



# E2.1 micro

## the new "small" E2 micro standard



### Advantage of the E2.1 micro series:

- More useable installation space\*
- 25% more unsupported length\*
- 100% more fill weight\*
- 10% weight saving\*
- Chain opener for opening long sections of chain quickly.  
Provided free of charge with the first delivery
- Cable friendly interior separation product range
- Openable from both sides (left and right)
- Available in 2 sizes, from stock
- ESD material tested with over 10 million cycles for the most demanding applications, completely electrically conductive

\* in comparison to equivalent igus® series



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

- If a quicker fitting of cables is required  
▶ **easy chain®**, page 146
- When an e-chain® that is suitable for clean rooms is needed,  
▶ **E3 system**, page 614
- When an openable e-chain® is not necessary,  
▶ **E2 micro**, page 228

Universal connection:  
mounting bracket with  
strain relief option and  
quickflange option

Cable friendly:  
very smooth contours ensure  
the best possible cable life

Variety of options:  
non-openable or open-  
able along the inner or  
outer radius

Strong:  
large, assem-  
bly-friendly pins

Cost-effective:  
lightweight and low-  
priced e-chain®

Lockable interior separation:  
recommended for side-  
mounted applications

Low noise:  
integrated "brake"  
reduces noise

Smooth:  
dirt-repellent exterior contour

Robust:  
square stop-dog system  
for large fill weights

# The new "small" E2 micro stand- ard - E2.1

E2.1 micro e-chains® are very small, one- and two-piece e-chains® with low weight, making them ideal for highly dynamic applications. E2.1 micro e-chains® are optimal for smallest installation spaces, and are available in many versions. They feature a strong stop dog system for up to 25% longer unsupported travels as well as 100% higher fill weights (compared to similar igus® types). They are lightweight, robust and easy to open. An e-chain® opener is included in order to open the e-chain® in one go. Many accessories like interior separation and fixation options are available.

### Typical industries and applications

- Models (micro e-chain®)
- Automatic doors
- Vehicles
- Measuring machines
- Electronic engineering
- Handling
- Pick und place robots
- General machinery, etc.



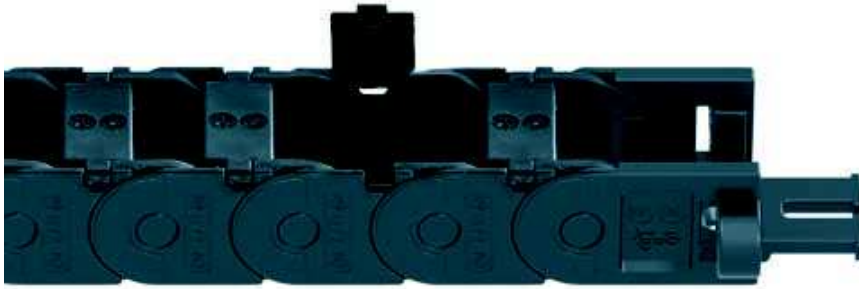
Electrically conductive ESD/ATEX versions  
several series available from stock



An e-chain® opener is included with every first order of openable E2.1 micro from igus®. For quick and easy opening.

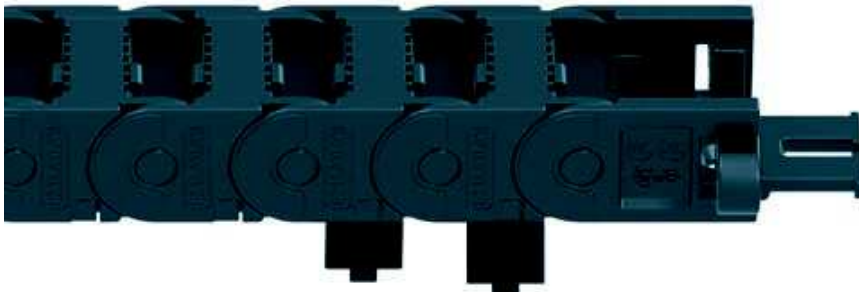
## E2.1 micro | Selection table

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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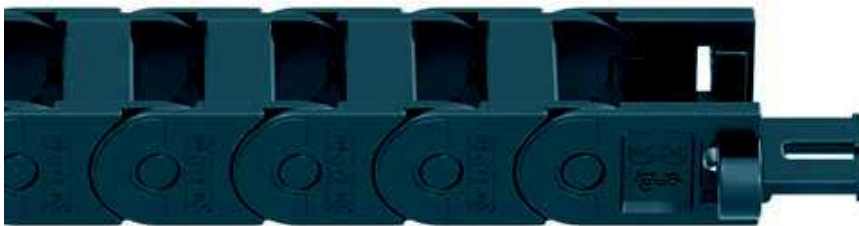
**E2.1 micro - two-piece e-chains®**  
openable along the outer radius

E2.10	10.1	6 - 50	13.4 - 57.4	15	018 - 038	0.75	294
E2.15	14.4	10 - 50	17.8 - 57.8	19.3	028 - 075	1.30	298



**E2.1 micro - two-piece e-chains®**  
openable along the inner radius

E2i.10	10.1	6 - 50	13.4 - 57.4	15	018 - 038	0.75	294
E2i.15	14.4	10 - 50	17.8 - 57.8	19.3	028 - 075	1.30	298



**E2.1 micro - one-piece e-chains®**  
non-openable

E2C.10	10.6	6 - 50	13.4 - 57.4	15	018 - 038	0.75	294
E2C.15	14.9	10 - 50	17.8 - 57.8	19.3	028 - 075	1.30	298


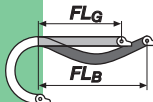




Available from stock. **Delivery time\*** from 24hrs or today!

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







# E2.1 micro | Technical data | Overview

## Technical data

	Speed gliding / acceleration gliding	$\leq 10$ [m/s] / $\leq 50$ [m/s <sup>2</sup> ]
	Speed $FL_G$ / acceleration $FL_G$	$\leq 20$ [m/s] / $\leq 200$ [m/s <sup>2</sup> ]
	Speed $FL_B$ / acceleration $FL_B$	$\leq 3$ [m/s] / $\leq 6$ [m/s <sup>2</sup> ]
	Material - permitted temperature °C, igumid G	-40°C / +120°C
	Flammability class, igumid G	VDE 0304 IIC 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	 Rotary	 Zig-zag
E2C.10/E2i.10/E2.10	$\leq 1.50$ m	upon request	upon request	upon request	with rework	upon request
E2C.15/E2i.15/E2.15	$\leq 2.60$ m	upon request	upon request	upon request	with rework	upon request


# E2.1 micro | Options and order keys

## Options with order keys | Examples based on series E2.10

 <b>Standard</b>	<i>NC-version - (No Camber) without pretension</i>	<i>Reverse Bend Radius (RBR) for circular movements</i>	<i>ATEX/ESD classified-  II 2 GD</i>
<b>Part No. Standard</b> 	<b>Part No. NC-Version</b> 	<b>Part No. RBR</b> 	<b>Part No. ESD-material</b> 
 <b>E2.10.20.R.0</b> e-chain® openable along the outer radius	<b>E2.10.20.R.0.NC</b> e-chain® openable along the outer radius	<b>E2.10.20.R1/R2.0</b> e-chain® openable along the outer radius	<b>E2.10.20.R.0.ESD</b> e-chain® openable along the outer radius
<b>E2i.10.20.R.0</b> e-chain® openable along the inner radius	<b>E2i.10.20.R.0.NC</b> e-chain® openable along the inner radius	<b>E2i.10.20.R1/R2.0</b> e-chain® openable along the inner radius	<b>E2i.10.20.R.0.ESD</b> e-chain® openable along the inner radius
<b>E2C.10.20.R.0</b> One-piece, non-openable	<b>E2C.10.20.R.0.NC</b> One-piece, non-openable	<b>E2C.10.20.R1/R2.0</b> One-piece, non-openable	<b>E2C.10.20.R.0.ESD</b> One-piece, non-openable
 <b>Delivery time*</b> <b>24hrs or today!</b>	<b>Delivery time*</b> <b>2-5 business days</b>	<b>Delivery time* several series from stock</b>	<b>Delivery time* several series from stock</b>



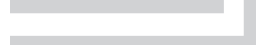
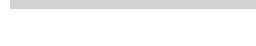
\*Delivery time means time until shipping of goods (after technical release)

## Order example | Order key and colour examples based on series E2.10








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

<b>e-chain® (1.0 m)</b>	Please indicate e-chain® length or number of links: 1.0 m or 50 links	<b>E2.10.20.R.0</b>
<b>+ Mounting brackets</b>	1 set (with tiwrap plates)	<b>E2.100.20.34PZ</b>
<b>Interior separation</b>	with 2 separators assembled every 2 <sup>nd</sup> link	<b>E2.10.2.1</b>
<b>Order text:</b>	<b>1 m E2.10.20.R.0 + E2.100.20.34PZ + 2 x E2.10.2.1</b>	

### Order key

openable along the outer radius	<b>E2. 10.20.R.0</b>
openable along the inner radius	<b>E2i. 10.20.R.0</b>
One-piece, non-openable	<b>E2C. 10.20.R.0</b>
Series / Type	
Width index (depends on <i>B</i> )	
Bend radius <i>R</i>	
Colour index (standard black)	

### Order index for colour options

Colour	Order index	Colour	Order index
 <b>Black</b>	Standard .0	 <b>Orange</b>	Special colour .2
 <b>Grey</b>	Special colour e-chain® .3	 <b>Yellow</b>	Special colour .4
 <b>White</b>	Special colour .1	 <b>Light grey</b>	Special colour .14
 <b>Grey-white</b>	Special colour .1S		

**Black e-chains® available from stock.**

Above special colours upon request.