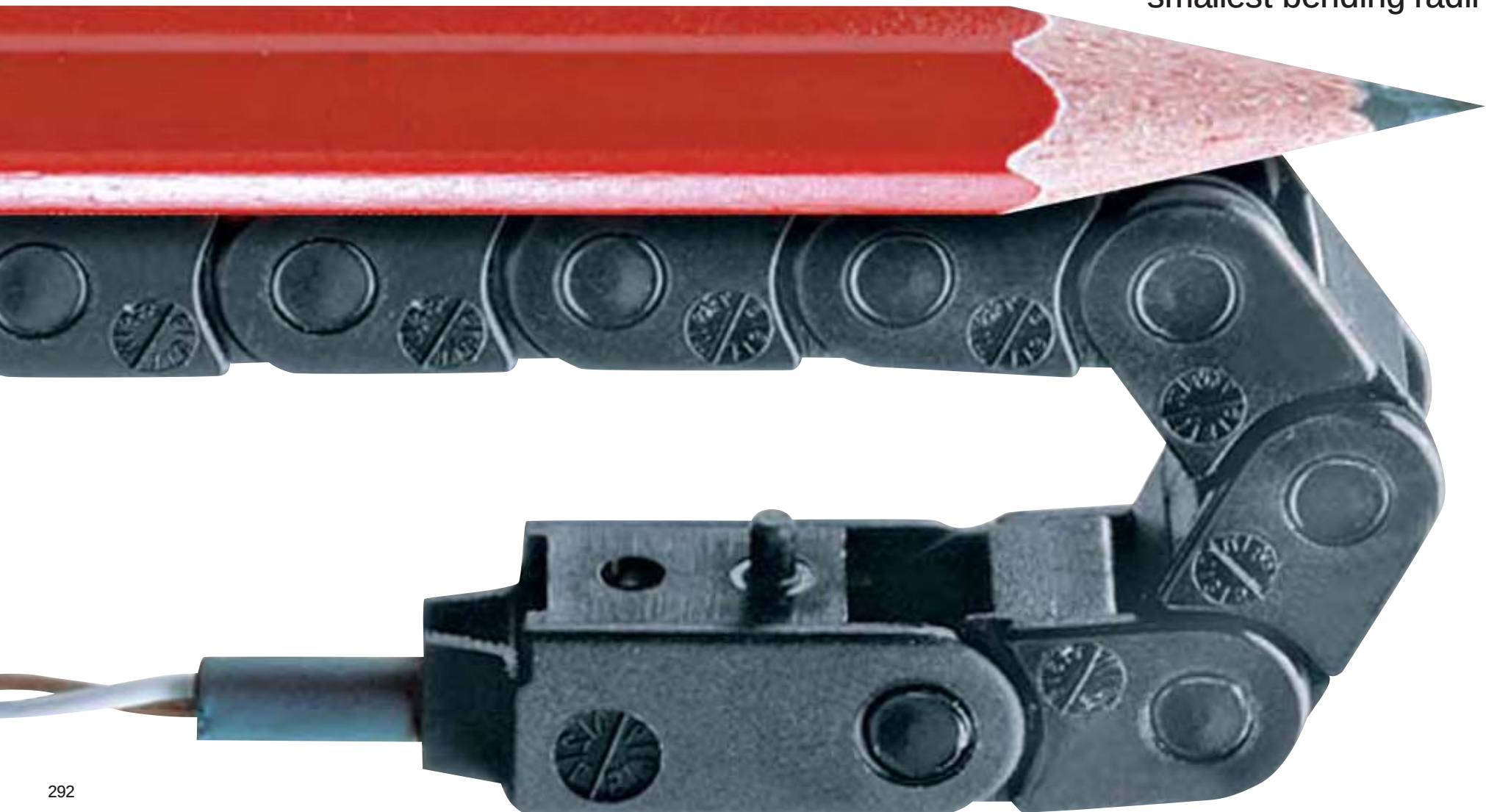


igus[®] E2 micro

Smallest inner heights,
smallest bending radii



Smallest inner heights and bending radii - E2 micro e-chains®

E2 micro are very small, one-piece or two-piece (B07/B09), lightweight e-chains® ideal for high dynamic applications. E2 micro e-chains® are very cost effective and available in thousands of variations. igus® also offers a host of accessories and fixation options. "Upgrades" to openable versions are available for many types. In these cases they are interchangeable and offer more services as repair kits or new installations.

Typical industries and applications

- Models (micro e-chains®)
- Automatic doors
- Vehicles
- Measuring machines
- Electric equipment
- Handlings
- Pick and place robots
- General machinery



Cleanroom test upon request



Special equipment: Electrically conductive ESD/ATEX version upon request



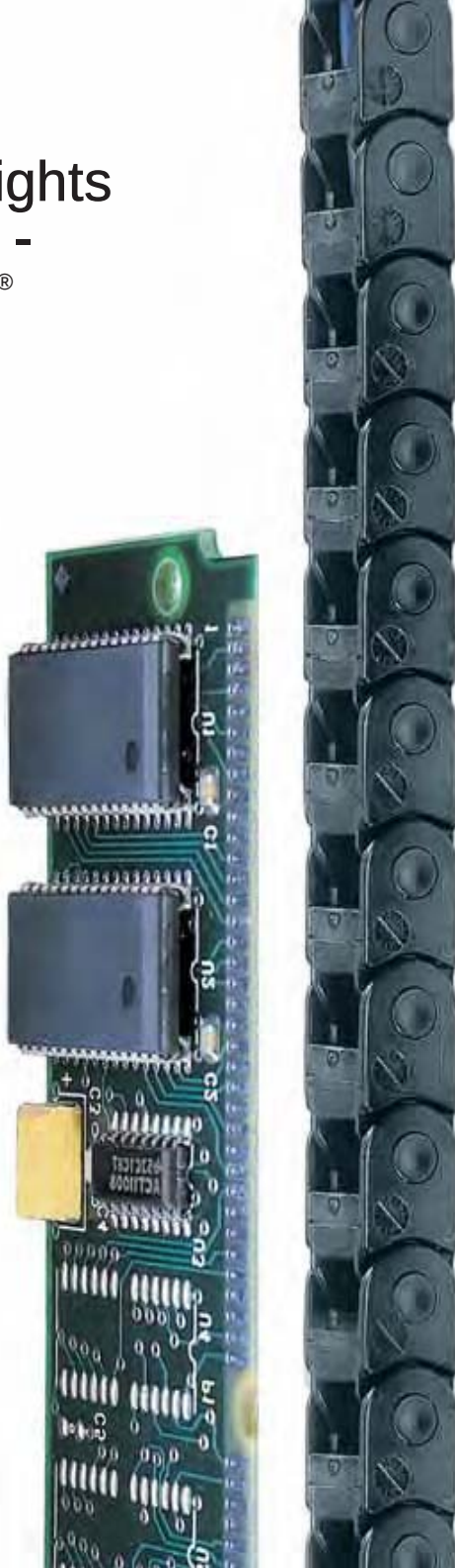
42 dB(A) tested in igus® lab, v = 1,0 m/s unsupported, Series 06.10.038.0



UL94-V2 classifications - for Series 03, 074, 094 (UL94-V0 upon request)



iF product design award
1989 igus® Series 05



igus® E2 micro e-chains® are robust for standing applications



Sliding door in train - UL94-V2 version



Sliding door in subway with igus® chainflex® CF9 cable for smallest spaces

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]	Bending radius <i>R</i> [mm]	Unsupported length max. [m]	Page
 E2 micro - One-piece e-chains® One-piece, non snap-open							
03	5,0	5 - 10	8,7 - 13,7	8,0	10 - 28	0,40	302
04	7,0	7 - 30	12,0 - 35,0	10,0	15 - 48	0,50	306
045	10,3	6 - 64	12,0 - 70,0	12,5	18 - 83	0,50	310
05	10,0	6 - 64	10,0 - 68,0	12,0	18 - 38	0,55	314
06	10,5	6 - 64	12,5 - 71,0	15,0	18 - 38	0,60	318
08	15,0	10 - 50	18,2 - 58,2	19,3	25 - 48	1,00	334

 E2 micro - One-piece e-chains® Snap-open along inner radius with film-hinge							
074	10,9	10	16,3 - 46,3	15,0	18 - 38	0,55	326
094	14,3	10	18,2	19,3	28 - 48	1,00	330

 E2 micro - Two-piece e-chains® Snap-open along outer radius							
B07	10,3	16 - 40	22,5 - 47,0	15,0	18 - 38	0,55	322
B09	14,3	16 - 40	24,2 - 48,2	19,3	28 - 48	1,00	340



Twist and click



Twist and separate



Speciality: E2 micro e-chains® - for smallest bending radii with chainflex® cables



Speciality two-piece e-chains®: B07 and B09 snap-open along outer radius. Series 074 and 094 snap-open along inner radius

 **Technical Data, overview** ► page 298

 **e-chain® links as single parts, overview** ► page 299

 **Configuration options and order keys, overview** ► page 300



Technical Data - System E2 micro



Gliding speed / acceleration (maximum) max. 3 [m/s] / max. 10 [m/s²]



Speed / acceleration FL_G max. max. 20 [m/s] / max. 200 [m/s²]

Speed / acceleration FL_B max. max. 3 [m/s] / max. 6 [m/s²]



Material - permitted temperature °C, igumid G -40° up to +120° C

Material - permitted temperature °C, igumid NB (only Series 03, 074, 094) -40° up to +80° C



Material lower part - permitted temperature °C, igumid G (only Series B07, B09) -40° up to +120° C

Material crossbar- permitted temperature °C, igumid NB (only Series B07, B09) -40° up to +80° C

Flammability class: igumid G = VDE 0304 IIC UL94-HB / igumid NB = VDE 0304 IIC UL94-V2

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

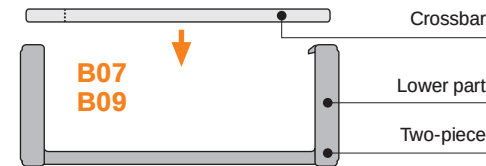
Installation methods overview, maximum travels - System E2 micro

e-chain® Series	Unsupported application	Vertical hanging	Vertical standing	Side mounted unsupported	Rotary application	Zig-zag application
03	≤ 0,40 m	upon request	upon request	upon request	with rework	upon request
04	≤ 0,50 m	upon request	upon request	upon request	with rework	upon request
045	≤ 0,50 m	upon request	upon request	upon request	with rework	upon request
05	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
06	≤ 0,60 m	upon request	upon request	upon request	with rework	upon request
B07	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
074	≤ 0,55 m	upon request	upon request	upon request	with rework	upon request
094	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request
08	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request
B09	≤ 1,00 m	upon request	upon request	upon request	with rework	upon request



Part No. one- and two-piece e-chain® links as single parts - System E2 micro

Two-piece, snap-open along outer radius

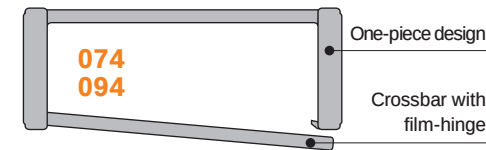


e-chain® Series	e-chain® Crossbar*	e-chain® Lower parts**
B07	090. <i>Bi</i>	B07. <i>Bi</i> 00. <i>R</i>
B09	090. <i>Bi</i>	B09. <i>Bi</i> 00. <i>R</i>

* Crossbar: supplement Part No. with required width index (*Bi*) Example: 090.10

** Lower parts: supplement Part No. with required width index (*Bi*) + 00 and radius (*R*) Example: B07.1000.10

One-piece design, snap-open along inner radius



e-chain® Series	One-piece e-chain® link	Crossbar with film-hinge
074	one-piece design	snap-open
094	one-piece design	snap-open

One-piece design, non snap-open



e-chain® Series	One-piece e-chain® link
03	one-piece design, non snap-open
04	one-piece design, non snap-open
045	one-piece design, non snap-open
05	one-piece design, non snap-open
06	one-piece design, non snap-open
08	one-piece design, non snap-open



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

	Standard	NC-Version - (no camber) without pretension	Reverse bending radius for circular movements	ATEX / ESD classified e-chains® 
Part No. Standard	Part No. NC-Material	Part No. RBR	Part No. ESD-Material	
				
 08.50.R.0	08.50.R.0.NC	08.50.R1/R2.0	08.50.R.0.ESD	
 Delivery time* 24h or today!	Delivery time* 2-5 work days	(2-5 work days with express surcharge) Delivery time* 5-10 work days	Delivery time* 10 work days	

*Delivery time means time until shipping of goods (after technical release)

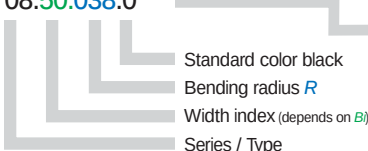
Order example | Order key and color options

 Order example for complete e-chain® Series 08 (1,0 m), color black, with mounting brackets and interior separation:

e-chain® (1,0 m)	Please indicate e-chain® length or number of links: 1,0 m or 50 links	08.50.038.0
+ Mounting brackets	1 set (+ tiewrap plates)	080.50.12PZ
+ Interior separation	with 2 separators assembled every 2 nd link	2 x B09.2.1

Order text: 1,0 m 08.50.038.0 + 080.50.12PZ + 2 x B09.2.1


Order key
08.50.038.0



Color options for e-chains® and e-tubes

Color	Order index	Color	Order index
 Black Standard, from stock!	.0	 White special color	.1
 Slate grey only ESD material	.ESD	 Gray white special color	.1S
 Gray brown only HT material	.HT	 Orange special color	.2
 Gray special color only e-chains*	.3	 Yellow special color	.4
 Dusty grey special color only e-tubes.	.31	 Light grey special color	.14

Black e-chains* available from stock!
Delivery time* for special colors: from 5 work days

 Available from stock. Delivery time* in 24h or today!
*Delivery time means time until shipping of goods (after technical release)



Series 03 - Limited installation space for the smallest, dirt-repellent igus® e-chain®. spray-painting robot shown here

Next generation of small igus® e-chains®

- Lighter, more stable and easier to open
- In 2 designs and 2 sizes available: 10 mm, 15 mm
- An e-chain® opener is included with every Series that can be opened, which significantly reduces installation time
- +25% more unsupported lengths compared to Series 08
- Many accessories More information ► www.igus.eu/E2.1open



Mounting bracket
with integrated
strain relief

Very lightweight,
cost-effective

One-piece design,
non snap-open

Dirt-repellent
exterior

"Push-button principle"
for better stability



Original size 1:1
Outer height 8 mm

+ Smallest Spaces

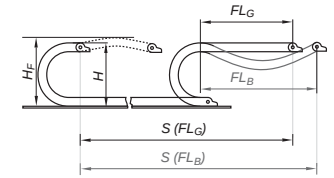
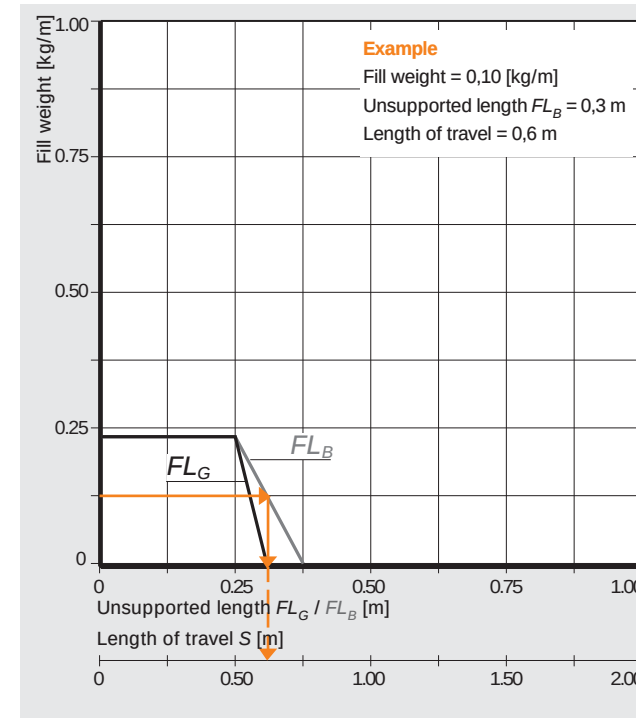
When to use the Series 03 E2 micro:

- Smallest igus® e-chain® - Inner dimensions: 5 x 5 mm
- If a very small e-chain® with 5,0 mm inner height and smallest bending radii is required
- For inner widths up to 10 mm
- For unsupported lengths up to 0,40 m and fill weights up to 0,24 kg/m
- If a lightweight and cost-effective e-chain® is required
- If a one-piece, non snap-open e-chain® is required



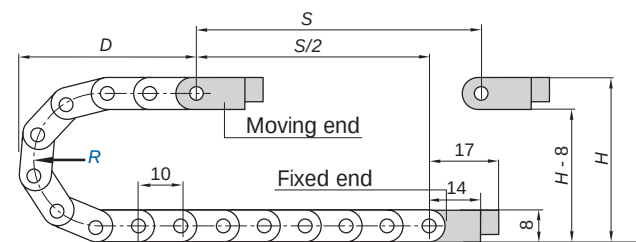
When to use a different igus® Series:

- If snap-open links are required
- Series 047 zipper, page 238
- If quick insertion of cables with preassembled connectors is required
- Series E03 easy chain®, page 156



Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95



Technical Data

Speed, material, temperature and flammability class ► page 298

Pitch = 10 mm/link
Links/m = 100 (1000 mm)
Chain length = $S/2 + K$

R	010	012	015	018	028
H	28	32	38	44	64
D	29	31	34	37	47
K	55	60	70	80	110

The required clearance height: $H_F = H + 10$ mm (with 0,1 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/03



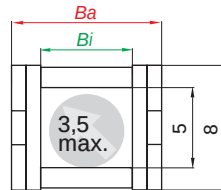
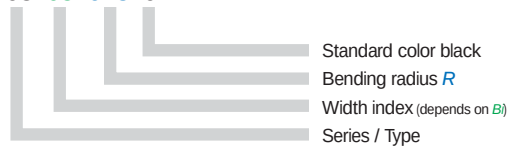
Series 03 | One-piece, non snap-open e-chain®

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
03. 05 . <i>R</i> .0	5	8,7	010 012 015 018 028	~ 0,04
03. 07 . <i>R</i> .0	7	10,7	010 012 015 018 028	~ 0,05
03. 10 . <i>R</i> .0	10	13,7	010 012 015 018 028	~ 0,06

Supplement Part No. with required radius (*R*). Example: 03.05.028.0



Order key
03. 05. 028. 0



e-chain® links as single parts, overview ► page 299

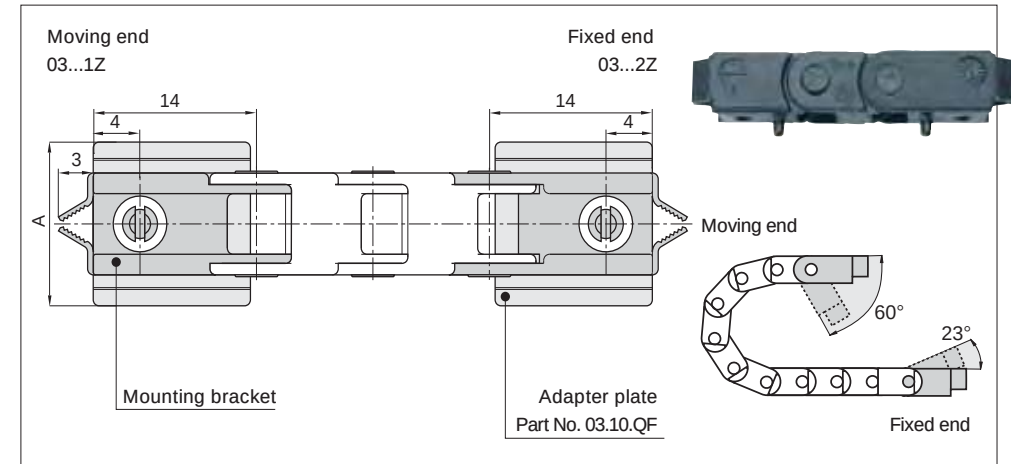


Configuration options and order keys, overview ► page 300



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

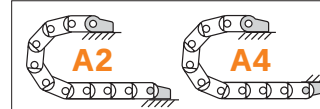


Polymer pivoting, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set	Dim. A [mm]
.05. ►	03.05. 12Z	8,7
.07. ►	03.07. 12Z	10,7
.10. ►	03.10. 12Z	13,7

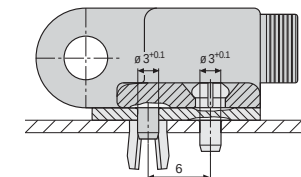


- One-piece mounting bracket
- With integrated strain relief
- Corrosion-resistant
- Adapter plate for rapid installation



Possible installation conditions:
For the preassembled mode
please add index **A2** or **A4**
► e.g. 03.05.1Z**A2**

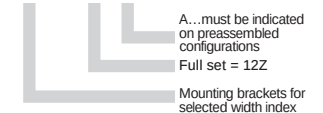
Additional Features



Adapter plate for rapid installation: for all sizes of Part No. 03.10.QF
The adapter has broken edges so that it can be adapted to the respective chain width.
It is not absolutely necessary when attaching the mounting brackets. The mounting brackets can also be screwed on without the adapter plate.

Part No. structure

03.05. 12Z **A2**



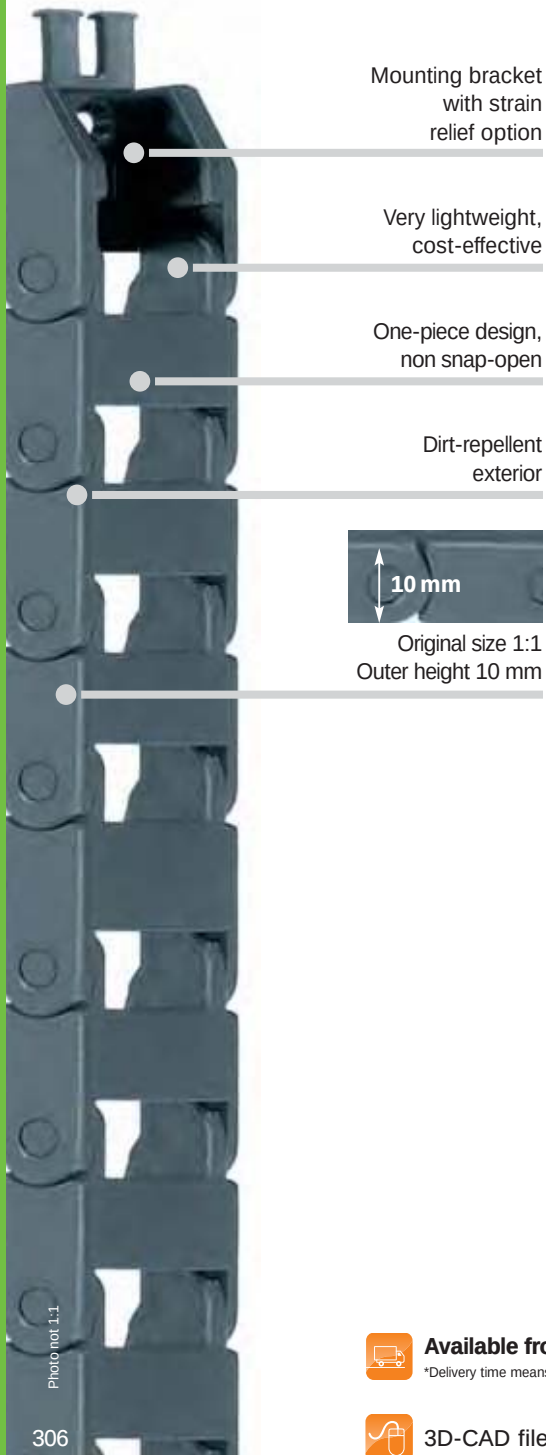
Single-part order

Mounting bracket Moving end

03.05. 1Z **A2** (preassembled)

Mounting bracket Fixed end

03.05. 2Z **A2** (preassembled)



+ Low Weight

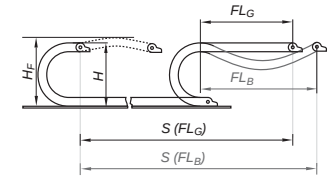
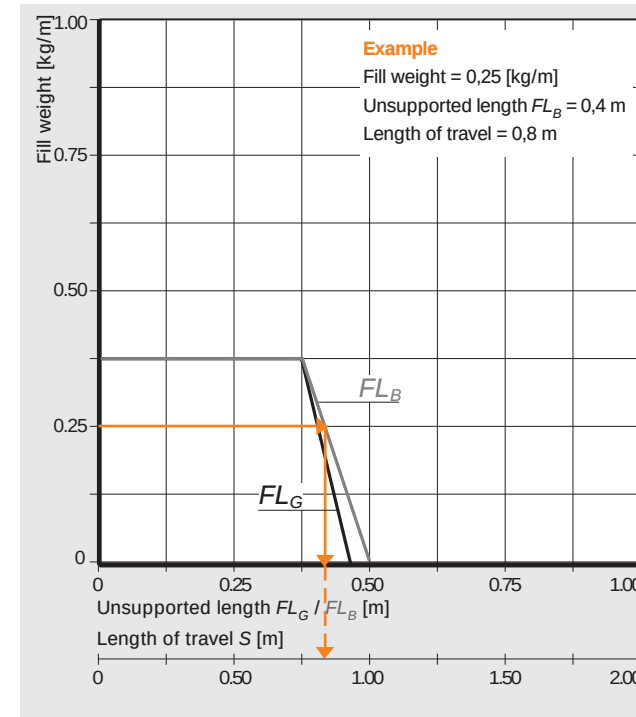
When to use the Series 04 E2 micro:

- Small igus® e-chain® - interior dimensions 7 x 7 mm
- If a small e-chain® with an inner height of 7,0 mm and small bending radii is required
- For inner widths up to 30 mm
- For unsupported lengths up to 0,50 m and fill weights up to 0,35 kg/m
- If a lightweight and cost-effective e-chain® is required
- If a one-piece, non snap-open e-chain® is required



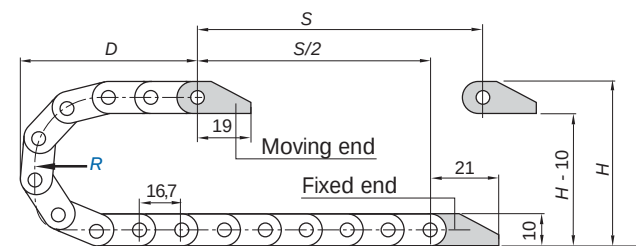
When to use a different igus® Series:

- If snap-open links are required
- Series 047 zipper, page 238
- If quick insertion of cables with preassembled connectors is required
- Series E04 easy chain®, page 160



Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95



Technical Data

Speed, material, temperature and flammability class ► page 298

Pitch = 16,7 mm/link
Links/m = 60 (1002 mm)
Chain length = $\frac{S}{2} + K$

R	015	018	028	038	048
H	40	46	66	86	106
D	45	48	58	68	78
K	85	90	125	155	185

The required clearance height: $H_F = H + 5$ mm (with 0,1 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/04



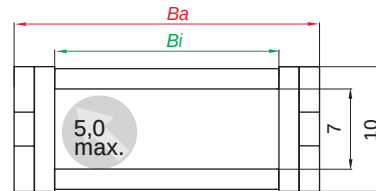
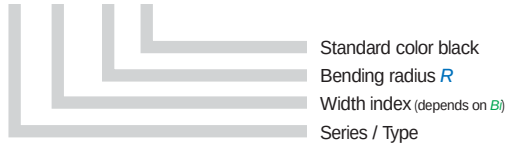
Series 04 | One-piece, non snap-open e-chain®

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
04. 07 .R.0	7	12	015 018 028 038 048	≈ 0,07
04. 10 .R.0	10	15	015 018 028 038 048	≈ 0,08
04. 16 .R.0	16	21	015 018 028 038 048	≈ 0,09
04. 20 .R.0	20	25	015 018 028 038 048	≈ 0,10
04. 30 .R.0	30	35	015 018 028 038 048	≈ 0,11

Supplement Part No. with required radius (*R*). Example: 04.10.028.0



Order key
04. 10. 028. 0



e-chain® links as single parts, overview ► page 299

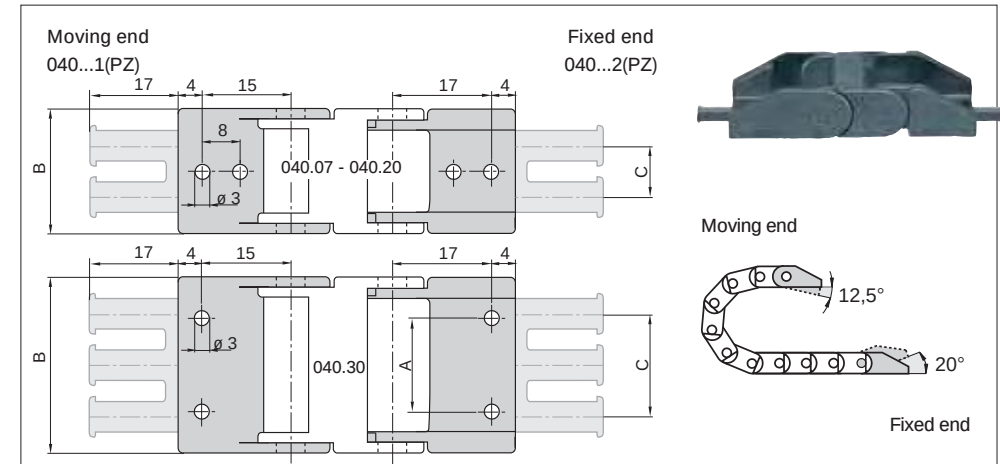


Configuration options and order keys, overview ► page 300



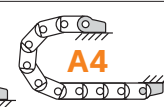
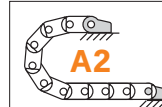
Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



Polymer pivoting, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Number of teeth
.07.1)	040.07.12PZ	040.07.12	—	12	—	1
.10.	040.10.12PZ	040.10.12	—	15	—	1
.16.	040.16.12PZ	040.16.12	—	21	10	2
.20.	040.20.12PZ	040.20.12	—	25	10	2
.30.	040.30.12PZ	040.30.12	22	35	20	3



Possible installation conditions: For the preassembled mode please add index **A2** or **A4** ► e.g. 040.10.12 PZ **A2**

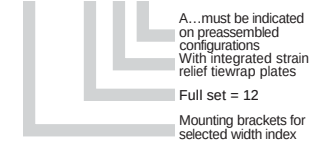
1) For width index .07. A1 and A3 also possible



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure

040.10.12 PZ **A2**



Single-part order

Mounting bracket Moving end

040.10.1 PZ **A2** (preass. + tiewrap plate)

Mounting bracket Fixed end

040.10.2PZ **A2** (preass. + tiewrap plate)

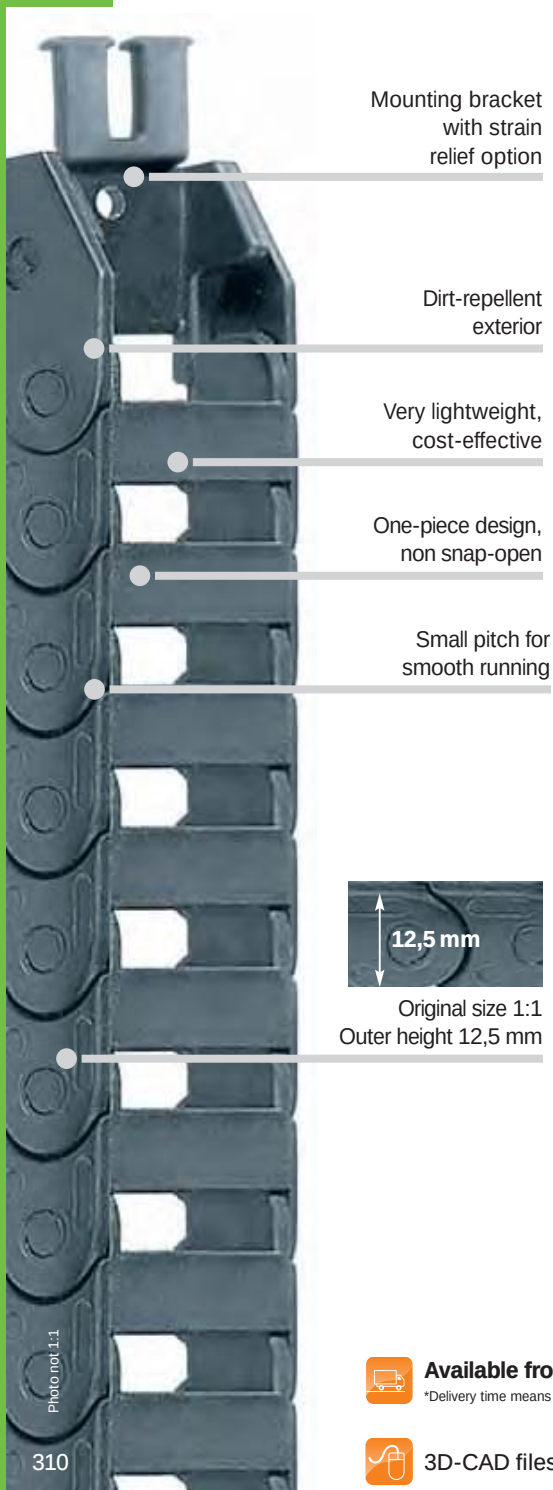
Additional Features



Quicksnap - the complete, detachable mounting unit. Part No. 040.07.QS available from stock



Quickfix - mounting bracket with dowel, available upon request



+ Small pitch, smooth running

When to use the Series 045 E2 micro:

- If a small e-chain® with an inner height of 10,3 mm and small pitch is required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,50 m and fill weights up to 0,25 kg/m
- Small pitch for smooth running
- For very lightweight applications - recommended for low inertia applications
- If a one-piece, non snap-open e-chain® is required



When to use a different igus® Series:

- If snap-open links are required
- Series 047 zipper, page 238
- If quick insertion of cables with preassembled connectors is required
- Series E06 easy chain®, page 168
- If extra torsional rigidity is required
- Series 06 E2 micro, page 318

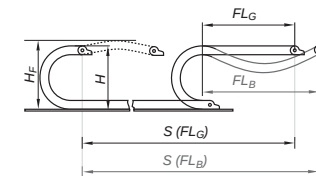
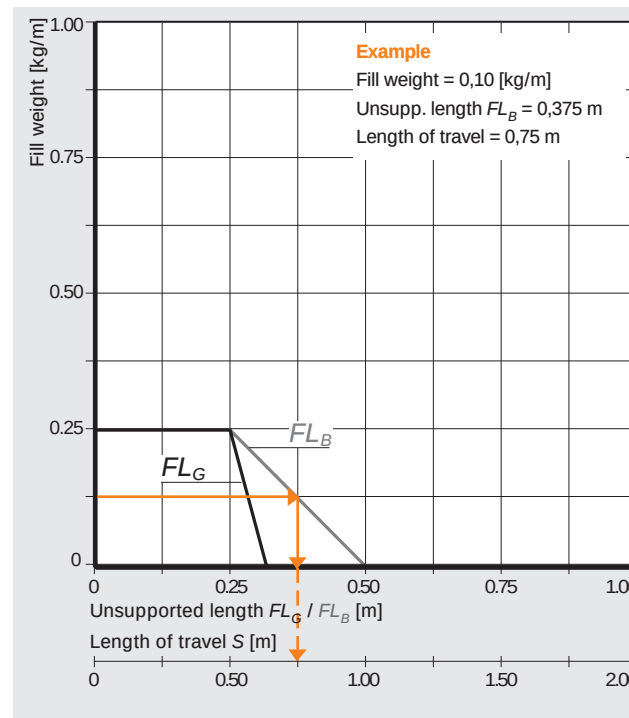


Original size 1:1
Outer height 12,5 mm



Series 046 with molded-in separator available.

More information ► page 312



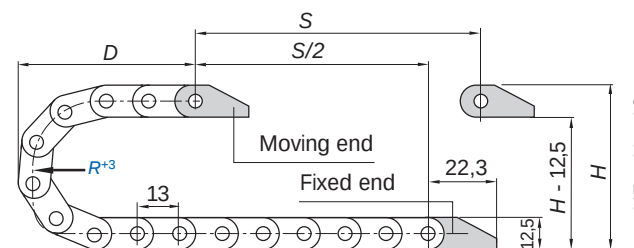
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 298

Pitch = 13 mm/link
Links/m = 77 (1001 mm)
Chain length = $\frac{S}{2} + K$



R	018	028	038	083*
H	48,5	68,5	88,5	178,5
D	44	54	64	109
K	85	115	150	290

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)

*Radius 083 only for 045.20. For all other widths available upon request, please consult igus® for delivery time



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/045



Series 045 | One-piece, non snap-open e-chain®

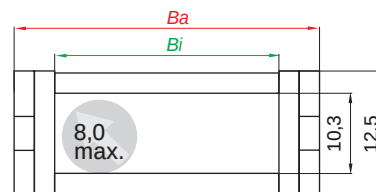
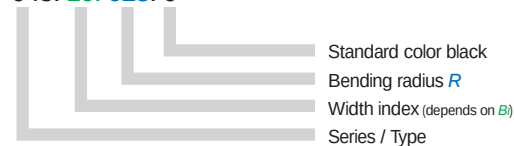
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
045.06 .R.0	6	12	018 028 038 083*	≈ 0,09
045.10 .R.0	10	16	018 028 038 083*	≈ 0,10
045.16 .R.0	16	22	018 028 038 083*	≈ 0,11
045.20 .R.0	20	26	018 028 038 083*	≈ 0,13
045.30 .R.0	30	36	018 028 038 083*	≈ 0,16
045.64 .R.0	64	70	018 028 038 083*	≈ 0,19

*Radius available upon request, please consult igus® for delivery time

Supplement Part No. with required radius (*R*). Example: 045.10.028.0



Order key
045.10.028.0



e-chain® links as single parts, overview ► page 299



Configuration options and order keys, overview ► page 300



Available from stock. Delivery time* in 24h or today!

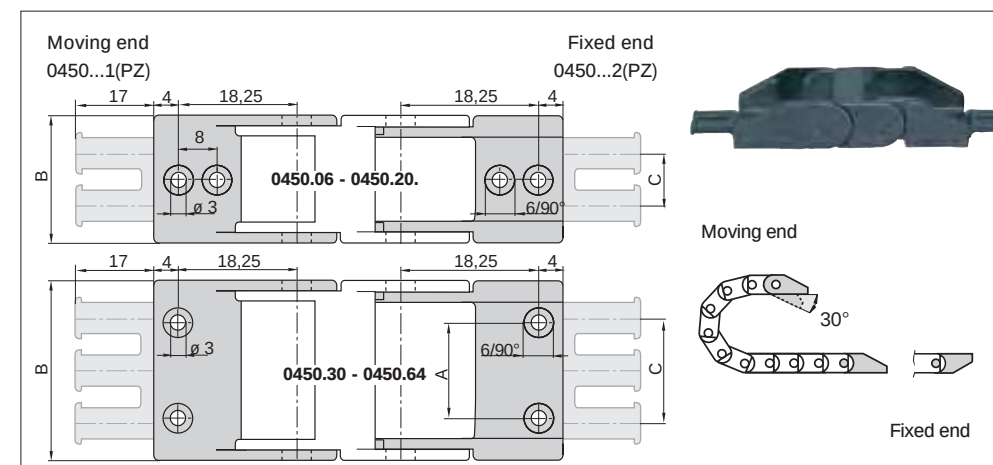
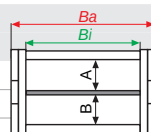
*Delivery time means time until shipping of goods (after technical release)

Series 046 | Optional | With molded-in separation

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Dim. A [mm]	Dim. B [mm]	Weight [kg/m]
046.16 .R.0	16	22	018 028 038	4,6	4,6	≈ 0,14

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

Supplement Part No. with required radius (*R*). Example: 046.16.028.0



Polymer one-piece, one side pivoting | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Number of teeth
.06. ►	0450.06.12PZ	0450.06.12	—	12	—	1
.10. ►	0450.10.12PZ	0450.10.12	—	16	—	1
.16. ►	0450.16.12PZ	0450.16.12	—	22	10	2
.20. ►	0450.20.12PZ	0450.20.12	—	26	10	2
.30. ►	0450.30.12PZ	0450.30.12	22	36	20	3
.64. ►	0450.64.12PZ	0450.64.12	56	70	50	6

Mounting bracket with strain relief tiewrap plate has reductions of $\varnothing 3$ mm / $\varnothing 6$ mm, 90°.

Mounting bracket without strain relief tiewrap plate only has holes of $\varnothing 3$ mm.



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure

0450.10.12 PZ A2



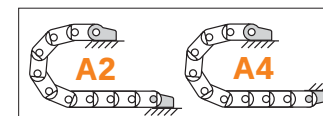
Single-part order

Mounting bracket Moving end

0450.10.1 PZ A2 (preass. + tiewrap plate)

Mounting bracket Fixed end

0450.10.2PZ A2 (preass. + tiewrap plate)



Possible installation conditions:
For the preassembled mode please add index A2 or A4
► e.g. 045.10.1ZA2



+ Low weight, high dynamic

When to use the Series 05 E2 micro:

- If a small e-chain® with an inner height of 10 mm and small bending radii is required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,35 kg/m
- For very lightweight applications - recommended for low inertia applications
- If a one-piece, non snap-open e-chain® is required

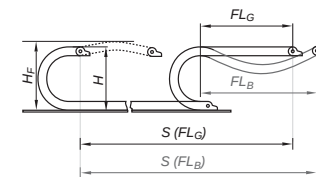
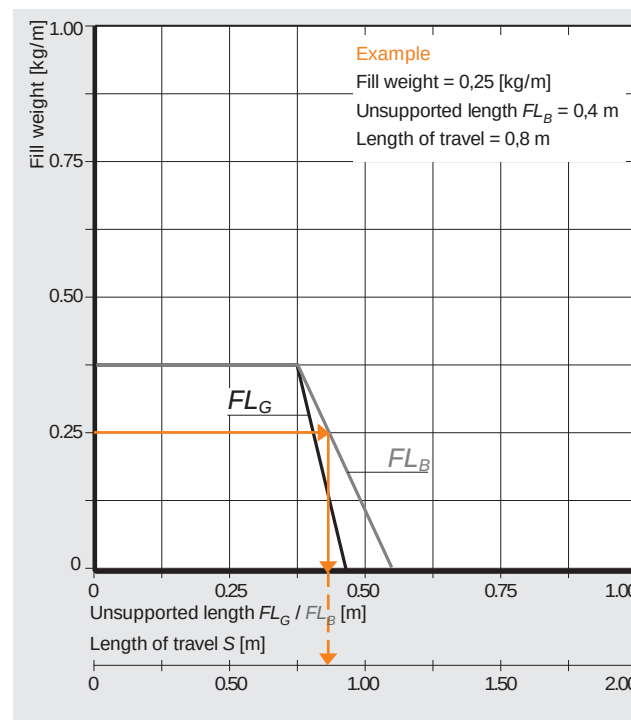


When to use a different igus® Series:

- If snap-open links are required
- ▶ Series 07 zipper, page 242
- If quick insertion of cables with preassembled connectors is required
- ▶ Series E06 easy chain®, page 168
- If extra torsional rigidity is required
- ▶ Series 06 E2 micro, page 318

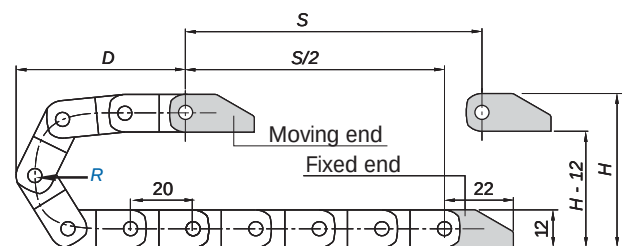


iF product design award
1989 igus® Series 05



Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ▶ Design, page 95



Technical Data

Speed, material, temperature and flammability class ▶ page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $S/2 + K$

R	018	028	038
H	48	68	88
D	54	64	74
K	100	130	160

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/05



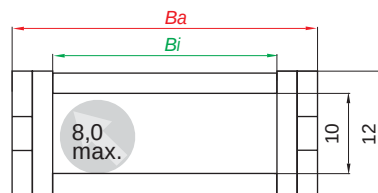
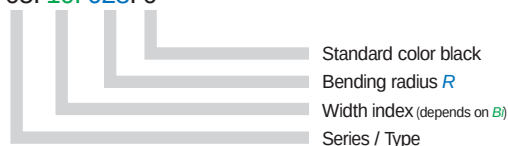
Series 05 | One-piece, non snap-open e-chain®

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
05. 06 .R.0	6	10	018 028 038	≈ 0,06
05. 10 .R.0	10	14	018 028 038	≈ 0,07
05. 16 .R.0	16	20	018 028 038	≈ 0,07
05. 20 .R.0	20	24	018 028 038	≈ 0,08
05. 30 .R.0	30	34	018 028 038	≈ 0,09
05. 64 .R.0	64	68	018 028 038	≈ 0,19

Supplement Part No. with required radius (*R*). Example: 05.10.028.0



Order key
05. 10. 028. 0



e-chain® links as single parts, overview ► page 299



Configuration options and order keys, overview ► page 300

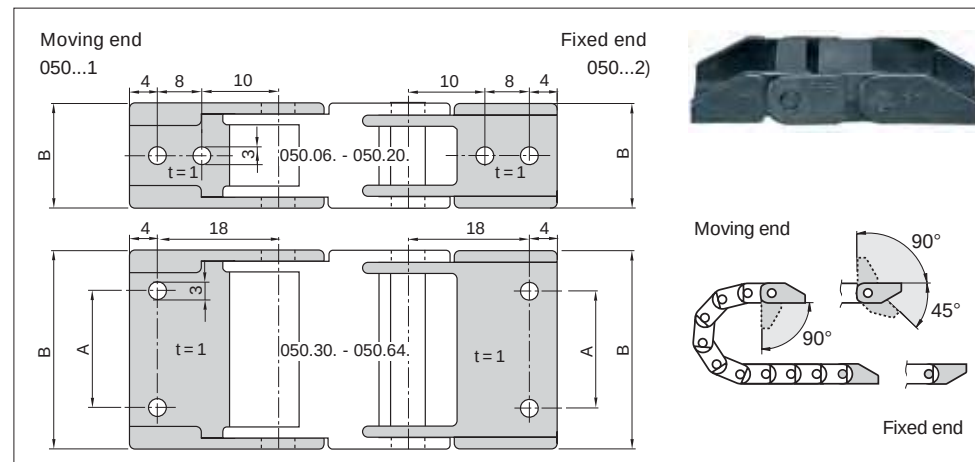


Available from stock. **Delivery time*** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

Next generation of small igus® e-chains®

- Lighter, more stable and easier to open
- In 2 designs and 2 sizes available: 10 mm, 15 mm
- An e-chain® opener is included with every Series that can be opened, which significantly reduces installation time
- +25% more unsupported lengths compared to Series 08
- Many accessories More information ► www.igus.eu/E2.1open



Polymer one-piece, one side pivoting | Universal for e-chains® Recommended for unsupported applications

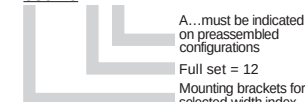
Width Index	Part No. full set one-piece	Dim. A [mm]	Dim. B [mm]
.06. ►	050.06.12	—	10,7
.10. ►	050.10.12	—	14,7
.16. ►	050.16.12	—	20,7
.20. ►	050.20.12	—	24,7
.30. ►	050.30.12	22	34,7
.64. ►	050.64.12	56	68,7



- One-piece mounting bracket
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end

Part No. structure

050.10.12 A1



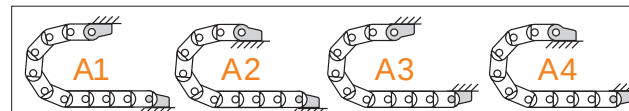
Single-part order

Mounting bracket Moving end

050.10.1 PZ A1 (preassembled)

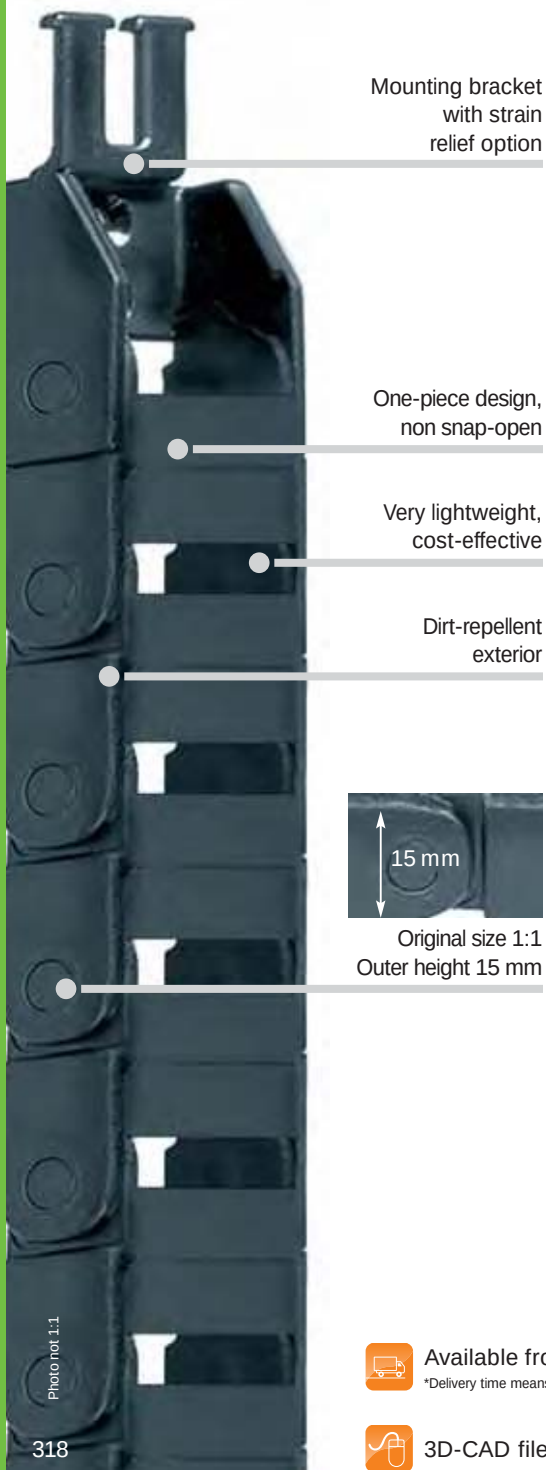
Mounting bracket Fixed end

050.10.2PZ A1 (preassembled)



Possible installation conditions for assembled mounting brackets:

For the preassembled mode please add index A1... A4 ► e.g. 050.10.12PZA1

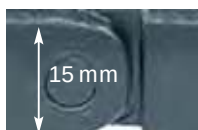


Mounting bracket
with strain
relief option

One-piece design,
non snap-open

Very lightweight,
cost-effective

Dirt-repellent
exterior



Original size 1:1
Outer height 15 mm

+ Low weight, high dynamic

When to use the Series 06 E2 micro:

- If a small e-chain® with an inner height of 10,5 mm and small bending radii is required
- For inner widths up to 64 mm
- For unsupported lengths up to 0,62 m and fill weights up to 0,48 kg/m
- If extra torsional rigidity is required
- If a one-piece, non snap-open e-chain® is required

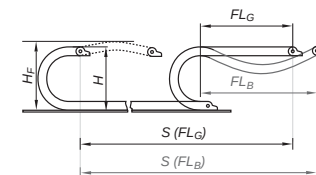
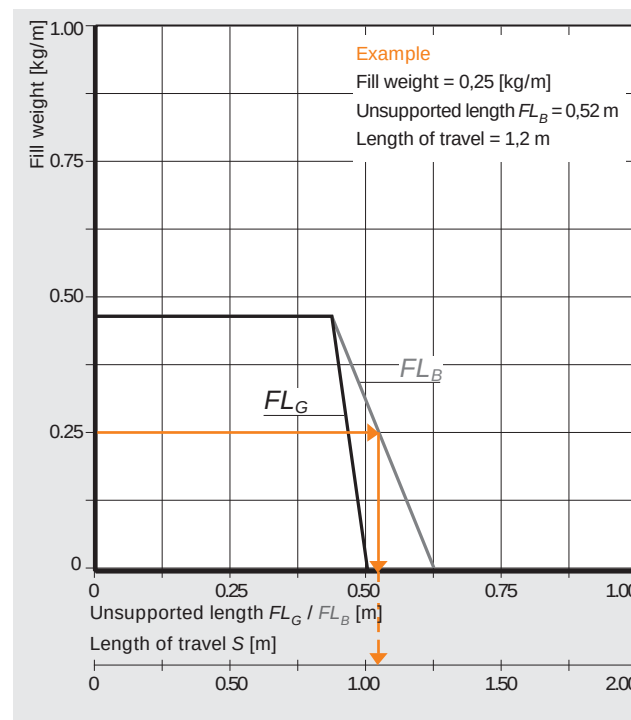


When to use a different igus® Series:

- If snap-open links are required
- ▶ Series 07 zipper, page 242
- ▶ Series B07 E2 micro, page 322
- If quick insertion of cables with preassembled connectors is required
- ▶ Series E06 easy chain®, page 168
- If very quiet operation is required
- ▶ Series 045 E2 micro, page 310



Series 06 with molded-in
separator available.
More information ▶ page 320



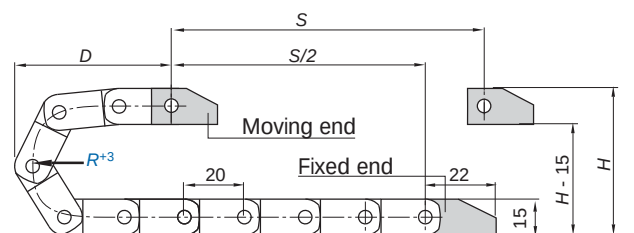
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ▶ Design, page 95

Technical Data

Speed, material, temperature and flammability class ▶ page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $S/2 + K$



R	018	028	038
H	51	71	91
D	56	66	76
K	100	130	160

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R + \text{"safety"}$



Available from stock. **Delivery time*** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/06



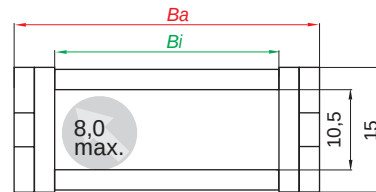
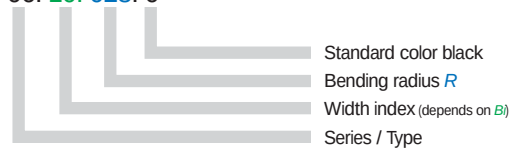
Series 06 | One-piece, non snap-open e-chain®

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
06. 06 .R.0	6	12,5	018 028 038	≈ 0,13
06. 10 .R.0	10	16,5	018 028 038	≈ 0,14
06. 16 .R.0	16	22,5	018 028 038	≈ 0,16
06. 20 .R.0	20	27	018 028 038	≈ 0,17
06. 30 .R.0	30	37	018 028 038	≈ 0,20
06. 40 .R.0	40	47	018 028 038	≈ 0,23
06. 50 .R.0	50	57	018 028 038	≈ 0,26
06. 64 .R.0	64	71	018 028 038	≈ 0,30

Supplement Part No. with required radius (*R*). Example: 06.10.028.0



Order key
06. 10. 028. 0



e-chain® links as single parts, overview ► page 299



Configuration options and order keys, overview ► page 300

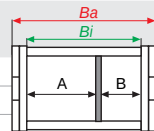


Available from stock. Delivery time* in 24h or today!

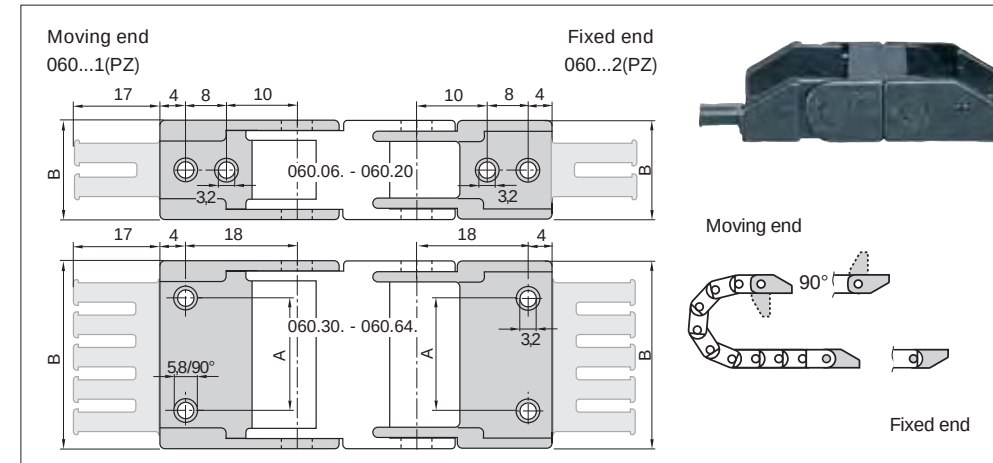
*Delivery time means time until shipping of goods (after technical release)

Series 06 | Optional | With molded-in vertical separation

non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Dim. A [mm]	Dim. B [mm]	Weight [kg/m]
06. 16 .R.0.S1	16	22	018	8,5	6,3	≈ 0,18



Supplement Part No. with required radius (*R*). Example: 06.16.018.0.S1

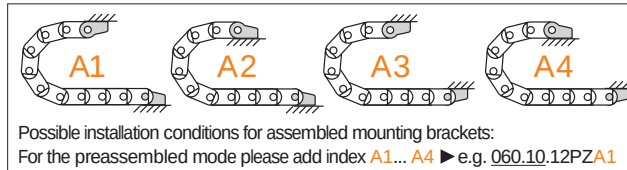


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.06. ►	060.06.12PZ	060.06.12	—	12,5	1
.10. ►	060.10.12PZ	060.10.12	—	16,5	1
.16. ►	060.16.12PZ	060.16.12	—	22,5	2
.20. ►	060.20.12PZ	060.20.12	—	27,0	2
.30. ►	060.30.12PZ	060.30.12	22	37,0	3
.40. ►	060.40.12PZ	060.40.12	32	47,0	4
.50. ►	060.50.12PZ	060.50.12	42	57,0	5
.64. ►	060.64.12PZ	060.64.12	56	71,0	6

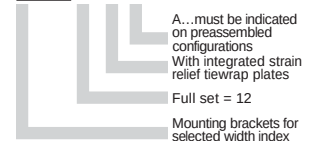


- One-piece mounting bracket
- Available with or without strain relief tie-wrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Part No. structure

060.10.12 PZ A1



Single-part order

Mounting bracket Moving end

060.10.1 PZ A1 (preass. + tie-wrap plate)

Mounting bracket Fixed end

060.10.2 PZ A1 (preass. + tie-wrap plate)

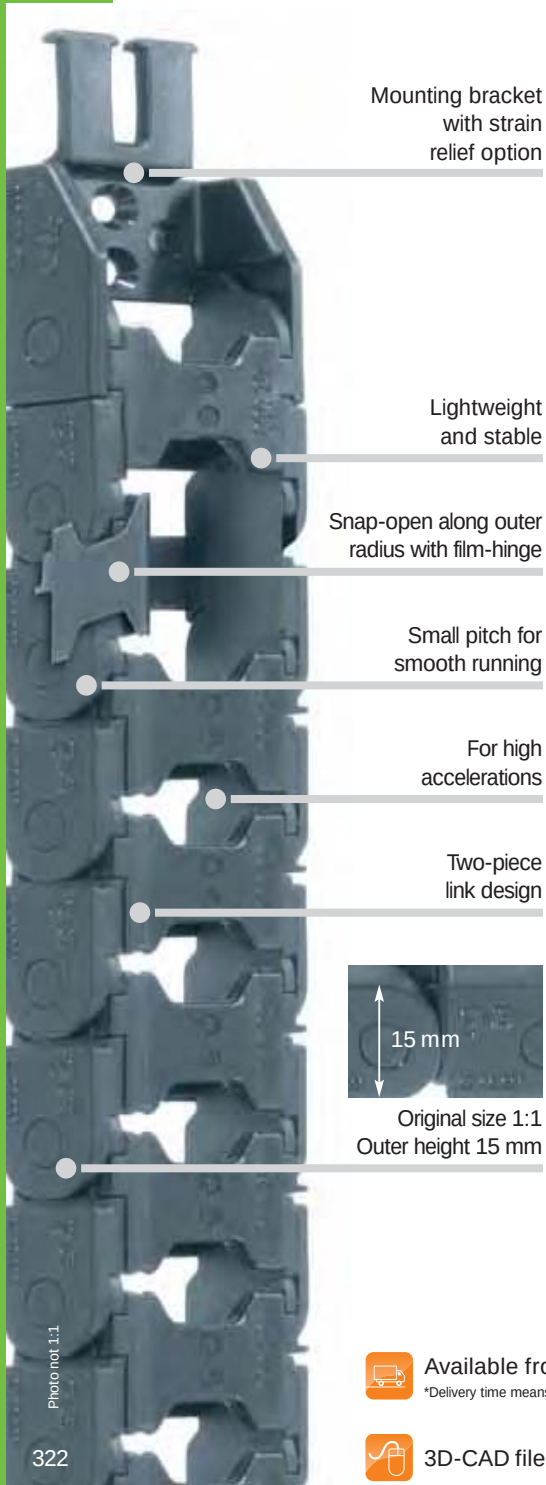
Additional Features



Quicksnap - the complete, detachable mounting unit. Part No. 060.10.QS, 060.16.QS, 060.20.QS, 060.40.QS available from stock



Quickfix - mounting bracket with dowel, available upon request



Mounting bracket
with strain
relief option

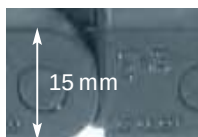
Lightweight
and stable

Snap-open along outer
radius with film-hinge

Small pitch for
smooth running

For high
accelerations

Two-piece
link design



Original size 1:1
Outer height 15 mm

+ Snap-open along outer radius

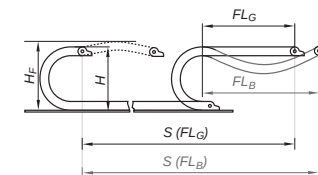
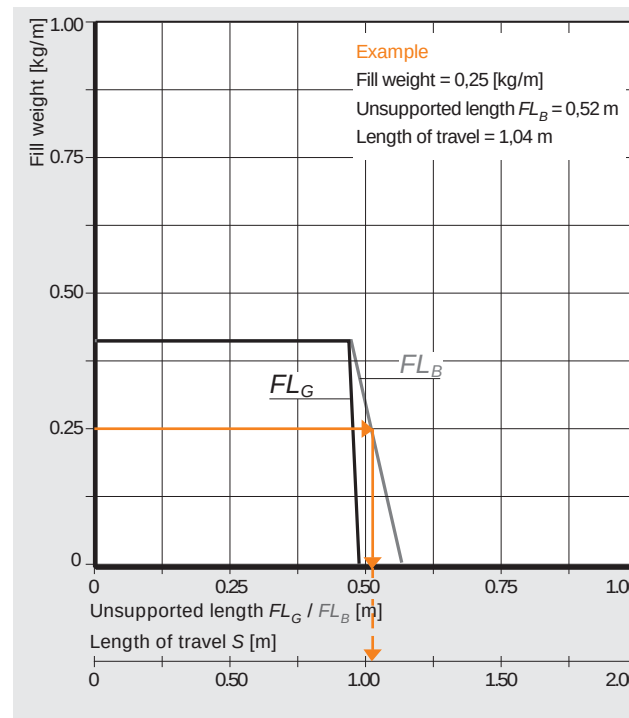
When to use the Series B07 E2 micro:

- If a small e-chain® with an inner height of 10,3 mm and smallest bending radii is required
- For inner widths up to 40 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,4 kg/m
- Small pitch, smooth running
- If a cost-effective, snap-open e-chain® is required
- If quick insertion of cables with preassembled connectors is required



When to use a different igus® Series:

- If snap-open links are not necessary
► Series 06 E2 micro, page 318
- If a fully enclosed e-tube is required
► Series R07 zipper-e-tube, page 246



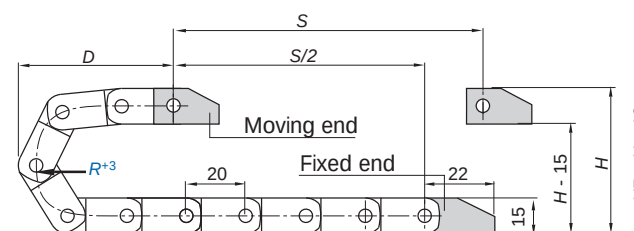
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $\frac{S}{2} + K$



R	018	028	038
H	51	71	91
D	56	66	76
K	100	130	160

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/B07



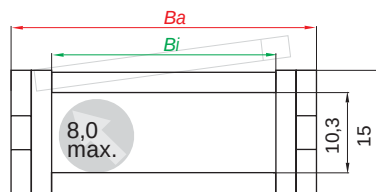
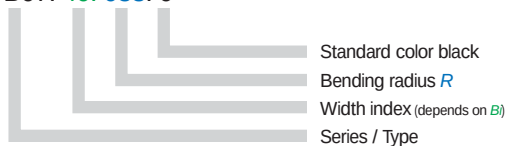
Series B07 | Two-piece link design, snap-open along outer radius

Snap-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
B07. 16 .R.0	16	22,5	018 028 038	≈ 0,16
B07. 20 .R.0	20	27	018 028 038	≈ 0,17
B07. 30 .R.0	30	37	018 028 038	≈ 0,20
B07. 40 .R.0	40	47	018 028 038	≈ 0,23

Supplement Part No. with required radius (*R*). Example: B07.40.038.0



Order key
B07. 40. 038. 0



e-chain® links as single parts, overview ► page 299

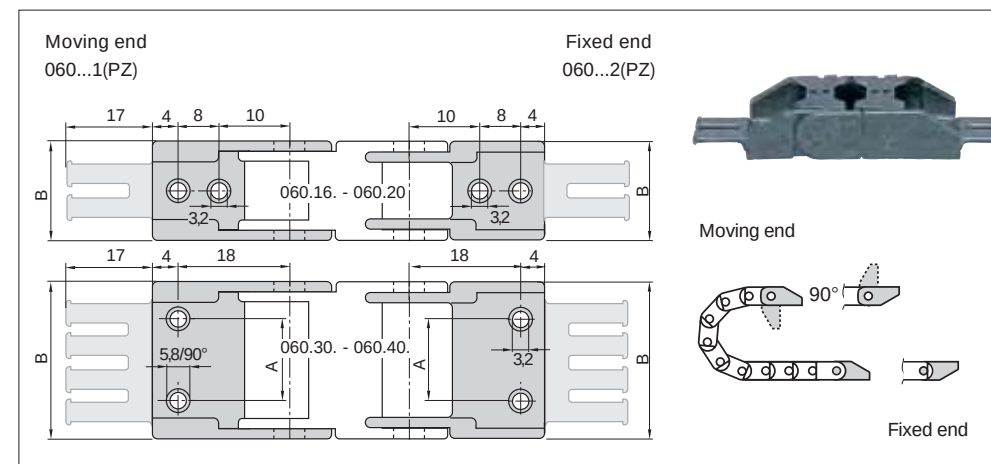


Configuration options and order keys, overview ► page 300



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

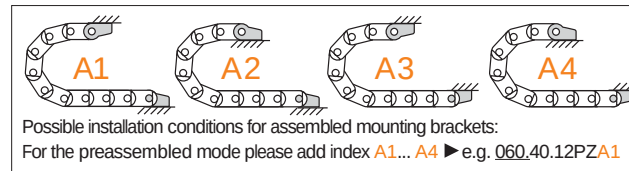


Polymer locking, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.16. ►	060.16. 12PZ	060.16. 12	—	22,5	2
.20. ►	060.20. 12PZ	060.20. 12	—	27,0	2
.30. ►	060.30. 12PZ	060.30. 12	22	37,0	3
.40. ►	060.40. 12PZ	060.40. 12	32	47,0	4



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Additional Features



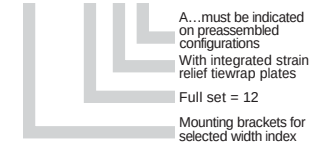
Quicksnap - the complete, detachable mounting unit. Part No. 060.10.QS, 060.16.QS, 060.20.QS, 060.40.QS available from stock



Quickfix - mounting bracket with dowel, available upon request

Part No. structure

060.40.12 PZ A1



Single-part order

Mounting bracket Moving end

060.40.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket Fixed end

060.40.2PZ A1 (preass. + tiewrap plate)

Mounting bracket
with integrated
strain relief option

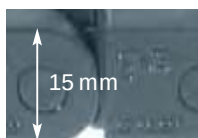
Closed
outside

Dirt-repellent
exterior

One-piece
link-design

Small pitch for
smooth running

Crossbar, snap-open along
inner radius with film-hinge



Original size 1:1
Outer height 15 mm

+ Snap-open along inner radius

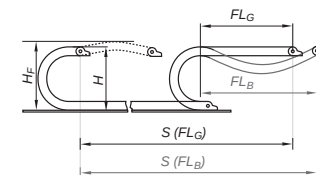
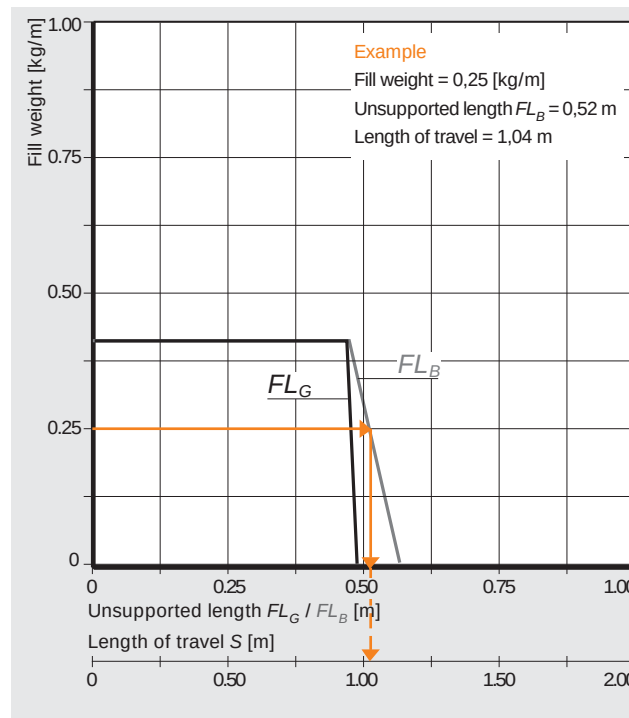
When to use the Series 074 E2 micro:

- If a small e-chain® with an inner height of 10,9 mm and small bending radii is required
- Inner width 10 mm
- For unsupported lengths up to 0,55 m and fill weights up to 0,4 kg/m
- Small pitch for smooth running
- If snap-open mechanism with film-hinge is required
- If quick insertion of cables with preassembled connectors is required



When to use a different igus® Series:

- If snap-open links are not necessary
- Series 06 E2 micro, page 318
- If a fully enclosed e-tube is required
- Series R07 zipper-e-tube, page 246



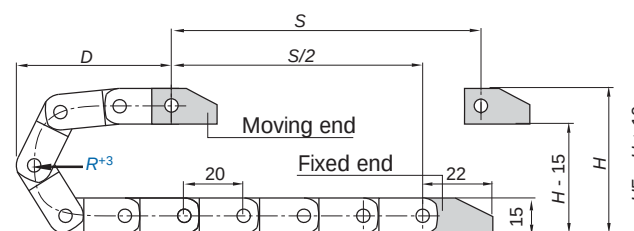
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $\frac{S}{2} + K$



R	018	028	038
H	51	71	91
D	56	66	76
K	100	130	160

The required clearance height: $H_F = H + 10$ mm (with 0,2 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"



Available from stock. **Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)



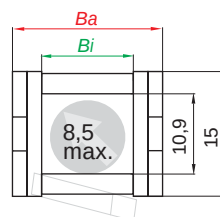
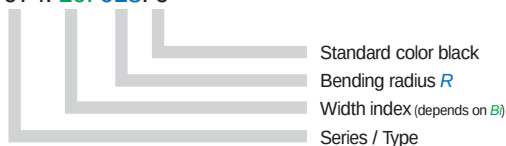
3D-CAD files, configurators, PDF ► www.igus.eu/eu/074



Series 074 | One-piece, snap-open along inner radius with film-hinge

Snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
074. 10 .R.0	10	16,3	018 028 038	≈ 0,15
074. 16 .R.0*	16	22,3	018 028 038	≈ 0,16
074. 20 .R.0*	20	26,3	018 028 038	≈ 0,17
074. 30 .R.0*	30	36,3	018 028 038	≈ 0,20
074. 40 .R.0*	40	46,3	018 028 038	≈ 0,23

*Width available upon request, please consult igus® for delivery time

Supplement Part No. with required radius (*R*). Example: 074.10.018.0Order key
074. 10. 018. 0

e-chain® links as single parts, overview ► page 299

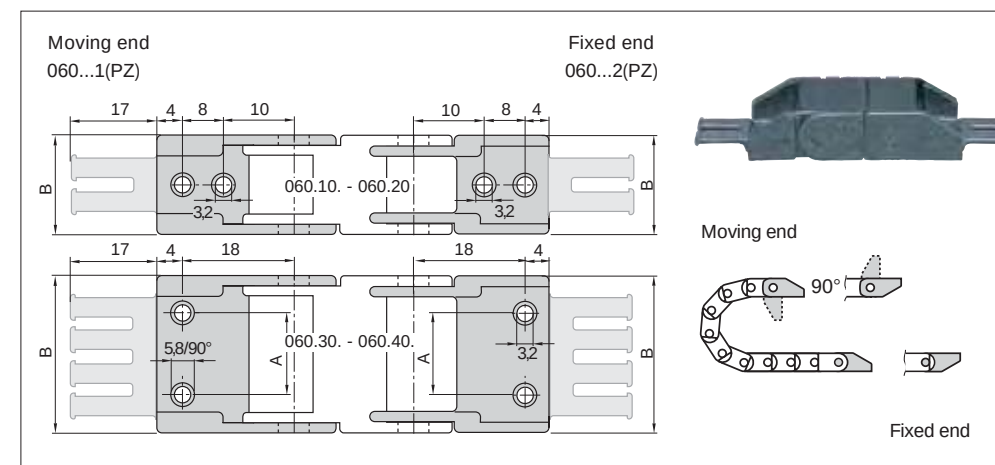


Configuration options and order keys, overview ► page 300



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

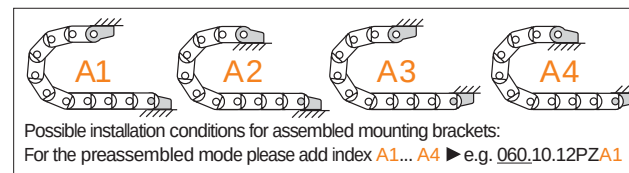


Polymer locking, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.10. ►	060.10. 12PZ	060.10. 12	—	16,5	1
.16. ►	060.16. 12PZ*	060.16. 12*	—	22,5	2
.20. ►	060.20. 12PZ*	060.20. 12*	—	27	2
.30. ►	060.30. 12PZ*	060.30. 12*	22	37	3
.40. ►	060.40. 12PZ*	060.40. 12*	32	47	4



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Additional Features



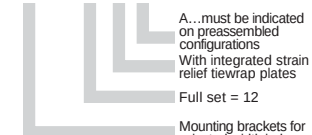
Quicksnap - the complete, detachable mounting unit. Part No. 060.10.QS, 060.16.QS, 060.20.QS, 060.40.QS available from stock



Quickfix - mounting bracket with dowel, available upon request

Part No. structure

060.10.12 PZ A1



Single-part order

Mounting bracket Moving end

060.10.1 PZ A1 (preass. + tiewrap plate)

Mounting bracket Fixed end

060.10.2PZ A1 (preass. + tiewrap plate)

Mounting bracket
with integrated
strain relief option

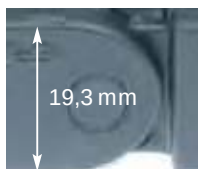
Closed
outside

Dirt-repellent
exterior

One-piece
link-design

Small pitch for
smooth running

Crossbar, snap-open along
inner radius with film-hinge



Original size 1:1
Outer height 19,3 mm

+ Snap-open along inner radius

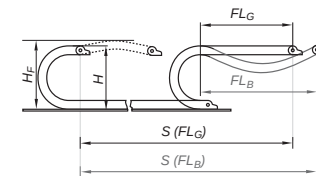
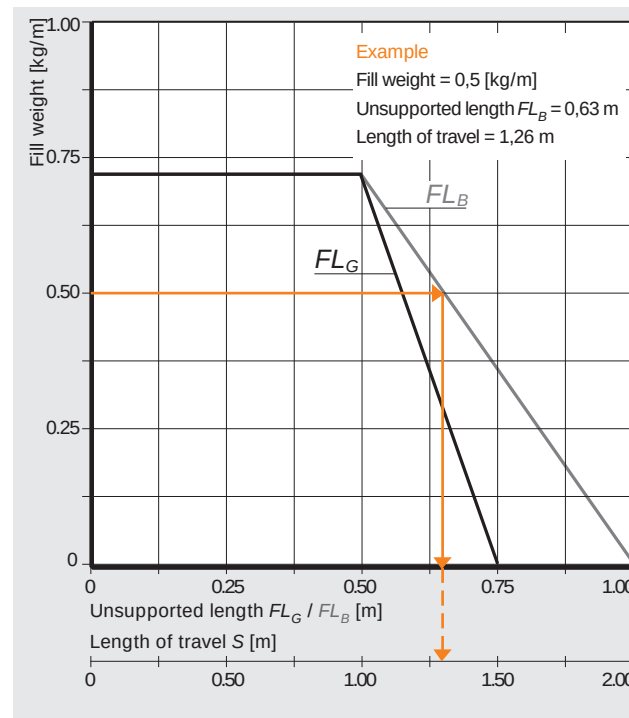
When to use the Series 094 E2 micro:

- If a small e-chain® with an inner height of 14,3 mm and small bending radii is required
- Inner width 10 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- Small pitch for smooth running
- If snap-open mechanism with film-hinge is required
- If quick insertion of cables with preassembled connectors is required



When to use a different igus® Series:

- If snap-open links are not necessary
- ▶ Series 08 E2 micro, page 334
- If a fully enclosed e-tube is required
- ▶ Series R09 zipper-e-tube, page 256



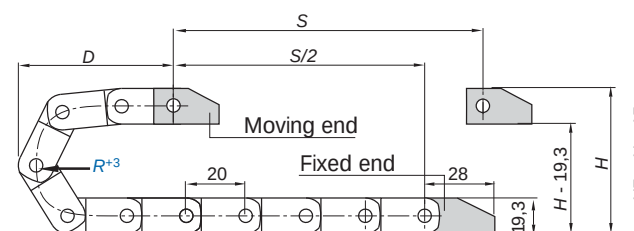
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ▶ Design, page 95

Technical Data

Speed, material, temperature and flammability class ▶ page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $\frac{S}{2} + K$



R	028	038	048
H	75	95	115
D	68	78	88
K	130	160	195

The required clearance height: $H_F = H + 15$ mm (with 0,3 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/094



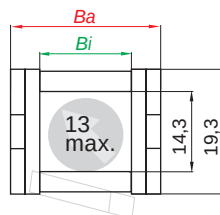
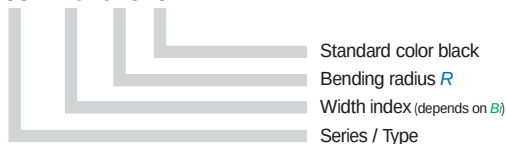
Series 094 | One-piece, snap-open along inner radius with film-hinge

Snap-open along inner radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
094. 10 .R.0	10	18,2	028 038 048	≈ 0,23
094. 16 .R.0*	16	24,2	028 038 048	≈ 0,24
094. 20 .R.0*	20	28,2	028 038 048	≈ 0,25
094. 30 .R.0*	30	38,2	028 038 048	≈ 0,28
094. 40 .R.0*	40	48,2	028 038 048	≈ 0,31

*Width available upon request, please consult igus® for delivery time

Supplement Part No. with required radius (*R*). Example: 094.10.028.0

Order key
094. 10. 028. 0

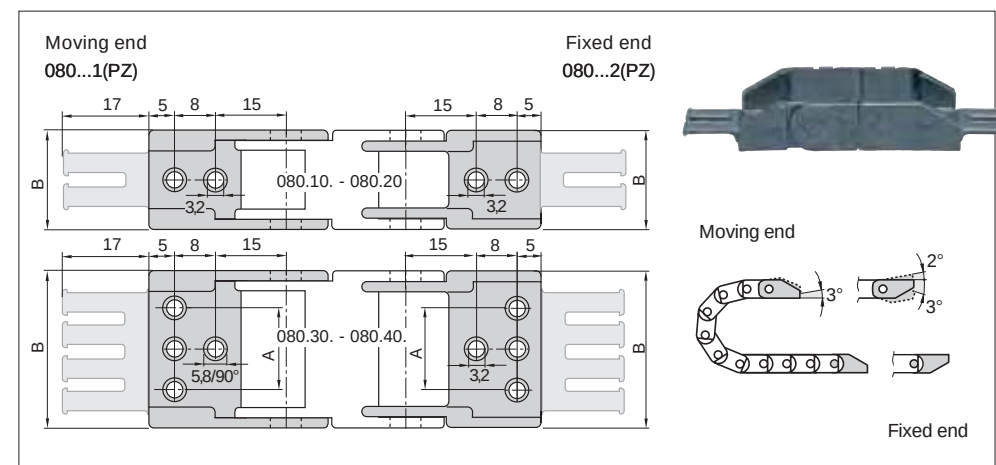


e-chain® links as single parts, overview ► page 299

Configuration options and order keys, overview ► page 300

Available from stock. **Delivery time*** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)

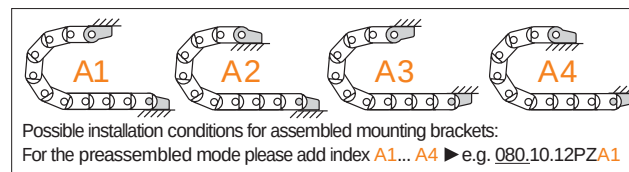


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.10. ►	080.10. 12PZ	080.10. 12	—	18,2	1
.16. ►	080.16. 12PZ*	080.16. 12*	—	24,2	2
.20. ►	080.20. 12PZ*	080.20. 12*	—	28,2	2
.30. ►	080.30. 12PZ*	080.30. 12*	22	38,2	3
.40. ►	080.40. 12PZ*	080.40. 12*	32	48,2	4



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Additional Features

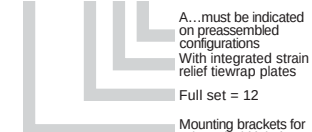


Quicksnap - the complete, detachable mounting unit. Part No. 080.20.QS, 080.30.QS available from stock



Quickfix - mounting bracket with dowel, available upon request

Part No. structure

080.10.12 PZ **A1**

Single-part order

Mounting bracket Moving end

080.10.1 PZ **A1** (preass. + tiewrap plate)

Mounting bracket Fixed end

080.10.2 PZ **A1** (preass. + tiewrap plate)

Mounting bracket
with strain
relief option

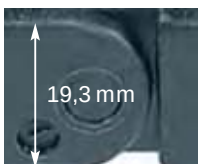
Light and
cost-effective

Dirt-repellent
exterior

Small pitch for
smooth running

One-piece design,
non snap-open

High torsional
rigidity



Original size 1:1
Outer height 19,3 mm

+ Small pitch, high stability

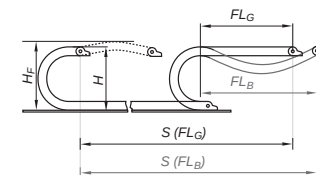
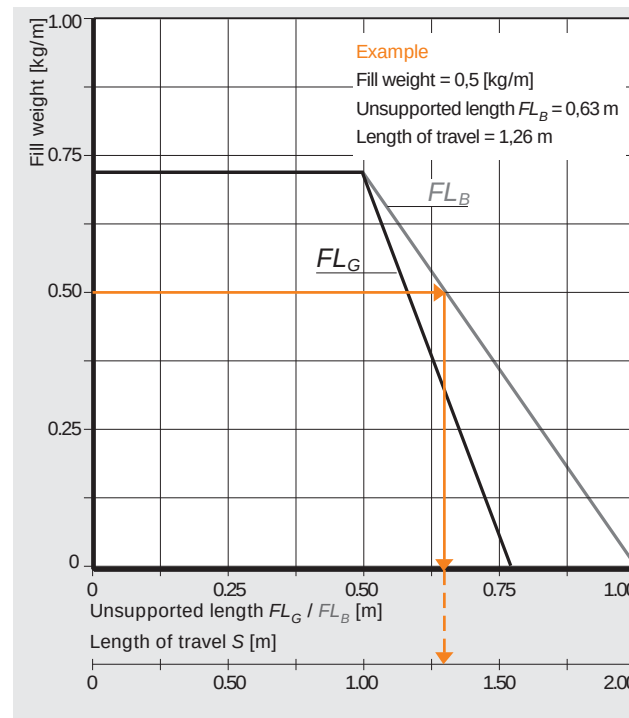
When to use the Series 08 E2 micro:

- If a small e-chain® with an inner height of 15 mm and smallest bending radii is required
- For inner widths up to 50 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- Small pitch, smooth running
- If extra torsional rigidity is required
- If a one-piece, non snap-open e-chain® is required
- If an interior separation is required



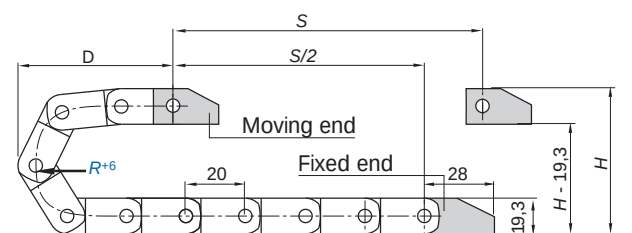
When to use a different igus® Series:

- If snap-open links are required
- ▶ Series 09 zipper, page 250
- ▶ Series B09 E2 micro, page 340
- If quick insertion of cables with preassembled connectors is required
- ▶ Series E08 easy chain®, page 176
- If a fully enclosed e-tube is required
- ▶ Series R09 zipper-e-tube, page 256



Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ▶ Design, page 95



Technical Data

Speed, material, temperature and flammability class ▶ page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $\frac{S}{2} + K$

R	025*	028	038	048*
H	69	75	95	115
D	65	68	78	88
K	120	130	160	195

The required clearance height: $H_F = H + 15$ mm (with 0,3 kg/m fill weight)

*Radius 025 and 048 available only for certain widths. For all other widths available upon request, please consult igus® for delivery time



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
 R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
 $K = \pi \cdot R + \text{"safety"}$



Available from stock. **Delivery time* in 24h or today!**

*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ▶ www.igus.eu/eu/08



Series 08 | One-piece, non snap-open e-chain®

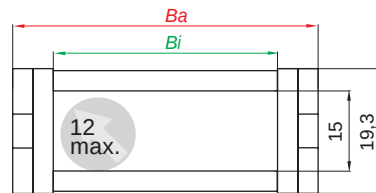
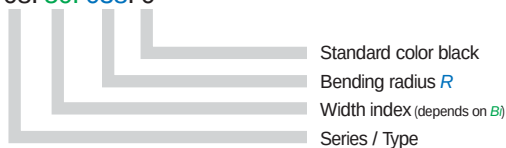
non snap-open	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
08. 10 . <i>R</i> .0	10	18,2	025 028 038 048	≈ 0,21
08. 13 . <i>R</i> .0	13	21,2	025* 028 038 048*	≈ 0,23
08. 16 . <i>R</i> .0	16	24,2	025* 028 038 048	≈ 0,24
08. 20 . <i>R</i> .0	20	28,2	025 028 038 048	≈ 0,25
08. 30 . <i>R</i> .0	30	38,2	025* 028 038 048	≈ 0,28
08. 40 . <i>R</i> .0	40	48,2	025* 028 038 048	≈ 0,31
08. 50 . <i>R</i> .0	50	58,2	025* 028 038 048	≈ 0,37

*Radius available upon request, please consult igus® for delivery time

Supplement Part No. with required radius (*R*). Example: 08.50.038.0



Order key
08. 50. 038. 0



e-chain® links as single parts, overview ► page 299

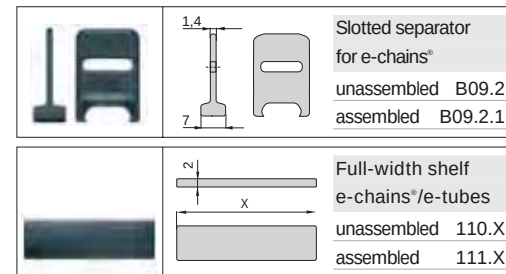
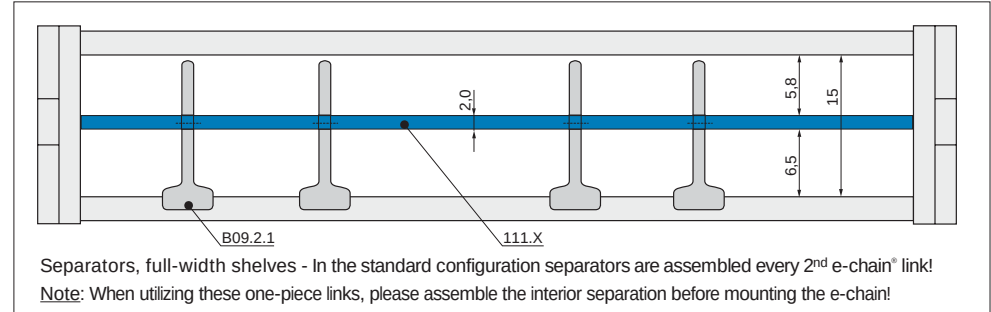


Configuration options and order keys, overview ► page 300



Available from stock. **Delivery time*** in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



Slotted separator B09.2

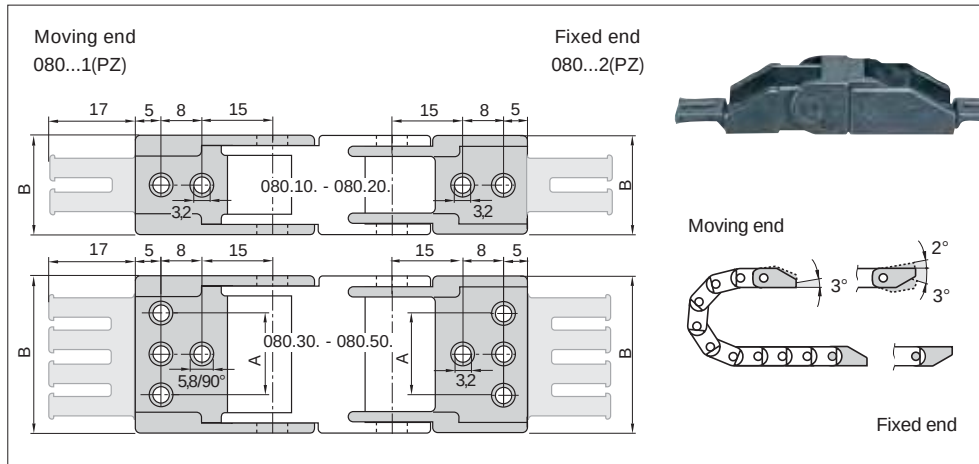
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Full-width shelf 110.X

this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision.

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
010	110.10	111.10	020	110.20	111.20	050	110.50	111.50
013	110.13	111.13	030	110.30	111.30			
016	110.16	111.16	040	110.40	111.40			



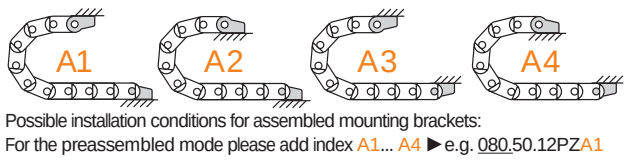
Polymer locking, one-piece | Universal for e-chains® Recommended for unsupported applications

Width Index	Part No. full set with tie-wrap plates	Part No. full set without tie-wrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.10. ▶	080.10. 12PZ	080.10. 12	—	18,2	1
.13. ▶	080.13. 12PZ*	080.13. 12	—	21,2	—
.16. ▶	080.16. 12PZ	080.16. 12	—	24,2	2
.20. ▶	080.20. 12PZ	080.20. 12	—	28,2	2
.30. ▶	080.30. 12PZ	080.30. 12	22	38,2	3
.40. ▶	080.40. 12PZ	080.40. 12	32	48,2	4
.50. ▶	080.50. 12PZ	080.50. 12	42	58,2	5

*Available upon request, please consult igus® for delivery time



- One-piece mounting bracket
- Available with or without strain relief tie-wrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Additional Features



Quicksnap - the complete, detachable mounting unit. Part No. 080.20.QS, 080.30.QS available from stock



Quickfix - mounting bracket with dowel, available upon request

Order example

080.50.12 PZ A1



Single-part order

Mounting bracket Moving end

080.50.1 PZ A1 (preass. + tie-wrap plate)

Mounting bracket Fixed end

080.50.2PZ A1 (preass. + tie-wrap plate)



Next generation of small igus® e-chains®

- Lighter, more stable and easier to open
- In 2 designs and 2 sizes available: 10 mm, 15 mm
- An e-chain® opener is included with every Series that can be opened, which significantly reduces installation time
- +25% more unsupported lengths compared to Series 08
- Many accessories More information ▶ www.igus.eu/E2.1open



Mounting bracket
with strain
relief option

Lightweight
and stable

For high
accelerations

Small pitch for
smooth running

Snap-open along outer
radius with film-hinge

High torsional
rigidity

Two-piece
link design

19,3 mm

Original size 1:1
Outer height 19,3 mm

+ Snap-open along outer radius

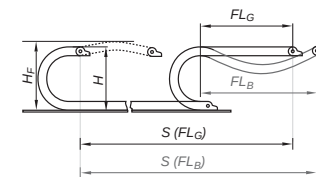
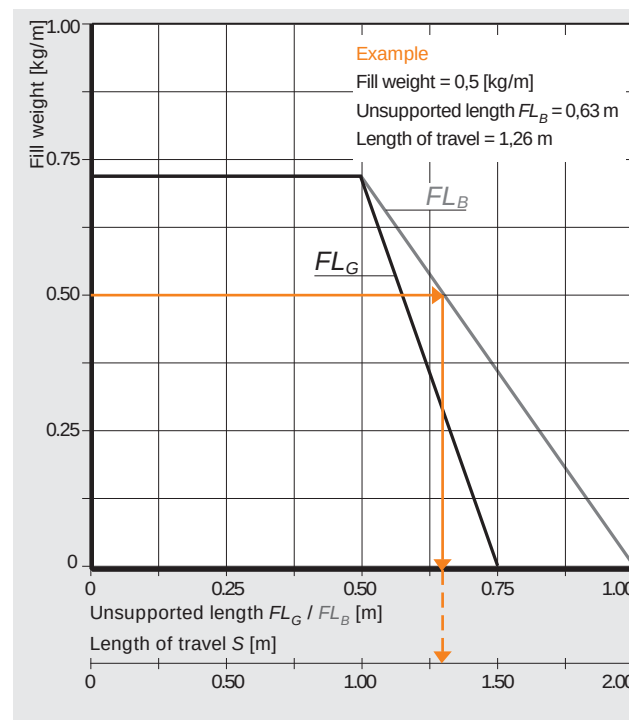
When to use the Series B09 E2 micro:

- If a small e-chain® with an inner height of 14,3 mm and small bending radii is required
- For inner widths up to 40 mm
- For unsupported lengths up to 1,0 m and fill weights up to 0,7 kg/m
- Small pitch, smooth running
- If a cost-effective, snap-open e-chain® is required
- If quick insertion of cables with preassembled connectors is required
- If an interior separation is required



When to use a different igus® Series:

- If snap-open links are not necessary
- Series 08 E2 micro, page 334
- If a fully enclosed e-tube is required
- Series R09 zipper-e-tube, page 256



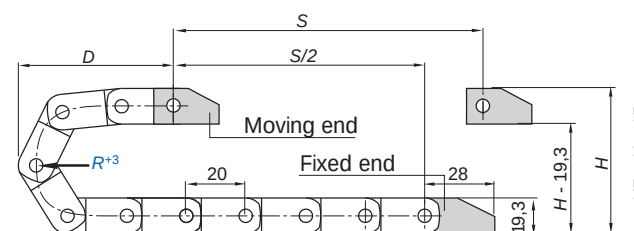
Standard Unsupported applications

Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height H_F . Please consult igus® if space is particularly restricted. More information ► Design, page 95

Technical Data

Speed, material, temperature and flammability class ► page 298

Pitch = 20 mm/link
Links/m = 50 (1000 mm)
Chain length = $\frac{S}{2} + K$



R	028	038	048
H	75	95	115
D	68	78	88
K	130	160	195

The required clearance height: $H_F = H + 15$ mm (with 0,3 kg/m fill weight)



FL_G = with straight upper run
 FL_B = with permitted sag

S = Length of travel
R = Bending radius

H = Nominal clearance height
 H_F = Required clearance height

D = Overlength e-chain®, radius in final position
K = $\pi \cdot R$ + "safety"

Available from stock. **Delivery time* in 24h or today!**
*Delivery time means time until shipping of goods (after technical release)



3D-CAD files, configurators, PDF ► www.igus.eu/eu/B09



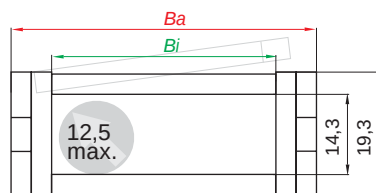
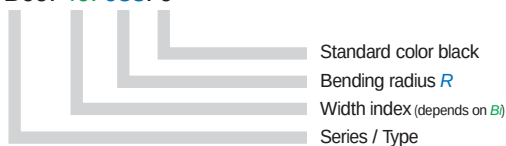
Series B09 | Two-piece link design, snap-open along outer radius

Snap-open along outer radius	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> Bending radii [mm]	Weight [kg/m]
B09. 16 . <i>R</i> .0	16	24,2	028 038 048	≈ 0,24
B09. 20 . <i>R</i> .0	20	28,2	028 038 048	≈ 0,25
B09. 30 . <i>R</i> .0	30	38,2	028 038 048	≈ 0,28
B09. 40 . <i>R</i> .0	40	48,2	028 038 048	≈ 0,31

Supplement Part No. with required radius (*R*). Example: B09.40.038.0



Order key
B09. 40. 038. 0



e-chain® links as single parts, overview ► page 299

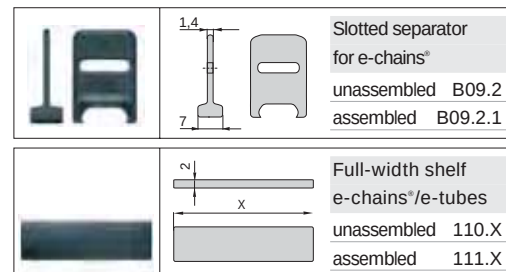
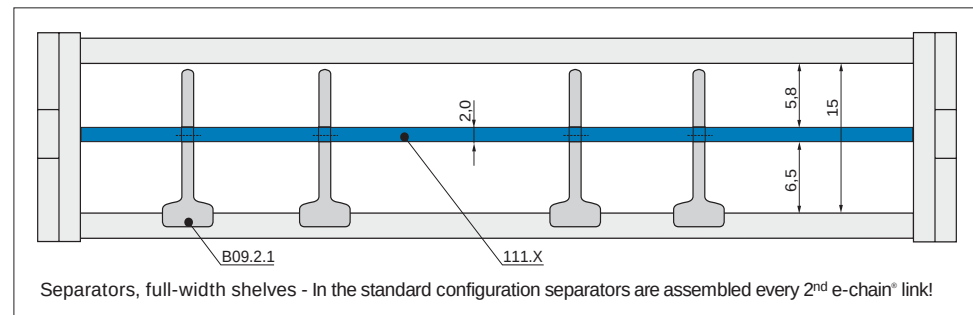


Configuration options and order keys, overview ► page 300



Available from stock. Delivery time* in 24h or today!

*Delivery time means time until shipping of goods (after technical release)



Slotted separator B09.2

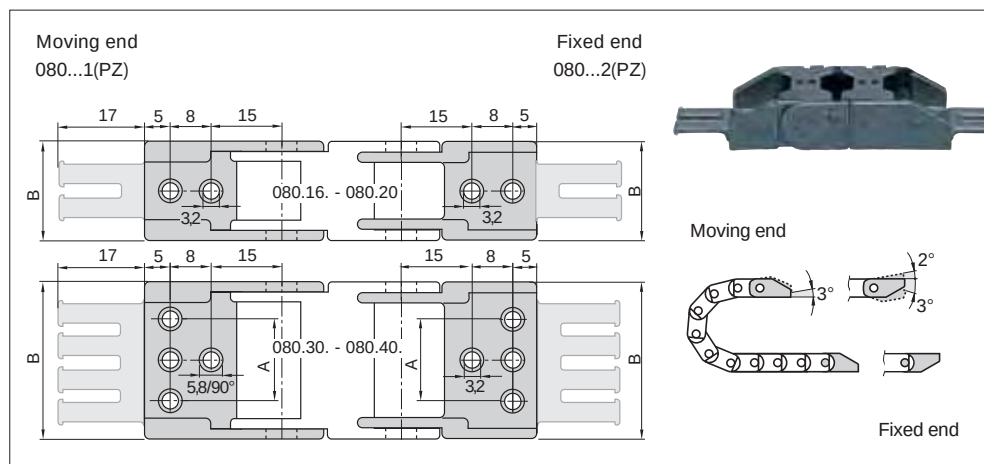
is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

Full-width shelf 110.X

this option makes sense in applications with many thin cables with similar diameters. For a consequent subdivision.

Full-width shelves

Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled	Width X [mm]	unassembled	assembled
010	110.10	111.10	020	110.20	111.20	050	110.50	111.50
013	110.13	111.13	030	110.30	111.30			
016	110.16	111.16	040	110.40	111.40			

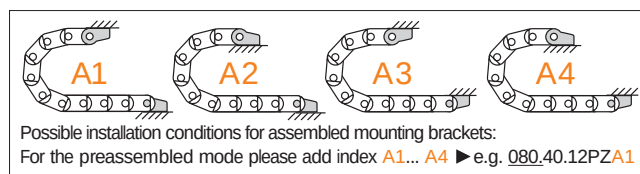


Polymer locking, one-piece | Universal for e-chains®
Recommended for unsupported applications

Width Index	Part No. full set with tiewrap plates	Part No. full set without tiewrap plates	Dim. A [mm]	Dim. B [mm]	Number of teeth
.16. ▶	080.16. 12PZ	080.16. 12	—	24,2	2
.20. ▶	080.20. 12PZ	080.20. 12	—	28,2	2
.30. ▶	080.30. 12PZ	080.30. 12	22	38,2	3
.40. ▶	080.40. 12PZ	080.40. 12	32	48,2	4



- One-piece mounting bracket
- Available with or without strain relief tiewrap plates
- Corrosion-resistant
- Inner and outer attachment possible
- Various installation options on the fixed end and/or the moving end



Additional Features



Quicksnap - the complete, detachable mounting unit. Part No. 080.20.QS, 080.30.QS available from stock



Quickfix - mounting bracket with dowel, available upon request

Part No. structure

080.40.12 PZ **A1**



A... must be indicated on preassembled configurations
With integrated strain relief tiewrap plates
Full set = 12
Mounting brackets for selected width index

Single-part order

Mounting bracket Moving end

080.40.1 PZ **A1** (preass. + tiewrap plate)

Mounting bracket Fixed end

080.40.2 PZ **A1** (preass. + tiewrap plate)



E2 micro e-chain® space saving "ZigZag" design in this mobile operating table