



E6

**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)¹⁾** - extremely low noise and vibration
- **Cleanroom ISO Class 1²⁾** - virtually no wear or abrasion

1) Extremely low-noise - tested at the igus® lab 2) Cleanroom - series E6.29.060.150.0.CR



When to use another e-chain® series:

- With only limited suitability for side-mounted applications
 - ▶ E4.1L, page 524 ▶ E2/000, page 360
- When a Reverse Bend Radius *RBR* is required
 - ▶ E4.1L, page 524 ▶ E2/000, page 360
- For longer unsupported lengths
 - ▶ E4.1L, page 524 ▶ E2/000, page 360
- For long travels
 - ▶ E4.1, page 566 ▶ E2/000, page 360
- For even less vibration and noise or even greater dynamics
 - ▶ E6.1, page 750

Attachment from any side:
with KMA mounting
brackets

Low noise from
37dB(A)¹⁾:
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/bore connection

Variant:
available as closed
e-tube for some sizes

Cleanroom ISO
Class 1²⁾:
virtually no wear
or abrasion

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 minimises 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 - series E6.29.060.150.0.CR

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 Qualification Certificate²⁾ - Report IG 0704-400:
ISO Class 1, according to DIN EN ISO 14644-1 for system
E6, series E6.29.060.150.0.CR at v = 0.5m/s, 2m/s

37dB(A)¹⁾ - value determined at the
igus® test lab, v = 1.0m/s unsupported,
series E6.29.080.075.0

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bend radius <i>R</i> [mm]	Unsupported length ≤ [m]	Page
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E6 e-chains®
crossbars removable along the
inner and outer radius - standard

E6.29	29	30 - 140	6 - 156	35	055 - 150	≈ 1.75	796
E6.35	35	30 - 140	50 - 160	42	055 - 150	≈ 1.90	802
E6.40	40	40 - 300	60 - 320	54	063 - 200	≈ 2.50	806
E6.52	52	40 - 300	64 - 324	65	075 - 250	≈ 3.00	812
E6.62	62	50 - 400	86 - 436	84	115 - 350	≈ 4.00	818
E6.80L	80	87 - 550	115 - 578	108	150 - 300	≈ 2.50	822
E6.80	80	50 - 600	100 - 650	108	150 - 450	≈ 5.25	828



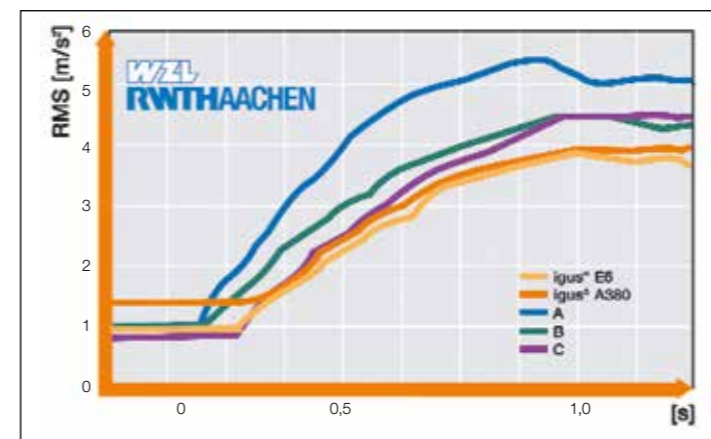
R6 e-tubes
fully enclosed - lids removable along
the inner and outer radius

R6.29	28	30 - 120	46 - 136	35	055 - 150	≈ 1.75	796
R6.40	40	62	82	54	063 - 200	≈ 2.50	806
R6.52	52	50 - 200	74 - 224	65	075 - 250	≈ 3.00	812

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

Available from stock. Ready to ship in 24 - 48 hrs.*

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.



E6 system - extremely quiet operation

Study by the Laboratorium für Werkzeugmaschinen und Betriebslehre (WZL) of the RWTH Aachen, Germany, on "Vibration tests on energy supply chains". Results: the "E6" energy supply system made by igus® GmbH, Cologne, is characterised by extremely low vibration and smooth operation



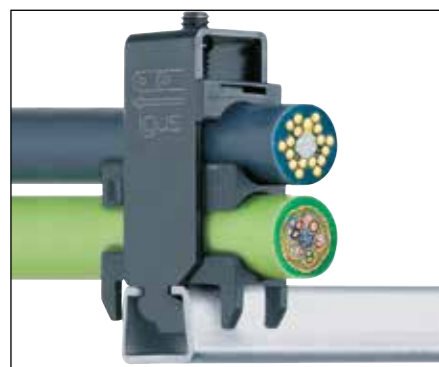
Lean separators enable extremely fast cable filling in several layers



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



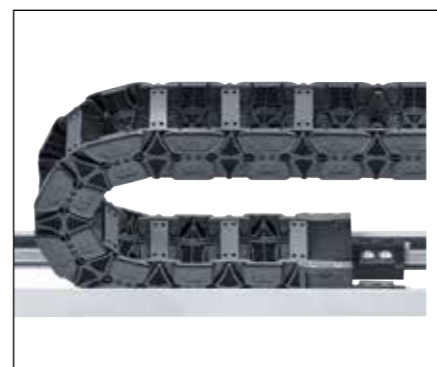
KMA mounting brackets with attachment options from any side



Strain relief e.g. clamps, tiwrap plates, nuggets, etc. ► From page 1300



Aluminium "SuperTrough" - the standard igus® guide trough ► From page 1208



Aluminium and steel support tray for support of the lower run ► From page 1264



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

Suitability of E6 e-chains® for cleanrooms - almost no wear or abrasion

By using a special material, the already low abrasion 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. A comprehensive test programme was devised and performed for both gliding and unsupported use. For many applications, the e-chains® in special materials are virtually abrasion-free. IPA tests confirm that standard igus® e-chains® meet cleanroom requirements. "Tested and certified as very good!" e-chains® for 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.



By eliminating the pin/bore connection, the unsupported E6 has very low abrasion and is suitable for cleanrooms



IPA Qualification Certificate - Report IG 0704-400:

- **Special material "cleanroom" - ISO Class 1, according to DIN EN ISO 14644-1**
for series E6.29.060.150.0.CR at v = 0.5m/s, 2.0m/s
- **Standard material - ISO Class 3, according to DIN EN ISO 14644-1**
for series E6.29.060.150.0 at v = 0.5m/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

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

Selected noise tests - external noise corrected measurement values

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

Source: TÜV Rheinland *Source: igus® investigations



Noise level ≤ 37dB(A) - A measurement conducted by the Rhineland Technical Inspection Authority (TÜV Rheinland) in May 2002 indicates a value of ≤ 46dB(A) at 2m/s and with an unsupported length of 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 1m/s for the series E6.29.080.075.0 (unsupported length)

Technical data

Speed gliding¹⁾ / acceleration gliding¹⁾ upon request

Speed FL_G / acceleration FL_G ≤ 20 [m/s] / ≤ 200 [m/s²]

Speed FL_B / acceleration FL_B ≤ 3 [m/s] / ≤ 6 [m/s²]

Material - permitted temperature °C, igumid G 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⁾ Gliding applications for long travels are available upon request, please consult igus®.

Installation types, maximum travels

Series	Unsupported	Gliding ¹⁾	Vertical hanging	Vertical standing	Side mounted unsupported
E6.29 / R6.29	$\leq 3.50m$	upon request	$\leq 30m$	$\leq 2.0m$	upon request
E6.35	$\leq 3.80m$	upon request	$\leq 30m$	$\leq 2.0m$	upon request
E6.40 / R6.40	$\leq 5.00m$	upon request	$\leq 30m$	$\leq 2.0m$	upon request
E6.52 / R6.52	$\leq 6.00m$	upon request	$\leq 50m$	$\leq 2.0m$	upon request
E6.62	$\leq 8.00m$	upon request	$\leq 60m$	$\leq 3.0m$	upon request
E6.80L	$\leq 5.00m$	upon request	$\leq 60m$	$\leq 4.0m$	upon request
E6.80	$\leq 10.5m$	upon request	$\leq 60m$	$\leq 4.0m$	upon request

¹⁾ Gliding applications for long travels are available upon request, please consult igus®.

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

Standard NC version -
(No Camber)
without pretension

Part No. Standard	Part No. NC version

E6.52.100.R.0 **E6.52.100.R.0.NC**

Ready to ship*
in 24 - 48hrs. **Delivery time***
upon request

*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Order example | Order key and colour examples | Examples based on series E6.52

**Order example for complete e-chain® (1.0m),
colour black, with mounting brackets and interior separation:**

e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m 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 nd link	2 x 38222
Order text:	1 m E6.52.100.075.0 + E6.520.100.12 + 2 x 38222	

Order key

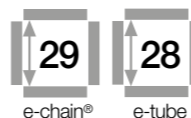
e-chain® **E6.52.100.075.0**
e-tube **R6.52.100.075.0**

Series / Type	
Width index (depends on B_i)	
Bend radius R	
Colour index (standard black)	

Order index for colour options

Colour	Order index	Colour	Order index
Black	Standard	Orange	Special colour
Silver-grey	Special colour	Yellow	Special colour
White	Special colour	Light grey	Special colour
Grey-white	Special colour		

Black e-chains® available from stock.
Above special colours 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.	Part No.	Bi	Ba	E6.29	R6.29	Part No.	Part No.	Bi	Ba	E6.29	R6.29
e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
E6.29. 030. R.0	R6.29. 030. R.0	30	46	0.73	0.80	E6.29. 090. R.0	R6.29.*090. R.0	90	106	0.88	1.08
E6.29. 040. R.0	R6.29. 040. R.0	40	56	0.75	0.85	E6.29. 100. R.0	R6.29.*100. R.0	100	116	0.90	1.13
E6.29. 050. R.0	R6.29. 050. R.0	50	66	0.78	0.89	E6.29. 110. R.0	R6.29. 110. R.0	110	126	0.93	1.18
E6.29. 060. R.0	R6.29. 060. R.0	60	76	0.80	0.94	E6.29. 120. R.0	R6.29. 120. R.0	120	136	0.95	1.22
E6.29. 070. R.0	R6.29.*070. R.0	70	86	0.83	0.97	E6.29. 140. R.0	- 140. R.0	140	156	1.00	-
E6.29. 080. R.0	R6.29. 080. R.0	80	96	0.85	1.03						

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

Available bend radii

R [mm] | 055 | 075 | 100 | 150 |

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

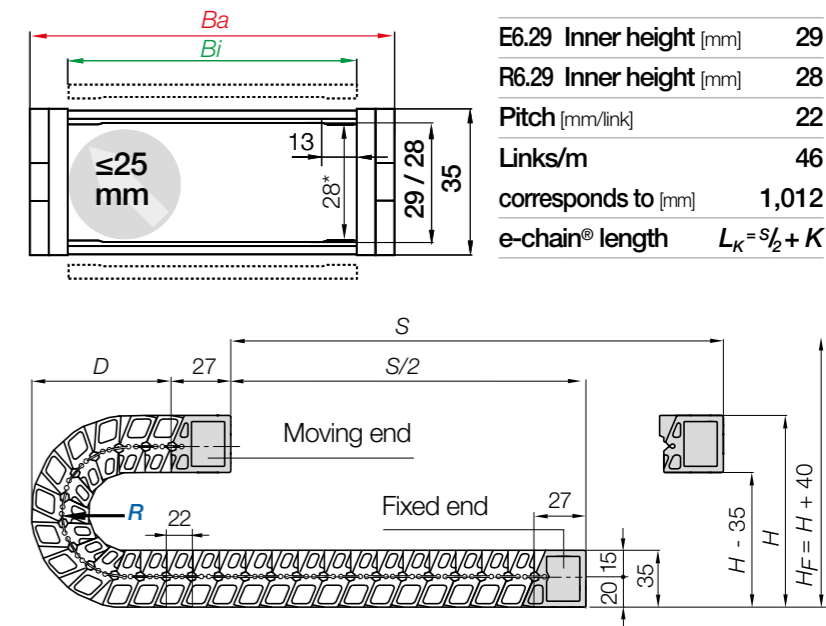
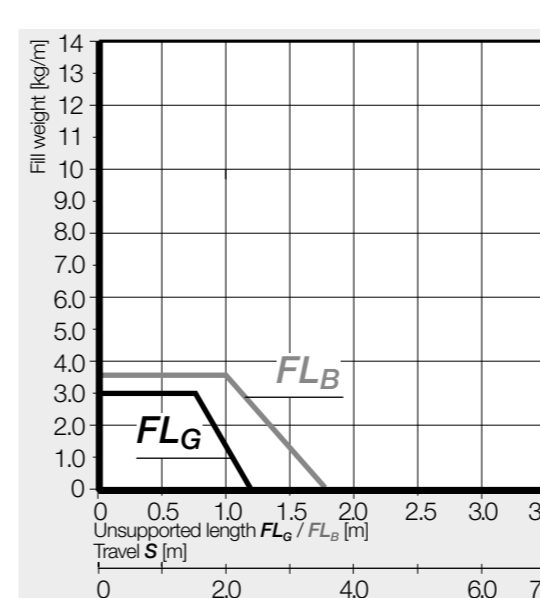
E6.29.080.100.0 = e-chain® / R6.29.080.100.0 = e-tube



Installation note - system E6

Open by removing the crossbar with a screwdriver.
 Repeat the procedure on the other side.

Assembly video available online at ► www.igus.eu/E6_assembly



R	055	075	100	150
H	180	220	270	370
D	108	128	153	203
K	220	280	360	520

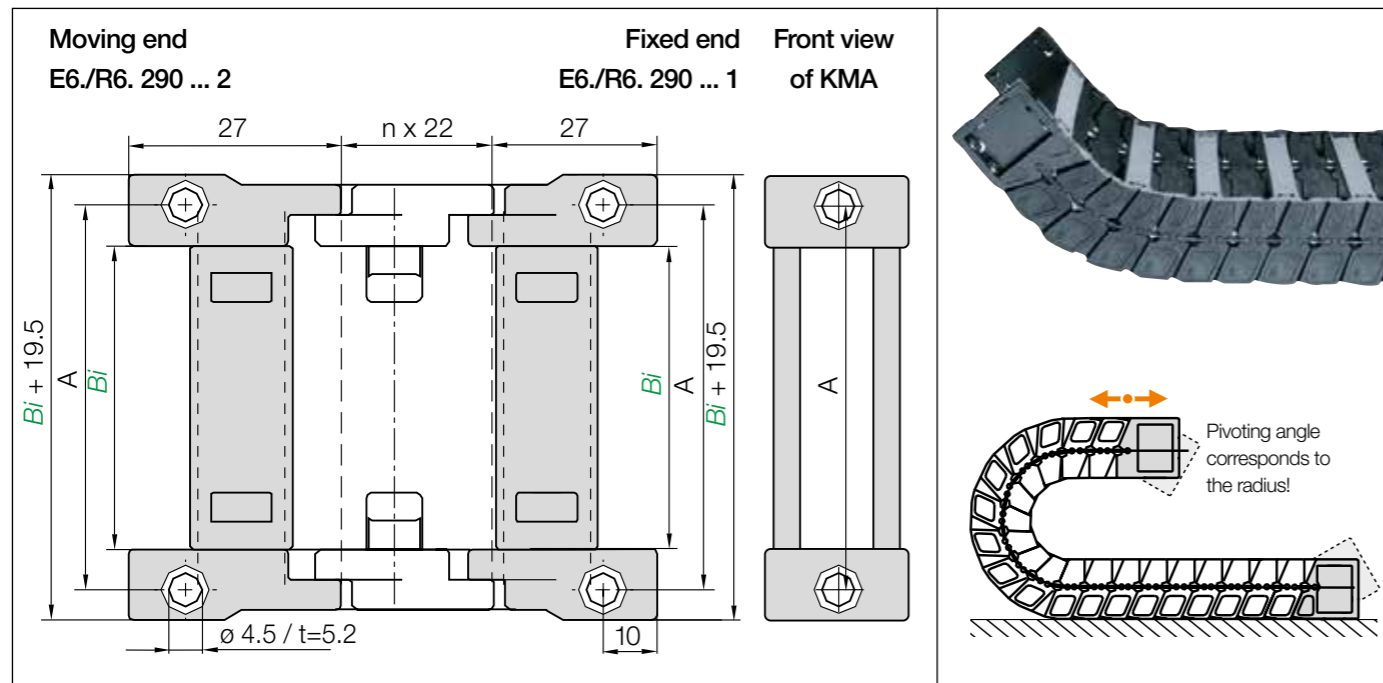
The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)

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

Aluminium support tray

- Corrosion-resistant and seawater-resistant aluminium rails with adjustable width
 - Noise-reducing glide strip integrated as standard
 - Easy installation and connection of the e-chain®
 - Open design - dirt and debris fall through
- More information ► From page 1270





KMA pivoting | Recommended for unsupported applications

Width index	Part No. full set KMA pivoting	A [mm]	Bi [mm]	Width index	Part No. full set KMA pivoting	A [mm]	Bi [mm]
030.	E6.290. R6.290. 030.12	40	30	090.	E6.290. R6.290.* 090.12	100	90
040.	E6.290. R6.290. 040.12	50	40	100.	E6.290. R6.290.* 100.12	110	100
050.	E6.290. R6.290. 050.12	60	50	110.	E6.290. R6.290. 110.12	120	110
060.	E6.290. R6.290. 060.12	70	60	120.	E6.290. R6.290. 120.12	130	120
070.	E6.290. R6.290. 070.12	80	70	140.	E6.290 - 140.12	150	140
080.	E6.290. R6.290. 080.12	90	80				

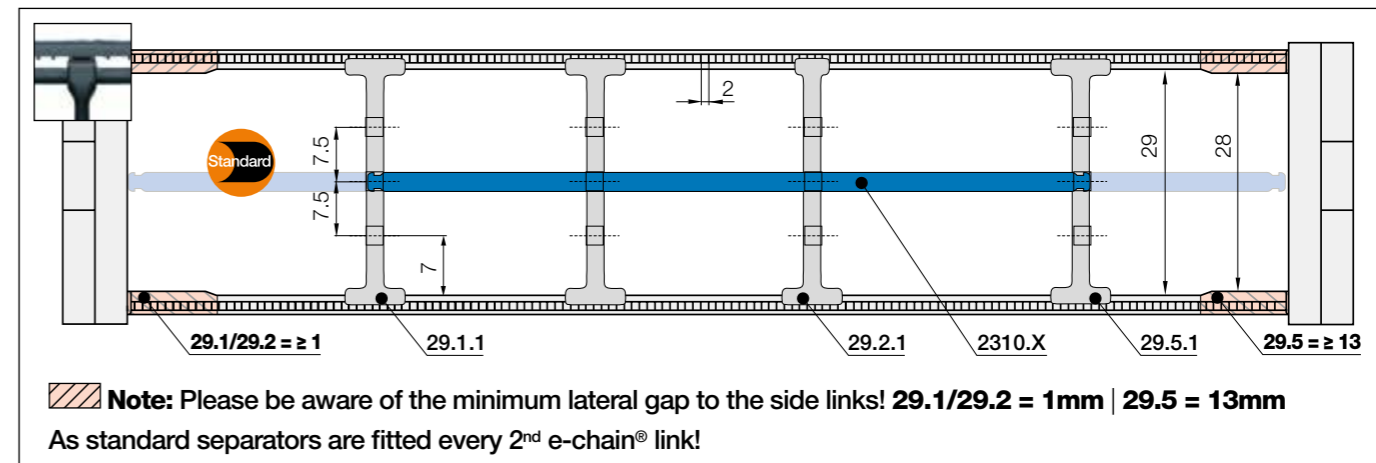
*Width available upon request. Please consult igus® for delivery time.

(KMA = polymer metal mounting bracket)



Strain relief e.g. clamps, tie-wrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Previous generation of interior separation with other options ► www.igus.eu/E6.29



		2.5 8		Standard separator, wide base	
				unassembled	29.1
				assembled	29.1.1

Standard - for any application

Separator with a wide base for maximum holding force in the e-chain®.

		4 2.5 8		Separator, narrow top	
				unassembled	29.2
				assembled	29.2.1

For even faster installation

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

		2.5 8		Notch separator for notched crossbar	
				unassembled	29.5
				assembled	29.5.1

Locks securely in preset increments

Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

		X - 1		Shelf, lockable	
				unassembled	2300.X
				assembled	2310.X

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.

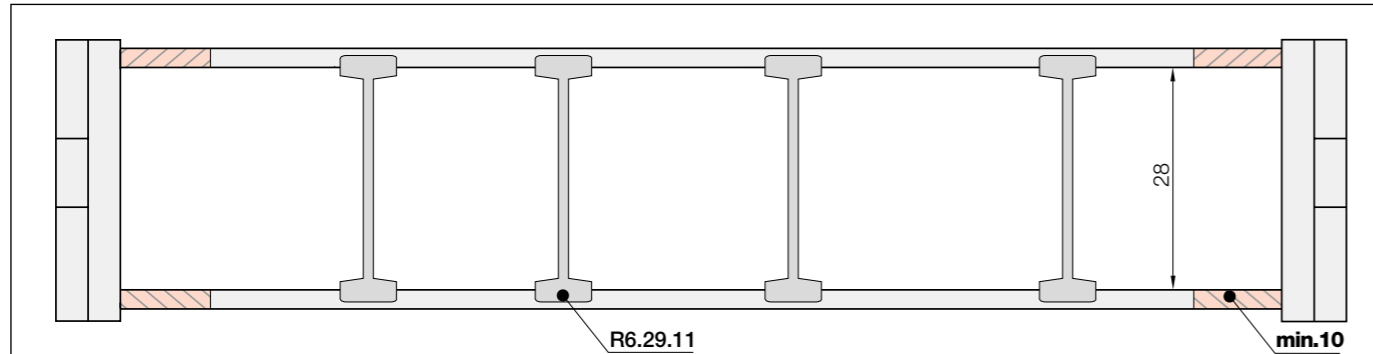
Shelves Width = X [mm]	X [mm]	unassembled		assembled		X [mm]	unassembled		assembled	
		part no.	part no.	part no.	part no.		part no.	part no.		
	015	2300.015	2310.015	060	2300.060	2310.060	087	2300.087	2310.087	
	025	2300.025	2310.025	062	2300.062	2310.062	090	2300.090	2310.090	
	030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100	
	038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103	
	040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110	
	050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120	
	057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125	

Separator with integrated strain relief teeth

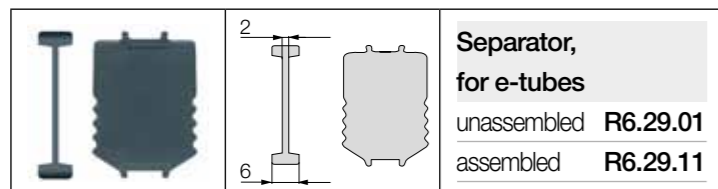
- Can be integrated into the mounting bracket or placed at any point in the e-chain®
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any screws
- Part No. E6.29.02.Z. More information ► From page 1326



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



Note: Please be aware of the minimum lateral gap to the side links! **e-tubes: 10mm**
As standard separators are fitted every 2nd e-chain® link!



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.

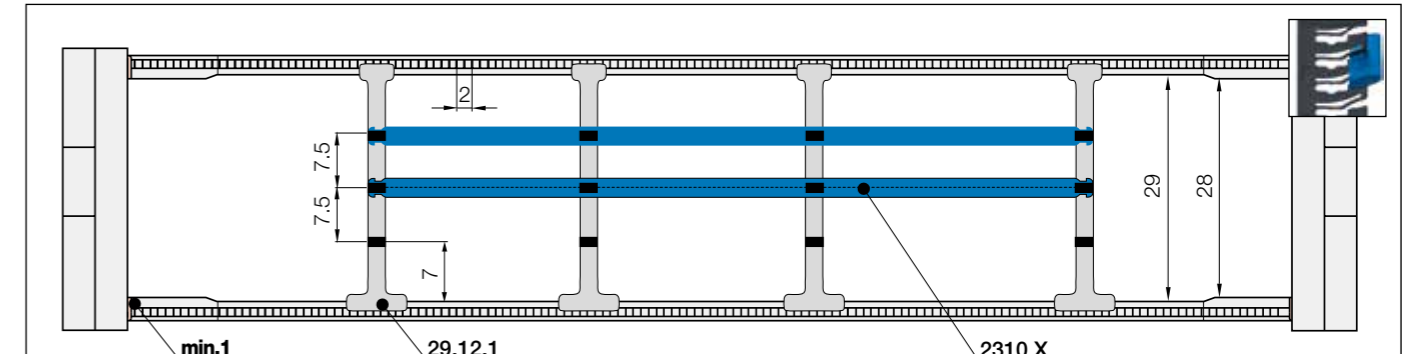
Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point in the e-chain®
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any screws
- Part No. R6.29.02.Z. More information ► From page 1326

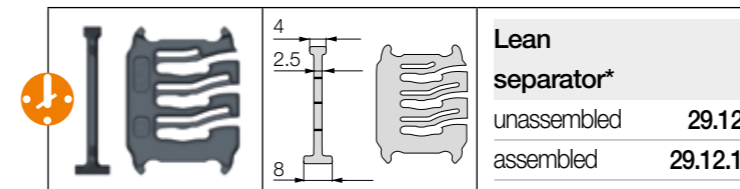


Long travel length with side-mounted orientation using the low noise and vibration series E6 for a camera application

Interior separation | To allow faster filling **New**



Note: Please be aware of the minimum lateral gap to the side links! **e-chain®: 1mm**
As standard separators are fitted every 2nd e-chain® link!



Lean separators*

New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

*Only for e-chains®



Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time

(*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)



... E6.35

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

Part No.	<i>Bi</i>	<i>Ba</i>	E6.35	Part No.	<i>Bi</i>	<i>Ba</i>	E6.35
e-chains®	[mm]	[mm]	[kg/m]	e-chains®	[mm]	[mm]	[kg/m]
E6.35. 030. R.0	30	50	0.88	E6.35. 090. R.0	90	110	1.01
E6.35. 040. R.0	40	60	0.90	E6.35. 100. R.0	100	120	1.03
E6.35. 050. R.0	50	70	0.92	E6.35. 110. R.0	110	130	1.05
E6.35. 060. R.0	60	80	0.94	E6.35. 120. R.0	120	140	1.07
E6.35. 070. R.0	70	90	0.96	E6.35. 140. R.0	140	160	1.11
E6.35. 080. R.0	80	100	0.99				

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

Available bend radii

R [mm] | 055 | 075 | 100 | 125* | 150 |Complete Part No. with required radius (*R*). Example: E6.35.100.100.0

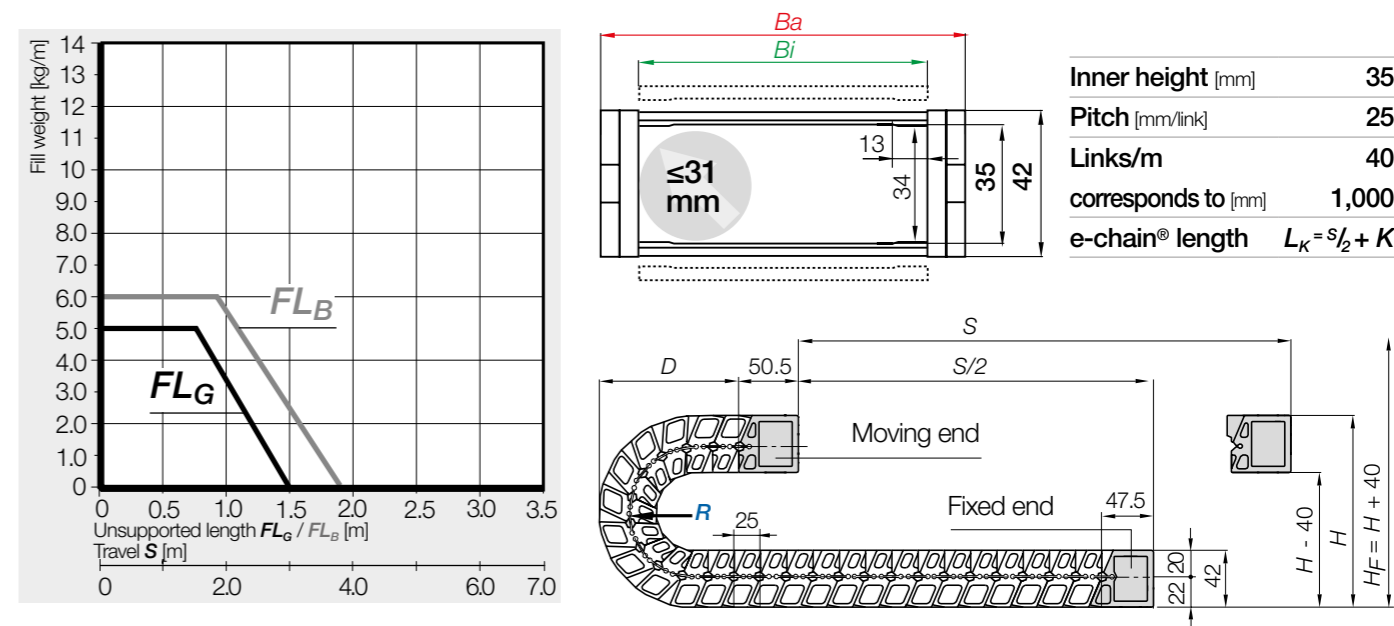
Installation note - system E6

Open by removing the crossbar with a screwdriver.
Repeat the procedure on the other side.Assembly video available online at ► www.igus.eu/E6_assembly

► 1300



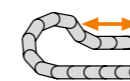
► 1222



<i>R</i>	055	075	100	125*	150
<i>H</i>	189	229	279	329	379
<i>D</i>	115	135	160	185	210
<i>K</i>	225	290	365	445	525

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)

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



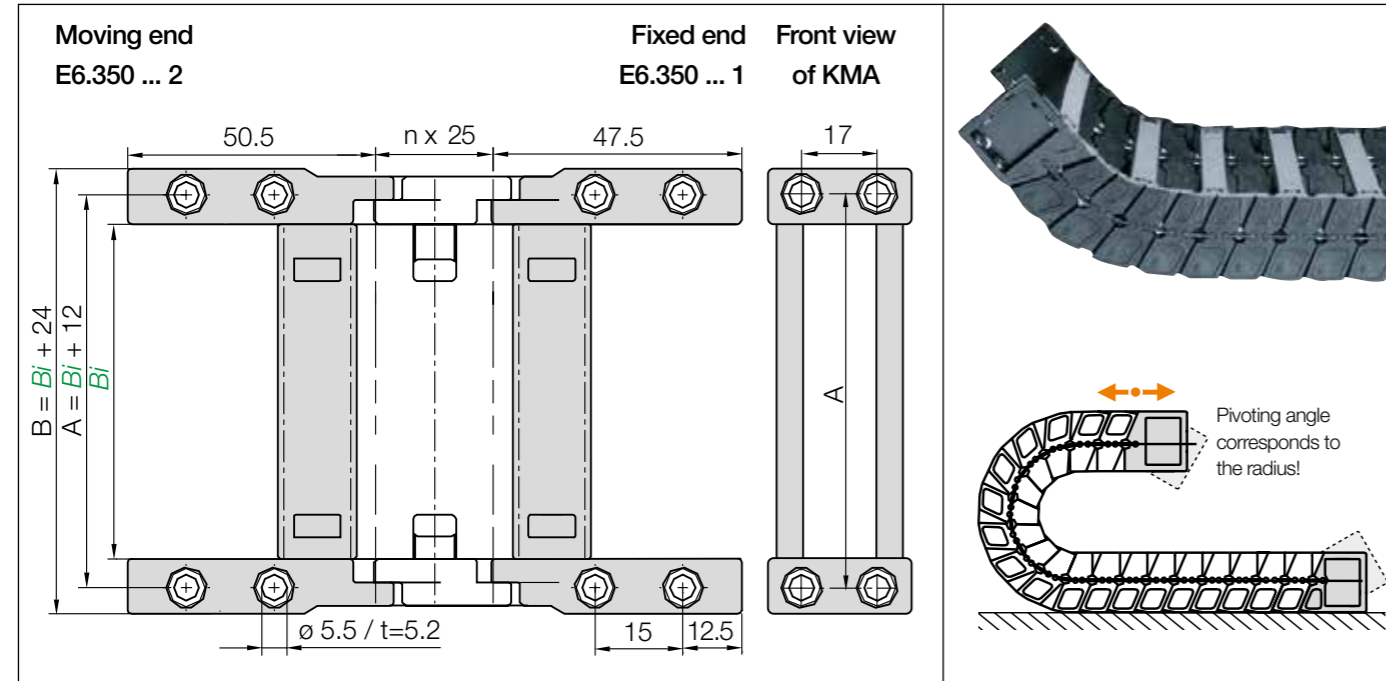
i If a gliding application is required for a long travel, please consult igus®.

Aluminium support tray

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

More information ► From page 1270

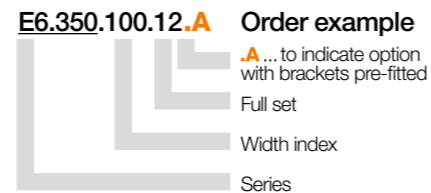
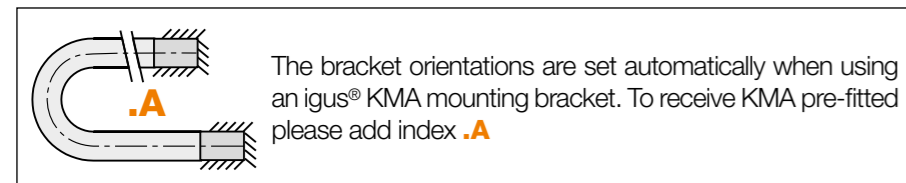




KMA pivoting | Recommended for unsupported applications

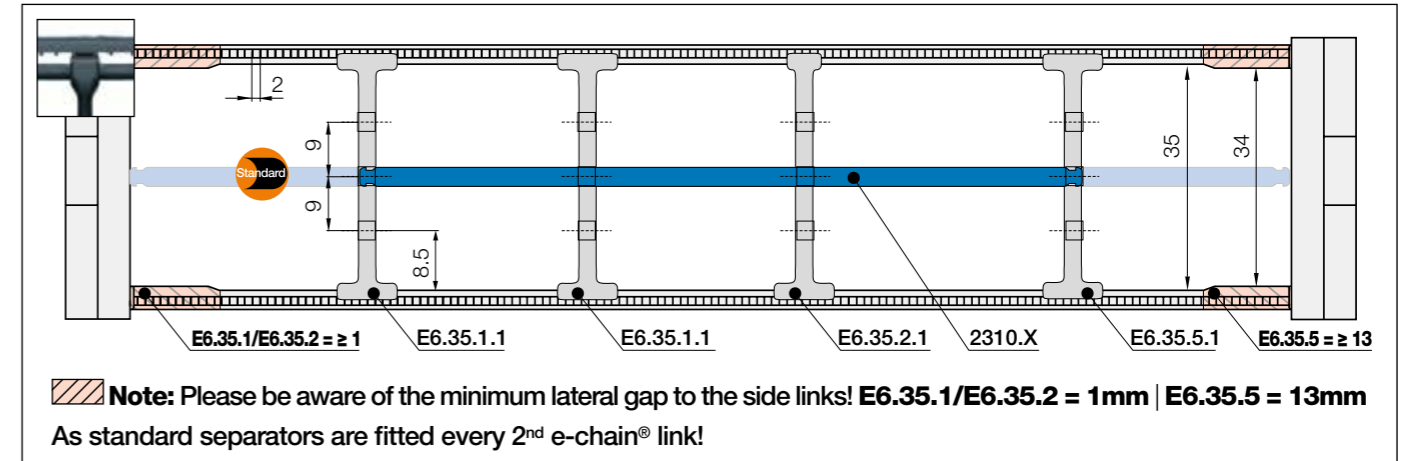
Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]	Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]
030.	E6.350. 030.12	42	54	30	090.	E6.350. 090.12	102	114	90
040.	E6.350. 040.12	52	64	40	100.	E6.350. 100.12	112	124	100
050.	E6.350. 050.12	62	74	50	110.	E6.350. 110.12	122	134	110
060.	E6.350. 060.12	72	84	60	120.	E6.350. 120.12	132	144	120
070.	E6.350. 070.12	82	94	70	140.	E6.350. 140.12	152	164	140
080.	E6.350. 080.12	92	104	80					

(KMA = polymer metal mounting bracket)



Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Previous generation of interior separation with other options ► www.igus.eu/E6.35



Standard separator, wide base

unassembled **E6.35.1**

assembled **E6.35.1.1**

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.

Separator, narrow top

unassembled **E6.35.2**

assembled **E6.35.2.1**

For even faster installation
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

Notch separator for notched crossbar

unassembled **E6.35.5**

assembled **E6.35.5.1**

Locks securely in preset increments
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Shelf, lockable

unassembled **2300.X**

assembled **2310.X**

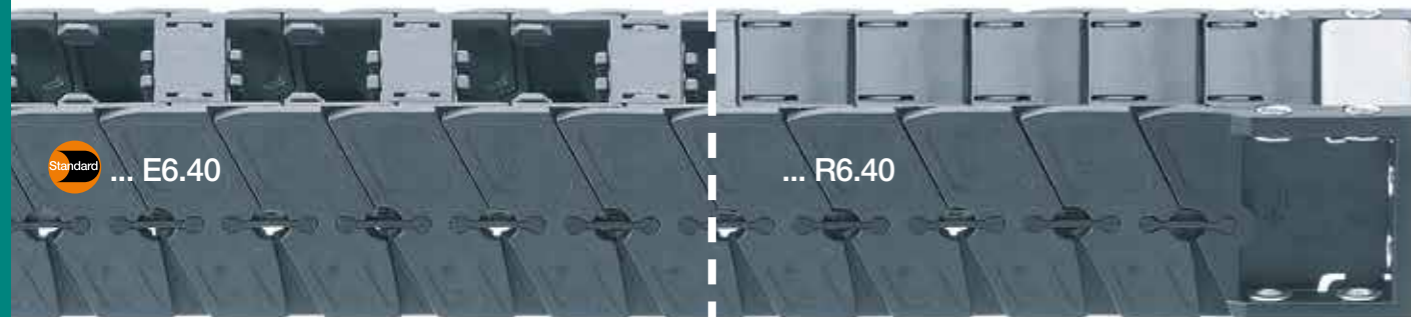
Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves Width = X [mm]	X [mm]		X [mm]		X [mm]			
	unassembled	assembled	unassembled	assembled	unassembled	assembled		
015	2300.015	2310.015	060	2300.060	2310.060	087	2300.087	2310.087
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.090	2310.090
030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100
038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103
040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110
050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120
057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125

Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point in the e-chain®
- 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 1326



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.	Part No.	Bi	Ba	E6.40	R6.40	Part No.	Part No.	Bi	Ba	E6.40	R6.40
e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
E6.40. 040.R.0	R6.40.*040.R.0	40	60	≈ 1.29	-	E6.40. 125.R.0	R6.40.*125.R.0	125	145	≈ 1.63	-
E6.40. 050.R.0	R6.40.*050.R.0	50	70	≈ 1.33	-	E6.40. 150.R.0	R6.40.*150.R.0	150	170	≈ 1.73	-
E6.40. 052.R.0	R6.40.*052.R.0	52	72	≈ 1.34	-	E6.40. 175.R.0	R6.40.*175.R.0	175	195	≈ 1.83	-
E6.40. 062.R.0	R6.40. 062.R.0	62	82	≈ 1.38	≈ 1.59	E6.40. 200.R.0	R6.40.*200.R.0	200	220	≈ 1.93	-
E6.40. 070.R.0	R6.40.*070.R.0	70	90	≈ 1.41	-	E6.40. 225.R.0	R6.40.*225.R.0	225	245	≈ 2.02	-
E6.40. 075.R.0	R6.40.*075.R.0	75	95	≈ 1.43	≈ 1.65	E6.40. 250.R.0	R6.40.*250.R.0	250	270	≈ 2.12	-
E6.40. 087.R.0	R6.40.*087.R.0	87	107	≈ 1.48	-	E6.40. 275.R.0	R6.40.*275.R.0	275	295	≈ 2.22	-
E6.40. 100.R.0	R6.40.*100.R.0	100	120	≈ 1.53	-	E6.40. 300.R.0	R6.40.*300.R.0	300	320	≈ 2.32	-

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

Available bend radii

R [mm] | 063 | 075 | 100 | 125 | 150 | 200 |

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

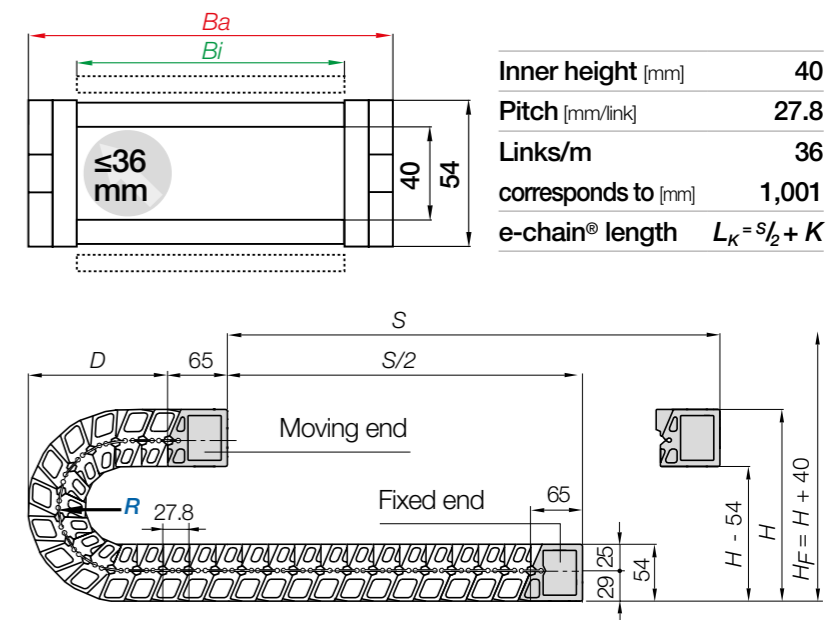
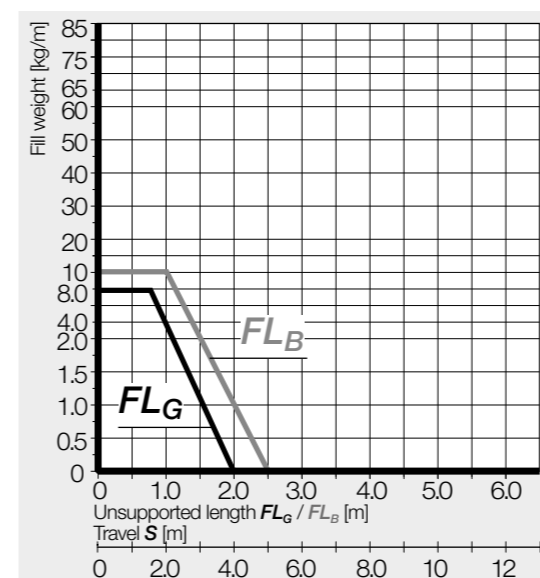
E6.40.100.100.0 = e-chain® / R6.40.100.100.0 = e-tube



Installation note - system E6

Open by removing the crossbar with a screwdriver.
 Repeat the procedure on the other side.

Assembly video available online at ► www.igus.eu/E6_assembly



R	063	075	100	125	150	200
H	224	248	298	348	398	498
D	134	146	171	196	221	271
K	255	295	370	450	530	685

The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)

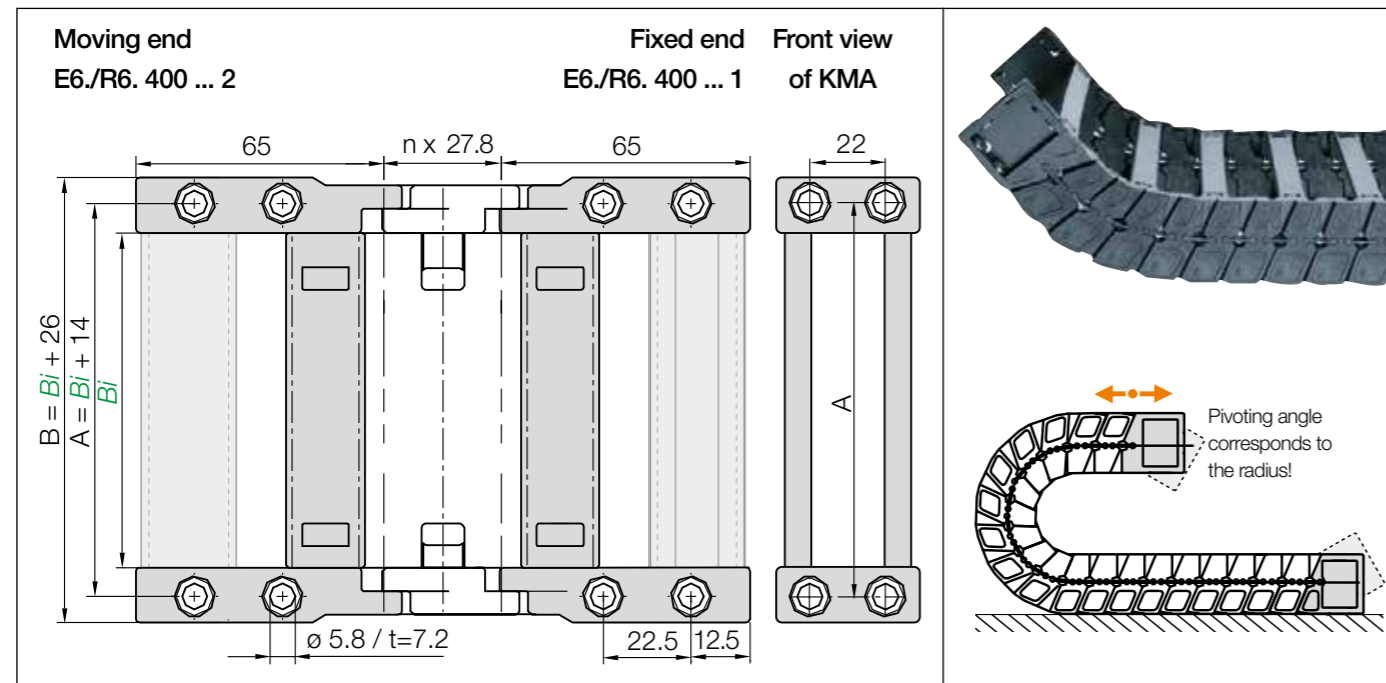
If a gliding application is required for a long travel, please consult igus®.

Aluminium support tray

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

More information ► From page 1270



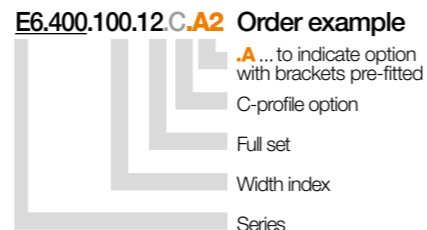
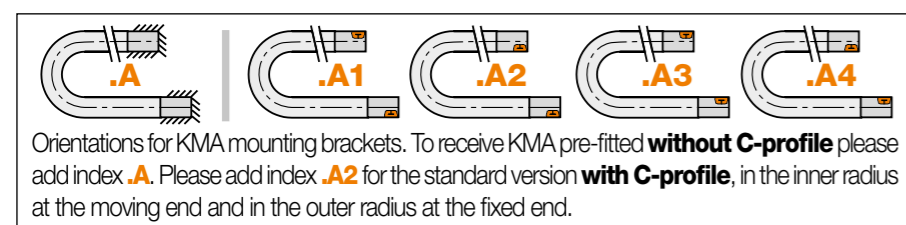


KMA pivoting | Recommended for unsupported applications

Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]	Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]
040.	E6.400. R6.400.* 040.12.C	54	66	40	125.	E6.400. R6.400.* 125.12.C	139	151	125
050.	E6.400. R6.400.* 050.12.C	64	76	50	150.	E6.400. R6.400.* 150.12.C	154	176	150
052.	E6.400. R6.400.* 052.12.C	66	78	52	175.	E6.400. R6.400.* 175.12.C	189	201	175
062.	E6.400. R6.400.* 062.12.C	76	88	62	200.	E6.400. R6.400.* 200.12.C	214	226	200
070.	E6.400. R6.400.* 070.12.C	84	96	70	225.	E6.400. R6.400.* 225.12.C	239	251	225
075.	E6.400. R6.400.* 075.12.C	89	101	75	250.	E6.400. R6.400.* 250.12.C	264	276	250
087.	E6.400. R6.400.* 087.12.C	101	113	87	275.	E6.400. R6.400.* 275.12.C	289	301	275
100.	E6.400. R6.400.* 100.12.C	114	126	100	300.	E6.400. R6.400.* 300.12.C	314	326	300

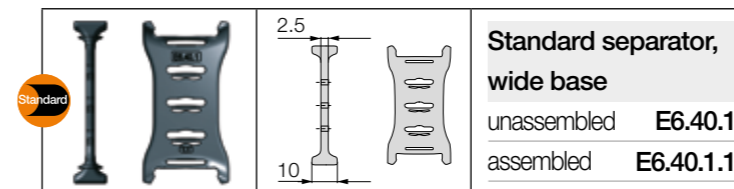
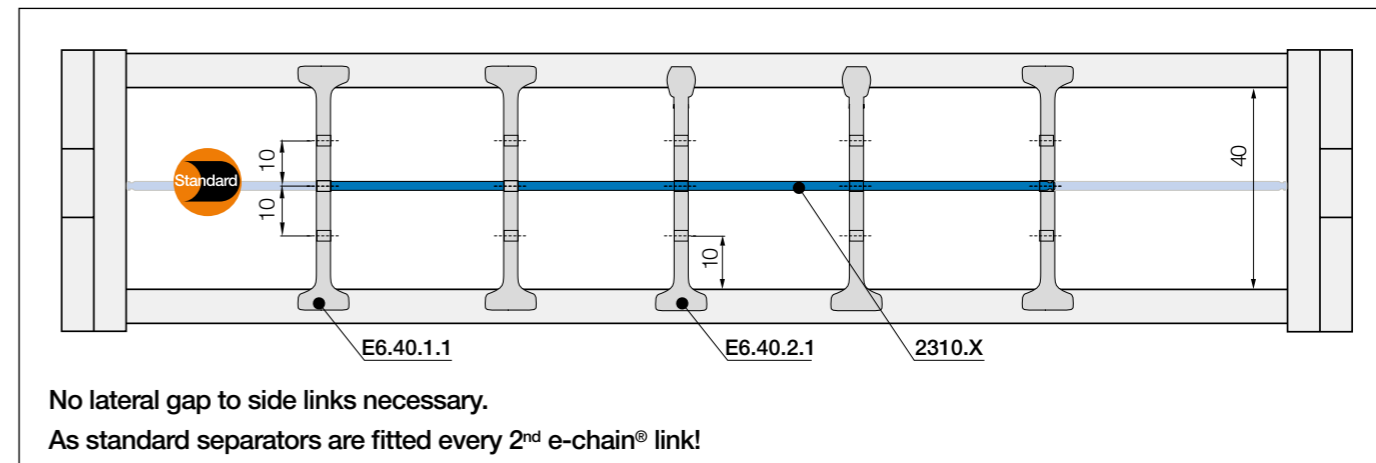
*Width available upon request. Please consult igus® for delivery time.

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



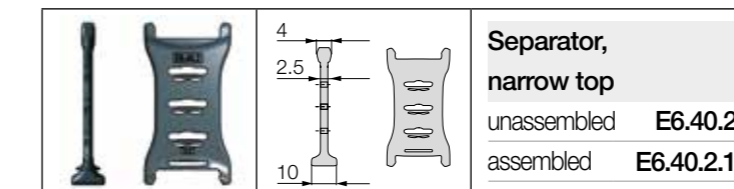
Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Previous generation of interior separation with other options ▶ www.igus.eu/E6.40



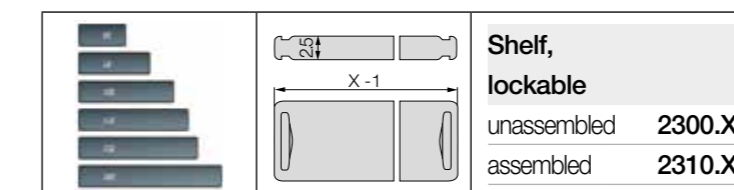
Standard - for any application

Separator with a wide base for maximum holding force in the e-chain®.



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 [mm]



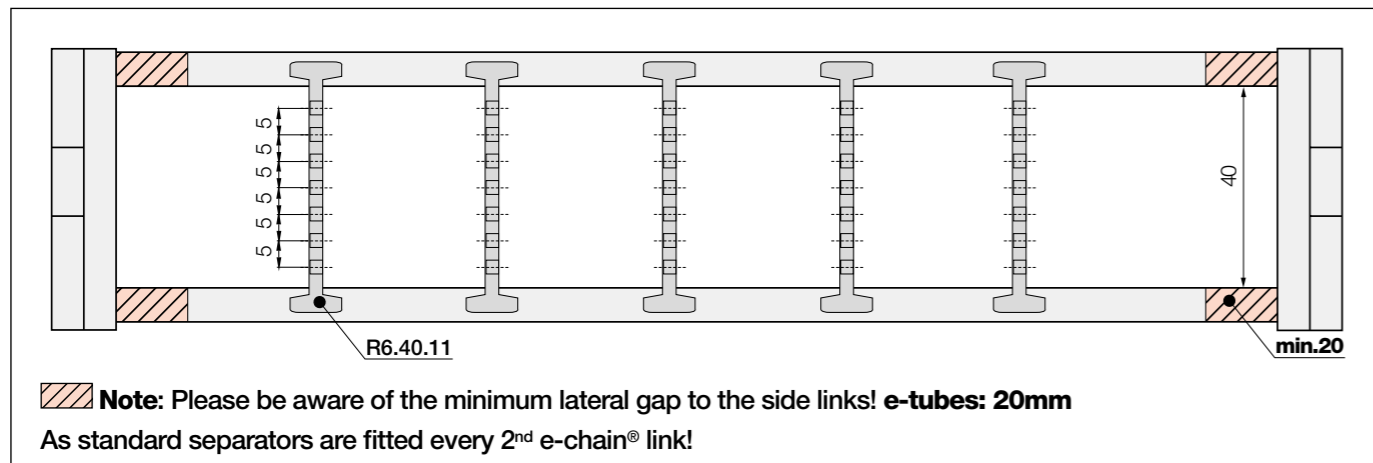
X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
015	2300.015	2310.015	060	2300.060	2310.060	087	2300.87	2310.087
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.90	2310.090
030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100
038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103
040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110
050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120
057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125

Separator with integrated strain relief teeth

- Can be integrated into the mounting bracket or placed at any point in the e-chain®
 - Combines strain relief and interior separation, for restricted space conditions
 - Strain relief separator is easy to assemble without any screws
- E6.40.02.Z. More information ▶ From page 1326**



Previous generation of interior separation with other options ► www.igus.eu/R6.40



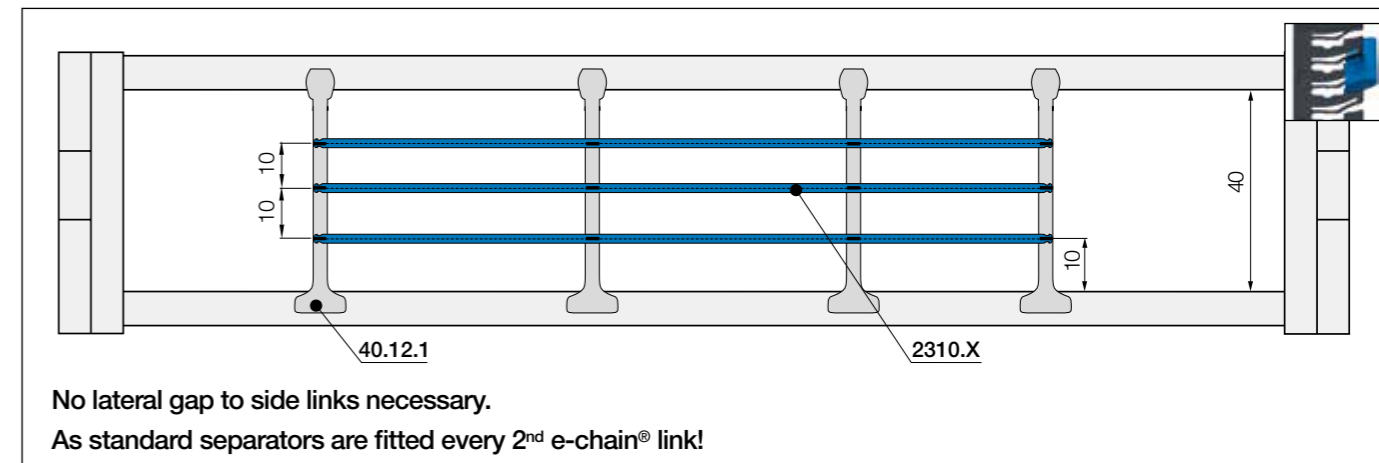
		Separator, for e-tubes unassembled R6.40.01 assembled R6.40.11
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Separator for e-tubes
 Notches on the separator indicate the clamping side of the separator. The notches on this separator mark the side that fixes to the lid.

		Full-width shelf for e-tubes unassembled 110.X assembled 111.X
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Full-width shelf for e-tubes
 This option is for applications with many small cables with similar diameters. Full-width shelf for full width separation.

Full-width shelves Width = X [mm]	X [mm]		X [mm]		X [mm]	
	unassembled	assembled	unassembled	assembled	unassembled	assembled
	030	110.30	111.30	070	110.70	111.70
	040	110.40	111.40	080	110.80	111.80
	050	110.50	111.50	090	110.90	111.90
	060	110.60	111.60	100	110.100	111.100

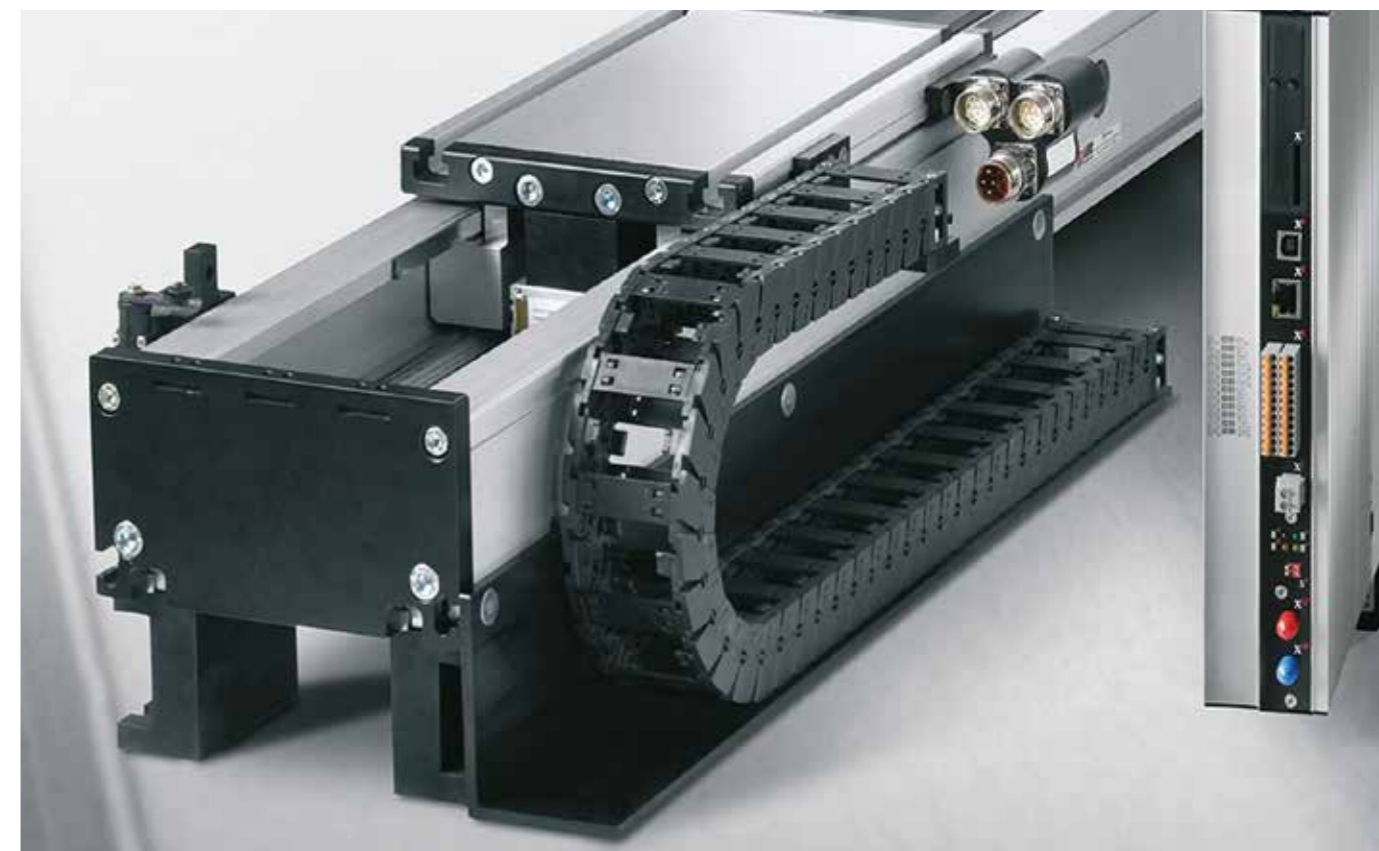


		Lean separator* unassembled 40.12 assembled 40.12.1
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Lean separators*
 New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

*Only for e-chains®

Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time
 (*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)



igus® system E6 on a linear drive for extremely high accelerations (over 10m/s²)



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.	Bi	Ba	E6.52	R6.52	Part No.	Part No.	Bi	Ba	E6.52	R6.52
e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]	e-chains®	e-tubes	[mm]	[mm]	[kg/m]	[kg/m]
E6.52. 040. R.0	R6.52.*040. R.0	40	64	≈ 1.76	≈ 1.78	E6.52. 125. R.0	R6.52. 125. R.0	125	149	≈ 2.07	≈ 2.57
E6.52. 050. R.0	R6.52. 050. R.0	50	74	≈ 1.80	≈ 1.89	E6.52. 150. R.0	R6.52. 150. R.0	150	174	≈ 2.17	≈ 2.80
E6.52. 052. R.0	R6.52.*052. R.0	52	66	≈ 1.81	≈ 1.92	E6.52. 175. R.0	R6.52. 175. R.0	175	199	≈ 2.26	≈ 3.03
E6.52. 062. R.0	R6.52.*062. R.0	62	86	≈ 1.84	≈ 1.97	E6.52. 200. R.0	R6.52. 200. R.0	200	224	≈ 2.36	≈ 3.25
E6.52. 070. R.0	R6.52.*070. R.0	70	94	≈ 1.87	≈ 2.07	E6.52. 225. R.0	R6.52.*225. R.0	225	249	≈ 2.45	≈ 3.46
E6.52. 075. R.0	R6.52. 075. R.0	75	99	≈ 1.89	≈ 2.12	E6.52. 250. R.0	R6.52.*250. R.0	250	274	≈ 2.54	≈ 3.68
E6.52. 087. R.0	R6.52.*087. R.0	87	111	≈ 1.94	≈ 2.21	E6.52. 275. R.0	R6.52.*275. R.0	275	299	≈ 2.64	≈ 3.92
E6.52. 100. R.0	R6.52. 100. R.0	100	124	≈ 1.98	≈ 2.35	E6.52. 300. R.0	R6.52.*300. R.0	300	324	≈ 2.73	≈ 4.15

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

Available bend radii

R [mm] | 075 | 100 | 125 | 150 | 200 | 250 |

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

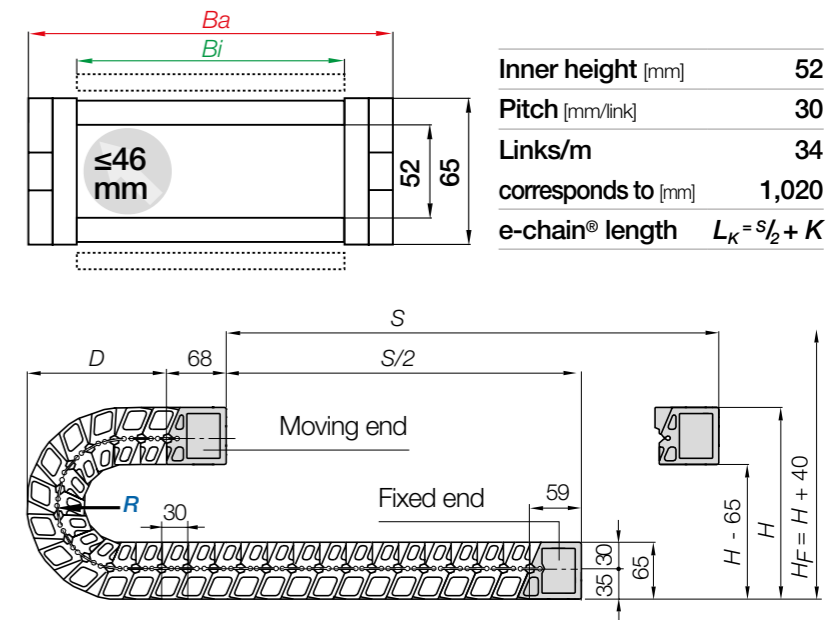
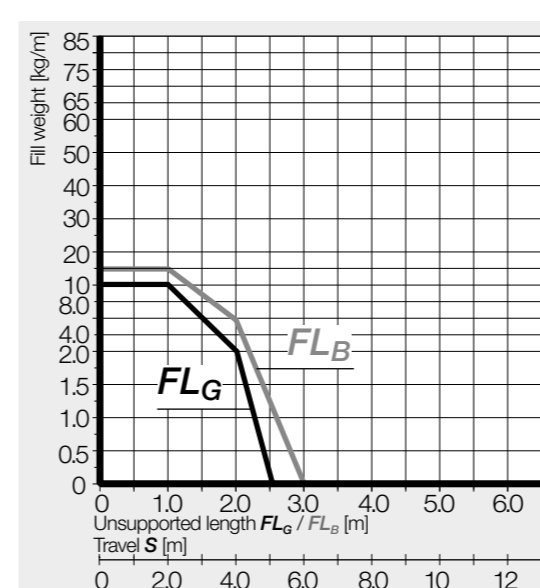
E6.52.100.100.0 = e-chain® / R6.52.100.100.0 = e-tube



Installation note - system E6

Open by removing the crossbar with a screwdriver.
 Repeat the procedure on the other side.

Assembly video available online at ► www.igus.eu/E6_assembly



R	075	100	125	150	200	250
H	270	320	365	420	520	620
D	155	180	203	230	280	330
K	300	375	455	535	690	850

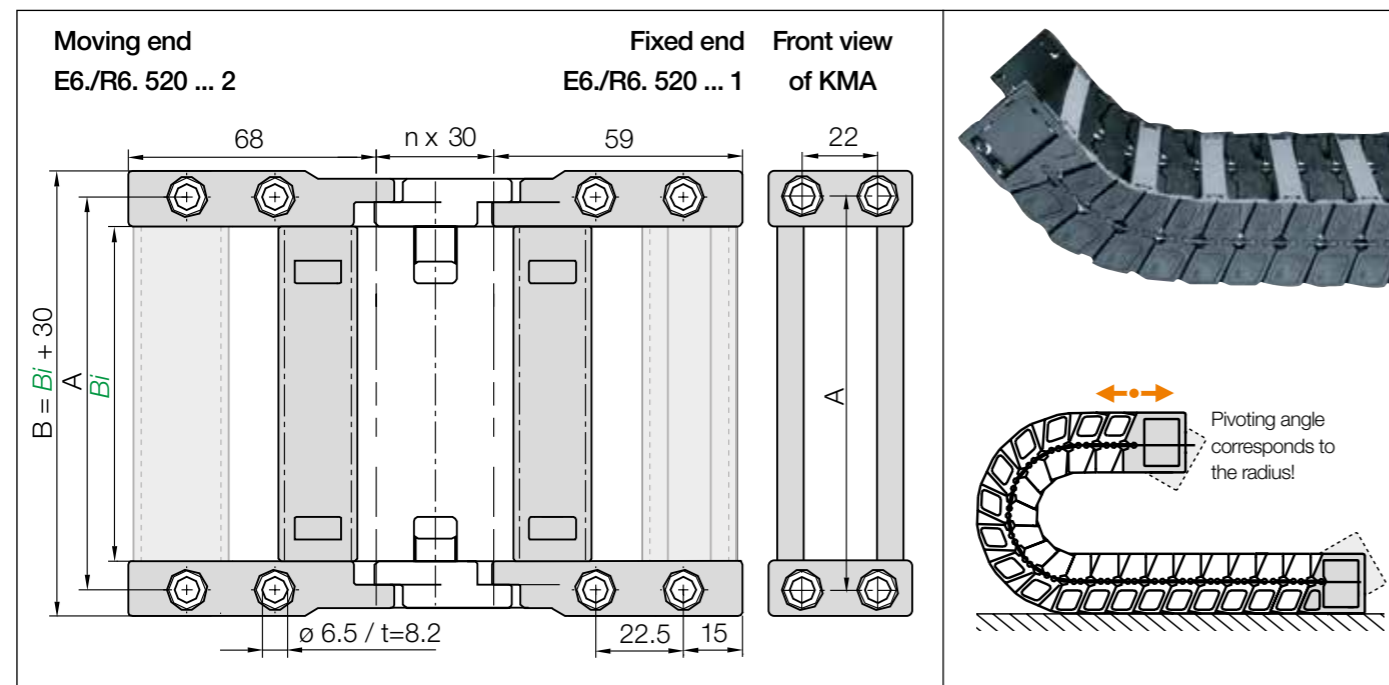
The required clearance height: $H_F = H + 40\text{mm}$ (with 2.0kg/m fill weight)

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 1264



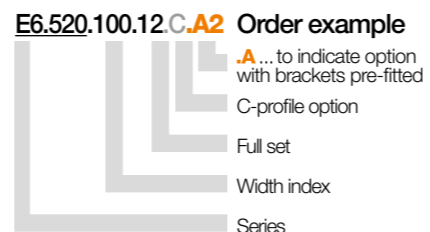
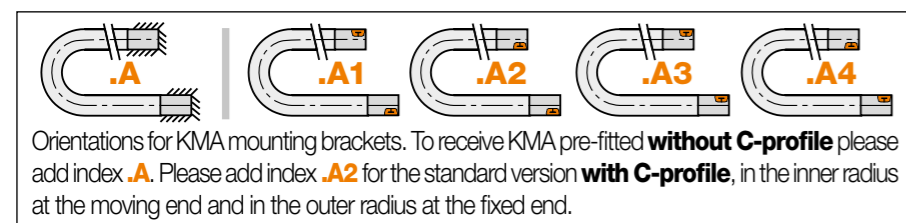


KMA pivoting | Recommended for unsupported applications

Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]	Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]
040.	E6.520. R6.520.* 040.12.C	56	70	40	125.	E6.520. R6.520. 125.12.C	141	155	125
050.	E6.520. R6.520. 050.12.C	66	80	50	150.	E6.520. R6.520. 150.12.C	166	180	150
052.	E6.520. R6.520.* 052.12.C	68	82	52	175.	E6.520. R6.520. 175.12.C	191	205	175
062.	E6.520. R6.520.* 062.12.C	78	92	62	200.	E6.520. R6.520. 200.12.C	216	230	200
070.	E6.520. R6.520.* 070.12.C	86	100	70	225.	E6.520. R6.520.* 225.12.C	241	255	225
075.	E6.520. R6.520. 075.12.C	91	105	75	250.	E6.520. R6.520.* 250.12.C	266	280	250
087.	E6.520. R6.520.* 087.12.C	103	117	87	275.	E6.520. R6.520.* 275.12.C	291	300	275
100.	E6.520. R6.520. 100.12.C	116	130	100	300.	E6.520. R6.400.* 300.12.C	316	330	300

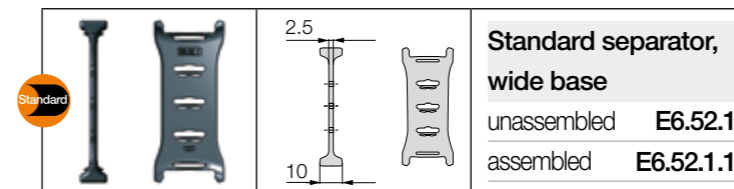
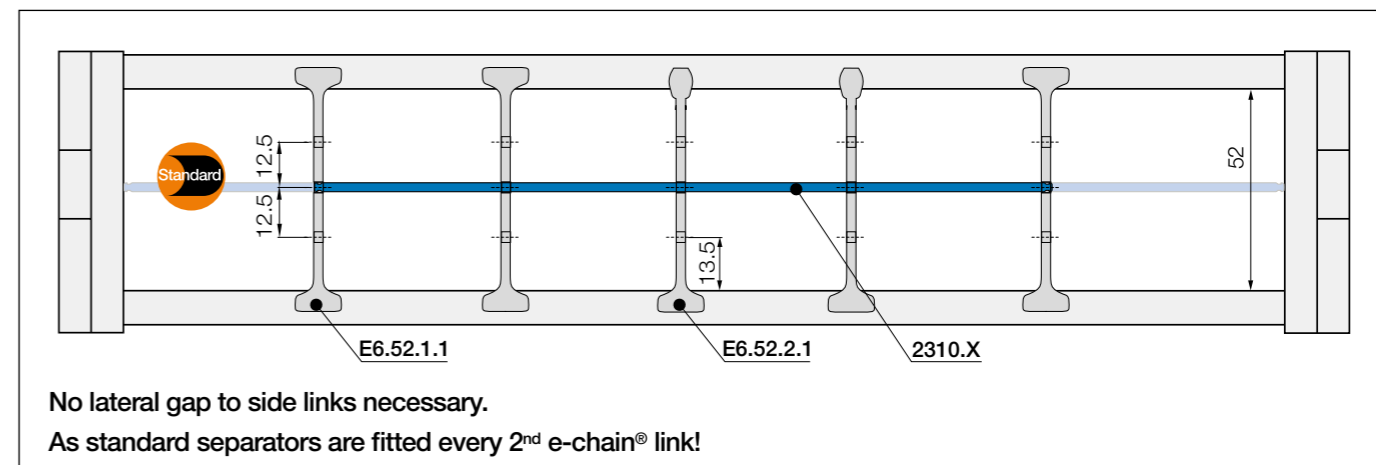
*Width available upon request. Please consult igus® for delivery time.

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

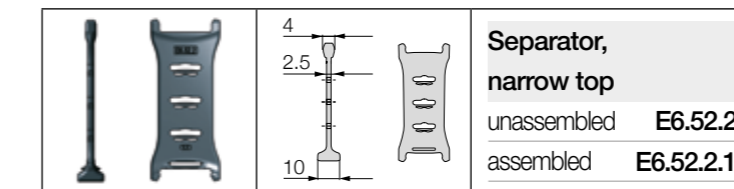


Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

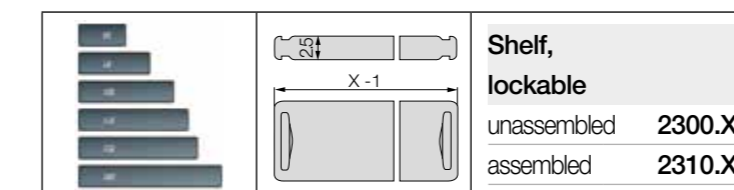
Previous generation of interior separation with other options ► www.igus.eu/E6.52



Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.



For even faster installation
Wide on one side for high holding force, narrow on opposite side for easy cable fitting.



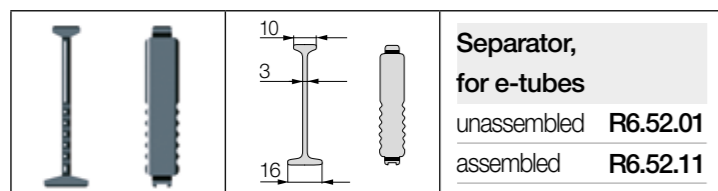
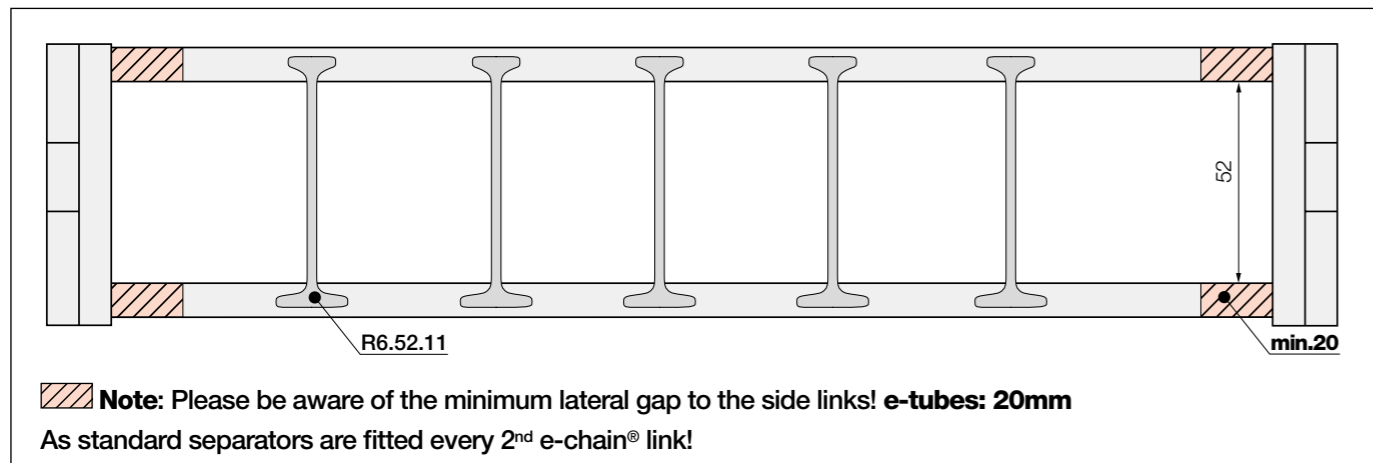
Horizontal separation
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

Width = X [mm]

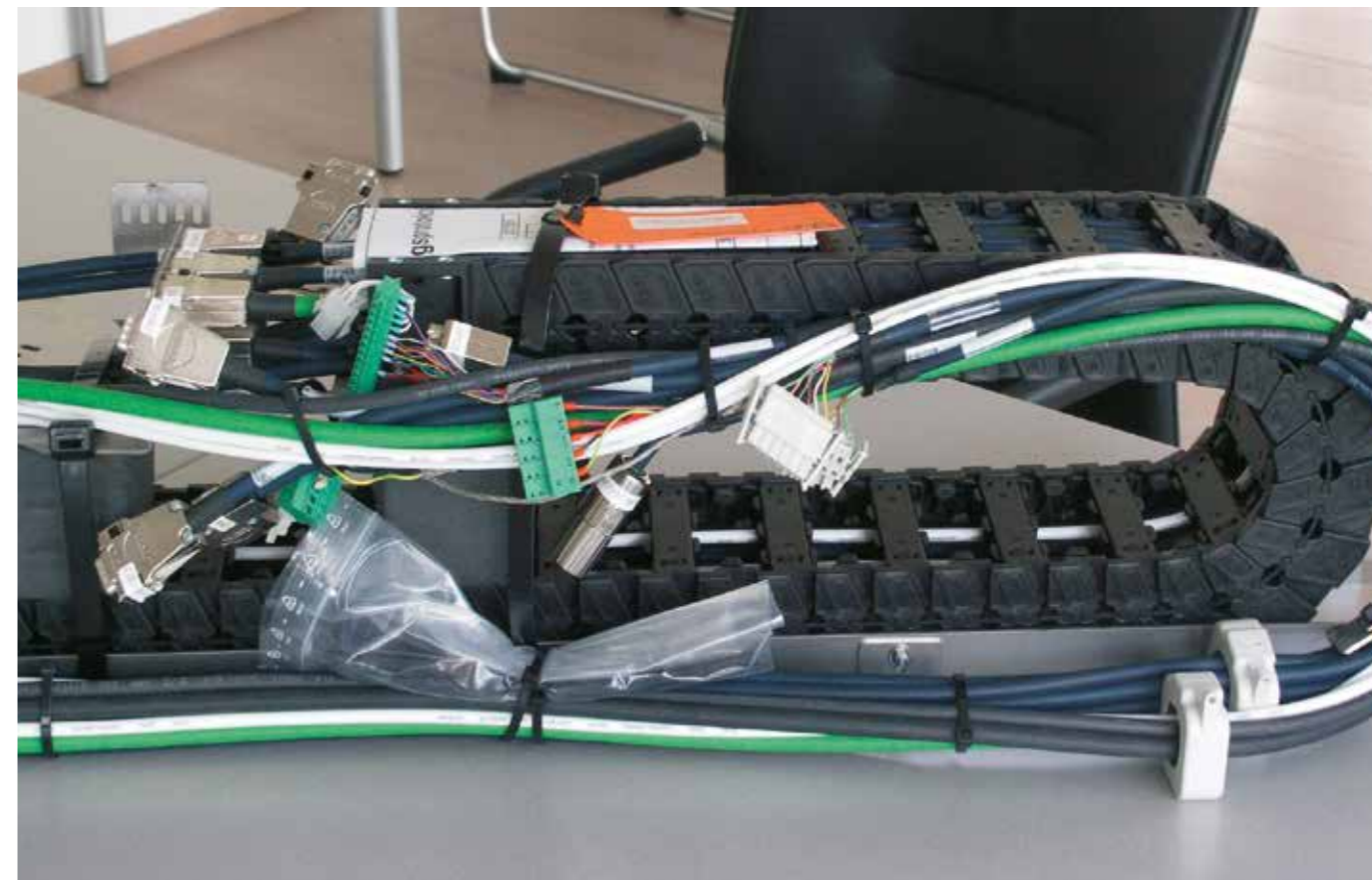


X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
015	2300.015	2310.015	060	2300.060	2310.060	087	2300.87	2310.087
025	2300.025	2310.025	062	2300.062	2310.062	090	2300.90	2310.090
030	2300.030	2310.030	065	2300.065	2310.065	100	2300.100	2310.100
038	2300.038	2310.038	070	2300.070	2310.070	103	2300.103	2310.103
040	2300.040	2310.040	075	2300.075	2310.075	110	2300.110	2310.110
050	2300.050	2310.050	077	2300.077	2310.077	120	2300.120	2310.120
057	2300.057	2310.057	080	2300.080	2310.080	125	2300.125	2310.125



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.



Preassembled 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®



... E6.62

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

Part No.	<i>Bi</i>	<i>Ba</i>	E6.62	Part No.	<i>Bi</i>	<i>Ba</i>	E6.62
e-chains®	[mm]	[mm]	[kg/m]	e-chains®	[mm]	[mm]	[kg/m]
E6.62. 05. R.0	50	86	3.22	E6.62. 212. R.0	212	248	3.78
E6.62. 06. R.0	68	104	3.28	E6.62. 23. R.0	225	261	3.83
E6.62. 07. R.0	75	111	3.31	E6.62. 237. R.0	237	273	3.87
E6.62. 087. R.0	87	123	3.35	E6.62. 25. R.0	250	286	3.91
E6.62. 097. R.0	97	133	3.38	E6.62. 262. R.0	262	298	3.95
E6.62. 10. R.0	100	136	3.39	E6.62. 28. R.0	275	311	4.00
E6.62. 11. R.0	108	144	3.42	E6.62. 29. R.0	287	323	4.04
E6.62. 112. R.0	112	148	3.43	E6.62. 30. R.0	300	336	4.09
E6.62. 12. R.0	125	161	3.48	E6.62. 312. R.0	312	348	4.13
E6.62. 137. R.0	137	173	3.52	E6.62. 325. R.0	325	361	4.17
E6.62. 15. R.0	150	186	3.57	E6.62. 337. R.0	337	373	4.21
E6.62. 162. R.0	162	198	3.61	E6.62. 350. R.0	350	386	4.26
E6.62. 17. R.0	168	204	3.63	E6.62. 362. R.0	362	398	4.30
E6.62. 18. R.0	175	211	3.65	E6.62. 375. R.0	375	411	4.35
E6.62. 187. R.0	187	223	3.69	E6.62. 387. R.0	387	423	4.39
E6.62. 20. R.0	200	236	3.74	E6.62. 400. R.0	400	436	4.43

Available bend radii

R [mm] | 115 | 150 | 200 | 250 | 300 | 350 |Complete Part No. with required radius (*R*). Example: E6.62.10.250.0

Installation note - system E6

Open by removing the crossbar with a screwdriver.
Repeat the procedure on the other side.

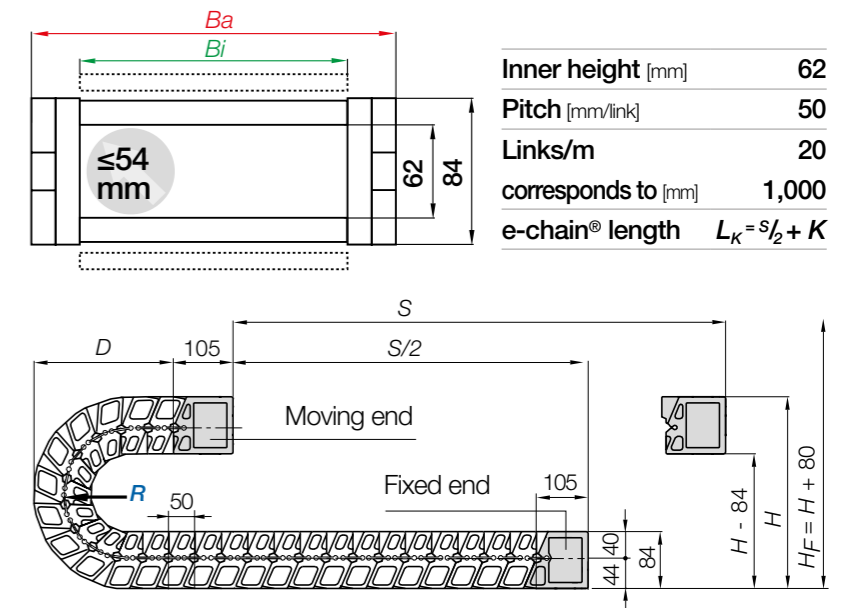
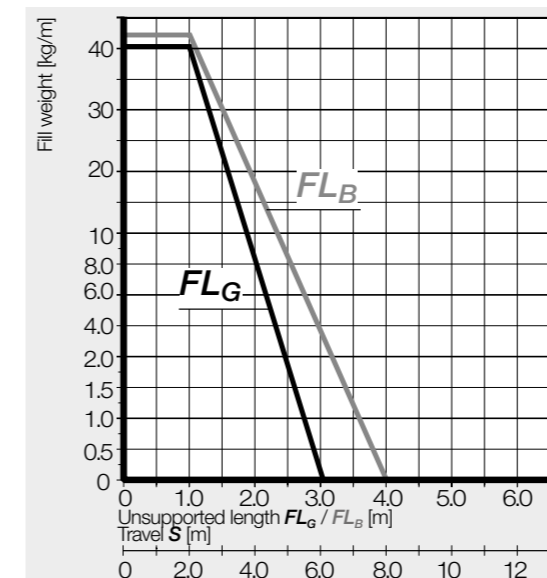
Assembly video available online at ► www.igus.eu/E6_assembly



► 1300

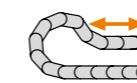


► 1230



<i>R</i>	115	150	200	250	300	350
<i>H</i>	388	458	558	658	758	858
<i>D</i>	234	269	319	369	419	469
<i>K</i>	465	575	730	890	1,045	1,200

The required clearance height: $H_F = H + 80\text{mm}$ (with 2.0kg/m fill weight)



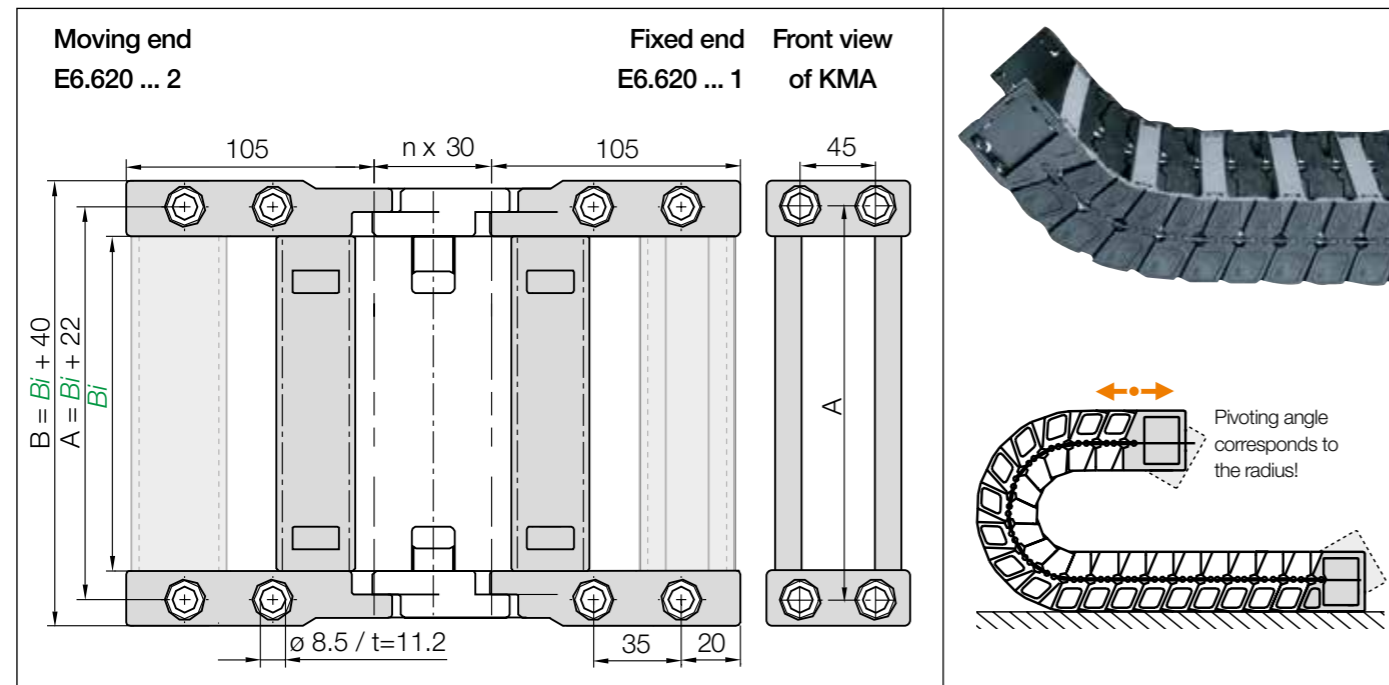
i If a gliding application is required for a long travel, please consult igus®.

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 1264

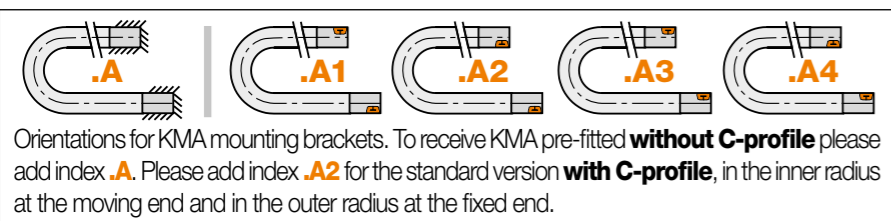




KMA pivoting | Recommended for unsupported applications

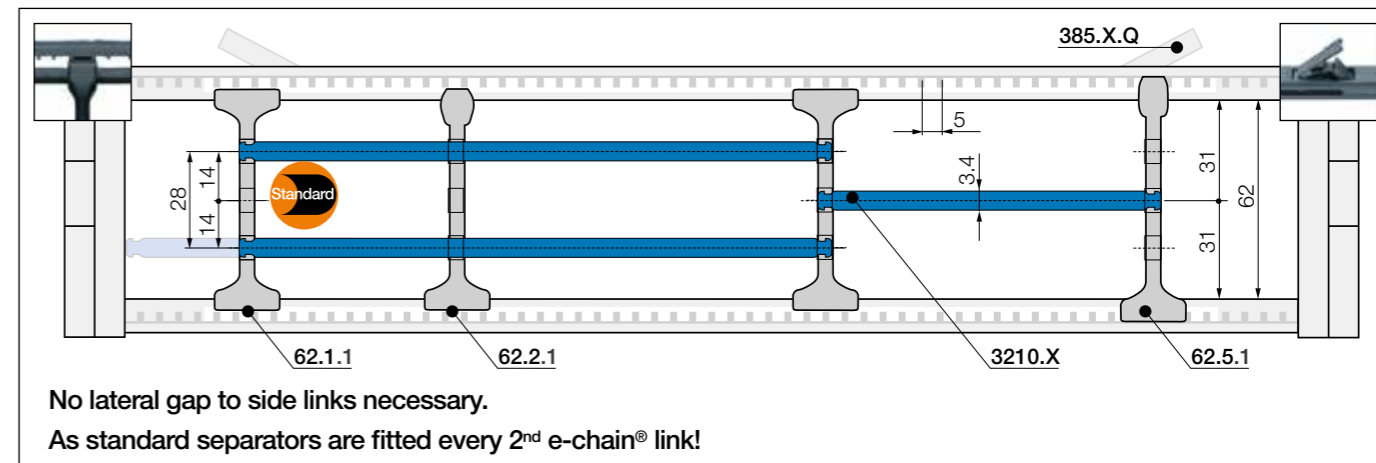
Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]	Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]
05.	E6.620. 05. 12.C	72	90	50	212.	E6.620. 212.12.C	234	252	212
06.	E6.620. 06. 12.C	90	108	68	23.	E6.620. 23. 12.C	247	265	225
07.	E6.620. 07. 12.C	97	115	75	237.	E6.620. 237.12.C	259	277	237
087.	E6.620. 087.12.C	109	127	87	25.	E6.620. 25. 12.C	272	290	250
097.	E6.620. 097.12.C	119	137	97	262.	E6.620. 262.12.C	284	302	262
10.	E6.620. 10. 12.C	122	140	100	28.	E6.620. 28. 12.C	297	315	275
11.	E6.620. 11. 12.C	130	148	108	29.	E6.620. 29. 12.C	309	327	287
112.	E6.620. 112.12.C	134	152	112	30.	E6.620. 30. 12.C	322	340	300
12.	E6.620. 12. 12.C	147	165	125	312.	E6.620. 312.12.C	334	352	312
137.	E6.620. 137.12.C	159	177	137	325.	E6.620. 325.12.C	347	365	325
15.	E6.620. 15. 12.C	172	190	150	337.	E6.620. 337.12.C	359	377	337
162.	E6.620. 162.12.C	184	202	162	350.	E6.620. 350.12.C	372	390	350
17.	E6.620. 17. 12.C	190	208	168	362.	E6.620. 362.12.C	384	402	362
18.	E6.620. 18. 12.C	197	215	175	375.	E6.620. 375.12.C	397	415	375
187.	E6.620. 187.12.C	209	227	187	387.	E6.620. 387.12.C	409	427	387
20.	E6.620. 20. 12.C	222	240	200	400.	E6.620. 400.12.C	422	440	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 plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Previous generation of interior separation with other options ► www.igus.eu/E6.62






Standard separator, wide base

unassembled **62.1**

assembled **62.1.1**

Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.




Separator for QuickLock crossbar

unassembled **62.2**

assembled **62.2.1**

For even faster installation
Separator for igus® QuickLock crossbar **385.X.Q**. Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

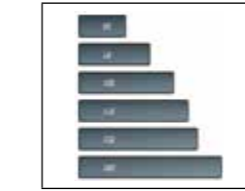


Notch separator for notched crossbar

unassembled **62.5**

assembled **62.5.1**

Locks securely in preset increments
Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.



Shelf, lockable

unassembled **3200.X**

assembled **3210.X**

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 [mm]	X [mm]		X [mm]		X [mm]			
	unassembled	assembled	unassembled	assembled	unassembled	assembled		
050	3200.050	3210.050	125	3200.125	3210.125	225	3200.225	3210.225
075	3200.075	3210.075	150	3200.150	3210.150	250	3200.250	3210.250
100	3200.100	3210.100	175	3200.175	3210.175			
115	3200.115	3210.115	200	3200.200	3210.200			



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

Part No.	<i>Bi</i>	<i>Ba</i>	E6.80L	Part No.	<i>Bi</i>	<i>Ba</i>	E6.80L
e-chains®	[mm]	[mm]	[kg/m]	e-chains®	[mm]	[mm]	[kg/m]
E6.80L. 08. R.0	87	115	3.28	E6.80L. 32. R.0	325	353	4.38
E6.80L. 10. R.0	100	128	3.33	E6.80L. 33. R.0	337	365	4.44
E6.80L. 11. R.0	112	140	3.38	E6.80L. 35. R.0	350	378	4.50
E6.80L. 12. R.0	125	153	3.43	E6.80L. 36. R.0	362	390	4.56
E6.80L. 13. R.0	137	165	3.49	E6.80L. 37. R.0	375	403	4.62
E6.80L. 15. R.0	150	178	3.55	E6.80L. 38. R.0	387	415	4.68
E6.80L. 16. R.0	162	190	3.61	E6.80L. 40. R.0	400	428	4.74
E6.80L. 17. R.0	175	203	3.67	E6.80L. 41. R.0	412	440	4.80
E6.80L. 18. R.0	187	215	3.73	E6.80L. 42. R.0	425	453	4.85
E6.80L. 20. R.0	200	228	3.79	E6.80L. 43. R.0	437	465	4.92
E6.80L. 21. R.0	212	240	3.85	E6.80L. 45. R.0	450	478	5.03
E6.80L. 22. R.0	225	253	3.91	E6.80L. 46. R.0	462	490	5.09
E6.80L. 23. R.0	237	265	3.97	E6.80L. 47. R.0	475	503	5.15
E6.80L. 25. R.0	250	278	4.02	E6.80L. 48. R.0	487	515	5.21
E6.80L. 26. R.0	262	290	4.09	E6.80L. 50. R.0	500	528	5.27
E6.80L. 27. R.0	275	303	4.14	E6.80L. 51. R.0	512	540	5.33
E6.80L. 28. R.0	287	315	4.20	E6.80L. 52. R.0	525	553	5.39
E6.80L. 30. R.0	300	328	4.26	E6.80L. 53. R.0	537	565	5.45
E6.80L. 31. R.0	312	340	4.32	E6.80L. 55. R.0	550	578	5.51

Available bend radii

R [mm] | 150 | 175 | 200 | 250 | 300 |

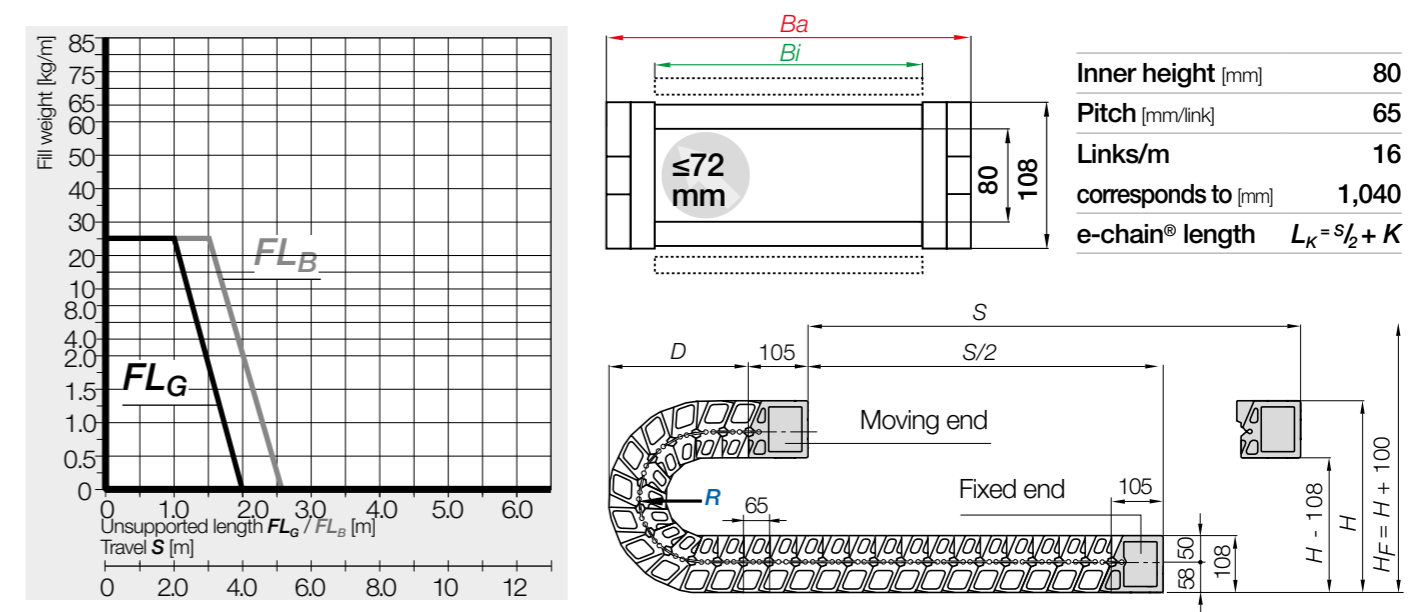
Complete Part No. with required radius (*R*). Example: **E6.80L.10.175.0**



Installation note - system E6

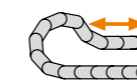
Open by removing the crossbar with a screwdriver.
Repeat the procedure on the other side.

Assembly video available online at ► www.igus.eu/E6_assembly



<i>R</i>	150	175	200	250	300
<i>H</i>	516	566	616	716	816
<i>D</i>	306	331	356	406	456
<i>K</i>	605	680	760	915	1,075

The required clearance height: $H_F = H + 100\text{mm}$ (with 5.0kg/m fill weight)

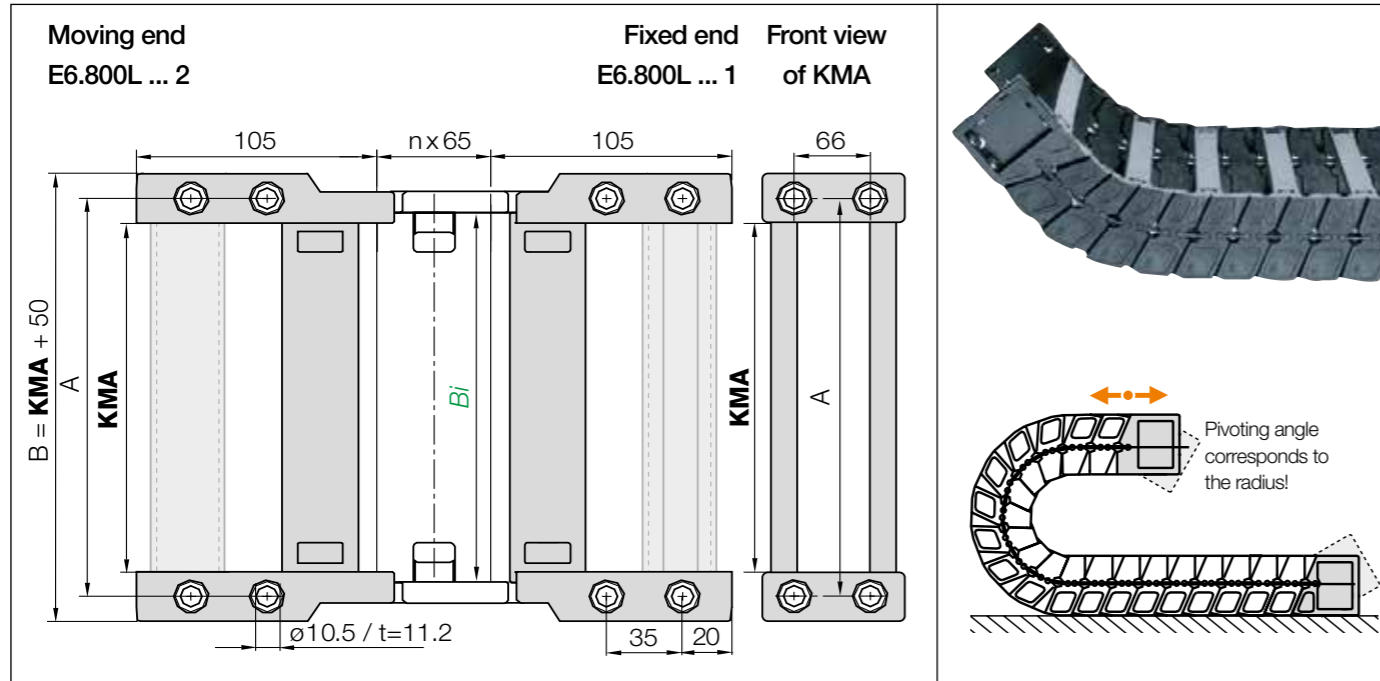


i If a gliding application is required for a long travel, please consult igus®.

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 1264

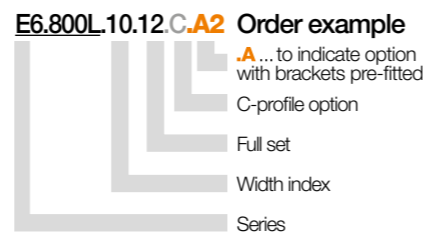
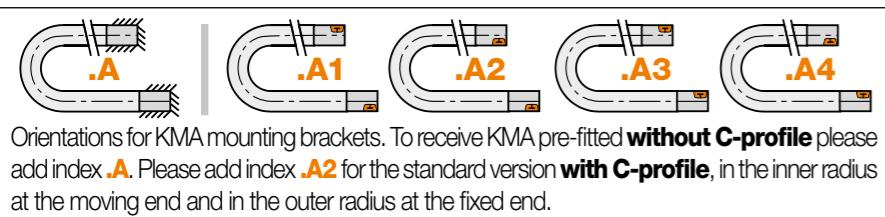




KMA pivoting | Recommended for unsupported applications

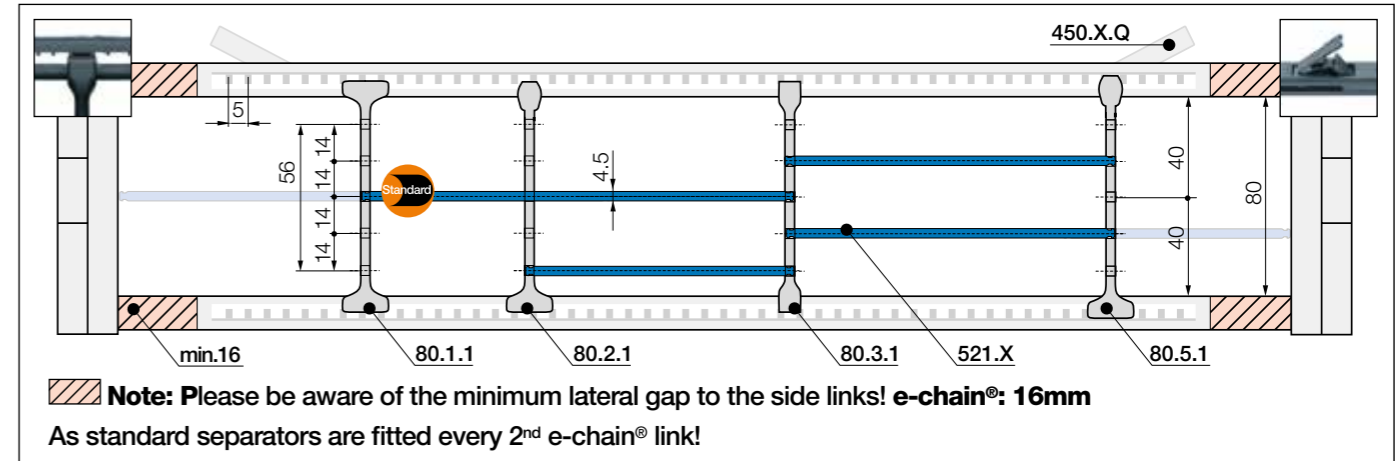
Width index	Part No. full set KMA pivoting	A [mm]	KMA [mm]	Width index	Part No. full set KMA pivoting	A [mm]	KMA [mm]
08.	E6.800L.08. 12.C	103	75	32.	E6.800L.32. 12.C	340	312
10.	E6.800L.10. 12.C	115	87	33.	E6.800L.33. 12.C	353	325
11.	E6.800L.11. 12.C	128	100	35.	E6.800L.35. 12.C	365	337
12.	E6.800L.12. 12.C	140	112	36.	E6.800L.36. 12.C	378	350
13.	E6.800L.13. 12.C	153	125	37.	E6.800L.37. 12.C	390	362
15.	E6.800L.15. 12.C	165	137	38.	E6.800L.38. 12.C	403	375
16.	E6.800L.16. 12.C	178	150	40.	E6.800L.40. 12.C	415	387
17.	E6.800L.17. 12.C	190	162	41.	E6.800L.41. 12.C	428	400
18.	E6.800L.18. 12.C	203	175	42.	E6.800L.42. 12.C	440	412
20.	E6.800L.20. 12.C	215	187	43.	E6.800L.43. 12.C	453	425
21.	E6.800L.21. 12.C	228	200	45.	E6.800L.45. 12.C	465	437
22.	E6.800L.22. 12.C	240	212	46.	E6.800L.46. 12.C	478	450
23.	E6.800L.23. 12.C	253	225	47.	E6.800L.47. 12.C	490	462
25.	E6.800L.25. 12.C	265	237	48.	E6.800L.48. 12.C	503	475
26.	E6.800L.26. 12.C	278	250	50.	E6.800L.50. 12.C	515	487
27.	E6.800L.27. 12.C	290	262	51.	E6.800L.51. 12.C	528	500
28.	E6.800L.28. 12.C	303	275	52.	E6.800L.52. 12.C	540	512
30.	E6.800L.30. 12.C	315	287	53.	E6.800L.53. 12.C	553	525
31.	E6.800L.31. 12.C	328	300	55.	E6.800L.55. 12.C	565	537

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



Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Previous generation of interior separation with other options ► www.igus.eu/E6.80L



		Standard separator, wide base unassembled 80.1 assembled 80.1.1
		Separator for QuickLock crossbar unassembled 80.2 assembled 80.2.1
		Separator, narrow unassembled 80.3 assembled 80.3.1
		Notch separator for notched crossbar unassembled 80.5 assembled 80.5.1
		Shelf, lockable unassembled 520.X assembled 521.X

Standard - for any application

Separator with a wide base for maximum holding force in the e-chain®.

For even faster installation

Separator for igus® QuickLock crossbar 450.X.Q. Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

For small cables

Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®. Also available for QuickLock crossbars.

Locks securely in preset increments

Notch separator for exact positioning in e-chains®. Recommended for side-mounted applications.

Horizontal separation

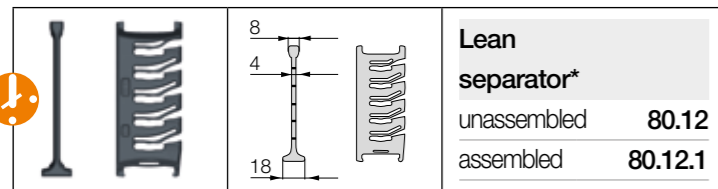
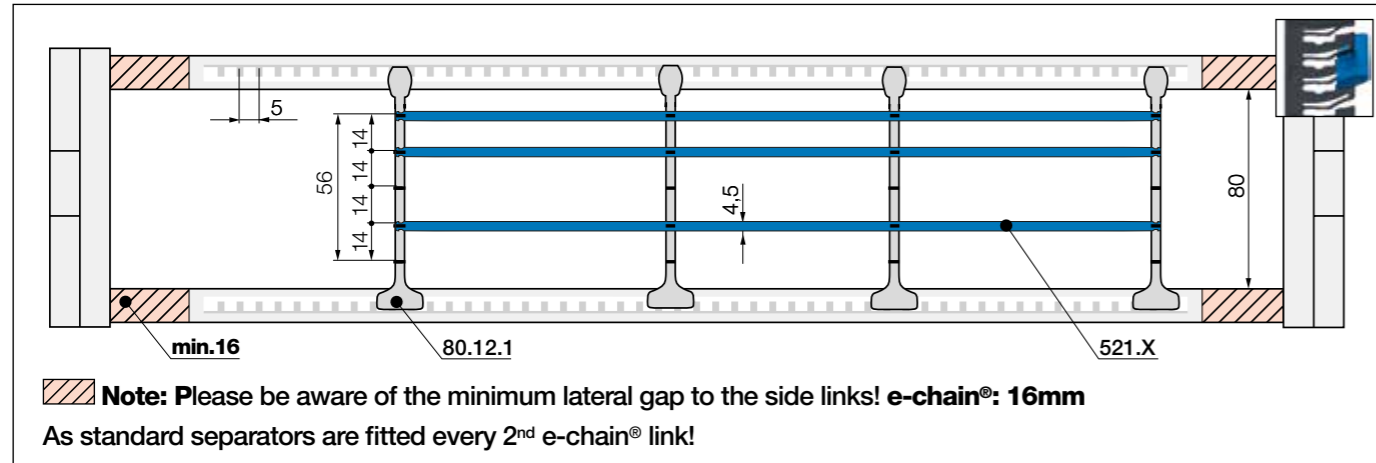
Full-width shelf locks securely into separators at both ends, giving a fixed width. Can be used as full-width or partial shelf.

Shelves

Width = X [mm]



X [mm]	unassembled	assembled	X [mm]	unassembled	assembled	X [mm]	unassembled	assembled
050	520.050	521.050	150	520.150	521.150	300	520.300	521.300
065	520.065	521.065	175	520.175	521.175	350	520.350	521.350
075	520.075	521.075	200	520.200	521.200	375	520.375	520.375
100	520.100	521.100	225	520.225	521.225	387	520.387	520.387
125	520.125	521.125	250	520.250	521.250	450	520.450	521.450



Lean separators*

New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

*Only for e-chains®



Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time

(*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)



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



... E6.80

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

Part No. e-chains®	Bi [mm]	Ba [mm]	E6.80 [kg/m]	Part No. e-chains®	Bi [mm]	Ba [mm]	E6.80 [kg/m]
E6.80. 05. R.0	50	100	5.21	E6.80. 31. R.0	312	362	6.45
E6.80. 06. R.0	65	115	5.28	E6.80. 32. R.0	325	375	6.51
E6.80. 07. R.0	75	125	5.33	E6.80. 33. R.0	337	387	6.57
E6.80. 08. R.0	87	137	5.38	E6.80. 35. R.0	350	400	6.63
E6.80. 10. R.0	100	150	5.45	E6.80. 36. R.0	362	412	6.69
E6.80. 11. R.0	112	162	5.50	E6.80. 37. R.0	375	425	6.75
E6.80. 12. R.0	125	175	5.57	E6.80. 38. R.0	387	437	6.80
E6.80. 13. R.0	137	187	5.62	E6.80. 40. R.0	400	450	6.88
E6.80. 15. R.0	150	200	5.68	E6.80. 41. R.0	412	462	6.92
E6.80. 16. R.0	162	212	5.74	E6.80. 42. R.0	425	475	6.99
E6.80. 17. R.0	175	225	5.80	E6.80. 43. R.0	437	487	7.04
E6.80. 18. R.0	187	237	5.86	E6.80. 45. R.0	450	500	7.10
E6.80. 20. R.0	200	250	5.92	E6.80. 46. R.0	462	512	7.16
E6.80. 21. R.0	212	262	5.98	E6.80. 47. R.0	475	525	7.22
E6.80. 22. R.0	225	275	6.04	E6.80. 48. R.0	487	537	7.28
E6.80. 23. R.0	237	287	6.10	E6.80. 50. R.0	500	550	7.34
E6.80. 25. R.0	250	300	6.16	E6.80. 51. R.0	512	562	7.40
E6.80. 26. R.0	262	312	6.21	E6.80. 52. R.0	525	575	7.46
E6.80. 27. R.0	275	325	6.28	E6.80. 53. R.0	537	587	7.52
E6.80. 28. R.0	287	337	6.33	E6.80. 55. R.0	550	600	7.58
E6.80. 30. R.0	300	350	6.39	E6.80. 60. R.0	600	650	7.81

Available bend radii

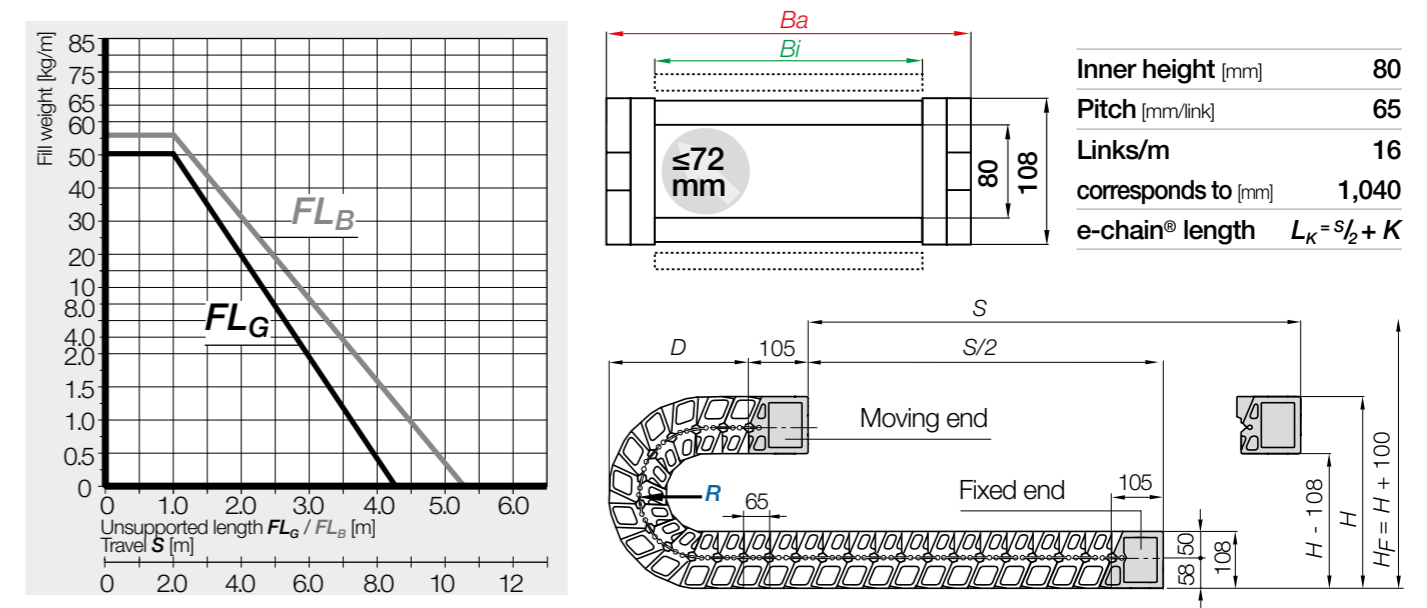
R [mm] | 150 | 200 | 250 | 300 | 350 | 400 | 450 |

Complete Part No. with required radius (R). Example: E6.80.10.300.0

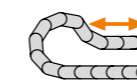


Installation note - system E6

Open by removing the crossbar with a screwdriver.
Repeat the procedure on the other side.

Assembly video available online at ► www.igus.eu/E6_assembly

	150	200	250	300	350	400	450
R	150	200	250	300	350	400	450
H	516	616	716	816	916	1,016	1,116
D	306	356	406	456	506	556	606
K	605	760	920	1,075	1,230	1,390	1,545

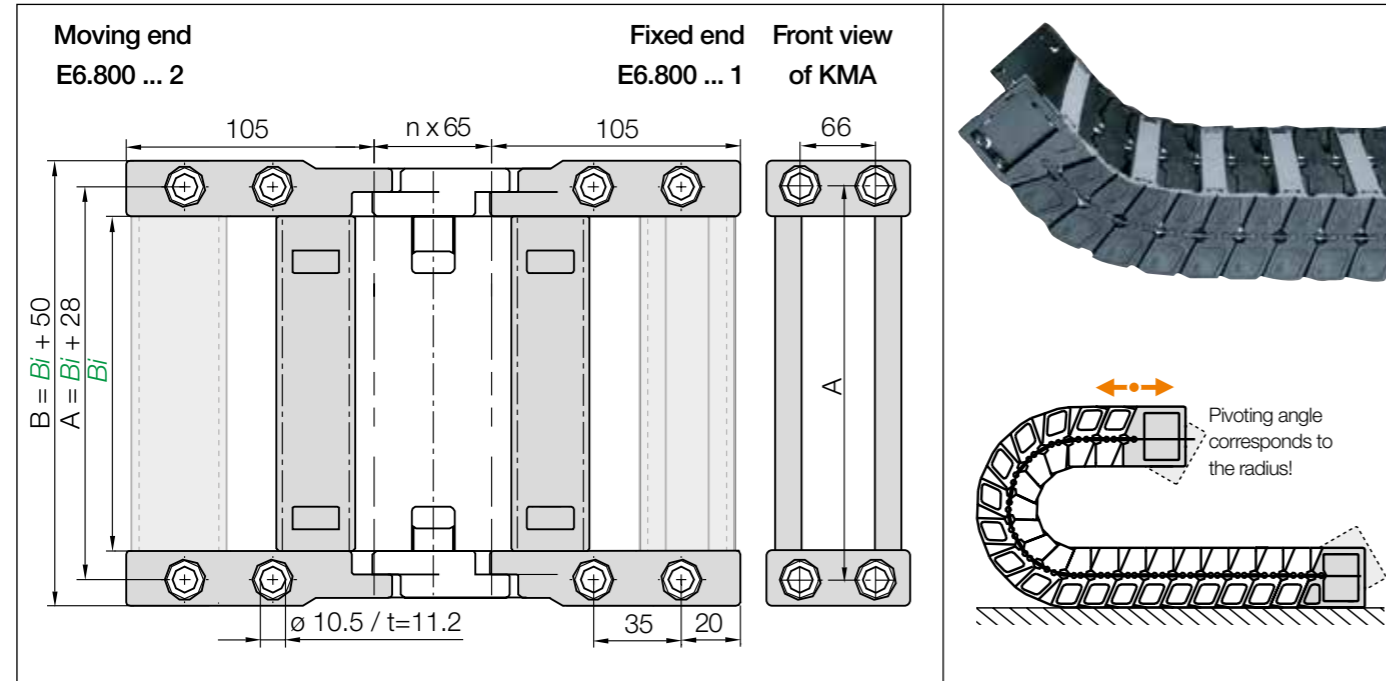
The required clearance height: $H_F = H + 100\text{mm}$ (with 5.0kg/m fill weight)

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 1264

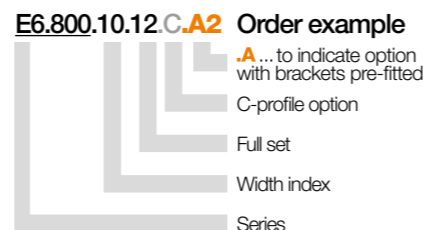
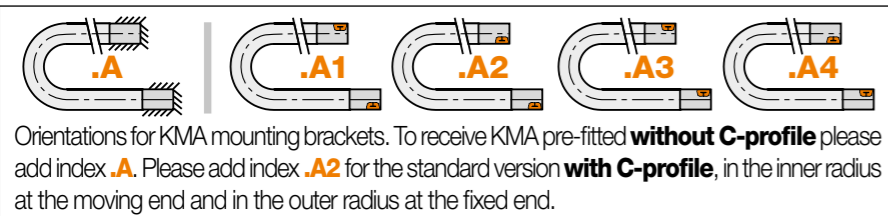




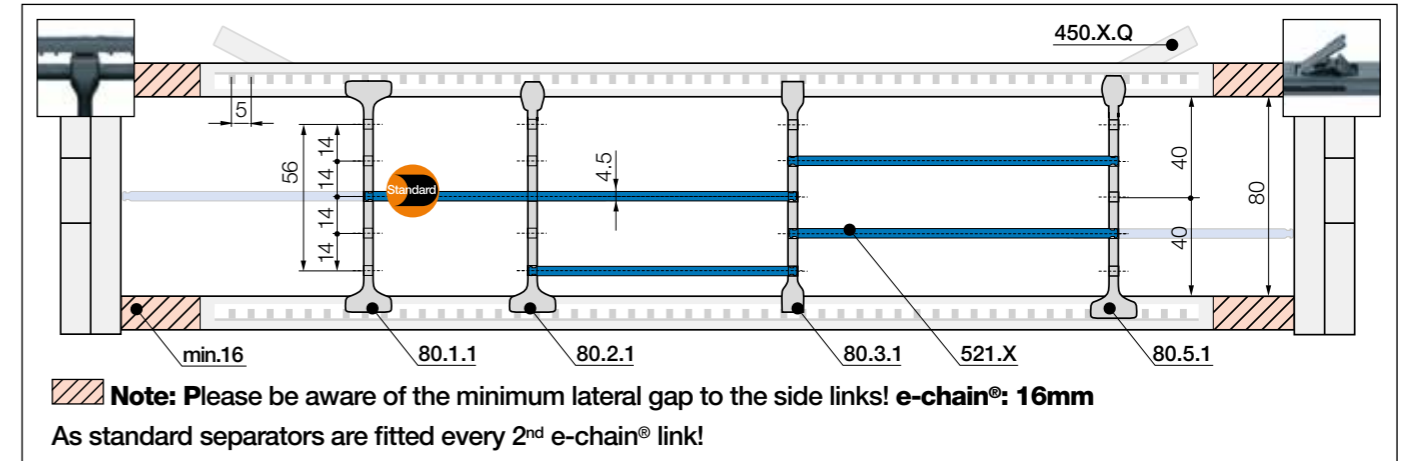
KMA pivoting | Recommended for unsupported applications

Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]	Width index	Part No. full set KMA pivoting	A [mm]	B [mm]	Bi [mm]
05.	E6.800.05.12.C	78	100	50	31.	E6.800.31.12.C	340	362	312
06.	E6.800.06.12.C	93	115	65	32.	E6.800.32.12.C	353	375	325
07.	E6.800.07.12.C	103	125	75	33.	E6.800.33.12.C	365	387	337
08.	E6.800.08.12.C	115	137	87	35.	E6.800.35.12.C	378	400	350
10.	E6.800.10.12.C	128	150	100	36.	E6.800.36.12.C	390	412	362
11.	E6.800.11.12.C	140	162	112	37.	E6.800.37.12.C	403	425	375
12.	E6.800.12.12.C	153	175	125	38.	E6.800.38.12.C	415	437	387
13.	E6.800.13.12.C	165	187	137	40.	E6.800.40.12.C	428	450	400
15.	E6.800.15.12.C	178	200	150	41.	E6.800.41.12.C	440	462	412
16.	E6.800.16.12.C	190	212	162	42.	E6.800.42.12.C	453	475	425
17.	E6.800.17.12.C	203	225	175	43.	E6.800.43.12.C	465	487	437
18.	E6.800.18.12.C	215	237	187	45.	E6.800.45.12.C	478	500	450
20.	E6.800.20.12.C	228	250	200	46.	E6.800.46.12.C	490	512	462
21.	E6.800.21.12.C	240	262	212	47.	E6.800.47.12.C	503	525	475
22.	E6.800.22.12.C	253	275	225	48.	E6.800.48.12.C	515	537	487
23.	E6.800.23.12.C	265	287	237	50.	E6.800.50.12.C	528	550	500
25.	E6.800.25.12.C	278	300	250	51.	E6.800.51.12.C	540	562	512
26.	E6.800.26.12.C	290	412	262	52.	E6.800.52.12.C	553	575	525
27.	E6.800.27.12.C	303	325	275	53.	E6.800.53.12.C	565	587	537
28.	E6.800.28.12.C	315	337	287	55.	E6.800.55.12.C	578	600	550
30.	E6.800.30.12.C	328	350	300	60.	E6.800.60.12.C	628	650	600

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



Previous generation of interior separation with other options ► www.igus.eu/E6.80



Standard - for any application
Separator with a wide base for maximum holding force in the e-chain®.

For even faster installation
Separator for igus® QuickLock crossbar 450.X.Q. Wide on one side for high holding force, narrow on opposite side for easy cable fitting.

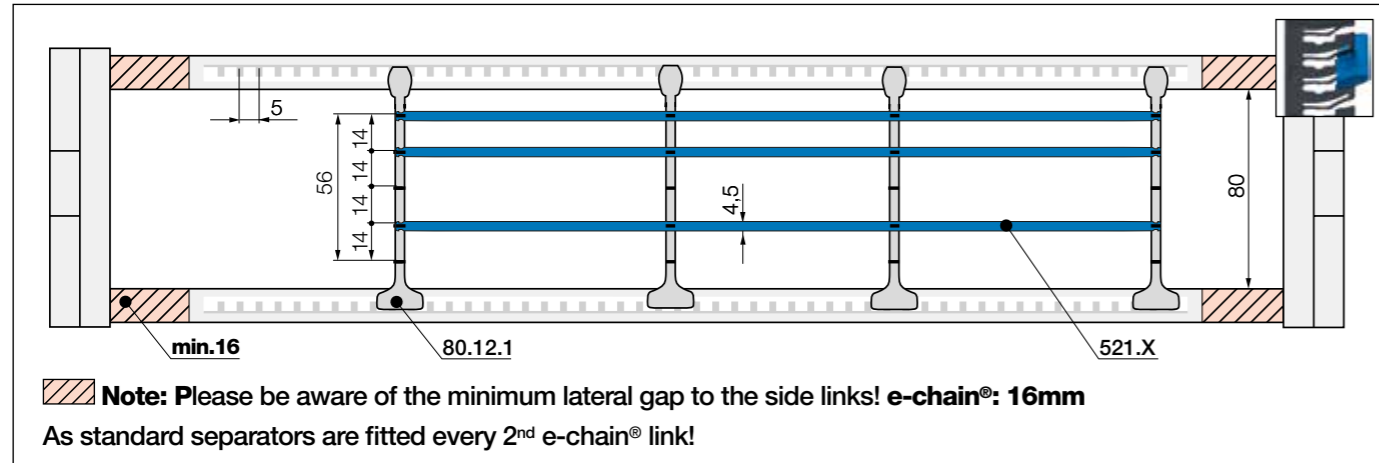
For small cables
Separator with a narrow base for a large number of small cables side by side. Saves space in the e-chain®. Also available for QuickLock crossbars.

Locks securely in preset increments
Notch separator for exact positioning in e-chains®. 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 [mm]	X [mm]		X [mm]		X [mm]			
	unassembled	assembled	unassembled	assembled	unassembled	assembled		
050	520.050	521.050	150	520.150	521.150	300	520.300	521.300
065	520.065	521.065	175	520.175	521.175	350	520.350	521.350
075	520.075	521.075	200	520.200	521.200	375	520.375	521.375
100	520.100	521.100	225	520.225	521.225	387	520.387	521.387
125	520.125	521.125	250	520.250	521.250	450	520.450	521.450

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300



			Lean separator*	unassembled	80.12
				assembled	80.12.1

Lean separators*

New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

*Only for e-chains®



Lean separator design - several layers of cables fitted quickly, save up to 50%* assembly time

(*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® readychain® factory)



igus® system E6 guiding an extraction hose - speed 8m/s, acceleration 78.5m/s²



e-skin®

Novel energy supply system for cleanrooms



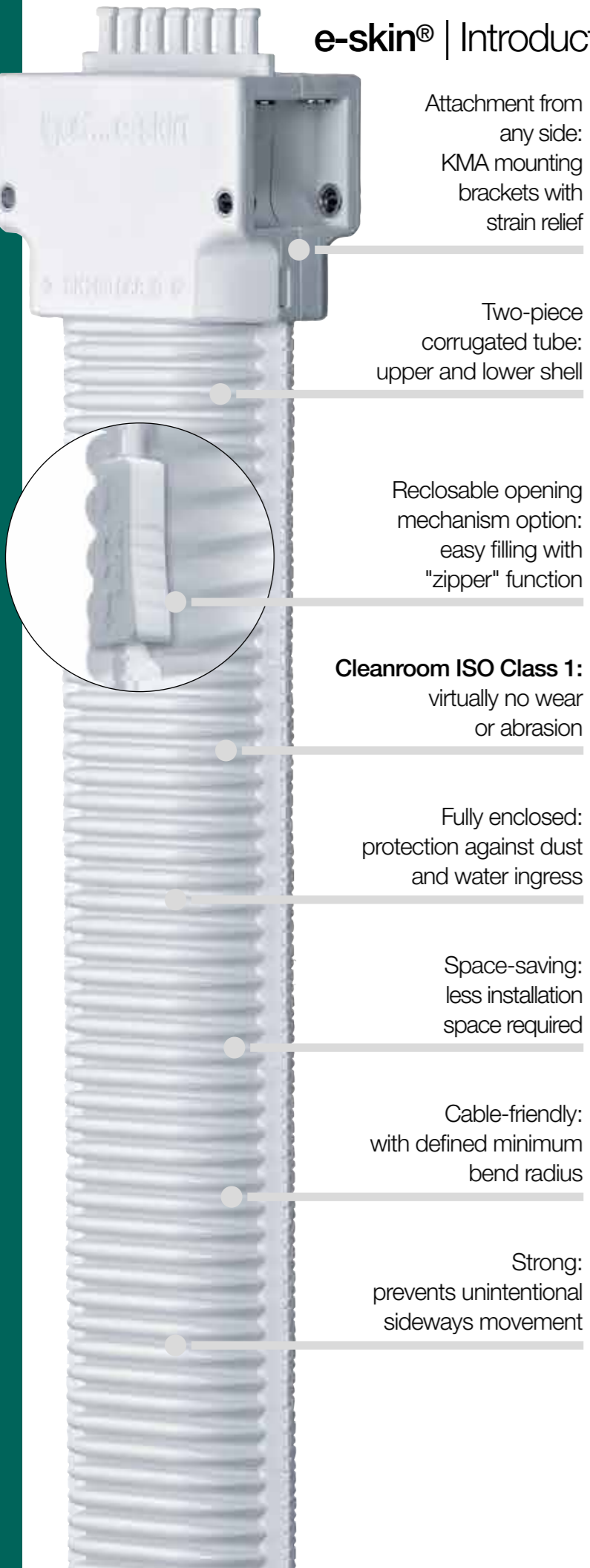
Advantages of the e-skin® series:

- Hose consisting of an upper and lower shell that form a complete enclosure when connected together
- Easy filling with "zipper" function
- Special design allows unsupported lengths
- Less installation space required
- Cable-friendly with defined minimum bend radius
- Available with interior separation
- Prevents unintentional sideways movement
- Simple maintenance and inspection of the cables inside
- Protection against dust and water ingress
- Suitable for cleanrooms according to **IPA ISO class 1**



When to use another e-chain® series:

- For longer unsupported lengths
 - ▶ E3, page 732
 - ▶ E6.1, page 750
- For higher speeds
 - ▶ E3, page 732
 - ▶ E6.1, page 750
- For high exposure to dirt
 - ▶ RX e-tubes, page 502



Attachment from any side: KMA mounting brackets with strain relief

Two-piece corrugated tube: upper and lower shell

Reclosable opening mechanism option: easy filling with "zipper" function

Cleanroom ISO Class 1: virtually no wear or abrasion

Fully enclosed: protection against dust and water ingress

Space-saving: less installation space required

Cable-friendly: with defined minimum bend radius

Strong: prevents unintentional sideways movement

Novel energy supply system for cleanrooms - e-skin®

e-skin® is a hose consisting of an upper and lower shell that form a complete enclosure when connected together. The simple and reclosable opening mechanism enables easy maintenance and inspection of the cables inside. e-skin® has many advantages over conventional corrugated tubes.

- Special design allows unsupported lengths
- Openable, quick assembly
- Available with interior separation
- Less installation space required
- Protection against dust and water ingress

Typical industries and applications

- Cleanroom ● Pick & Place ● Printers ● Any machine that uses corrugated hoses



Easy filling, can be opened and closed like a zipper



IPA Qualification Certificate²⁾ - Report IG 1504-755:

e-skin® **RBR** (prototype) tested at v= 0.5m/s, 1m/s, 2m/s and a= 1m/s², 2m/s², 4m/s²

Series	Inner height <i>hi</i> [mm]	Inner width <i>Bi</i> [mm]	Outer width <i>Ba</i> [mm]	Outer height <i>ha</i> [mm]	Bend radius <i>R min.*</i> [mm]	Page
SK28	28	68	95	40	055	842
SK40 <small>New</small>	38	85	118	57	100	846



e-skin® - oval design

Can be opened and closed like a zipper

*Note: The minimum bend radius is determined by the bottom of the e-skin® tube!



Available from stock. Ready to ship in 24 - 48 hrs.*

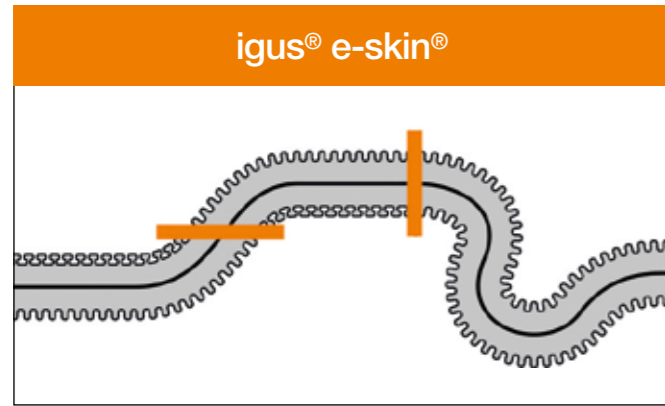
*The delivery times indicated correspond to the average time until the ordered goods are dispatched.



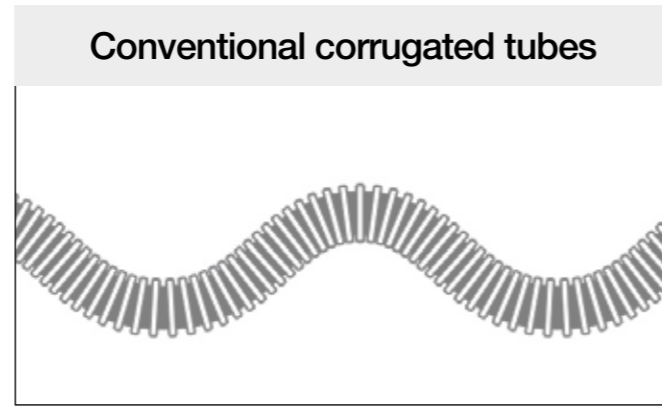
With the e-skin®, igus® offers a modular corrugated tube with a self-supporting function for energy supply in the smallest possible space. The product is certified in accordance with IPA ISO Class 1 and can be used in cleanrooms. e-skin® provides systems with data, media and energy without generating airborne particles through friction which could contaminate the room.

The corrugated tube is made up of abrasion-resistant plastic and its separable upper and lower shells can be easily put together by a "zipper" to a fully enclosed tube. This simultaneously guarantees cleanroom suitability as well as offering quick filling with cables.

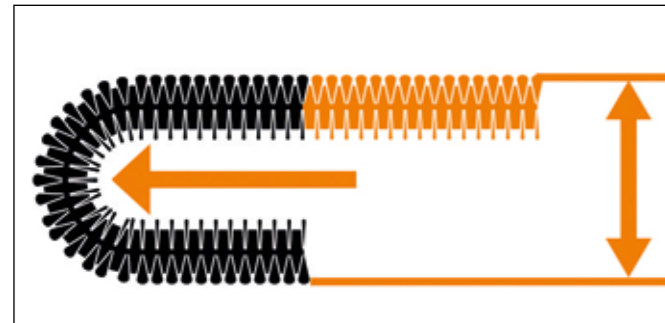




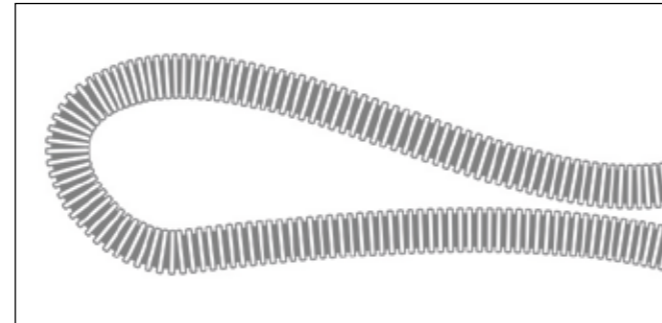
e-skin® consists of two shells (upper and lower). The shells can be configured in order to define movement



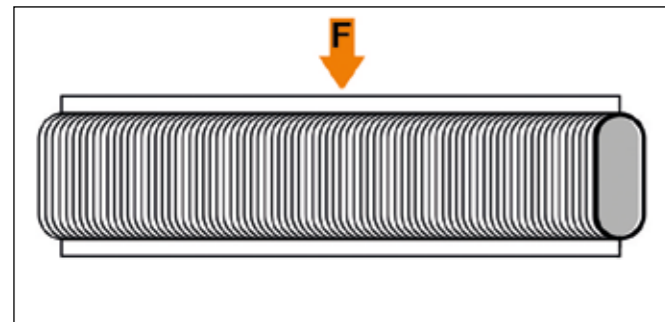
Corrugated tubes have the same bend radius along their entire length



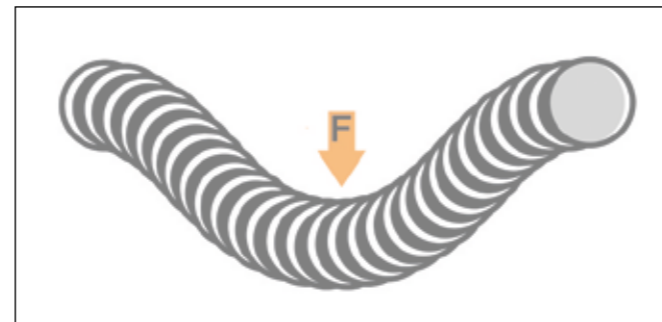
e-skin® is suitable for short unsupported lengths



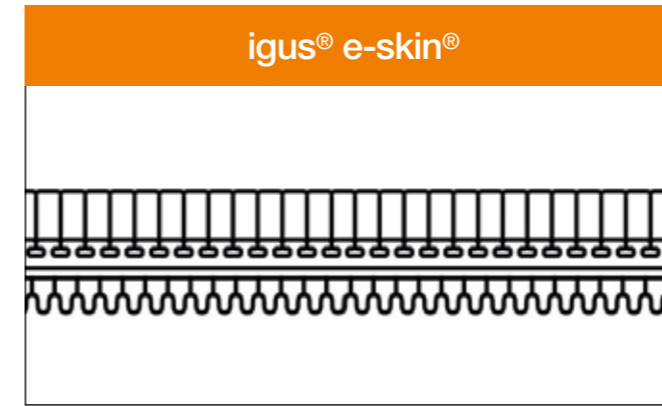
Corrugated tubes cannot be used for unsupported applications



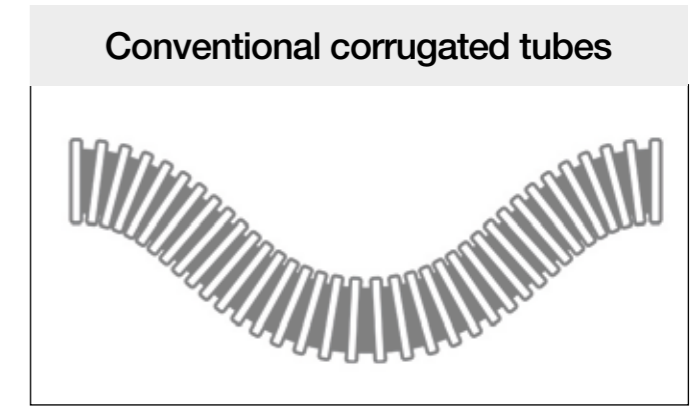
Lateral stability thanks to an oval geometry of the e-skin®



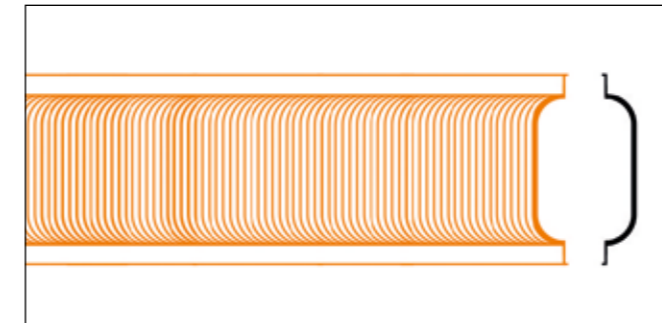
Very little any stability in respect of forces acting on the sides



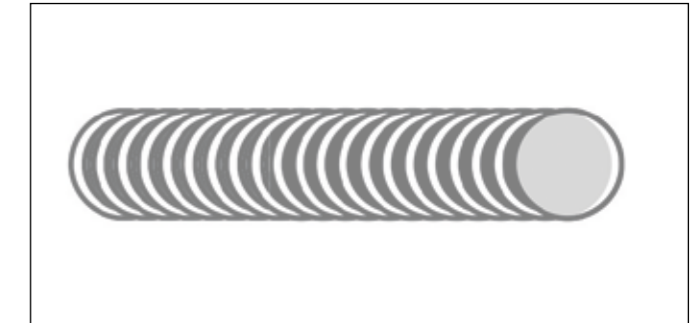
e-skin® supports itself



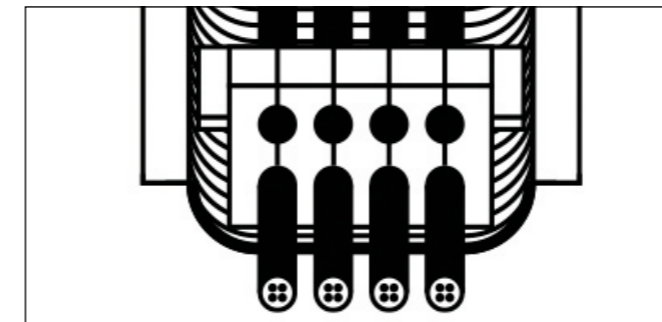
Corrugated tubes have very little any inherent rigidity. e-rib solves this ► www.igus.eu/e-rib



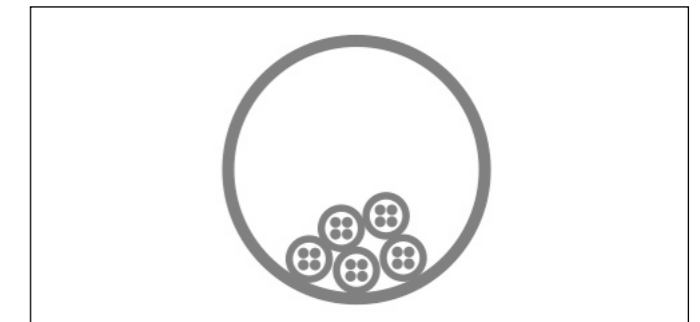
e-skin® is openable, easy to fill



Corrugated tubes (for dynamic applications) cannot be opened


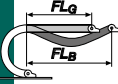




e-skin® can be fitted with interior separation







The interior of corrugated tubes cannot be divided into sections

Technical data






	Speed FL_G / acceleration FL_G	≤ 10 [m/s] / ≤ 75 [m/s ²]
	Speed FL_B / acceleration FL_B	upon request
	e-chain® material - permitted temperature °C, igumid SK	+10°C up to +50°
	Mounting bracket material - permitted temperature °C, igumid NB	+10°C up to +50°
	Flammability class	UL94-HB

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

Installation types, maximum travels


Series	 Unsupported	 Vertical hanging	 Vertical standing	 Side mounted unsupported
SK28	≤ 1.50 m	upon request	upon request	upon request
SK40	≤ 2.50 m	upon request	upon request	upon request

Options with order keys | Examples based on series SK28


 Standard	Reverse Bend Radius
Part No. Standard	Part No. RBR
	 <small>A version with Reverse Bend Radius (RBR) can be easily made by using the bottom shell for the complete e-skin®. Thus very defined movements can be implemented with the two parts. Note: The minimum bend radius is determined by the bottom of the e-skin® tube!</small>
 SK28.068.02.1	SK28.068.02/02.1
 Ready to ship* in 24 - 48hrs.	Available upon request


*The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Order example | Order key and colour examples | Examples based on series SK28

 **Order example for complete e-chain® (1m), colour white, with mounting brackets and interior separation:**

e-chain® (1,000mm)	Please order the required length in mm	SK28.068.02.1
+ Mounting brackets	KMA 1 set (with tiwrap plates)	SK280.068.12ZB.1
Interior separation	fitted every 112mm	SK28.1.1.01
Order text:	1.000 mm SK28.068.02.1 + SK280.068.12ZB.1 + 16 x SK28.1.1.01	

 **Order key**

Oval design	SK28.068.02.1	Order index
Series / Type		Colour
Inner height		<input type="checkbox"/> White Standard .1
Width index		
Version		
Colour index (standard white)		

White e-skin® e-chains® available from stock.

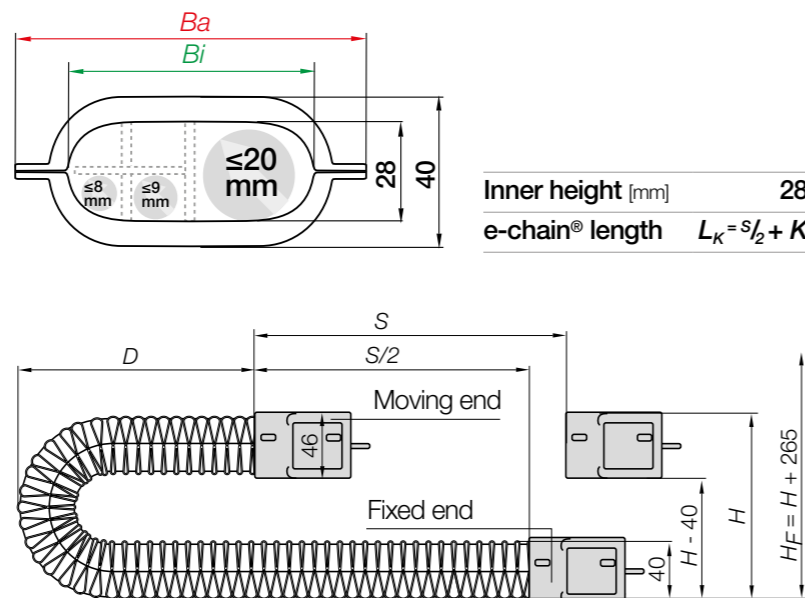
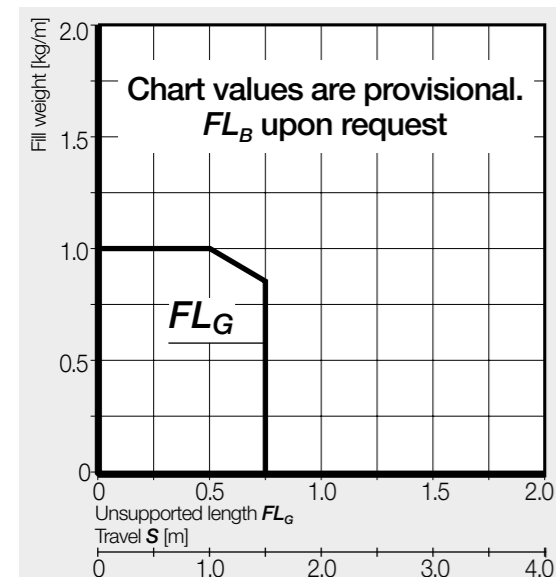


Series SK28 | Oval design | Can be opened and closed like a zipper

Part No.	Bi	Ba	hi	ha	R min.*	SK ₂₈
e-chains®	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]
SK28.068.02.1	68	95	28	40	055	≈ 0.54

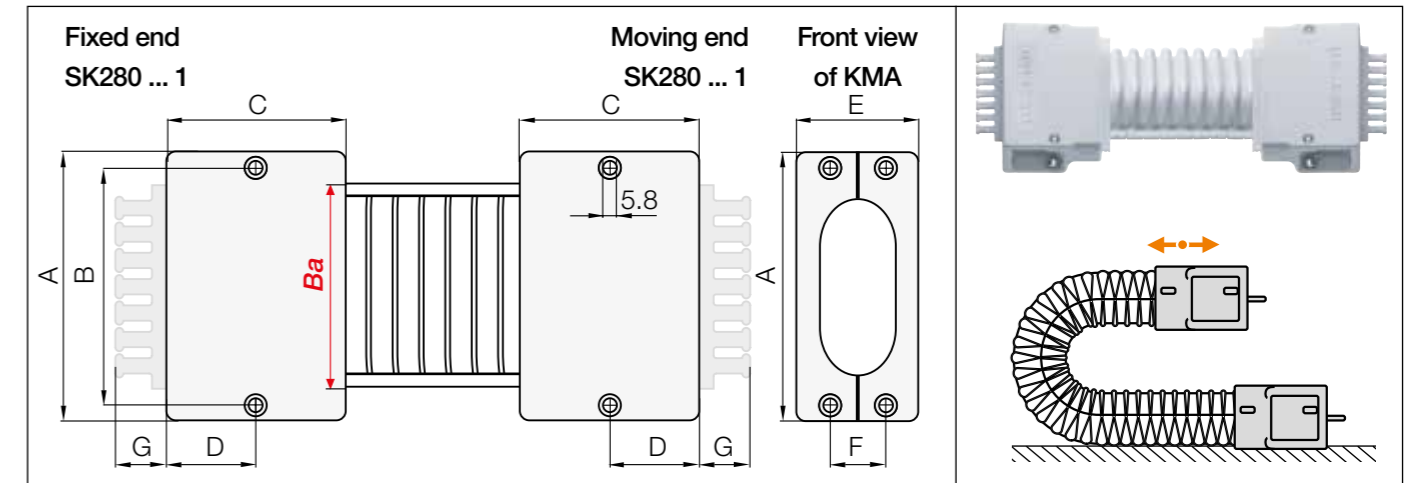
**Available upon request. Please consult igus® for delivery time. *Note: The minimum bend radius is determined by the bottom of the e-skin® tube!

Installation dimensions



R min.*	055	*Note: The minimum bend radius is determined by the bottom of the e-skin® tube!
H	250	No bend radius is specified in the part number, since it depends on travel and fill weight. The smallest
D	160	specified radius below is the minimum to guarantee the service life of the cables. In most applications,
K	399	however, the radius remains larger because the shape of the tube defines this.

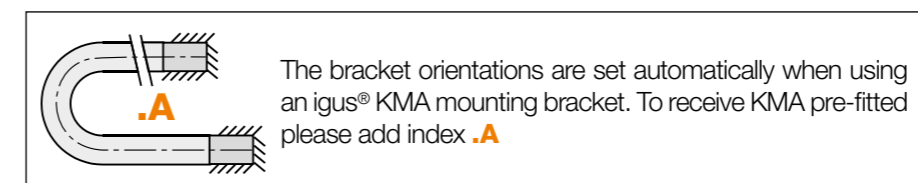
The required clearance height: $H_F = H + 265\text{mm}$ (with 0.75kg/m fill weight)



KMA | Recommended for unsupported, vertical hanging, standing applications

Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Number of teeth
068.	SK280.068.12.1	SK280.068.12ZB.1	104	92	68	35	46	21	18	7

(KMA = polymer metal mounting bracket)

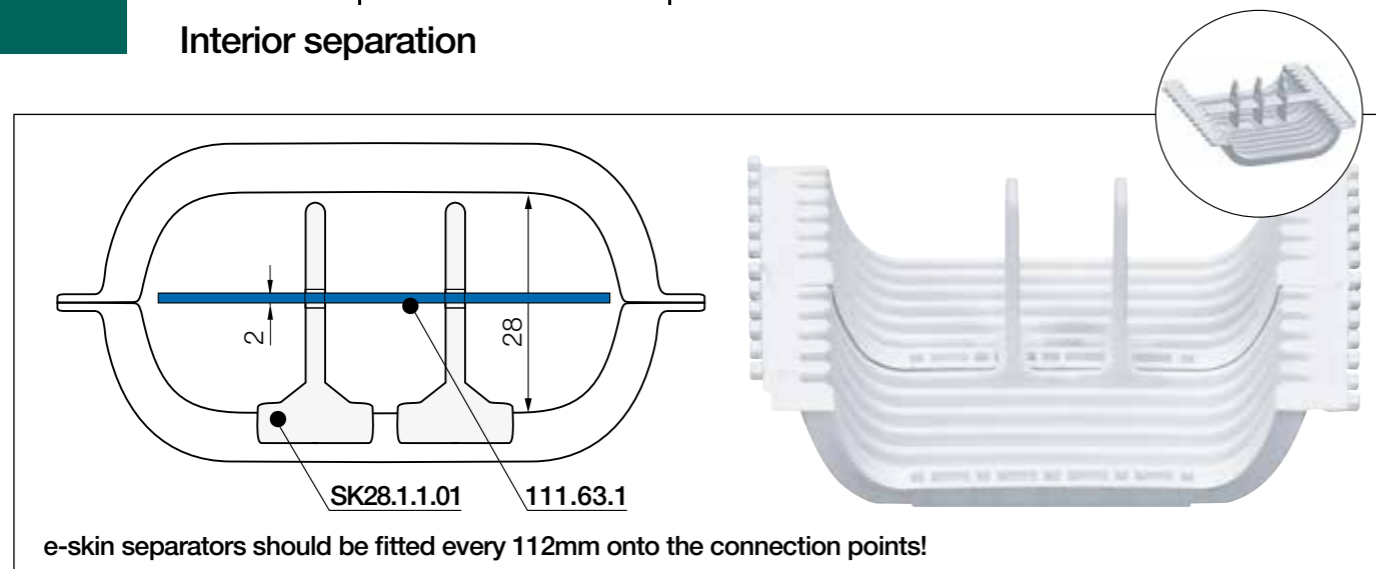


SK280.068.12ZB.1.A Order example

- .A... to indicate option with brackets pre-fitted
- Colour index
- With integrated strain relief tiewrap plates
- Full set
- Width index
- Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Interior separation



e-skin separators should be fitted every 112mm onto the connection points!

		Slotted separator unassembled SK28.1.01 assembled SK28.1.1.01
		Full-width shelf, continuous unassembled 110.63.1 assembled 111.63.1

Vertical separation - slotted separators

The interior separation* system for the igus® e-skin® consists of individual separators and full-width shelves, which can be fitted in a variety of ways.

Full-width shelf

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



Absolutely dust-free environment for printed-circuit-board production using the abrasion-resistant e-skin® from igus®

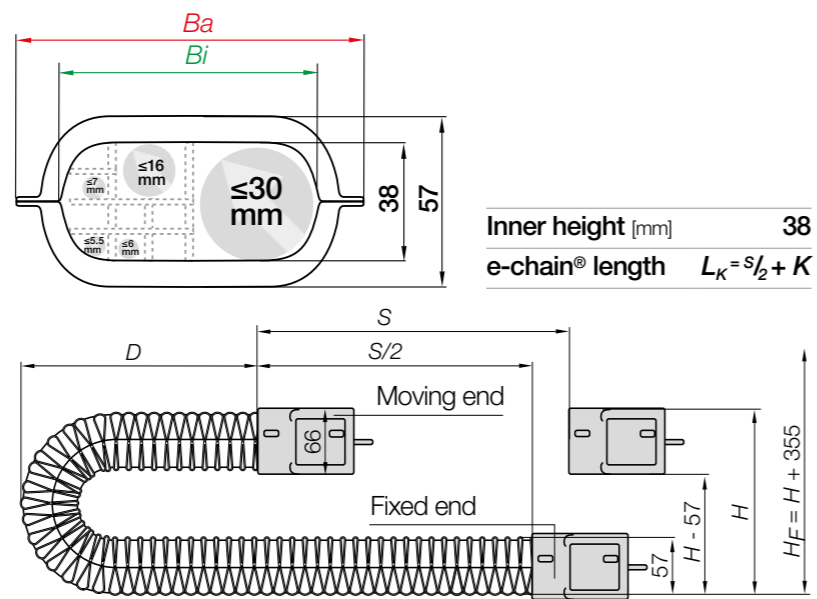
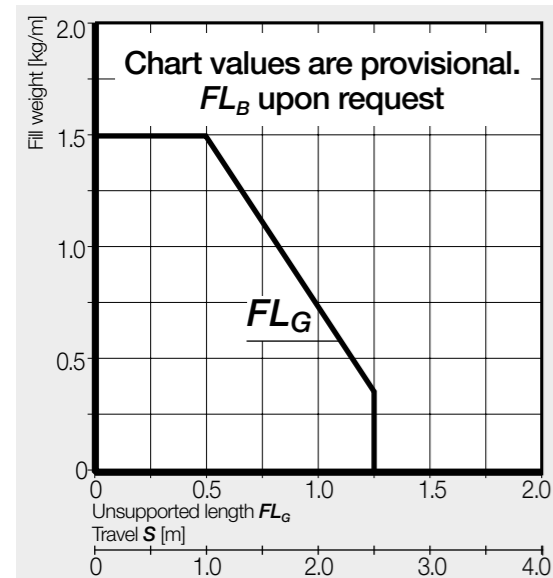


Series SK40 | Oval design | Can be opened and closed like a zipper

Part No.	Bi	Ba	hi	ha	R min.*	SK40
e-chains®	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]
SK40.085.02.1	85	118	38	57	100	≈ 1.15

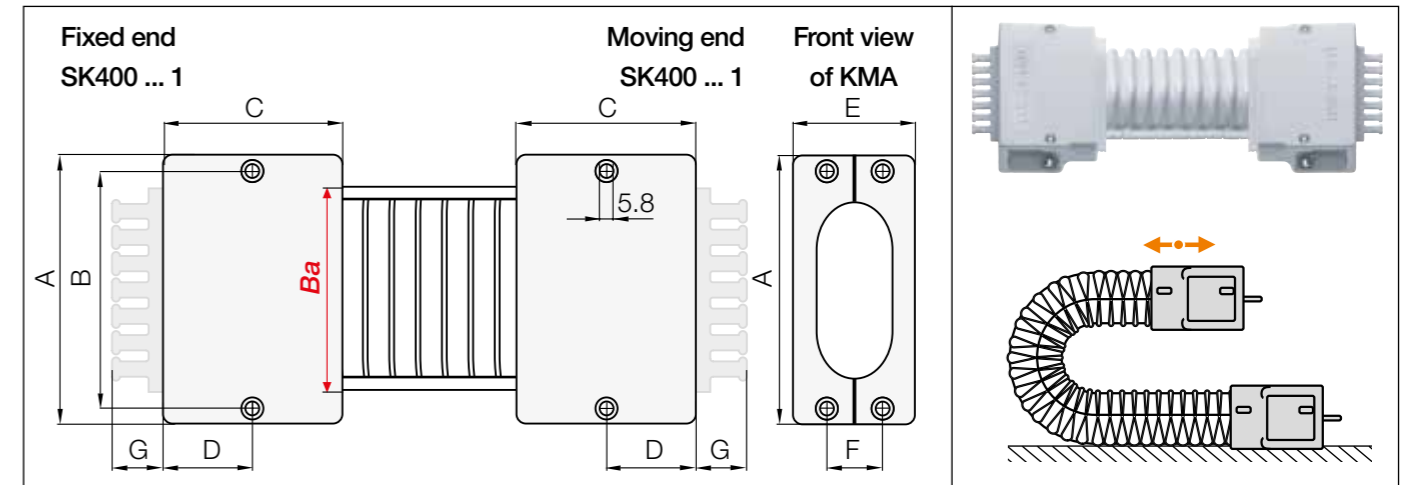
*Note: The minimum bend radius is determined by the bottom of the e-skin® tube!

Installation dimensions



R min.*	100	*Note: The minimum bend radius is determined by the bottom of the e-skin® tube!
H	350	No bend radius is specified in the part number, since it depends on travel and fill weight. The smallest
D	300	specified radius below is the minimum to guarantee the service life of the cables. In most applications,
K	693	however, the radius remains larger because the shape of the tube defines this.

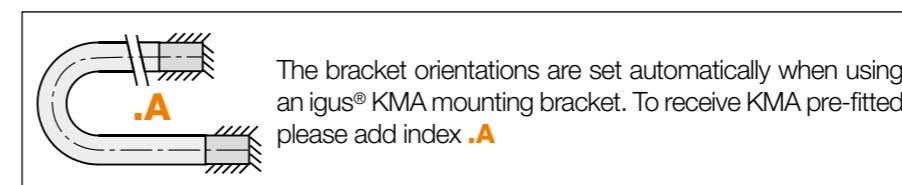
The required clearance height: $H_F = H + 355\text{mm}$ (with 0.75kg/m fill weight)



KMA | Recommended for unsupported, vertical hanging, standing applications

Width index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Number of teeth
085.	► SK400.085.12.1	SK400.085.12ZB.1	125	113	68	35	66	41	18	10

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

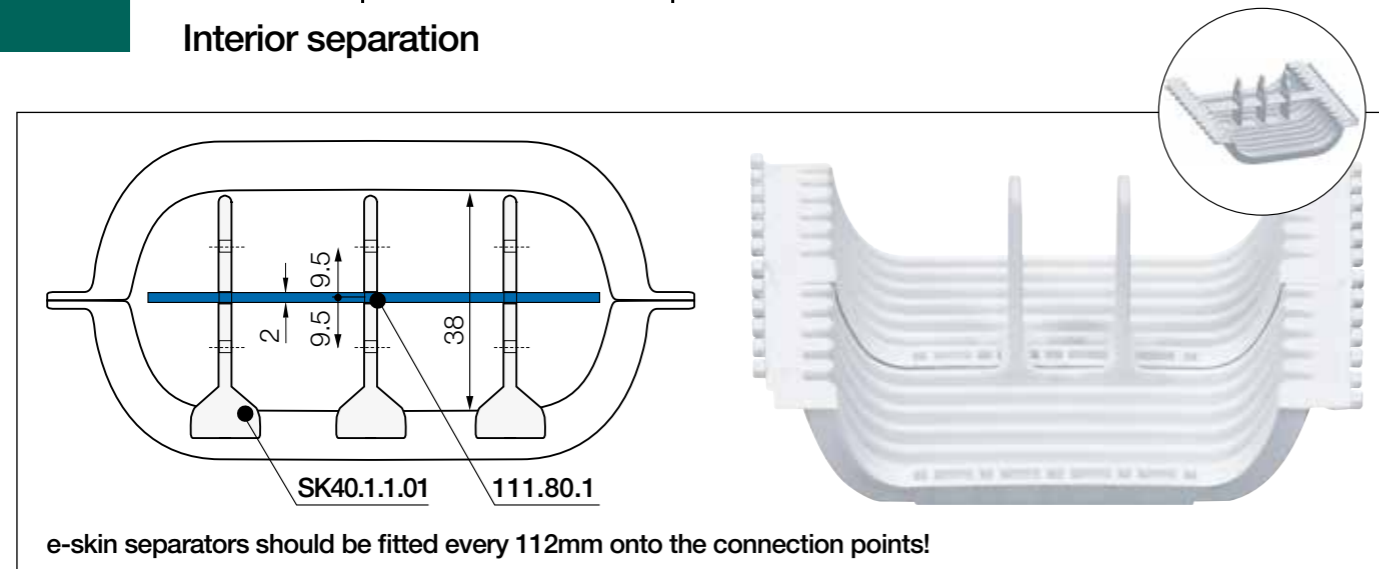


SK400.085.12ZB.1.A Order example

- .A**... to indicate option with brackets pre-fitted
- Colour index
- With integrated strain relief tiewrap plates
- Full set
- Width index
- Series

Strain relief e.g. clamps, tiewrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ► From page 1300

Interior separation



e-skin separators should be fitted every 112mm onto the connection points!

		Slotted separator unassembled SK40.1.01 assembled SK40.1.1.01
		Full-width shelf, continuous unassembled 110.80.1 assembled 111.80.1

Vertical separation - slotted separators

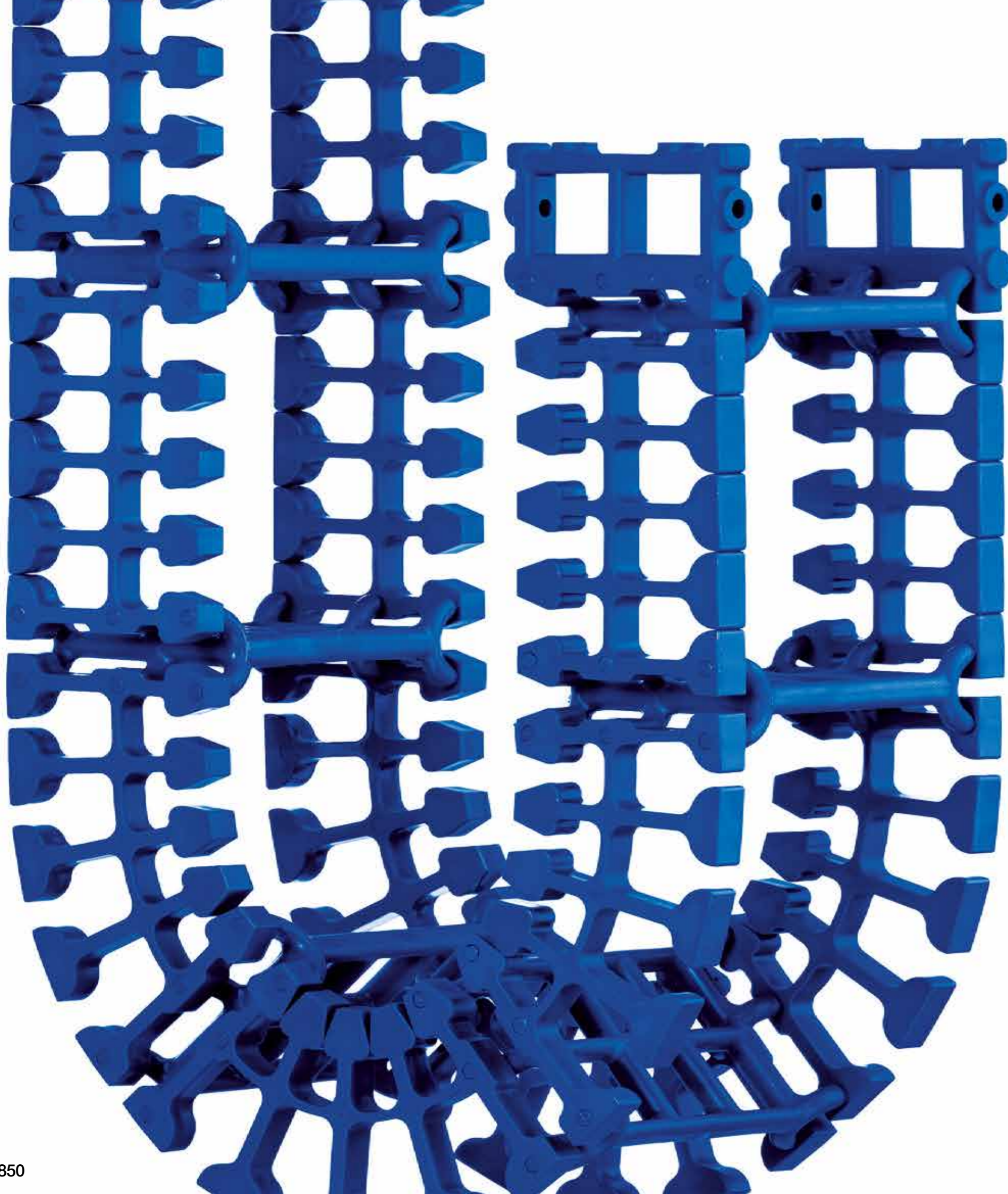
The interior separation* system for the igus® e-skin® consists of individual separators and full-width shelves, which can be fitted in a variety of ways.

Full-width shelf

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



The igus® e-skin® e-chain® can be used for short unsupported lengths in cleanrooms



TH3

The first e-chain[®] designed according to hygienic principles - TH3



Advantages of the TH3 system:

- The first e-chain[®] designed according to hygienic principles
- Easy to clean due to open design
- FDA- and EU-compliant materials - blue material, typical for plastic parts in the food industry (consists of igumid TH NB for the side parts and igumid TH G for the frames and mounting brackets)
- Good resistance to aggressive cleaning agents and chemicals
- Rounded edges mean that there are no dead spaces or resulting germ formation
- No material on material rubbing
- No bolted connections
- Operating temperature -40°C / +70°C
- reddot award winner 2017



When to use another igus[®] e-chain[®] series:

- When hygienic design does not matter but cleanroom capability is required
 - ▶ T3, page 722
- When Cleanroom ISO Class 1 is required
 - ▶ E6.1, page 750



reddot award 2017
winner

The first e-chain® designed according to hygienic principles - TH3

The igus® TH3 e-chain® is the world's first plastic e-chain® developed according to "Hygienic Design Guidelines". The open design of the e-chain® is very easy to clean and, thanks to rounded corners and the absence of bolted connections, dead spaces and the resulting germ formation are avoided. The blue material, which is typical of plastic parts in the food industry, is also highly resistant to aggressive cleaning agents and chemicals. The e-chain® is suitable for applications with the highest hygienic requirements for safe cable and hose guidance.

- Choice of 2 inner heights and 4 inner widths
- Interior separation segments separate the cables and hoses from each other to provide enough clearance for easy cleaning
- For plastic parts in the food industry, the blue material is FDA-compliant
- reddot award winner 2017

Typical industries and applications

- Packaging machines
- Food and beverage/filling machines
- Wherever hygiene requirements are very high and cables and hoses have to be guided safely and securely



The material of the igus® hygienic design e-chain® is FDA and EU regulation-compliant

Attachment from any side: polymer mounting brackets

Easy to clean: open design for effective and easy cleaning

Hygienic design principle: FDA-compliant materials

Modular design: 4 different widths for interior separation, available in 2 inner heights

Cable-friendly: due to smooth, rounded contours

No dead spaces: large gaps - no material overlaps

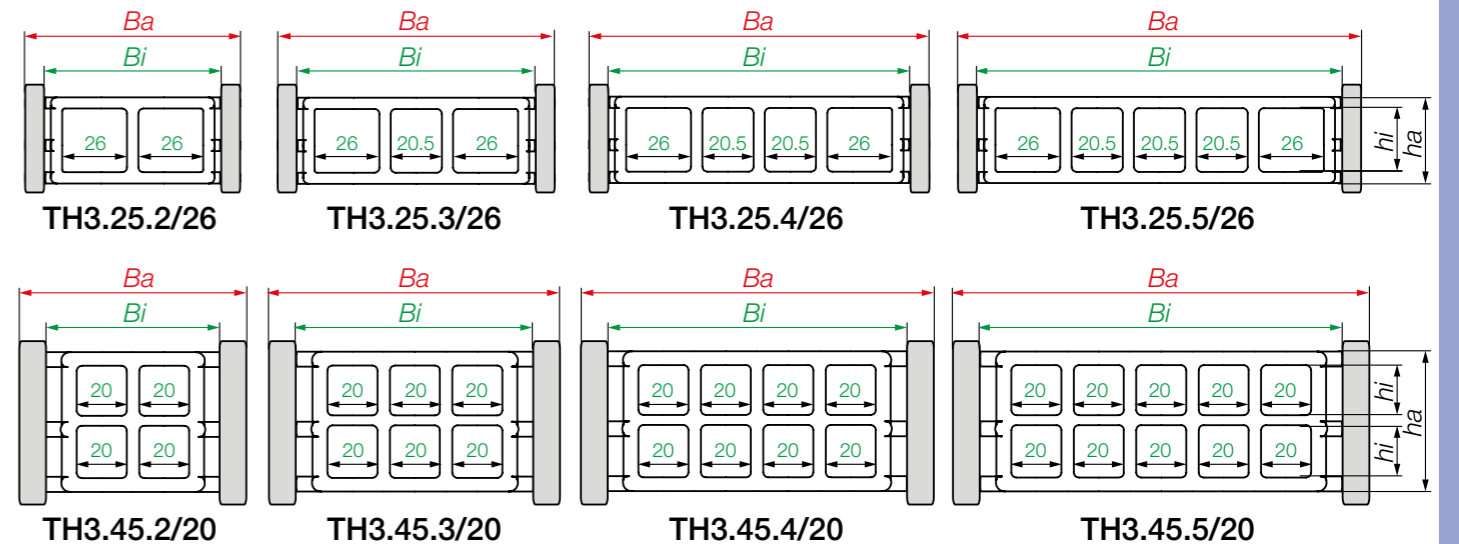
Food industry material: resistant to detergents and chemicals

Segment design	Series	Inner height hi [mm]	Inner width Bi [mm]	Outer width Ba [mm]	Outer height ha [mm]	Bend radius R [mm]	Unsupported length \leq [m]	Page
2-segment	TH3.25.2/26 New	25.5	70	86	35	070	1.2	856
	TH3.45.2/20 New	2 x 20	70	90	57	090	1.4	860
3-segment	TH3.25.3/26 New	25.5	95	111	35	070	1.2	856
	TH3.45.3/20 New	2 x 20	95	115	57	090	1.4	860
4-segment	TH3.25.4/26*	25.5	120	136	35	070	1.2	856
	TH3.45.4/20*	2 x 20	120	140	57	090	1.4	860
5-segment	TH3.25.5/26*	25.5	145	161	35	070	1.2	856
	TH3.45.5/20 New	2 x 20	145	165	57	090	1.4	860




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

Available from stock. Ready to ship in 24 - 48 hrs.*
 *The delivery times indicated correspond to the average time until the ordered goods are dispatched.

Size overview - Interior separation segments






Technical data


	Speed FL_G / acceleration FL_G	upon request
	Side part material - permitted temperature °C, igumid TH NB	-40°C / +70°C
	Material interior separation segment - permitted temperature °C, igumid TH G	-40°C / +70°C
	Mounting bracket material - permitted temperature °C, igumid TH G	-40°C / +70°C
	Flammability class, igumid TH NB	VDE 0304 IIC UL94-HB
	Flammability class, igumid TH G	VDE 0304 IIC UL94-HB

■ FL_G = unsupported with straight upper run

Installation types, maximum travels

Series			
	Unsupported	Vertical hanging	Vertical standing
TH3.25	≤ 1.2m	≤ 6.0m	≤ 1.8m
TH3.45	≤ 1.5m	≤ 6.0m	≤ 2.0m






Order example | Order key and colour examples | Examples based on series TH3.45

 **Order example for complete e-chain® (1.0m), colour blue, with mounting brackets and interior separation:**



e-chain® (1.0m)	Indicate e-chain® length or number of side parts	TH3.45.3/20.090.8
+ Mounting brackets	1 set	TH3.450.3/20.12.8
Interior separation	The interior separation segments connect the side parts of the e-chain®. The interior separation is already included in the part number of the e-chain®.	
Order text:	1m TH3.45.3/20.090.8 + 1 set TH3.450.3/20.12.8	

 **Order key**

Hygienic design e-chains® **TH3.45.3/20.090.8**

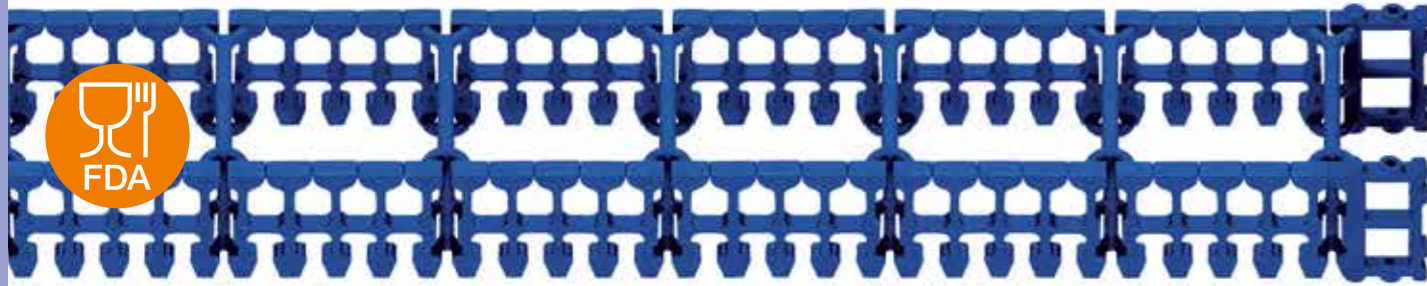
Series / Type	
Inner height	
Interior separation segment	
Bend radius R	
Colour index (standard blue)	

Order index

Colour	Order index
 blue Standard	.8
 For plastic parts in the food industry; the blue material is FDA-compliant.	
Blue e-chain® made from FDA-compliant material from stock.	



The TH3 e-chain® is the world's first plastic e-chain® developed according to "Hygienic Design Guidelines" (04/2018)



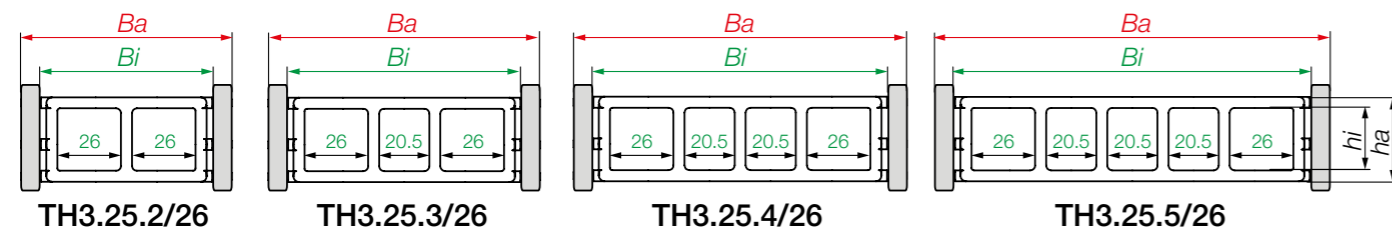
e-chains® | Series TH3.25 | 3-piece, hygienic design

Segment design	Part No. e-chain®	Chamber width [mm]	Bi [mm]	Ba [mm]	R Available bend radii [mm]	TH3.25 [kg/m]
2-segment	TH3.25.2/26.R.8	26/26	70	86	070	≈ 0.45
3-segment	TH3.25.3/26.R.8	26/20.5/26	95	111	070	≈ 0.47
4-segment	TH3.25.4/26.R.8*	26/20.5/20.5/26	120	136	070	≈ 0.50
5-segment	TH3.25.5/26.R.8*	26/20.5/20.5/20.5/26	145	161	070	≈ 0.54

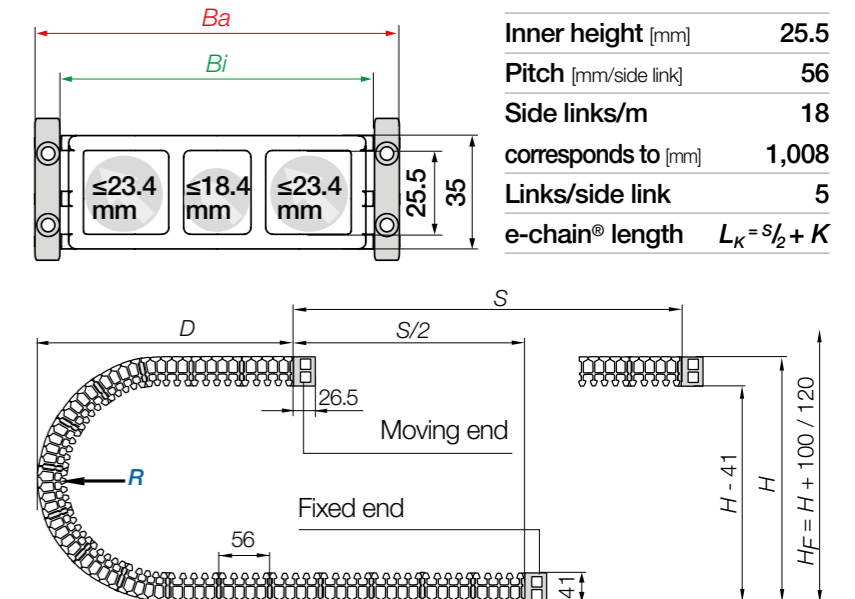
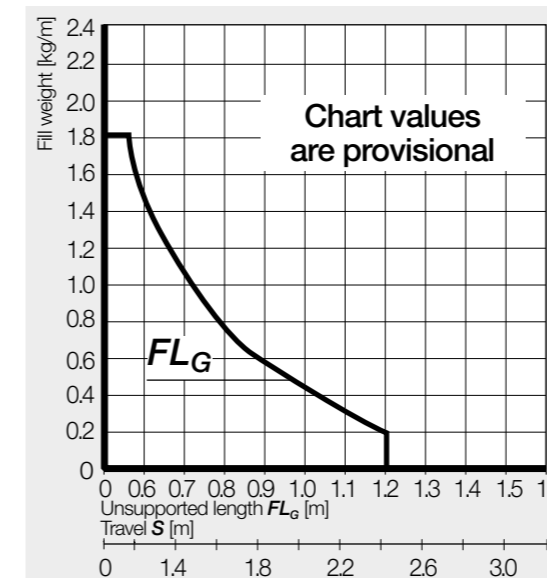
*Width available upon request. Please consult igus® for delivery time.

Complete Part No. with required radius (R). Example: TH3.25.3/26.070.8

Interior separation segments series TH3.25 | Size overview



Unsupported applications | Short travels



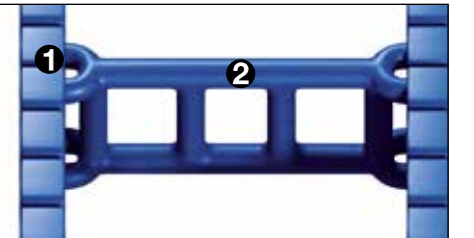
Inner height [mm]	25.5
Pitch [mm/side link]	56
Side links/m	18
corresponds to [mm]	1,008
Links/side link	5
e-chain® length	$L_K = \frac{S}{2} + K$

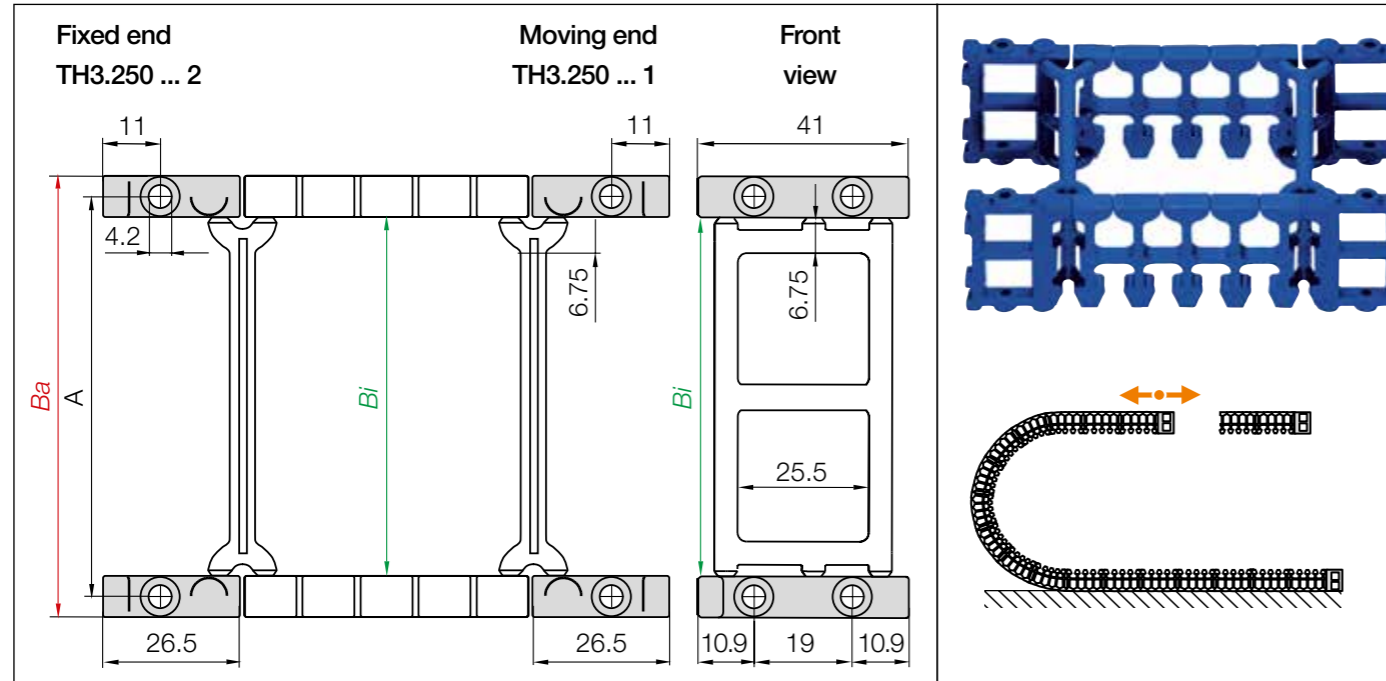
R min.*	070	*Note: The bend radius depends on the length of the e-chain®. Smallest possible radius = 70 mm
H	180	Required clearance height H_F amounts to:
D	110	Travel distance up to 300m = 280mm
K	240	Travel distance from 300 up to 1,000mm = 300mm

The required clearance height $H_F = H + 100$ and accordingly $H + 120$ (with 0.4kg/m fill weight)

TH3 - 3-piece hygienic design e-chain®

- The TH3 e-chain® consists of 3 parts, the two side parts ❶ and one interior separation segment ❷
- The interior separation segments connect the side parts of the e-chain®
- The segments are available in 4 different widths





FDA-compliant mounting brackets, locking | For unsupported applications

Width index	Part No. full set locking	A [mm]	Bi [mm]	Ba [mm]
2/26	TH3.250.2/26.12.8	77.5	70	86
3/26	TH3.250.3/26.12.8	102.5	95	111
4/26	TH3.250.4/26.12.8*	127.5	120	136
5/26	TH3.250.5/26.12.8*	152.5	145	161

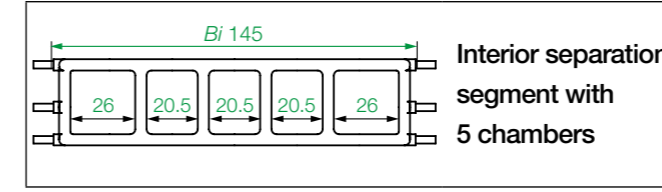
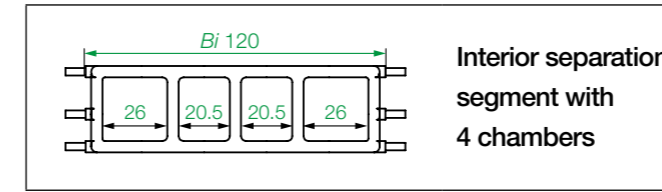
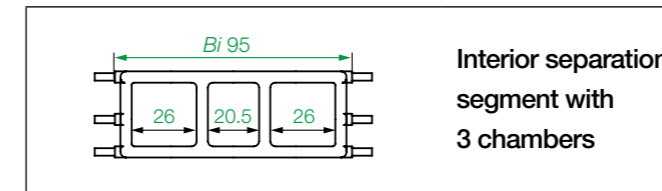
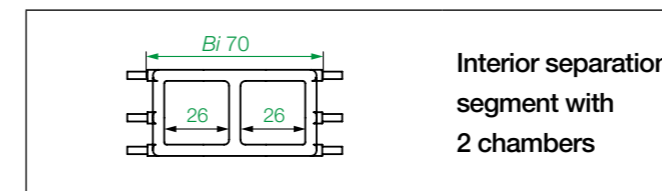
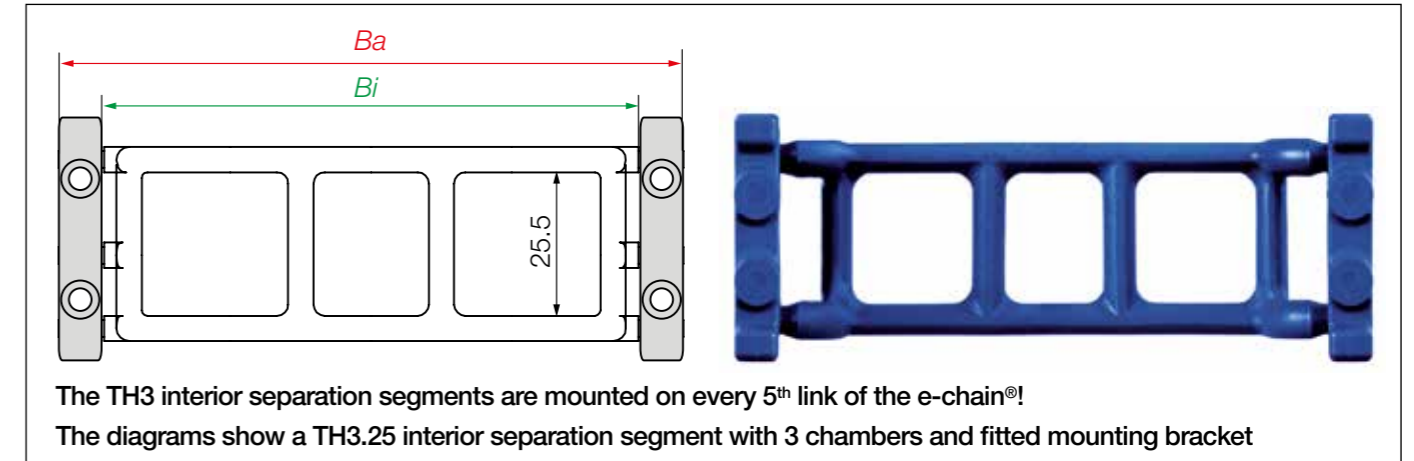
*Width available upon request. Please consult igus® for delivery time.

.A The bracket orientations are set automatically when using mounting brackets. To receive brackets **pre-fitted** please add index **A**.

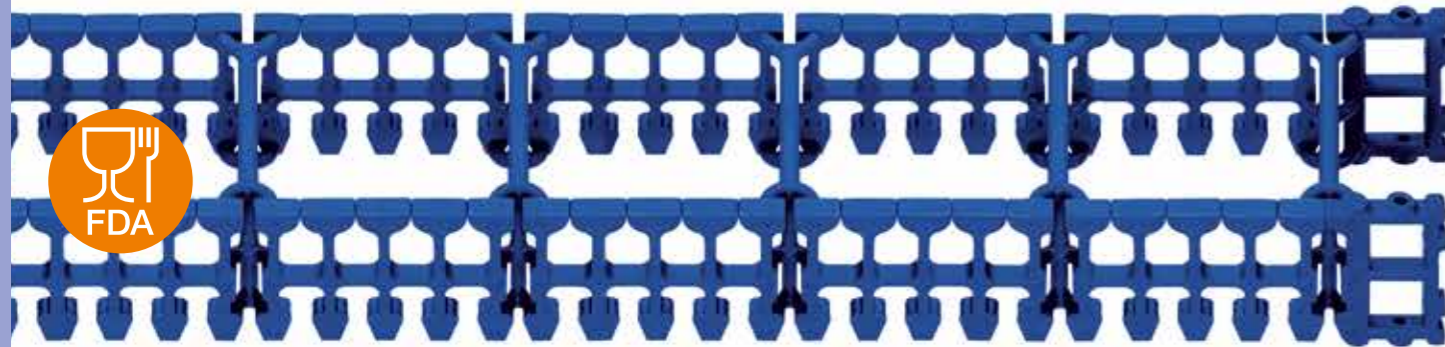
TH3.250.3/26.12.8.A Order example
.A... to indicate option with brackets pre-fitted
 Colour, standard blue
 Full set
 Interior separation segment
 Series

Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300





Interior separation segments



System TH3 - the open design allows effective and easy cleaning



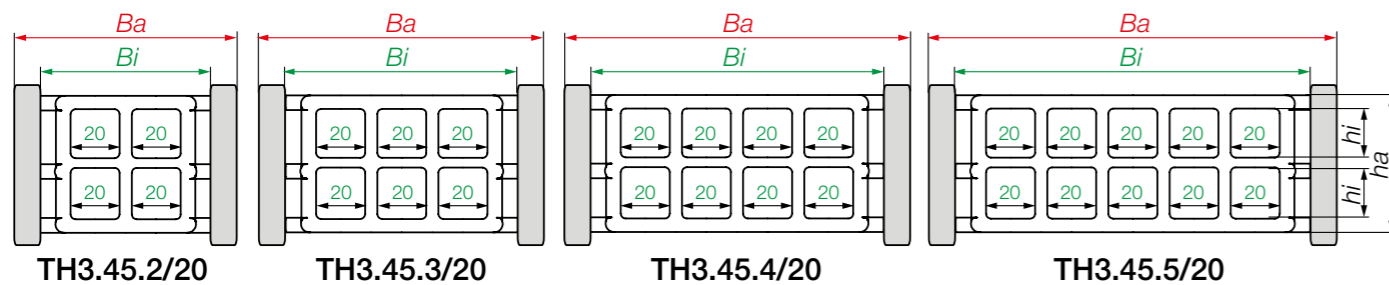
e-chains® | Series TH3.45 | 3-piece, hygienic design

Segment design	Part No. e-chain®	Chamber width [mm]	Bi [mm]	Ba [mm]	R Available bend radii [mm]	TH3.45 [kg/m]
2-segment 	TH3.45.2/20.R.8	20/20	70	90	090	≈ 0.82
3-segment 	TH3.45.3/20.R.8	20/20/20	95	115	090	≈ 0.87
4-segment 	TH3.45.4/20.R.8*	20/20/20/20	120	140	090	≈ 0.92
5-segment 	TH3.45.5/20.R.8	20/20/20/20/20	145	165	090	≈ 0.98

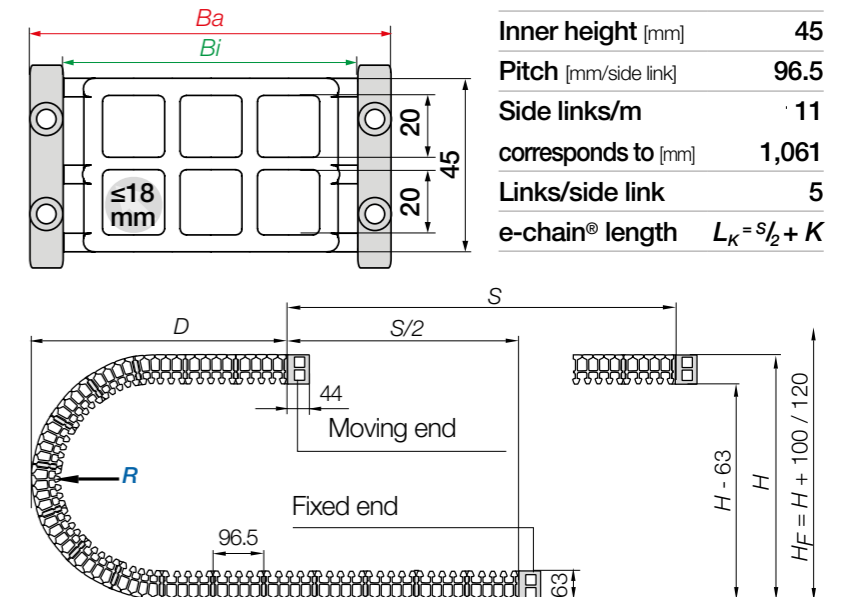
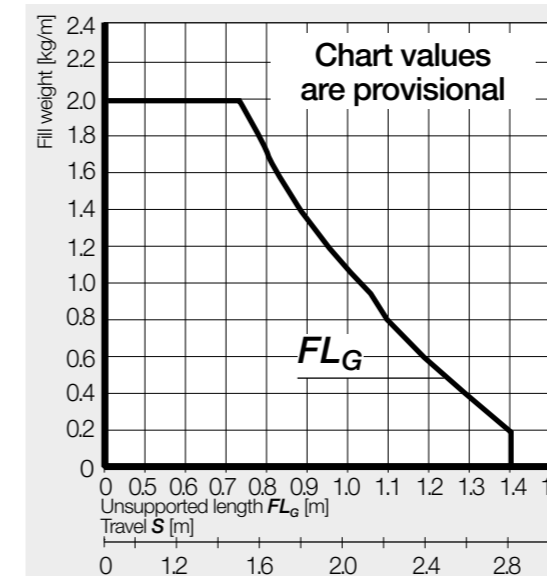
*Width available upon request. Please consult igus® for delivery time.

Complete Part No. with required radius (R). Example: TH3.45.3/20.090.8

Interior separation segments series TH3.45 | Size overview



Unsupported applications | Short travels



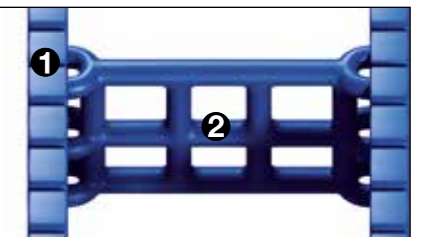
Inner height [mm]	45
Pitch [mm/side link]	96.5
Side links/m	11
corresponds to [mm]	1,061
Links/side link	5
e-chain® length	$L_K = \frac{S}{2} + K$

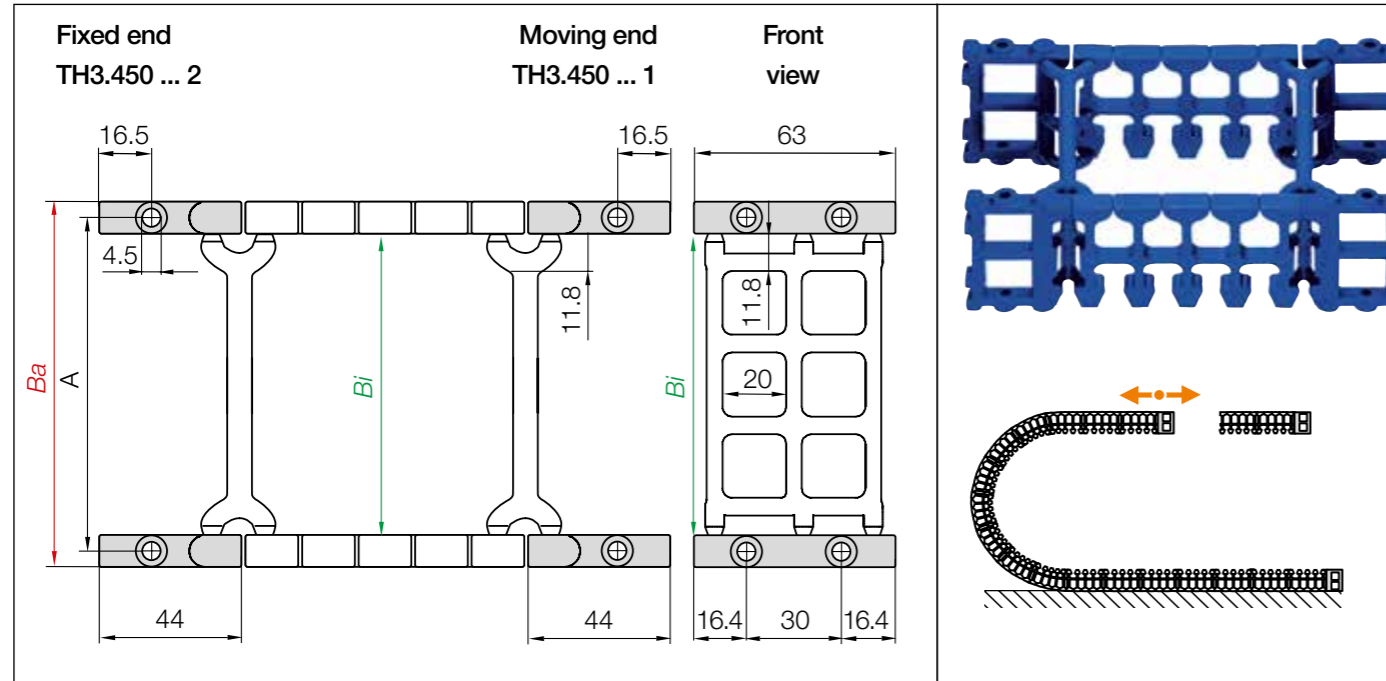
R min.*	090	*Note: The bend radius depends on the length of the e-chain®. The smallest possible radius is 90 mm
H	250	Required clearance height H_F amounts to:
D	120	Travel distance up to 300m = 350mm
K	338	Travel distance from 300 up to 1,000mm = 370mm

The required clearance height $H_F = H + 100$ and accordingly $H + 120$ (with 1.0kg/m fill weight)

TH3 - 3-piece hygienic design e-chain®

- The TH3 e-chain® consists of 3 parts, the two side parts ❶ and one interior separation segment ❷
- The interior separation segments connect the side parts of the e-chain®
- The segments are available in 4 different widths





FDA-compliant mounting brackets, locking | For unsupported applications

Width index	Part No. full set locking	A [mm]	Bi [mm]	Ba [mm]
2/20	TH3.450.2/20.12.8	80	70	90
3/20	TH3.450.3/20.12.8	105	95	115
4/20	TH3.450.4/20.12.8*	130	120	140
5/20	TH3.450.5/20.12.8	155	145	165

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

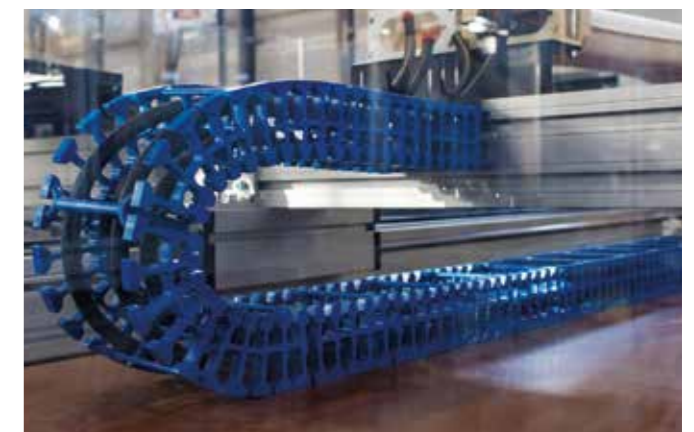
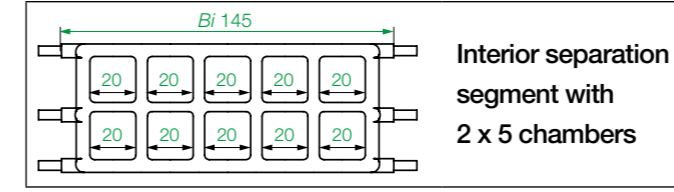
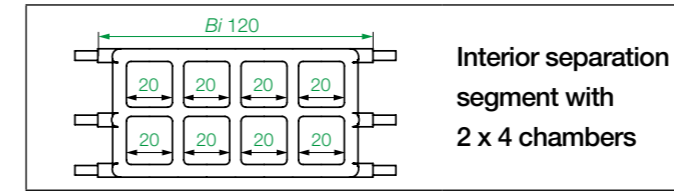
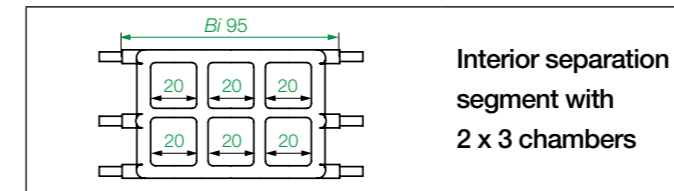
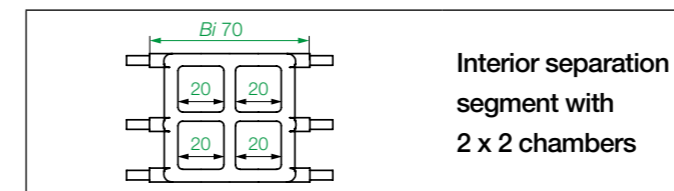
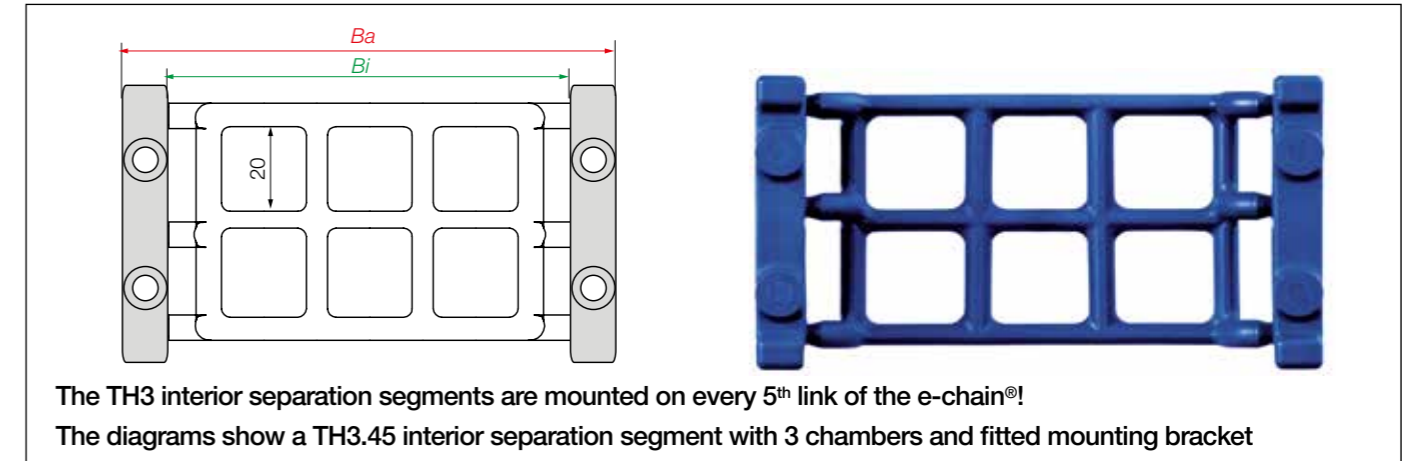
.A The bracket orientations are set automatically when using mounting brackets. To receive brackets **pre-fitted** please add index **A**.

TH3.450.3/20.12.8.A Order example

- .A**... to indicate option with brackets pre-fitted
- Colour, standard blue
- Full set
- Interior separation segment
- Series

Strain relief e.g. clamps, tiwrap plates, nuggets and plug-in clips are available from stock. The complete chainfix range with ordering options ▶ From page 1300

Interior separation segments



The TH3 series is suitable for applications with the highest hygienic requirements for safe cable and hose guidance