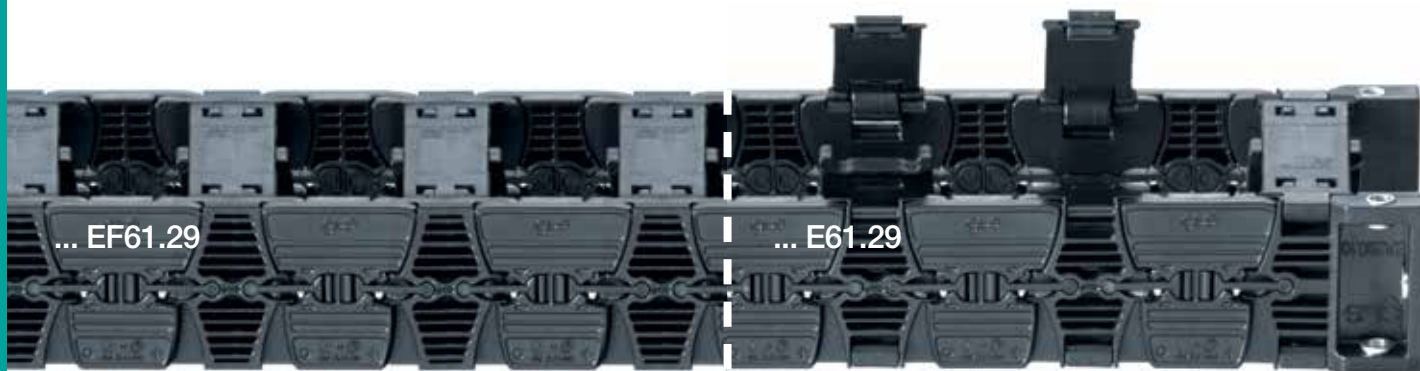


Order index for color options

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 24 - 48hrs.*

Above special colors upon request.



EF61.29 | Crossbars removable along the inner and outer radius
E61.29 | Crossbars openable along the inner and outer radius, from both sides

Part Number removable crossbars	Part Number openable from both sides	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
EF61.29.030. <i>R</i> .0	E61.29.030. <i>R</i> .0	1.18 (30)	1.73 (44)	≈ 0.37 (0.558)
EF61.29.040. <i>R</i> .0	E61.29.040. <i>R</i> .0	1.57 (40)	2.13 (54)	≈ 0.39 (0.583)
EF61.29.050. <i>R</i> .0	E61.29.050. <i>R</i> .0	1.97 (50)	2.52 (64)	≈ 0.41 (0.608)
EF61.29.060. <i>R</i> .0	E61.29.060. <i>R</i> .0	2.36 (60)	2.91 (74)	≈ 0.43 (0.633)
EF61.29.070. <i>R</i> .0	E61.29.070. <i>R</i> .0	2.76 (70)	3.31 (84)	≈ 0.44 (0.657)
EF61.29.080. <i>R</i> .0	E61.29.080. <i>R</i> .0	3.15 (80)	3.70 (94)	≈ 0.46 (0.682)
EF61.29.090. <i>R</i> .0	E61.29.090. <i>R</i> .0	3.54 (90)	4.09 (104)	≈ 0.48 (0.707)
EF61.29.100. <i>R</i> .0	E61.29.100. <i>R</i> .0	3.94 (100)	4.49 (114)	≈ 0.49 (0.732)
EF61.29.110. <i>R</i> .0	E61.29.110. <i>R</i> .0	4.33 (110)	4.88 (124)	≈ 0.51 (0.757)
EF61.29.120. <i>R</i> .0	E61.29.120. <i>R</i> .0	4.72 (120)	5.27 (134)	≈ 0.53 (0.782)
EF61.29.140. <i>R</i> .0	E61.29.140. <i>R</i> .0	5.51 (140)	6.06 (154)	≈ 0.54 (0.807)

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

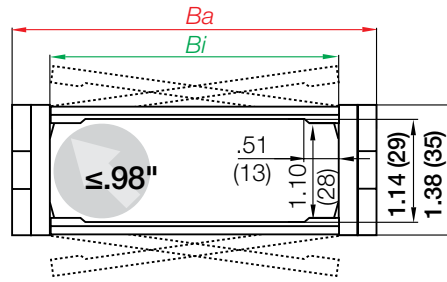
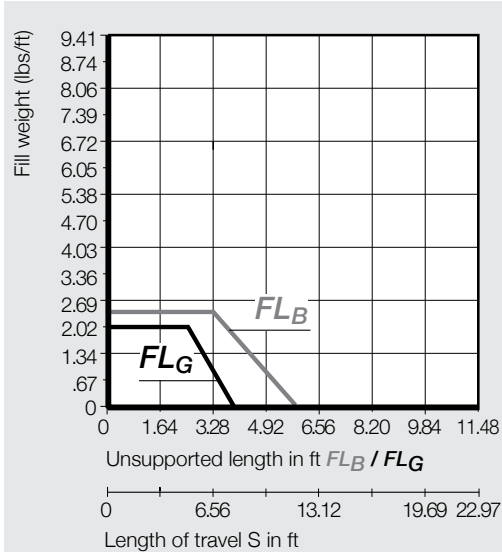
1) Radius not available for e-tubes

Complete Part No. with required radius (*R*). Example: EF61.29.050.100.0 / E61.29.050.100.0

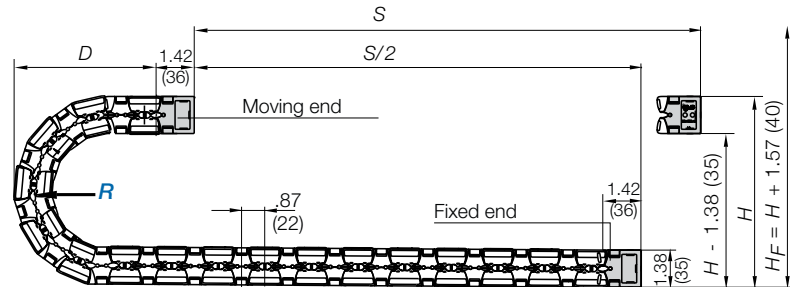
Available bend radii

R in. (mm) | 2.17 (055) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) |

Unsupported applications | Short travels

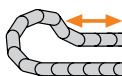


Inner height in. (mm)	1.14 (29)
Pitch per link in. (mm)	.87 (22)
Links/ft (m)	13.79 (46)
corresponds to (mm)	1,012
e-chain® length	$L_K = S/2 + K$



R	2.17 (055)	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)
H	6.89 (175)	8.46 (215)	10.43 (265)	12.40 (315)	14.37 (365)
D	4.15 (105.5)	4.94 (125.5)	5.93 (150.5)	6.91 (175.5)	7.89 (200.5)
K	8.66 (220)	11.02 (280)	14.17 (360)	17.32 (440)	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

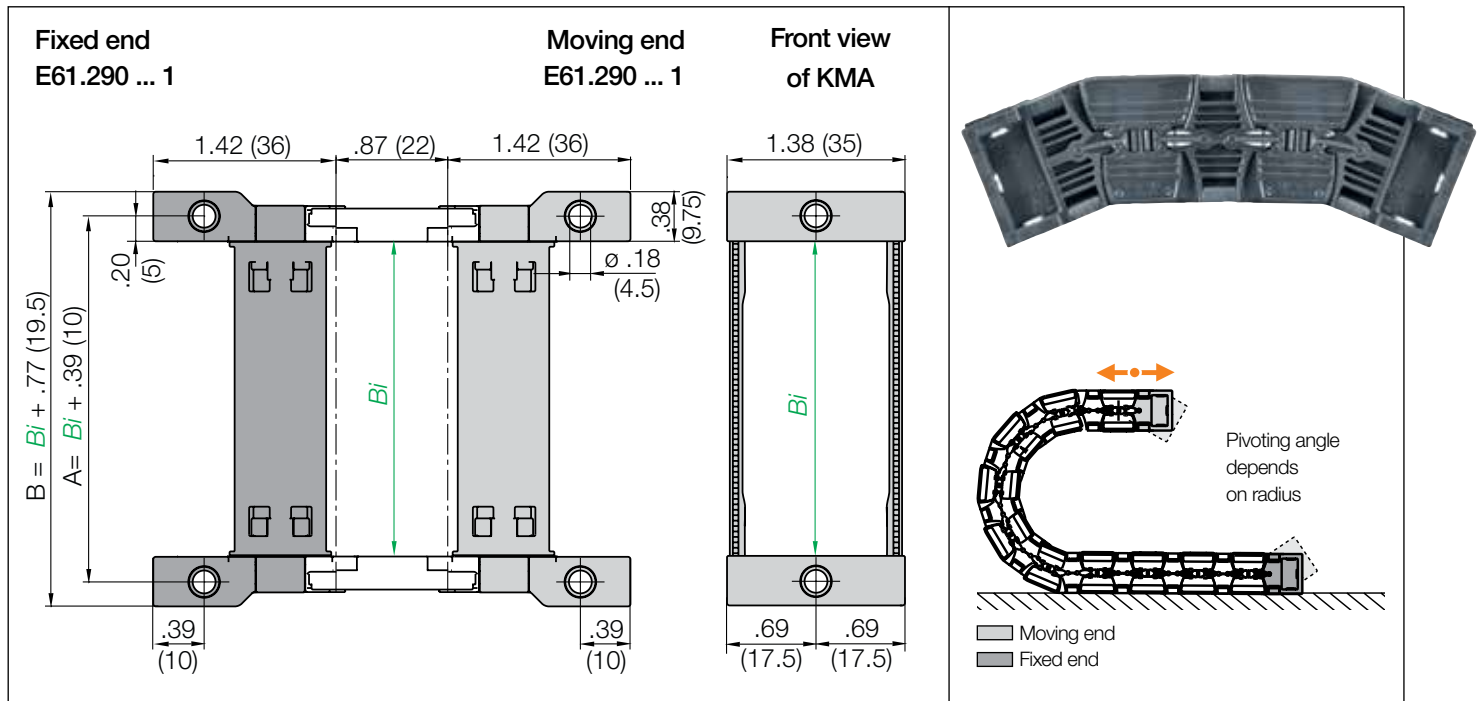


Steel support tray for support of the lower run

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

More information ► From page 1394

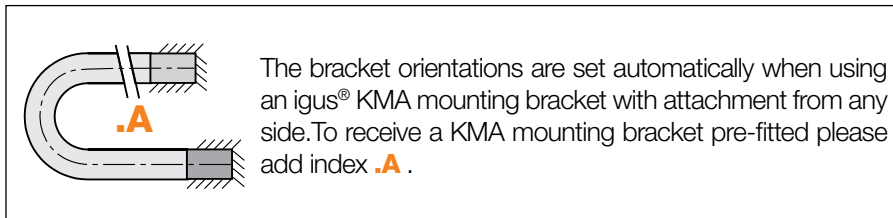




KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	B_i in. (mm)	Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	B_i in. (mm)
030. ▶	E61.290.030.12	1.57 (40)	1.95 (49.5)	1.18 (30)	090. ▶	E61.290.090.12	3.94 (100)	4.31 (109.5)	3.54 (90)
040. ▶	E61.290.040.12	1.97 (50)	2.34 (59.5)	1.57 (40)	100. ▶	E61.290.100.12	4.33 (110)	4.70 (119.5)	3.94 (100)
050. ▶	E61.290.050.12	2.36 (60)	2.74 (69.5)	1.97 (50)	110. ▶	E61.290.110.12	4.72 (120)	5.10 (129.5)	4.33 (110)
060. ▶	E61.290.060.12	2.76 (70)	3.13 (79.5)	2.36 (60)	120. ▶	E61.290.120.12	5.12 (130)	5.49 (139.5)	4.72 (120)
070. ▶	E61.290.070.12	3.15 (80)	3.52 (89.5)	2.76 (70)	140. ▶	E61.290.140.12	5.91 (150)	6.28 (159.5)	5.51 (140)
080. ▶	E61.290.080.12	3.54 (90)	3.92 (99.5)	3.15 (80)					

(KMA = polymer metal mounting bracket) KMA mounting brackets are only available for an odd number of links.

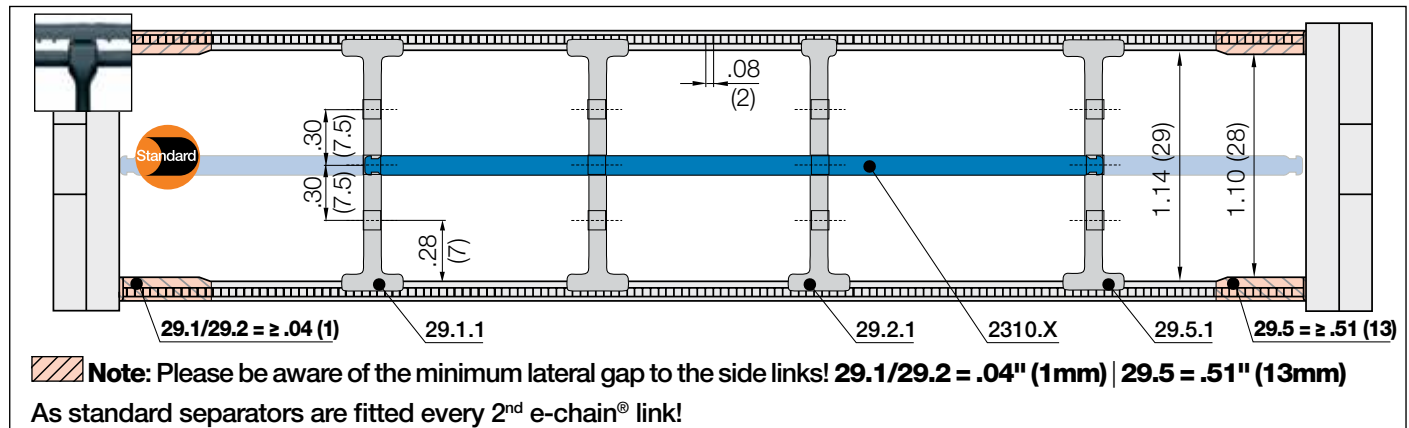


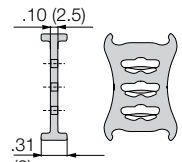
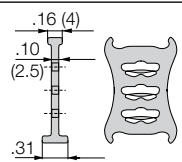
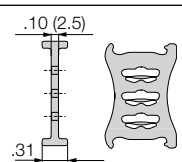
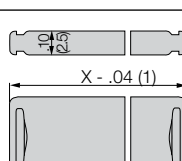
E61.290.050.12.A Order example



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

Interior separation | Increase cable service life



		Standard separator, wide base unassembled 29.1 assembled 29.1.1
		Separator, narrow top unassembled 29.2 assembled 29.2.1
		Notch separator* for notched crossbar unassembled 29.5 assembled 29.5.1
		Shelf, lockable unassembled 2300.X 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	4.72 (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

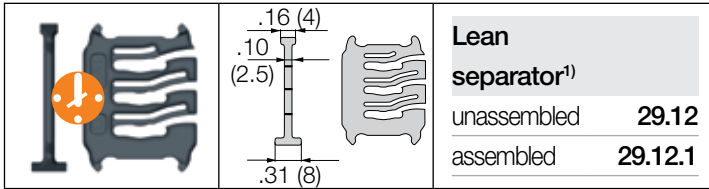
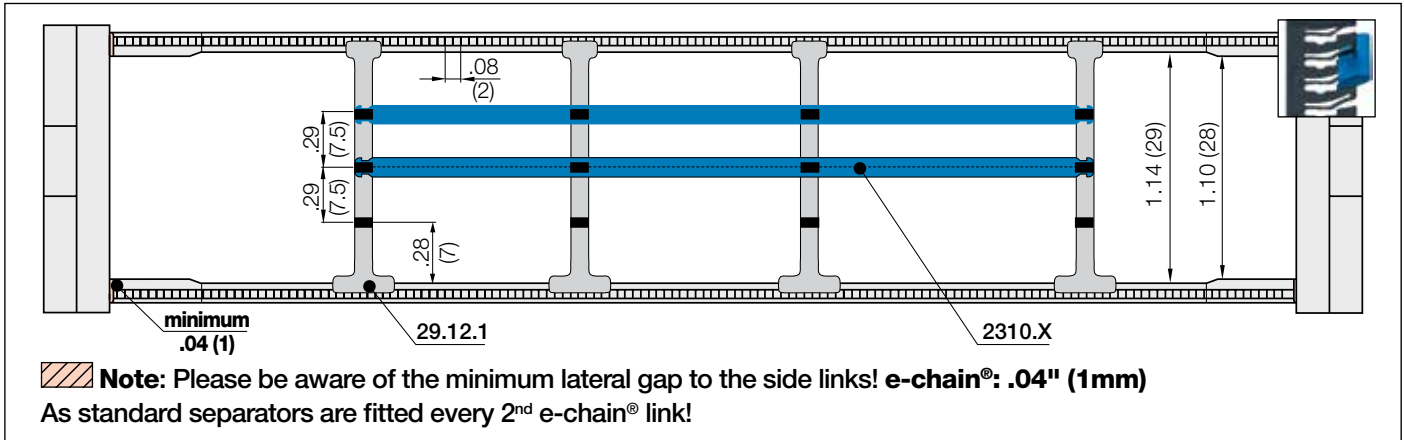
Separator with integrated strain relief teeth

- 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 | To allow faster filling



Lean separators¹⁾

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%²⁾.

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





Cleanroom suitable E6.1 series as a harnessed readychain® system for the semiconductor industry

Dynamic, quiet, light and cleanroom suitable



e-chains® | Series E61.35 | Crossbars removable along the inner and outer radius

Part No. e-chains®	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
E61.35.030. <i>R</i> .0	1.18 (30)	1.81 (46)	≈ 0.439 (0.653)
E61.35.040. <i>R</i> .0	1.57 (40)	2.20 (56)	≈ 0.454 (0.675)
E61.35.050. <i>R</i> .0	1.97 (50)	2.60 (66)	≈ 0.468 (0.696)
E61.35.060. <i>R</i> .0	2.36 (60)	2.99 (76)	≈ 0.482 (0.718)
E61.35.070. <i>R</i> .0	2.76 (70)	3.39 (86)	≈ 0.497 (0.739)
E61.35.080. <i>R</i> .0	3.15 (80)	3.78 (96)	≈ 0.511 (0.761)

Part No. e-chains®	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
E61.35.090. <i>R</i> .0	3.54 (90)	4.17 (106)	≈ 0.526 (0.783)
E61.35.100. <i>R</i> .0	3.94 (100)	4.57 (116)	≈ 0.540 (0.804)
E61.35.110. <i>R</i> .0	4.33 (110)	4.96 (126)	≈ 0.555 (0.826)
E61.35.120. <i>R</i> .0	4.72 (120)	5.35 (136)	≈ 0.570 (0.848)
E61.35.140. <i>R</i> .0	5.51 (140)	6.14 (156)	≈ 0.599 (0.891)

Complete Part No. with required radius (*R*). Example: E61.35.100.100.0

Available bend radii

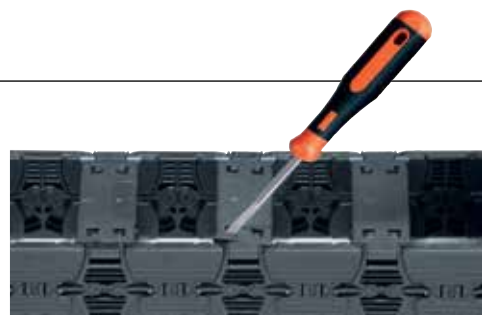
R in. (mm) | 2.17 (055) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) |

Installation note - system E6.1

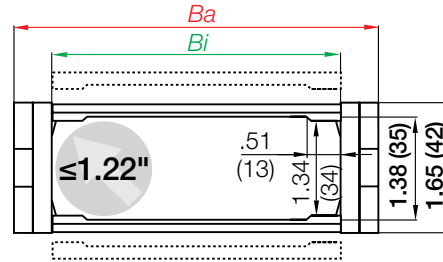
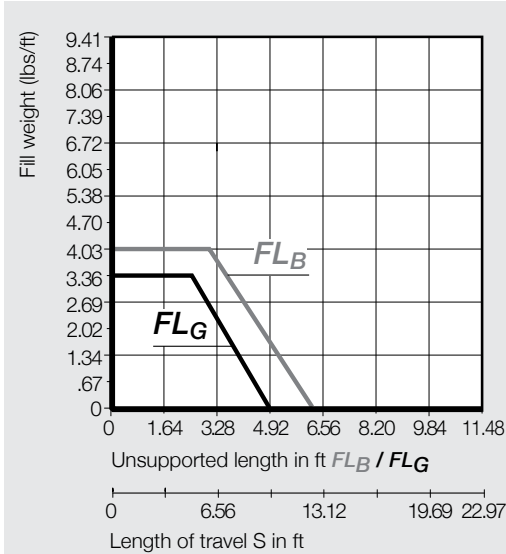
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at

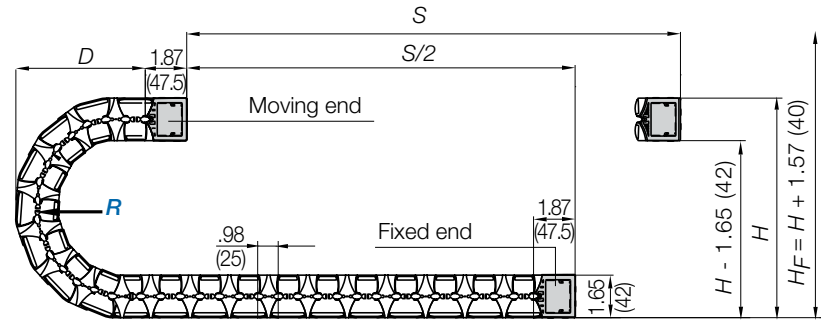
► www.igus.com/E61_assembly



Unsupported applications | Short travels

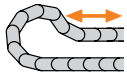


Inner height in. (mm)	1.38 (35)
Pitch per link in. (mm)	.98 (25)
Links/ft (m)	12.24 (40)
corresponds to (mm)	1,000
e-chain® length	$L_K = S/2 + K$



R	2.17 (055)	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)
H	7.56 (192)	9.13 (232)	11.10 (282)	13.10 (332)	15.04 (382)
D	4.47 (113.5)	5.26 (133.5)	6.24 (158.5)	7.22 (183.5)	8.21 (208.5)
K	8.86 (225)	11.42 (290)	14.37 (365)	17.52 (445)	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

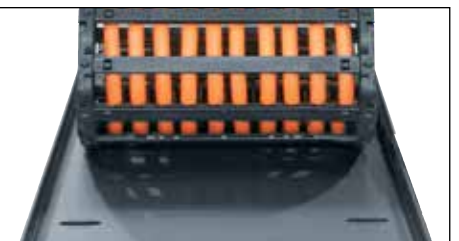
More information ► From page 1400

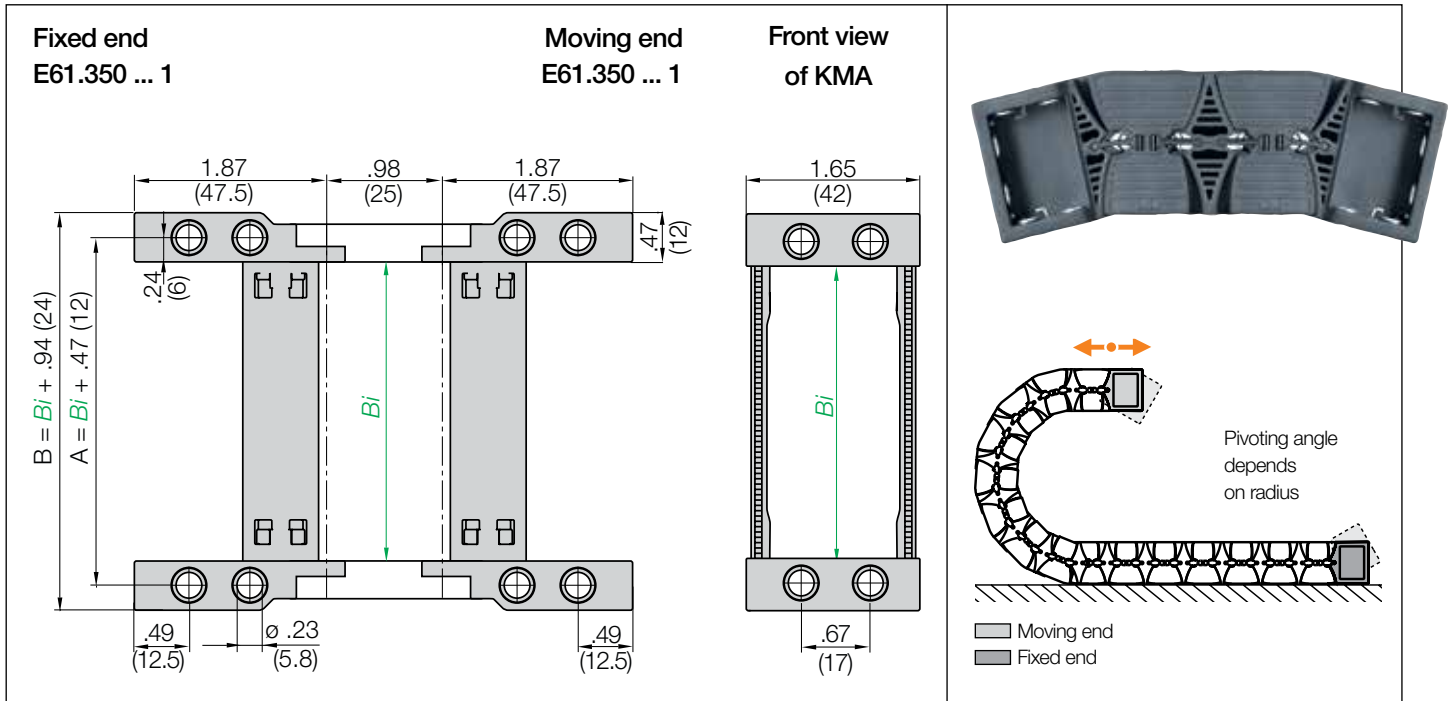


Steel support tray for support of the lower run

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

More information ► From page 1394



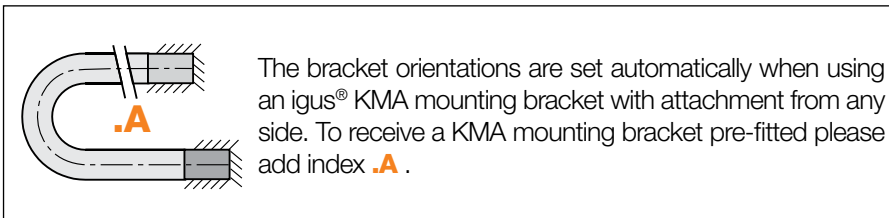


KMA pivoting | Recommended for unsupported applications

Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
030. ▶	E61.350.030.12	1.65 (42)	2.13 (54)	1.18 (30)
040. ▶	E61.350.040.12	2.05 (52)	2.52 (64)	1.57 (40)
050. ▶	E61.350.050.12	2.44 (62)	2.91 (74)	1.97 (50)
060. ▶	E61.350.060.12	2.83 (72)	3.31 (84)	2.36 (60)
070. ▶	E61.350.070.12	3.23 (82)	3.70 (94)	2.76 (70)
080. ▶	E61.350.080.12	3.62 (92)	4.09 (104)	3.15 (80)

Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
090. ▶	E61.350.090.12	4.02 (102)	4.49 (114)	3.54 (90)
100. ▶	E61.350.100.12	4.41 (112)	4.88 (124)	3.94 (100)
110. ▶	E61.350.110.12	4.80 (122)	5.28 (134)	4.33 (110)
120. ▶	E61.350.120.12	5.20 (132)	5.67 (144)	4.72 (120)
140. ▶	E61.350.140.12	5.98 (152)	6.46 (164)	5.51 (140)

(KMA = polymer metal mounting bracket) KMA mounting brackets are only available for an odd number of links.

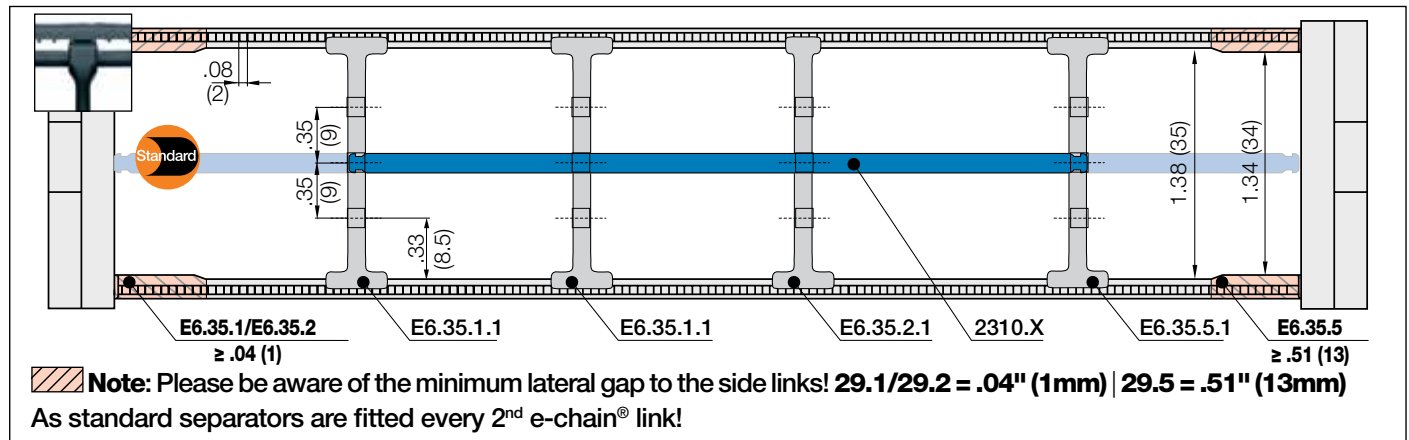


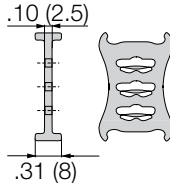
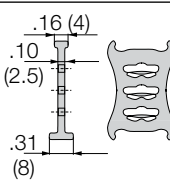
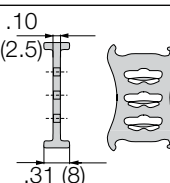
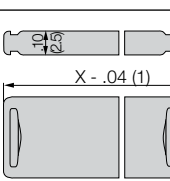
E61.350.100.12.A Order example



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

Interior separation | Increase cable service life



		Standard separator, wide base unassembled E6.35.1 assembled E6.35.1.1
		Separator, narrow top unassembled E6.35.2 assembled E6.35.2.1
		Notch separator* for notched crossbar unassembled E6.35.5 assembled E6.35.5.1
		Shelf, lockable unassembled 2300.X 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

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	4.72 (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. E6.35.02.Z - more information ► From page 1457





e-chains® | Series E61.40 | Crossbars removable along the inner and outer radius

Part No. e-chains®	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
E61.40.040. <i>R</i> .0	1.57 (40)	2.20 (56)	≈ 0.613 (0.913)
E61.40.050. <i>R</i> .0	1.97 (50)	2.60 (66)	≈ 0.638 (0.950)
E61.40.052. <i>R</i> .0	2.05 (52)	2.68 (68)	≈ 0.643 (0.957)
E61.40.062. <i>R</i> .0	2.44 (62)	3.07 (78)	≈ 0.668 (0.994)
E61.40.070. <i>R</i> .0	2.76 (70)	3.39 (86)	≈ 0.687 (1.023)
E61.40.075. <i>R</i> .0	2.95 (75)	3.58 (91)	≈ 0.700 (1.042)
E61.40.087. <i>R</i> .0	3.43 (87)	4.06 (103)	≈ 0.716 (1.066)
E61.40.100. <i>R</i> .0	3.94 (100)	4.57 (116)	≈ 0.762 (1.134)

Part No. e-chains®	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
E61.40.125. <i>R</i> .0	4.92 (125)	5.55 (141)	≈ 0.824 (1.226)
E61.40.150. <i>R</i> .0	5.91 (150)	6.54 (166)	≈ 0.886 (1.318)
E61.40.175. <i>R</i> .0	6.89 (175)	7.52 (191)	≈ 0.947 (1.410)
E61.40.200. <i>R</i> .0	7.87 (200)	8.50 (216)	≈ 1.009 (1.502)
E61.40.225. <i>R</i> .0	8.86 (225)	9.49 (241)	≈ 1.072 (1.595)
E61.40.250. <i>R</i> .0	9.84 (250)	10.47 (266)	≈ 1.134 (1.687)
E61.40.275. <i>R</i> .0	10.83 (275)	11.46 (291)	≈ 1.195 (1.779)
E61.40.300. <i>R</i> .0	11.81 (300)	12.44 (316)	≈ 1.257 (1.871)

Complete Part No. with required radius (*R*). Example: E61.40.100.100.0

Available bend radii

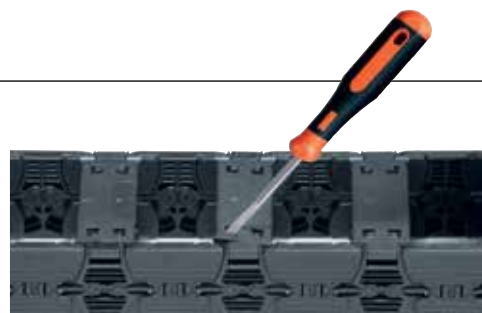
R in. (mm) | 2.48 (063) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) | 7.87 (200) |

Installation note - system E6.1

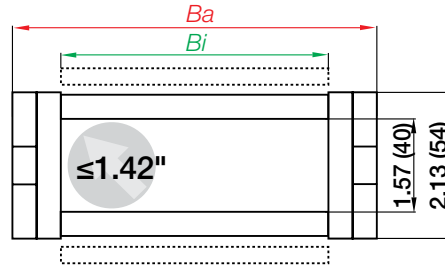
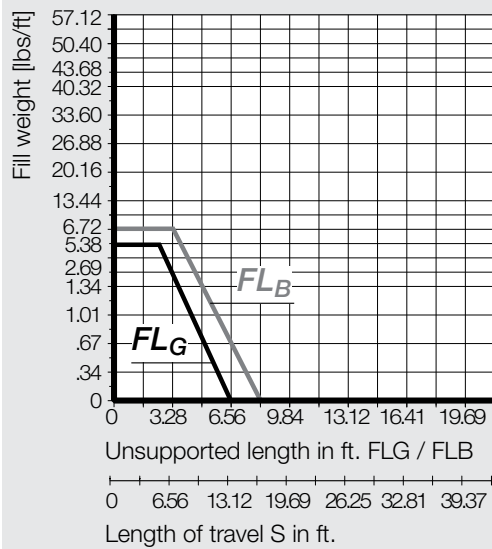
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at

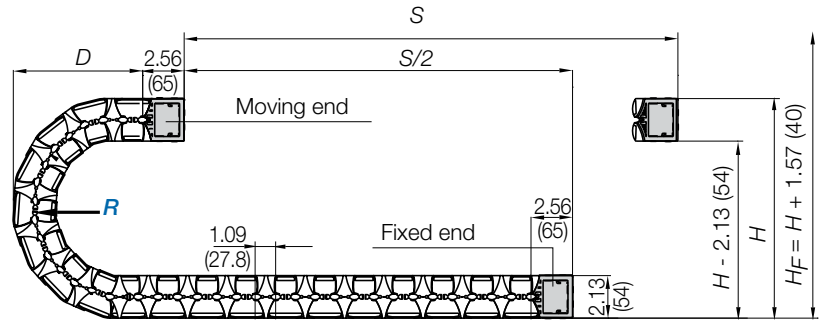
► www.igus.com/E61_assembly



Unsupported applications | Short travels

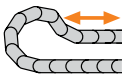


Inner height in. (mm)	1.57 (40)
Pitch per link in. (mm)	1.09 (27.8)
Links/ft (m)	11.01 (36)
corresponds to (mm)	1,001
e-chain® length	$L_K = S/2 + K$



R	2.48 (063)	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	7.87 (200)
H	8.66 (220)	9.61 (244)	11.57 (294)	13.54 (344)	15.51 (394)	19.45 (494)
D	5.20 (132)	5.67 (144)	6.65 (169)	7.64 (194)	8.62 (219)	10.59 (269)
K	10.04 (255)	11.61 (295)	14.57 (370)	17.72 (450)	2.09 (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.



i 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

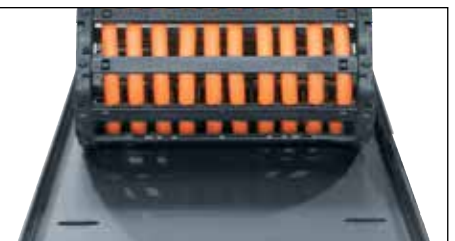
More information ► From page 1400



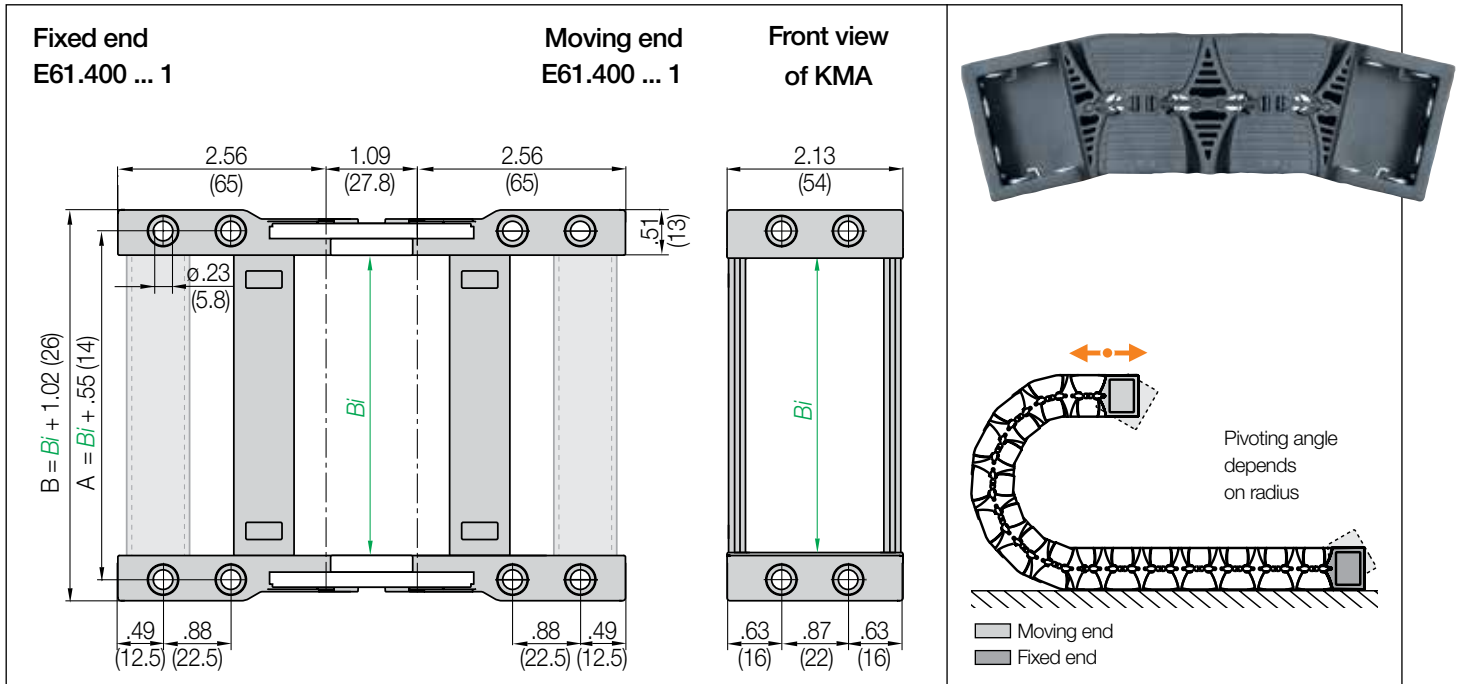
Steel support tray for support of the lower run

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

More information ► From page 1394



KMA mounting brackets | Attachment from any side | Pivoting

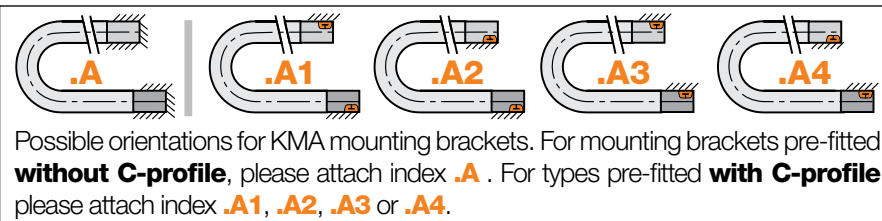


KMA pivoting | Recommended for unsupported applications

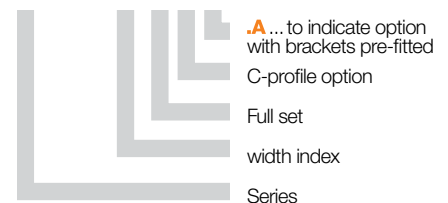
Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
040. ▶	E61.400.040.12.C	2.13 (54)	2.60 (66)	1.57 (40)
050. ▶	E61.400.050.12.C	2.52 (64)	2.99 (76)	1.97 (50)
052. ▶	E61.400.052.12.C	2.66 (66)	3.07 (78)	2.05 (52)
062. ▶	E61.400.062.12.C	2.99 (76)	3.46 (88)	2.44 (62)
070. ▶	E61.400.070.12.C	3.31 (84)	3.78 (96)	2.76 (70)
075. ▶	E61.400.075.12.C	3.50 (89)	3.98 (101)	2.95 (75)
087. ▶	E61.400.087.12.C	3.98 (101)	4.45 (113)	3.42 (87)
100. ▶	E61.400.100.12.C	4.49 (114)	4.96 (126)	3.94 (100)

Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
125. ▶	E61.400.125.12.C	5.47 (139)	5.94 (151)	4.92 (125)
150. ▶	E61.400.150.12.C	6.46 (164)	6.93 (176)	5.91 (150)
175. ▶	E61.400.175.12.C	7.44 (189)	7.91 (201)	6.89 (175)
200. ▶	E61.400.200.12.C	8.43 (214)	8.90 (226)	7.87 (200)
225. ▶	E61.400.225.12.C	9.41 (239)	9.88 (251)	8.86 (225)
250. ▶	E61.400.250.12.C	10.39 (264)	10.87 (276)	9.84 (250)
275. ▶	E61.400.275.12.C	11.38 (289)	11.85 (301)	10.83 (275)
300. ▶	E61.400.300.12.C	12.36 (314)	12.83 (326)	11.81 (300)

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C. KMA mounting brackets are only available for an odd number of links.

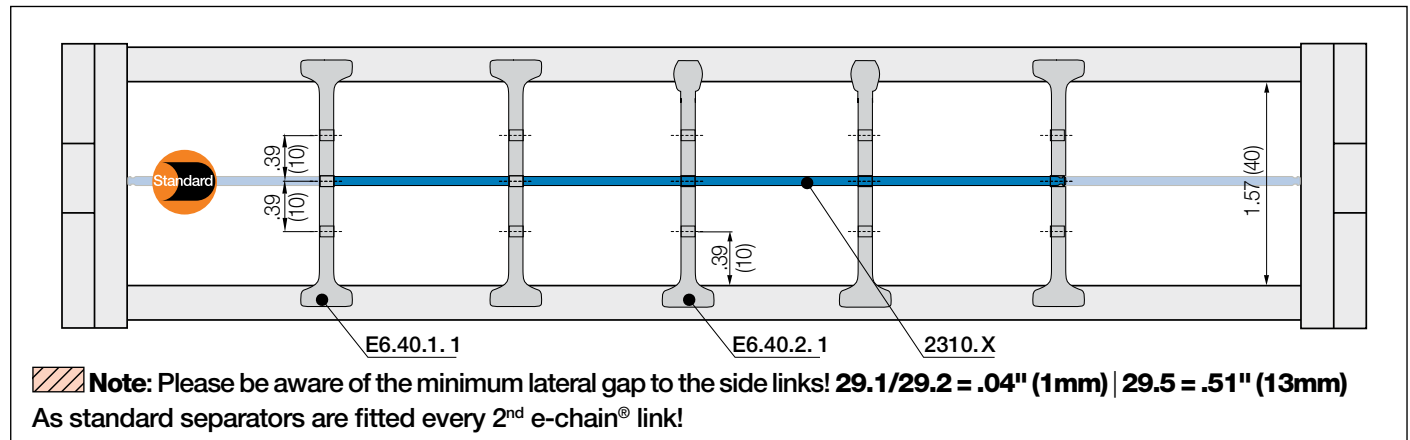


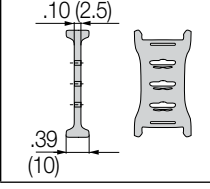
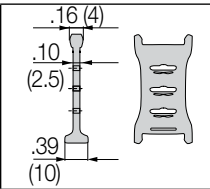
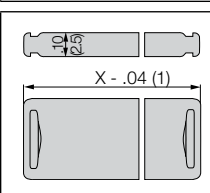
E61.400.100.12.C.A2 Order example



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

Interior separation | Increase cable service life



		Standard separator, wide base unassembled E6.40.1 assembled E6.40.1.1
		Separator, narrow top unassembled E6.40.2 assembled E6.40.2.1
		Shelf, lockable unassembled 2300.X 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.

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	4.72 (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

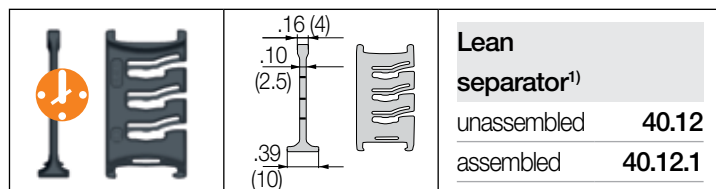
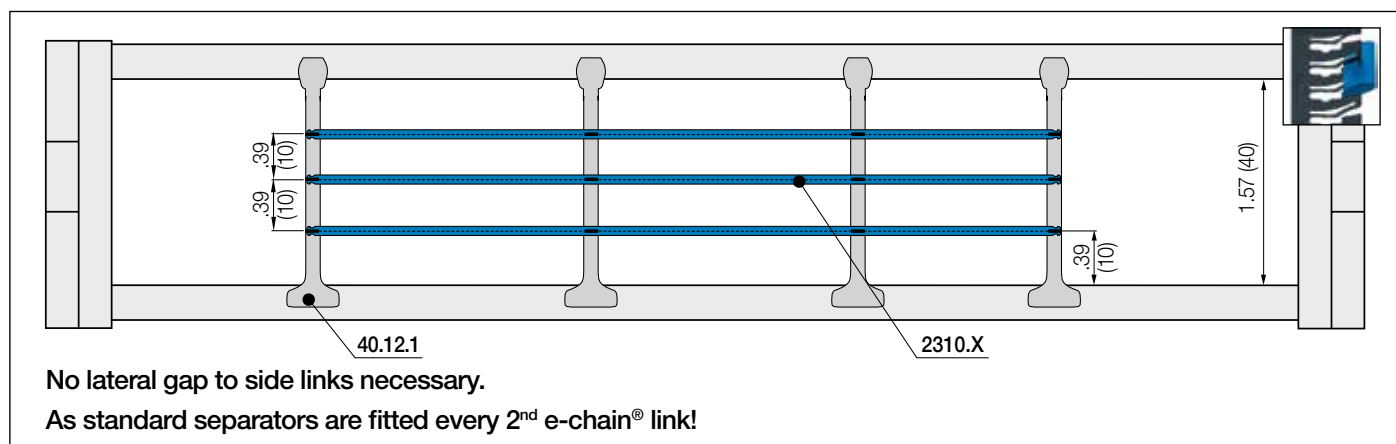
Separator with integrated strain relief teeth

- 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 | To allow faster filling

Lean separators¹⁾

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%²⁾.

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





Very small bend radii are possible with chainflex® CF98 control cable in this E6.1 readychain® system. It offers smooth operation and is suitable for cleanrooms

Dynamic, quiet, light and cleanroom suitable



e-chains® | Series E61.52 | Crossbars removable along the inner and outer radius

Part No. e-chains®	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
E61.52.040. <i>R</i> .0	1.57 (40)	2.52 (64)	≈ 1.128 (1.679)
E61.52.050. <i>R</i> .0	1.97 (50)	2.91 (74)	≈ 1.158 (1.724)
E61.52.052. <i>R</i> .0	2.05 (52)	2.99 (76)	≈ 1.165 (1.733)
E61.52.062. <i>R</i> .0	2.46 (62.5)	3.41 (86.5)	≈ 1.196 (1.780)
E61.52.070. <i>R</i> .0	2.76 (70)	3.70 (94)	≈ 1.219 (1.814)
E61.52.075. <i>R</i> .0	2.95 (75)	3.90 (99)	≈ 1.234 (1.836)
E61.52.087. <i>R</i> .0	3.44 (87.5)	4.39 (111.5)	≈ 1.271 (1.892)
E61.52.100. <i>R</i> .0	3.94 (100)	4.88 (124)	≈ 1.309 (1.948)

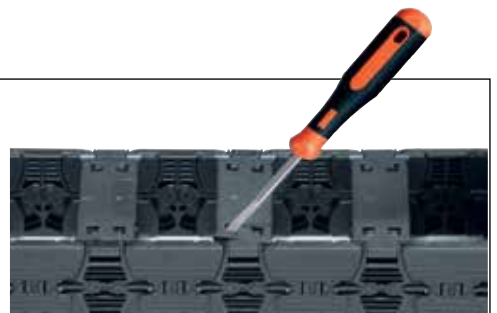
Part No. e-chains®	<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft. (kg/m)
E61.52.125. <i>R</i> .0	4.92 (125)	5.87 (149)	≈ 1.384 (2.060)
E61.52.150. <i>R</i> .0	5.91 (150)	6.85 (174)	≈ 1.460 (2.172)
E61.52.175. <i>R</i> .0	6.89 (175)	7.83 (199)	≈ 1.534 (2.283)
E61.52.200. <i>R</i> .0	7.87 (200)	8.81 (224)	≈ 1.609 (2.395)
E61.52.225. <i>R</i> .0	8.86 (225)	9.80 (249)	≈ 1.685 (2.507)
E61.52.250. <i>R</i> .0	9.84 (250)	10.79 (274)	≈ 1.760 (2.619)
E61.52.275. <i>R</i> .0	10.83 (275)	11.77 (299)	≈ 1.835 (2.731)
E61.52.300. <i>R</i> .0	11.81 (300)	12.76 (324)	≈ 1.910 (2.843)

Complete Part No. with required radius (*R*). Example: E61.52.100.100.0**Available bend radii***R* in. (mm) | 2.95 (075) | 3.94 (100) | 4.92 (125) | 5.91 (150) | 6.89 (175) | 7.87 (200) |**Installation note - system E6.1**

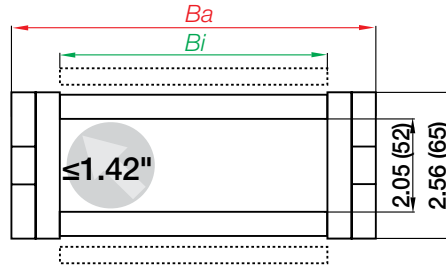
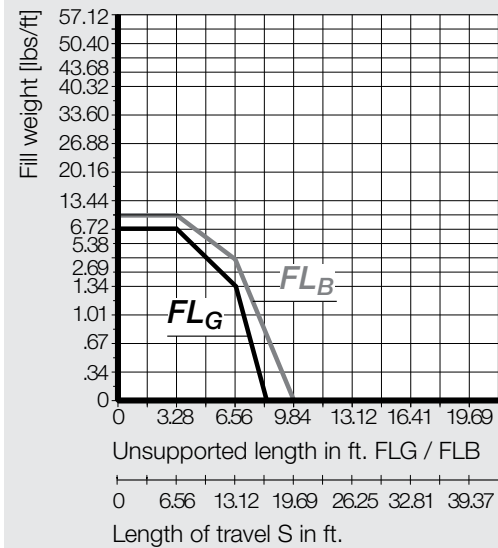
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at

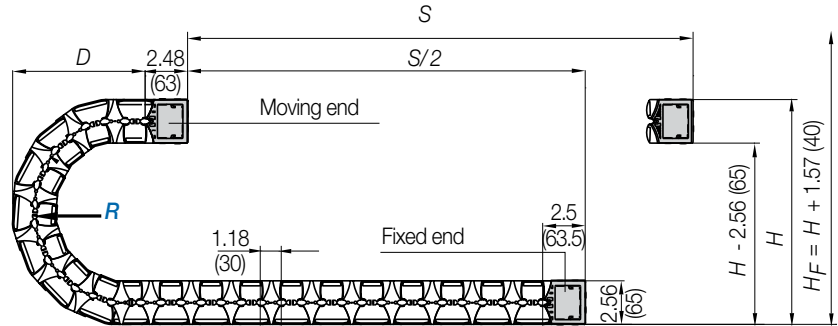
► www.igus.com/E61_assembly



Unsupported applications | Short travels

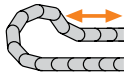


Inner height in. (mm)	2.05 (52)
Pitch per link in. (mm)	1.18 (30)
Links/ft (m)	10 (34)
corresponds to (mm)	1,020
e-chain® length	$L_K = S/2 + K$



R	2.95 (075)	3.94 (100)	4.92 (125)	5.91 (150)	6.89 (175)	7.87 (200)
H	10.43 (265)	12.40 (315)	14.37 (365)	16.34 (415)	18.31 (465)	20.27 (515)
D	6.02 (153)	7.01 (178)	7.99 (203)	8.98 (228)	9.96 (253)	10.94 (278)
K	11.81 (300)	14.76 (375)	17.91 (455)	21.06 (535)	24.02 (610)	27.16 (690)

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

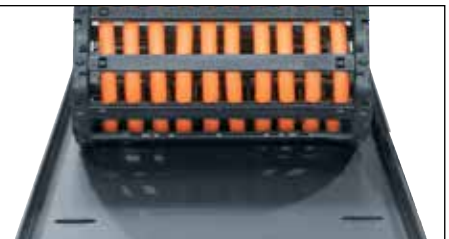


If a gliding application is required for a long travel, please consult igus®.

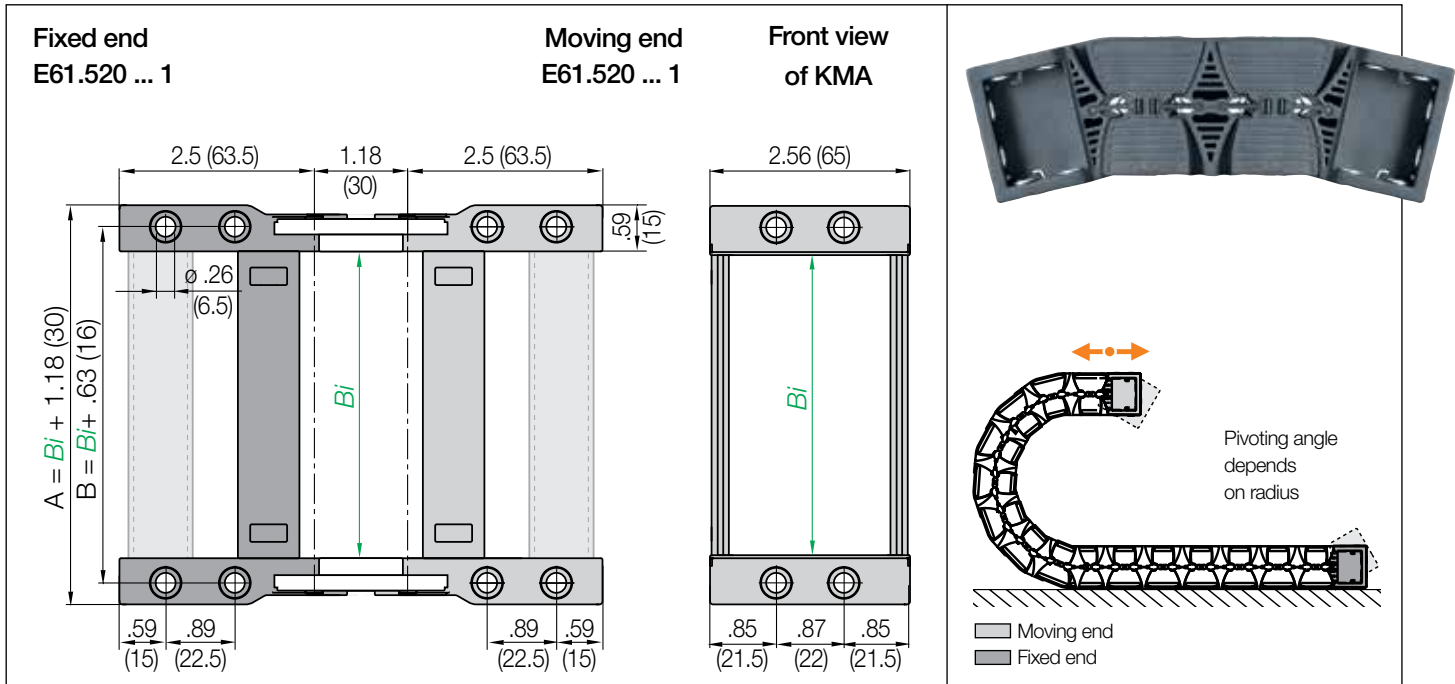
Steel support tray for support of the lower run

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

More information ► From page 1394



KMA mounting brackets | Attachment from any side | Pivoting

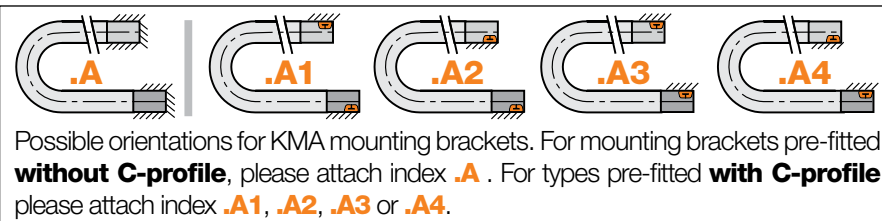


KMA pivoting | Recommended for unsupported applications

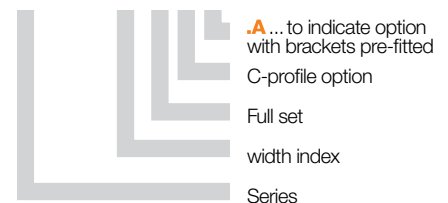
Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
040. ▶	E61.520.040.12.C	2.76 (70)	2.20 (56)	1.57 (40)
050. ▶	E61.520.050.12.C	3.15 (80)	2.60 (66)	1.97 (50)
052. ▶	E61.520.052.12.C	3.23 (82)	2.68 (68)	2.05 (52)
062. ▶	E61.520.062.12.C	3.64 (92.5)	3.09 (78.5)	2.46 (62.5)
070. ▶	E61.520.070.12.C	3.94 (100)	3.39 (86)	2.76 (70)
075. ▶	E61.520.075.12.C	4.13 (105)	3.58 (91)	2.95 (75)
087. ▶	E61.520.087.12.C	4.63 (117.5)	4.07 (103.5)	3.44 (87.5)
100. ▶	E61.520.100.12.C	5.12 (130)	4.57 (116)	3.94 (100)

Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
125. ▶	E61.520.125.12.C	6.10 (155)	5.55 (141)	4.92 (125)
150. ▶	E61.520.150.12.C	7.09 (180)	6.54 (166)	5.91 (150)
175. ▶	E61.520.175.12.C	8.07 (205)	7.52 (191)	6.89 (175)
200. ▶	E61.520.200.12.C	9.06 (230)	8.50 (216)	7.87 (200)
225. ▶	E61.520.225.12.C	10.04 (255)	9.49 (241)	8.86 (225)
250. ▶	E61.520.250.12.C	11.02 (280)	10.47 (266)	9.84 (250)
275. ▶	E61.520.275.12.C	12.01 (305)	11.46 (291)	10.83 (275)
300. ▶	E61.520.300.12.C	12.99 (330)	12.44 (316)	11.81 (300)

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**. KMA mounting brackets are only available for an odd number of links.

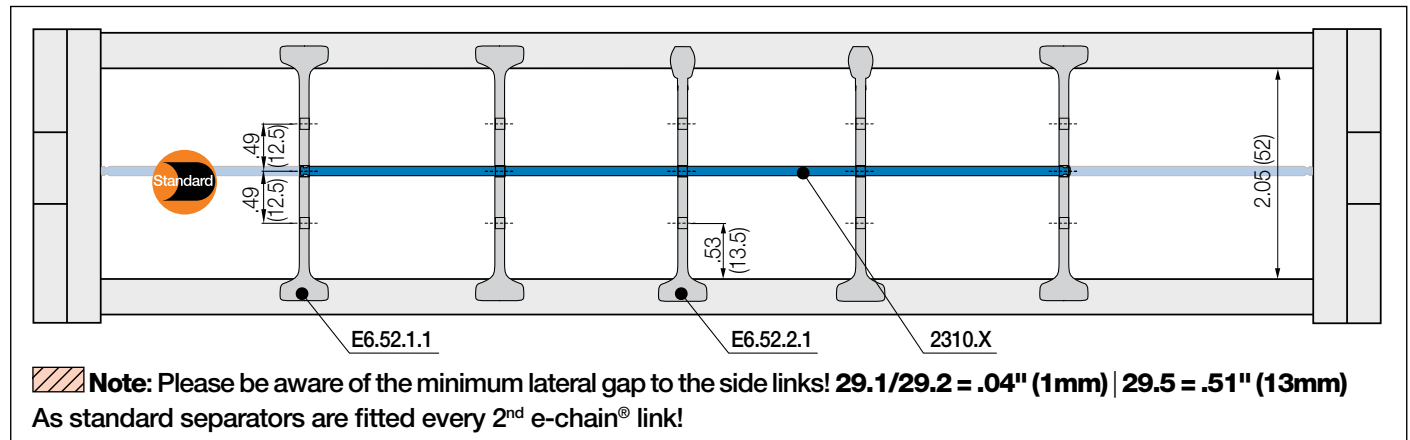


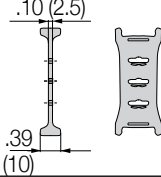
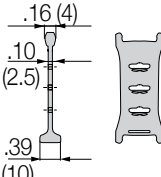
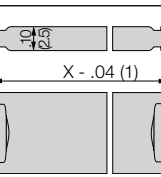
E61.520.100.12.C.A2 Order example



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

Interior separation | Increase cable service life



		Standard separator, wide base unassembled E6.52.1 assembled E6.52.1.1
		Separator, narrow top unassembled E6.52.2 assembled E6.52.2.1
		Shelf, lockable unassembled 2300.X 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.

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	4.72 (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

Dynamic, quiet, light and cleanroom suitable



e-chains® | Series E61.62 | Crossbars removable along the inner and outer radius

Part No. e-chains®	Bi in. (mm)	Ba in. (mm)	Weight lbs/ft. (kg/m)
E61.62.05.R.0	1.97 (50)	3.23 (82)	≈ 1.689 (2.514)
E61.62.06.R.0	2.68 (68)	3.94 (100)	≈ 1.732 (2.577)
E61.62.07.R.0	2.95 (75)	4.21 (107)	≈ 1.748 (2.601)
E61.62.087.R.0	3.43 (87)	4.69 (119)	≈ 1.775 (2.642)
E61.62.097.R.0	3.82 (97)	5.08 (129)	≈ 1.796 (2.673)
E61.62.10.R.0	3.94 (100)	5.20 (132)	≈ 1.806 (2.687)
E61.62.11.R.0	4.25 (108)	5.51 (140)	≈ 1.824 (2.715)
E61.62.112.R.0	4.41 (112)	5.67 (144)	≈ 1.834 (2.729)
E61.62.12.R.0	4.92 (125)	6.18 (157)	≈ 1.864 (2.774)
E61.62.137.R.0	5.39 (137)	6.65 (169)	≈ 1.892 (2.816)
E61.62.15.R.0	5.91 (150)	7.17 (182)	≈ 1.923 (2.861)
E61.62.162.R.0	6.38 (162)	7.64 (194)	≈ 1.950 (2.902)
E61.62.17.R.0	6.61 (168)	7.87 (200)	≈ 1.964 (2.923)
E61.62.18.R.0	6.89 (175)	8.15 (207)	≈ 1.980 (2.947)
E61.62.187.R.0	7.36 (187)	8.62 (219)	≈ 2.009 (2.989)
E61.62.20.R.0	7.87 (200)	9.13 (232)	≈ 2.039 (3.034)

Part No. e-chains®	Bi in. (mm)	Ba in. (mm)	Weight lbs/ft. (kg/m)
E61.62.212.R.0	8.35 (212)	9.61 (244)	≈ 2.067 (3.076)
E61.62.23.R.0	8.86 (225)	10.12 (257)	≈ 2.097 (3.121)
E61.62.237.R.0	9.33 (237)	10.59 (269)	≈ 2.125 (3.162)
E61.62.25.R.0	9.84 (250)	11.10 (282)	≈ 2.155 (3.207)
E61.62.262.R.0	10.31 (262)	11.57 (294)	≈ 2.183 (3.249)
E61.62.28.R.0	10.83 (275)	12.09 (307)	≈ 2.213 (3.294)
E61.62.29.R.0	11.30 (287)	12.56 (319)	≈ 2.242 (3.336)
E61.62.30.R.0	11.81 (300)	13.07 (332)	≈ 2.272 (3.381)
E61.62.312.R.0	12.28 (312)	13.54 (344)	≈ 2.299 (3.422)
E61.62.325.R.0	12.80 (325)	14.06 (357)	≈ 2.330 (3.467)
E61.62.337.R.0	13.27 (337)	14.53 (369)	≈ 2.358 (3.509)
E61.62.350.R.0	13.78 (350)	15.04 (382)	≈ 2.388 (3.554)
E61.62.362.R.0	14.25 (362)	15.51 (394)	≈ 2.416 (3.596)
E61.62.375.R.0	14.76 (375)	16.02 (407)	≈ 2.447 (3.641)
E61.62.387.R.0	15.24 (387)	16.50 (419)	≈ 2.474 (3.682)
E61.62.400.R.0	15.75 (400)	17.01 (432)	≈ 2.541 (3.782)

Complete Part No. with required radius (R). Example: E61.62.100.100.0

Available bend radii

R in. (mm) | 4.52 (115) | 5.91 (150)* | 7.87 (200)* | 9.84 (250)* | 11.81 (300)* | 13.78 (350)* |

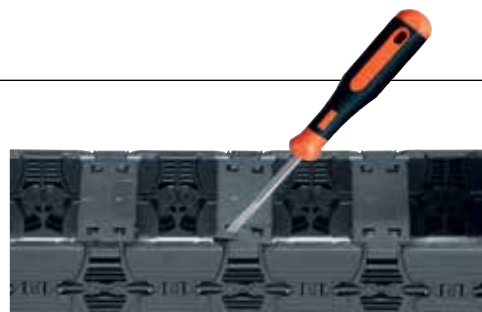
*Radius available upon request.

Installation note - system E6.1

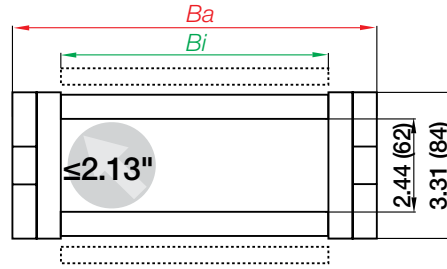
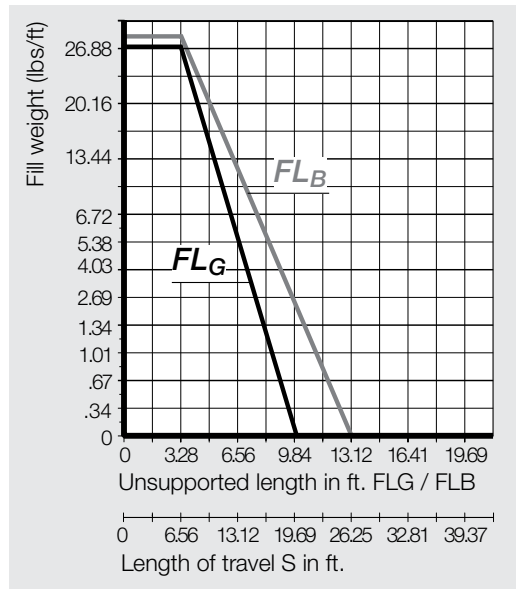
To open, insert the screwdriver into the locking mechanism and prise it open. Repeat the procedure on the other side.

An assembly video is available online at

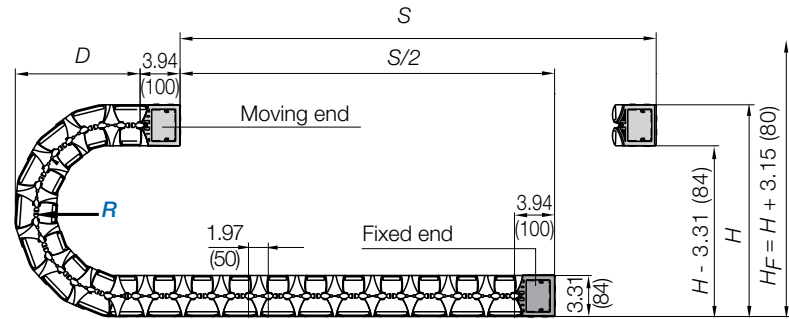
► www.igus.com/E61_assembly



Unsupported applications | Short travels



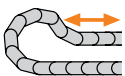
Inner height in. (mm)	2.44 (62)
Pitch per link in. (mm)	1.97 (50)
Links/ft (m)	6.09 (20)
corresponds to (mm)	1,000
e-chain® length	$L_K = S/2 + K$



R	4.52 (115)	5.91 (150)*	7.87 (200)*	9.84 (250)*	11.81 (300)*	13.78 (350)*
H	15.12 (384)	17.87 (454)	21.81 (554)	25.74 (654)	29.69 (754)	33.62 (854)
D	9.13 (232)	10.51 (267)	12.48 (317)	14.45 (367)	16.42 (417)	18.39 (467)
K	18.31 (465)	22.63 (575)	28.74 (730)	35.04 (890)	41.14 (1045)	47.24 (1200)

*Radius available upon request. Please consult igus® for delivery time.

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

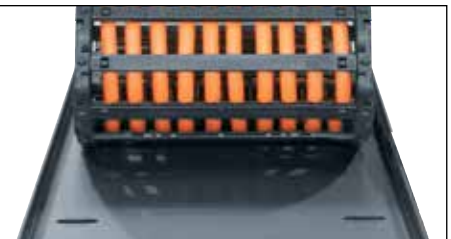


If a gliding application is required for a long travel, please consult igus®.

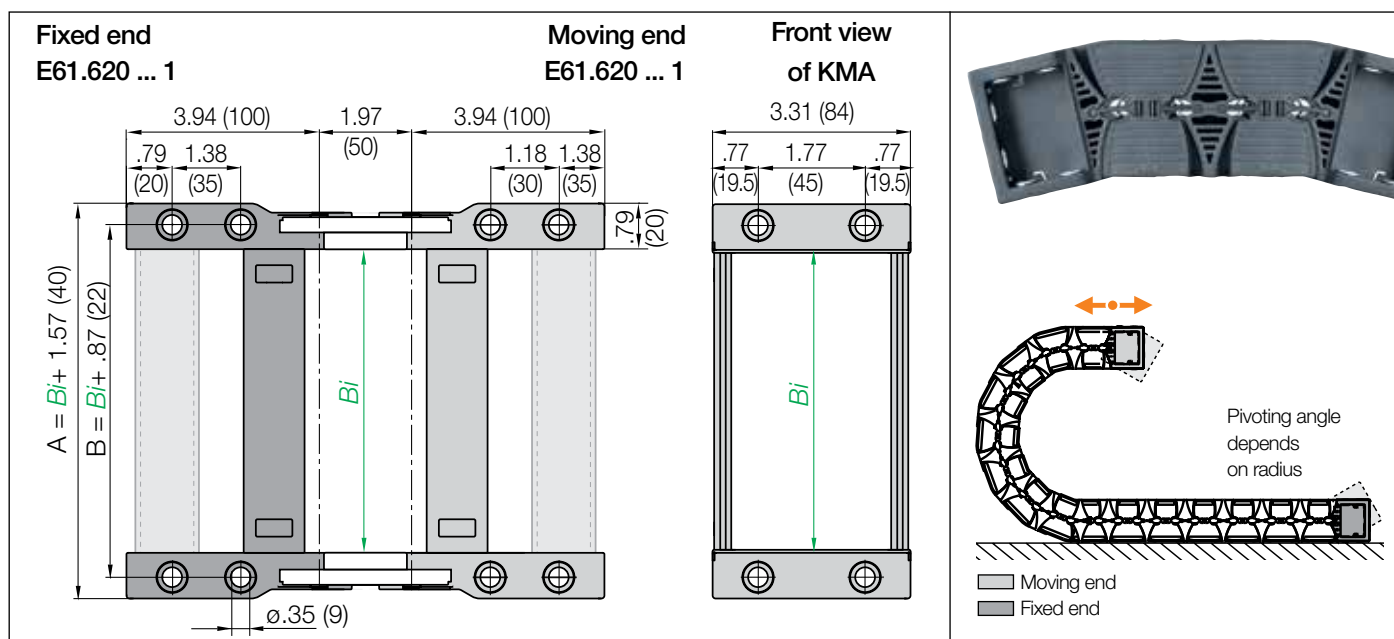
Steel support tray for support of the lower run

- 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

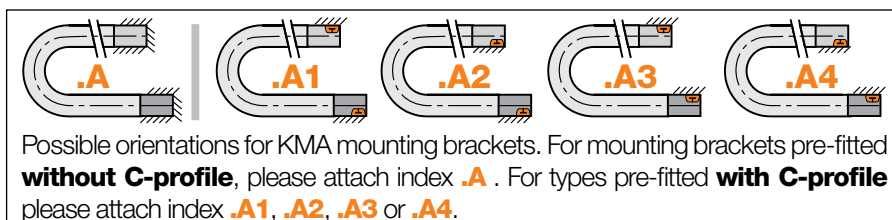


KMA pivoting | Recommended for unsupported applications

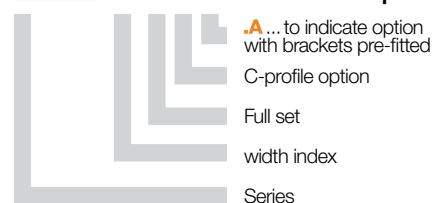
Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
05.	E61.620.05. 12.C	3.54 (90)	2.83 (72)	1.97 (50)
06.	E61.620.06. 12.C	4.25 (108)	3.54 (90)	2.68 (68)
07.	E61.620.07. 12.C	4.53 (115)	3.82 (97)	2.95 (75)
087.	E61.620.087.12.C	5.00 (127)	4.29 (109)	3.43 (87)
097.	E61.620.097.12.C	5.39 (137)	4.69 (119)	3.82 (97)
10.	E61.620.10. 12.C	5.51 (140)	4.80 (122)	3.94 (100)
11.	E61.620.11. 12.C	5.83 (148)	5.12 (130)	4.25 (108)
112.	E61.620.112.12.C	5.98 (152)	5.28 (134)	4.41 (112)
12.	E61.620.12. 12.C	6.50 (165)	5.79 (147)	4.92 (125)
137.	E61.620.137.12.C	6.97 (177)	6.26 (159)	5.39 (137)
15.	E61.620.15. 12.C	7.48 (190)	6.77 (172)	5.91 (150)
162.	E61.620.162.12.C	7.95 (202)	7.24 (184)	6.38 (162)
17.	E61.620.17. 12.C	8.19 (208)	7.48 (190)	6.61 (168)
18.	E61.620.18. 12.C	8.46 (215)	7.76 (197)	6.89 (175)
187.	E61.620.187.12.C	8.94 (227)	8.23 (209)	7.36 (187)
20.	E61.620.20. 12.C	9.45 (240)	8.74 (222)	7.87 (200)

Width index	Part No. Full set KMA pivoting	A in. (mm)	B in. (mm)	Bi in. (mm)
212.	E61.620.212.12.C	9.92 (252)	9.21 (234)	8.35 (212)
23.	E61.620.23. 12.C	10.43 (265)	9.72 (247)	8.86 (225)
237.	E61.620.237.12.C	10.91 (277)	10.20 (259)	9.33 (237)
25.	E61.620.25. 12.C	11.42 (290)	10.71 (272)	9.84 (250)
262.	E61.620.262.12.C	11.89 (302)	11.18 (284)	10.31 (262)
28.	E61.620.28. 12.C	12.40 (315)	11.69 (297)	10.83 (275)
29.	E61.620.29. 12.C	12.87 (327)	12.17 (309)	11.30 (287)
30.	E61.620.30. 12.C	13.39 (340)	12.68 (322)	11.81 (300)
312.	E61.620.312.12.C	13.86 (352)	13.15 (334)	12.28 (312)
325.	E61.620.325.12.C	14.37 (365)	13.66 (347)	12.80 (325)
337.	E61.620.337.12.C	14.84 (377)	14.13 (359)	13.27 (337)
350.	E61.620.350.12.C	15.35 (390)	14.65 (372)	13.78 (350)
362.	E61.620.362.12.C	15.83 (402)	15.12 (384)	14.25 (362)
375.	E61.620.375.12.C	16.34 (415)	15.63 (397)	14.76 (375)
387.	E61.620.387.12.C	16.81 (427)	16.10 (409)	15.24 (387)
400.	E61.620.400.12.C	17.32 (440)	16.61 (422)	15.75 (400)

(KMA = polymer metal mounting bracket) For the C-profile option please add index .C. KMA mounting brackets are only available for an odd number of links.

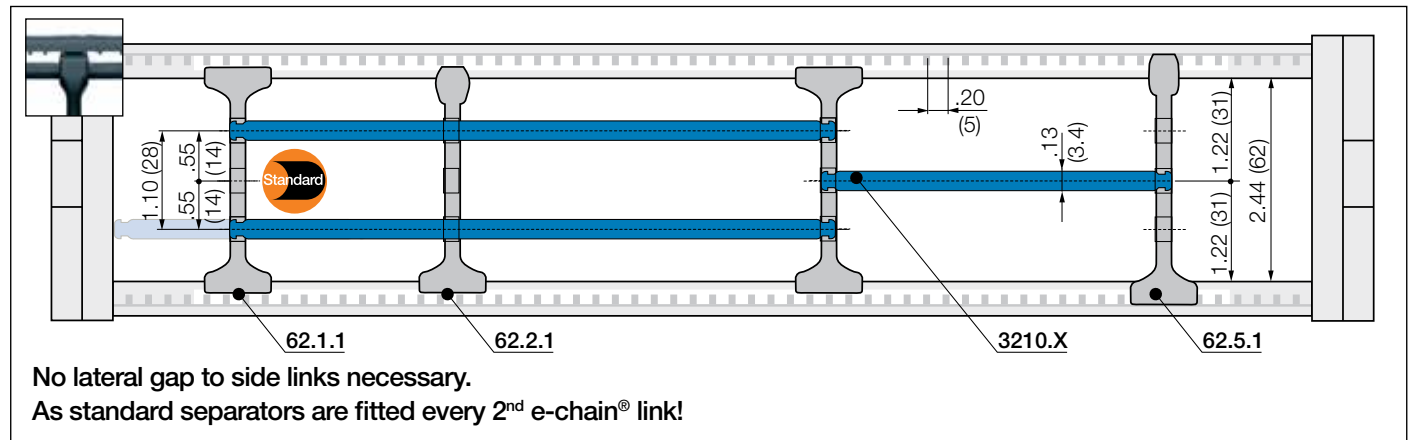


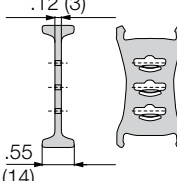
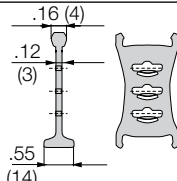
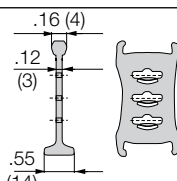
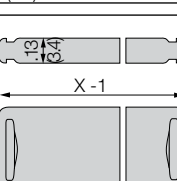
E61.620.100.12.C.A2 Order example



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



		Standard separator, wide base unassembled 62.1 assembled 62.1.1
		Separator, narrow top unassembled 62.2 assembled 62.2.1
		Separator, asymmetrical unassembled 62.5 assembled 62.5.1
		Shelf, lockable unassembled 3200.X assembled 3210.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

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			

Dynamic, quiet, light and cleanroom suitable



e-chains® | Series E61.80 | Crossbars removable along the inner and outer radius

Part No. e-chains®	Bi in. (mm)	Ba in. (mm)	Weight lbs/ft. (kg/m)	Part No. e-chains®	Bi in. (mm)	Ba in. (mm)	Weight lbs/ft. (kg/m)
E61.80.05.R.0	1.97 (50)	3.94 (100)	≈ 1.953 (2.906)	E61.80.31.R.0	12.28 (312)	14.25 (362)	≈ 2.812 (4.185)
E61.80.06.R.0	2.56 (65)	4.53 (115)	≈ 2.002 (2.979)	E61.80.32.R.0	12.80 (325)	14.76 (375)	≈ 2.855 (4.249)
E61.80.07.R.0	2.95 (75)	4.92 (125)	≈ 2.035 (3.028)	E61.80.33.R.0	13.27 (337)	15.24 (387)	≈ 2.894 (4.307)
E61.80.08.R.0	3.43 (87)	5.39 (137)	≈ 2.076 (3.089)	E61.80.35.R.0	13.78 (350)	15.75 (400)	≈ 2.937 (4.371)
E61.80.10.R.0	3.94 (100)	5.91 (150)	≈ 2.117 (3.150)	E61.80.36.R.0	14.25 (362)	16.22 (412)	≈ 2.976 (4.429)
E61.80.11.R.0	4.41 (112)	6.38 (162)	≈ 2.156 (3.209)	E61.80.37.R.0	14.76 (375)	16.73 (425)	≈ 3.019 (4.493)
E61.80.12.R.0	4.92 (125)	6.89 (175)	≈ 2.199 (3.272)	E61.80.38.R.0	15.24 (387)	17.20 (437)	≈ 3.058 (4.551)
E61.80.13.R.0	5.39 (137)	7.36 (187)	≈ 2.238 (3.331)	E61.80.40.R.0	15.75 (400)	17.72 (450)	≈ 3.101 (4.615)
E61.80.15.R.0	5.91 (150)	7.87 (200)	≈ 2.281 (3.394)	E61.80.41.R.0	16.22 (412)	18.19 (462)	≈ 3.140 (4.673)
E61.80.16.R.0	6.38 (162)	8.35 (212)	≈ 2.320 (3.453)	E61.80.42.R.0	16.73 (425)	18.70 (475)	≈ 3.183 (4.737)
E61.80.17.R.0	6.89 (175)	8.86 (225)	≈ 2.363 (3.516)	E61.80.43.R.0	17.20 (437)	19.17 (487)	≈ 3.217 (4.787)
E61.80.18.R.0	7.36 (187)	9.33 (237)	≈ 2.402 (3.575)	E61.80.45.R.0	17.72 (450)	19.69 (500)	≈ 3.257 (4.847)
E61.80.20.R.0	7.87 (200)	9.84 (250)	≈ 2.445 (3.638)	E61.80.46.R.0	18.19 (462)	20.16 (512)	≈ 3.297 (4.907)
E61.80.21.R.0	8.35 (212)	10.32 (262)	≈ 2.484 (3.697)	E61.80.47.R.0	18.70 (475)	20.67 (525)	≈ 3.338 (4.967)
E61.80.22.R.0	8.86 (225)	10.82 (275)	≈ 2.527 (3.760)	E61.80.48.R.0	19.17 (487)	21.14 (537)	≈ 3.378 (5.027)
E61.80.23.R.0	9.33 (237)	11.30 (287)	≈ 2.566 (3.819)	E61.80.50.R.0	19.69 (500)	21.65 (550)	≈ 3.418 (5.087)
E61.80.25.R.0	9.84 (250)	11.81 (300)	≈ 2.609 (3.882)	E61.80.51.R.0	20.16 (512)	22.13 (562)	≈ 3.459 (5.147)
E61.80.26.R.0	10.31 (262)	12.28 (312)	≈ 2.648 (3.941)	E61.80.52.R.0	20.67 (525)	22.64 (575)	≈ 3.499 (5.207)
E61.80.27.R.0	10.83 (275)	12.80 (325)	≈ 2.691 (4.004)	E61.80.53.R.0	21.14 (537)	23.11 (587)	≈ 3.539 (5.267)
E61.80.28.R.0	11.30 (287)	13.27 (337)	≈ 2.730 (4.063)	E61.80.55.R.0	21.65 (550)	23.62 (600)	≈ 3.580 (5.327)
E61.80.30.R.0	11.81 (300)	13.78 (350)	≈ 2.773 (4.127)	E61.80.60.R.0	23.62 (600)	25.59 (650)	≈ 3.734 (5.557)

Complete Part No. with required radius (R). Example: E61.80.100.150.0

Available bend radii

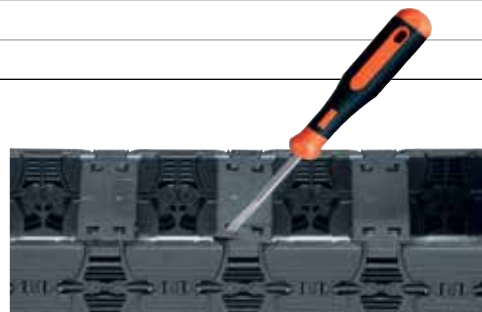
R in. (mm) | 5.91 (150)* | 7.87 (200)* | 9.84 (250)* | 11.81 (300)* | 13.78 (350)* | 15.75 (400)* |

*Radius available upon request.

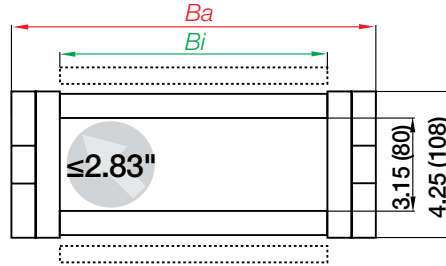
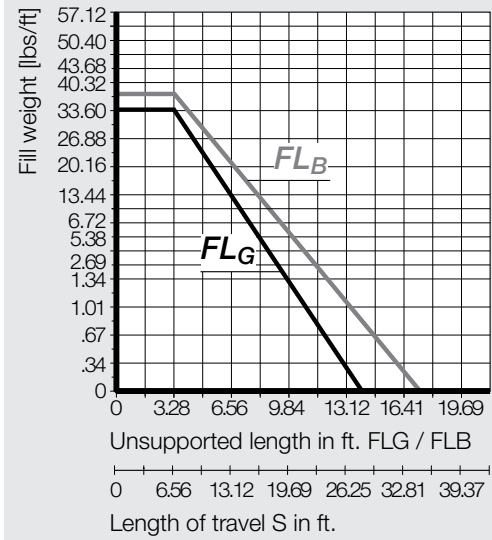
Installation note - system E6.1

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

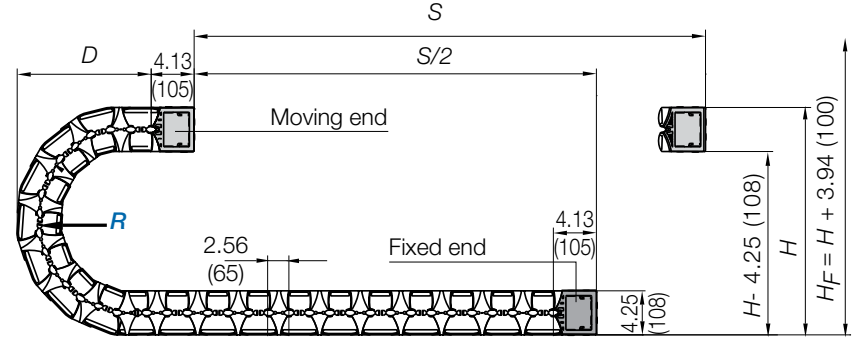
An assembly video is available online at

► www.igus.com/E61_assembly

Unsupported applications | Short travels



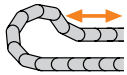
Inner height in. (mm)	3.15 (80)
Pitch per link in. (mm)	2.56 (65)
Links/ft (m)	4.69 (16)
corresponds to (mm)	1,040
e-chain® length	$L_K = S/2 + K$



R	5.91 (150)	7.87 (200)*	9.84 (250)*	11.81 (300)*	13.78 (350)*	15.75 (400)*
H	20.00 (508)	23.94 (608)	27.87 (708)	31.81 (808)	35.75 (908)	39.69 (1008)
D	11.87 (301.5)	13.84 (351.5)	15.81 (401.5)	17.78 (451.5)	19.74 (501.5)	21.71 (551.5)
K	23.82 (605)	29.92 (760)	36.22 (920)	42.32 (1075)	48.43 (1230)	54.72 (1390)

*Radius available upon request. Please consult igus® for delivery time.

The required clearance height: $H_F = H + 3.15$ in. (80 mm) with 3.36 lbs/ft (5.0 kg/m) fill weight.

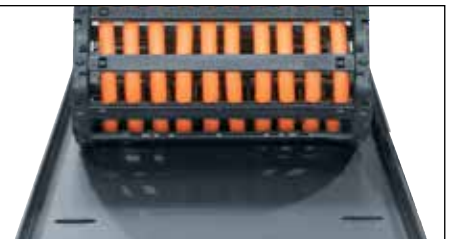


i If a gliding application is required for a long travel, please consult igus®.

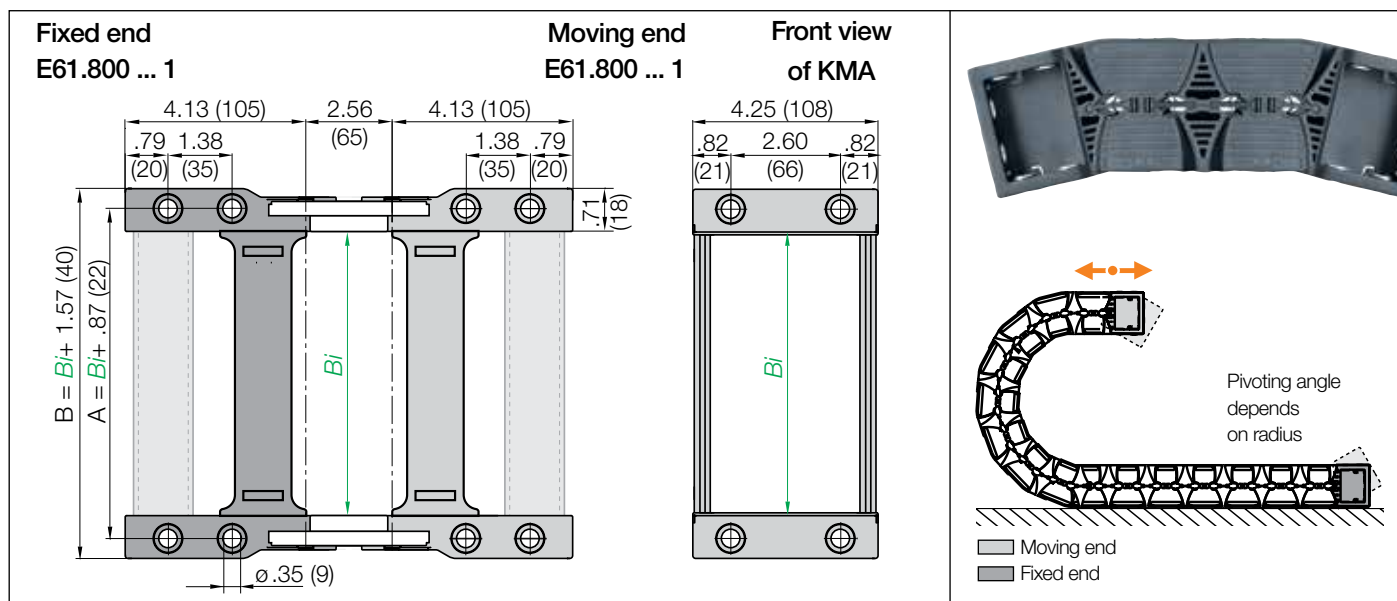
Steel support tray for support of the lower run

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

More information ► From page 1394



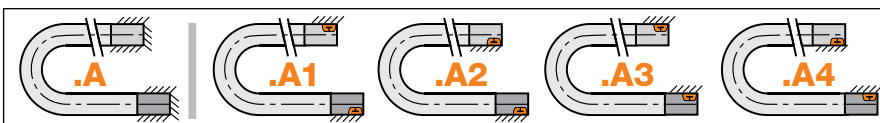
KMA mounting brackets | Attachment from any side | Pivoting



KMA pivoting | Recommended for unsupported applications

Width index		Part No. Full set KMA pivoting	A	B	Bi		Width index		Part No. Full set KMA pivoting	A	B	Bi
			in. (mm)	in. (mm)	in. (mm)					in. (mm)	in. (mm)	in. (mm)
05.	►	E61.800.05.12.C	2.83 (72)	3.54 (90)	1.97 (50)		31.	►	E61.800.31.12.C	13.15 (334)	13.86 (352)	12.28 (312)
06.	►	E61.800.06.12.C	3.43 (87)	4.13 (105)	2.56 (65)		32.	►	E61.800.32.12.C	13.66 (347)	14.37 (365)	12.80 (325)
07.	►	E61.800.07.12.C	3.82 (97)	4.53 (115)	2.95 (75)		33.	►	E61.800.33.12.C	14.13 (359)	14.84 (377)	13.27 (337)
08.	►	E61.800.08.12.C	4.29 (109)	5.00 (127)	3.43 (87)		35.	►	E61.800.35.12.C	14.65 (372)	15.35 (390)	13.78 (350)
10.	►	E61.800.10.12.C	4.80 (122)	5.51 (140)	3.94 (100)		36.	►	E61.800.36.12.C	15.12 (384)	15.83 (402)	14.25 (362)
11.	►	E61.800.11.12.C	5.28 (134)	5.98 (152)	4.41 (112)		37.	►	E61.800.37.12.C	15.63 (397)	16.34 (415)	14.76 (375)
12.	►	E61.800.12.12.C	5.79 (147)	6.50 (165)	4.92 (125)		38.	►	E61.800.38.12.C	16.10 (409)	16.81 (427)	15.24 (387)
13.	►	E61.800.13.12.C	6.26 (159)	6.97 (177)	5.39 (137)		40.	►	E61.800.40.12.C	16.61 (422)	17.32 (440)	15.75 (400)
15.	►	E61.800.15.12.C	6.77 (172)	7.48 (190)	5.91 (150)		41.	►	E61.800.41.12.C	17.09 (434)	17.80 (452)	16.22 (412)
16.	►	E61.800.16.12.C	7.24 (184)	7.95 (202)	6.38 (162)		42.	►	E61.800.42.12.C	17.60 (447)	18.31 (465)	16.73 (425)
17.	►	E61.800.17.12.C	7.76 (197)	8.46 (215)	6.89 (175)		43.	►	E61.800.43.12.C	18.07 (459)	18.78 (477)	17.20 (437)
18.	►	E61.800.18.12.C	8.23 (209)	8.94 (227)	7.36 (187)		45.	►	E61.800.45.12.C	18.58 (472)	19.29 (490)	17.72 (450)
20.	►	E61.800.20.12.C	8.74 (222)	9.45 (240)	7.87 (200)		46.	►	E61.800.46.12.C	19.06 (484)	19.76 (502)	18.19 (462)
21.	►	E61.800.21.12.C	9.21 (234)	9.92 (252)	8.35 (212)		47.	►	E61.800.47.12.C	19.57(497)	20.28 (515)	18.70 (475)
22.	►	E61.800.22.12.C	9.72 (247)	10.43 (265)	8.86 (225)		48.	►	E61.800.48.12.C	20.04 (509)	20.75 (527)	19.17 (487)
23.	►	E61.800.23.12.C	10.20 (259)	10.91 (277)	9.33 (237)		50.	►	E61.800.50.12.C	20.55 (522)	21.26 (540)	19.69 (500)
25.	►	E61.800.25.12.C	10.71 (272)	11.42 (290)	9.84 (250)		51.	►	E61.800.51.12.C	21.02 (534)	21.73 (552)	20.16 (512)
26.	►	E61.800.26.12.C	11.18 (284)	11.89 (302)	10.31 (262)		52.	►	E61.800.52.12.C	21.54 (547)	22.24 (565)	20.67 (525)
27.	►	E61.800.27.12.C	11.69 (297)	12.40 (315)	10.83 (275)		53.	►	E61.800.53.12.C	22.01 (559)	22.72 (577)	21.14 (537)
28.	►	E61.800.28.12.C	12.17 (309)	12.87 (327)	11.30 (287)		55.	►	E61.800.55.12.C	22.52 (572)	23.23 (590)	21.65 (550)
30.	►	E61.800.30.12.C	12.68 (322)	13.39 (340)	11.81 (300)		60.	►	E61.800.60.12.C	24.49 (622)	25.20 (640)	23.62 (600)

(KMA = polymer metal mounting bracket) For the C-profile option please add index **.C**. KMA mounting brackets are only available for an odd number of links.



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**.

E61.800.100.12.C.A2 Order example

.A ... to indicate option with brackets pre-fitted

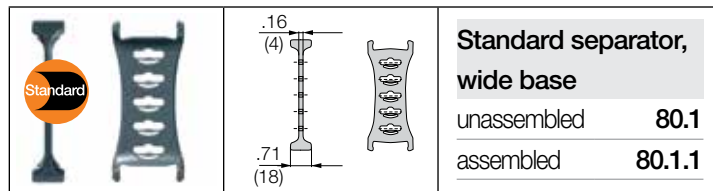
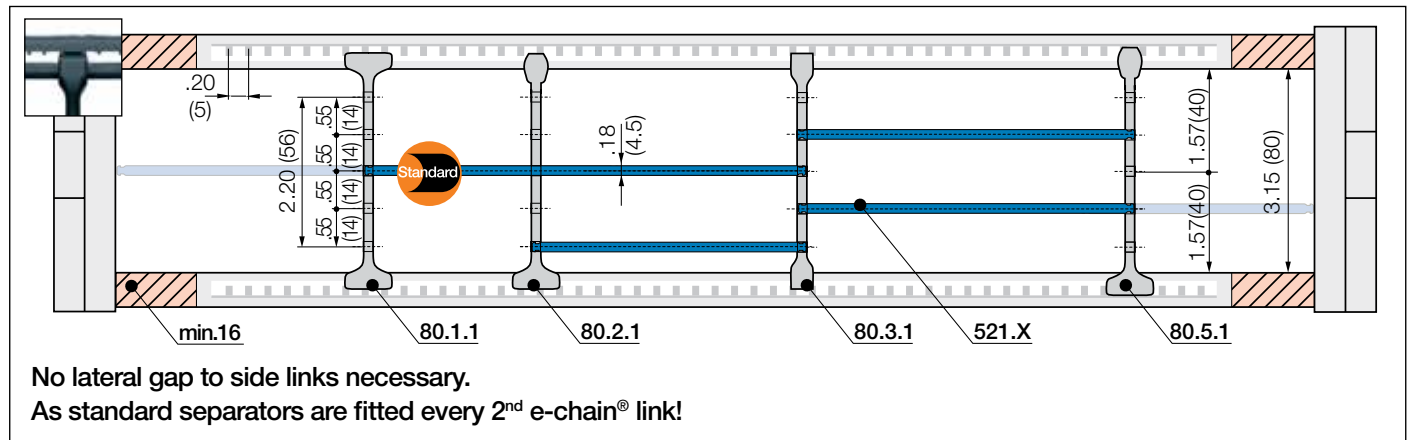
C-profile option

Full set

width index

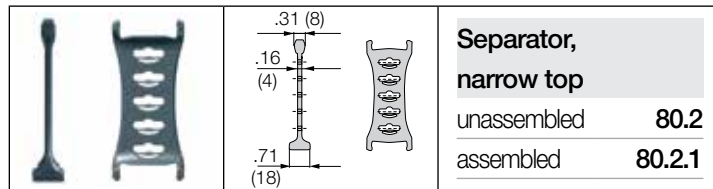
Series

Interior separation | Increase cable service life



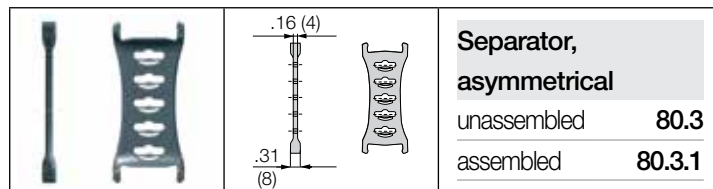
Standard - for any application

Separator with a wide base for maximum holding force.



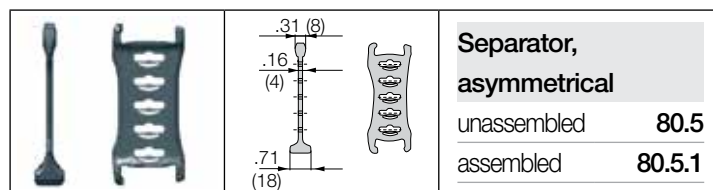
For even faster installation

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



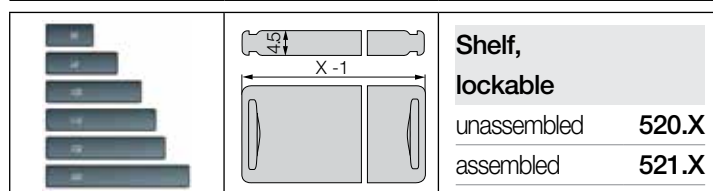
For a large number of thin cables

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)

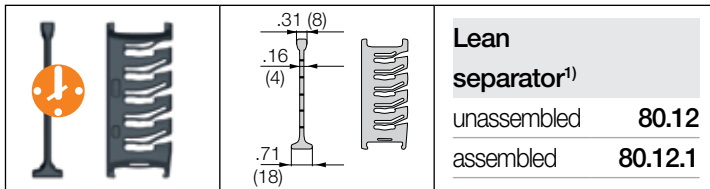
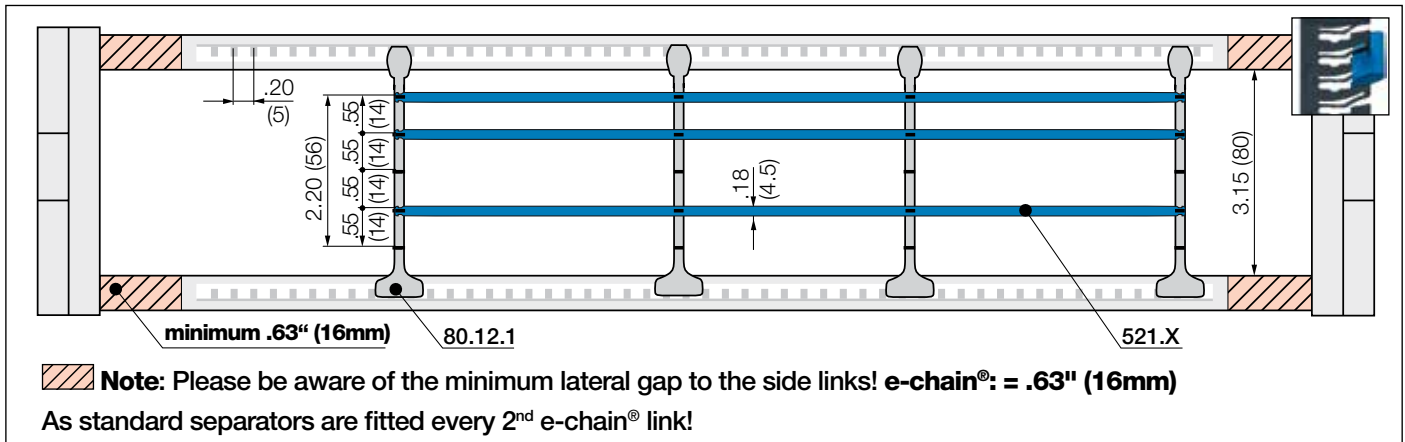


X in. (mm)	unassembled	assembled	X in. (mm)	unassembled	assembled	X in. (mm)	unassembled	assembled
1.97 (050)	520.050	521.050	5.91 (150)	520.150	521.150	11.81 (300)	520.300	521.300
2.56 (065)	520.065	521.065	6.89 (175)	520.175	521.175	13.78 (350)	520.350	521.350
2.95 (075)	520.075	521.075	7.87 (200)	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 separators¹⁾

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%²⁾.

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





Fully harnessed e-chain systems® to your requirements. E6.1 e-chain® system and chainflex® cables both cleanroom suitable in the semiconductor industry