

E2.1 micro

For very small spaces, strong



Advantage of the E2.1 micro series:

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

* In comparison to equivalentigus® series



When to use another e-chain® series:

- When a quicker fitting of cables is required
 - ▶ **easy chain®**, page 322
- When an e-chain® that is suitable for cleanrooms is needed
 - ▶ **E3 system**, page 916
- When an openable e-chain® is not necessary
 - ▶ **E2 micro**, page 274



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For very small spaces, strong - E2.1 micro


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 levels 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 e-chain® in one go. Many accessories like prior separation and fixation options are also available.

Industrial industries and applications




Models (micro e-chain®) ● Automatic doors / vehicles ● Measuring machines ● Electronic engineering ● Handling ● Pick and place lots ● General machinery, etc.

 UL94-V0 classification upon request

 Electrically conductive ESD e-chains® - several series available from stock

 a quick and easy opening, an e-chain® opener included with every first order of openable E2.1 micro from igus®

E2.1 micro 

















Series	Inner height <i>h_f</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
 <div>E2.1 micro - two-piece design openable along the inner radius</div>							
E2i.10	10.1	6 - 50	13.4 - 57.4	15	018 - 038	0.75	340
E2i.15	14.4	10 - 50	17.8 - 57.8	19.3	028 - 075	1.30	344
 <div>E2.1 micro - two-piece design openable along the outer radius</div>							
E2i.10	10.1	6 - 50	13.4 - 57.4	15	018 - 038	0.75	340
E2i.15	14.4	10 - 50	17.8 - 57.8	19.3	028 - 075	1.30	344
 <div>E2.1 micro - one-piece design one-piece, non-openable</div>							
E2C.10	10.6	6 - 50	13.4 - 57.4	15	018 - 038	0.75	340
E2C.15	14.9	10 - 50	17.8 - 57.8	19.3	028 - 075	1.30	344

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

*Average time before the ordered goods are dispatched.

igus 3D CAD, service life calculation, configurators and more ► www.igus.eu/E2.1micro 337

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

	Standard	NC version - (No Camber) without pretension	Reverse Bend Radius (RBR) for circular movements	ESD - electrically conductive material
	Part No. Standard	NC version	Part No. RBR	Part No.
		E2i:10.20.R.0	E2i:10.20.R.0	E2i:10.20.R.0
	e-chain® operable along the inner radius	e-chain® operable along the inner radius	e-chain® operable along the inner radius	e-chain® operable along the inner radius
		E2i:10.20.R.0.NC	E2i:10.20.R.1/R2.0	E2i:10.20.R.0.ESD
	e-chain® operable along the outer radius	e-chain® operable along the outer radius	e-chain® operable along the outer radius	e-chain® operable along the outer radius
		E2i:10.20.R.0	E2C:10.20.R.1/R2.0	E2C:10.20.R.0.ESD
	e-chain® operable along the outer radius	e-chain® operable along the outer radius	e-chain® operable along the outer radius	e-chain® operable along the outer radius
		E2i:10.20.R.0	E2C:10.20.R.1/R2.0	E2C:10.20.R.0.ESD
	One-piece, non-operable	One-piece, non-operable	One-piece, non-operable	One-piece, non-operable
	Ready to ship in 24 - 48hrs.*	Ready to ship in 2-5 business days*	Ready to ship in 12 business days* 	Ready to ship in 12 business days* 
				
<p> RBR version (Reverse Bend Radius) - some radii available from stock - further information and the complete product range ► From page 130</p> <p> ESD version - some series available from stock - further information and the complete product range ► From page 142</p> <p>*Average time before the ordered goods are dispatched.</p>				

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

Order example for complete e-chain® (1.0m), colour black, with mounting brackets and inter

e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 50 links	E2.10.20.18.0
+ Mounting brackets	1 set (with tiewrap plates)	E2.100.20.34PZ
Interior separation	with 2 separators assembled every 2 nd link	E2.10.2.1
Order text:	1m E2.10.20.18.0 + E2.100.20.34PZ + 2 x E2.10.2.1	

 Order key

	Order index	Colour	Order index	Colour	Order index
Operable along the inner radius					
Operable along the outer radius					
One-piece, non-operable					
Series / Type					
Width index (depends on <i>B1</i>)					
Bend radius <i>R</i>					
Colour index (standard black)					

Black e-chains® ready to ship in 24 - 48hrs.*
Above special colours upon request

igus 3D CAD, service life calculation, configurators and more ► www.igus.eu/E2.1micro

$\leq 10 \text{ [m/s]} / \leq 50 \text{ [m/s}^2]$
$\leq 20 \text{ [m/s]} / \leq 200 \text{ [m/s}^2]$
$\leq 3 \text{ [m/s]} / \leq 6 \text{ [m/s}^2]$
$-40^{\circ}\text{C} / +120^{\circ}\text{C}$
VDE 0304 IIC UL94-HB

	Side mounted unsupported	upon request	upon request
	Rotary	with rework	with rework
	Zig-zag	upon request	upon request



When the e-chain® rarely moves and temperatures are very low, injection-moulded nubs prevent the igus® ice-chain from freezing to the running surface.

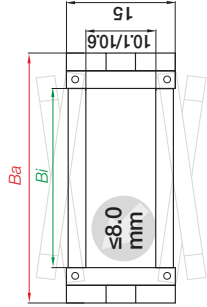
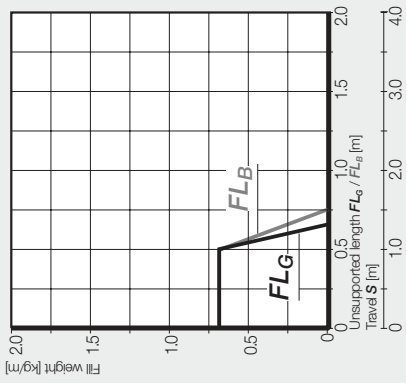




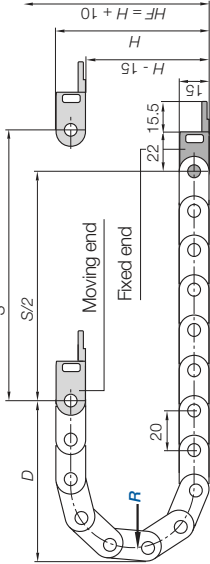
inner radius, from both sides
outer radius, from both sides
pitch

allowable bend radii	E2.10	E2.10	E2C.10
	[kg/m]	[kg/m]	[kg/m]
028 038	≈ 0.13	≈ 0.13	≈ 0.14
028 038	≈ 0.14	≈ 0.14	≈ 0.14
028 038	≈ 0.16	≈ 0.16	≈ 0.16
028 038	≈ 0.17	≈ 0.17	≈ 0.17
028 038	≈ 0.19	≈ 0.19	≈ 0.20
028 038	≈ 0.22	≈ 0.22	≈ 0.23
028 038	≈ 0.25	≈ 0.25	≈ 0.25

page 130



E2.10	Inner height [mm]	10.1
E2.10	Inner height [mm]	10.1
E2C.10	Inner height [mm]	10.6
Pitch	[mm/link]	20
Links/m		50
corresponds to [mm]		1,000
e-chain® length	$L_K = S/2 + K$	



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

The required clearance height: $H_f = H + 10\text{mm}$ (with 0.2kg/m fill weight)

ESD - many sizes from stock

- Standardised product made from igumid ESD
 - ESD material tested for over 10 million cycles for the toughest requirements
 - Short delivery times including mounting brackets and interior separation; 24hrs, from stock
- More information and the complete product range
► From page 142 or at ► www.igus.eu/esd

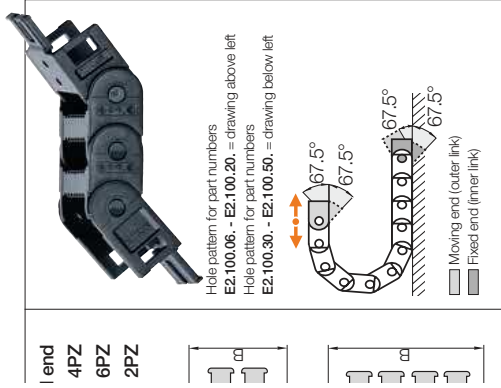


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Rotating energy supply systems with Reverse Bend
Radius (RBR) - some radii available from stock

- Maximum rotation angle in minimal installation space
 - Minimal friction forces and maximum service life
 - Short delivery times from stock
- More information and the complete product range ► From page 130



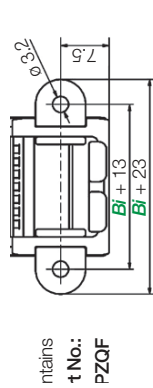


Full set	A	B	Number of teeth
Wrap plates	[mm]	[mm]	
Locking			
106.12PZ	-	13.4	1
110.12PZ	-	17.4	1
116.12PZ	-	23.4	2
120.12PZ	-	27.4	2
130.12PZ	22	37.4	3
140.12PZ	32	47.4	4
150.12PZ	42	57.4	5
Feed A1 or A4!			

E2.100.20.34PZ.A1 Order example

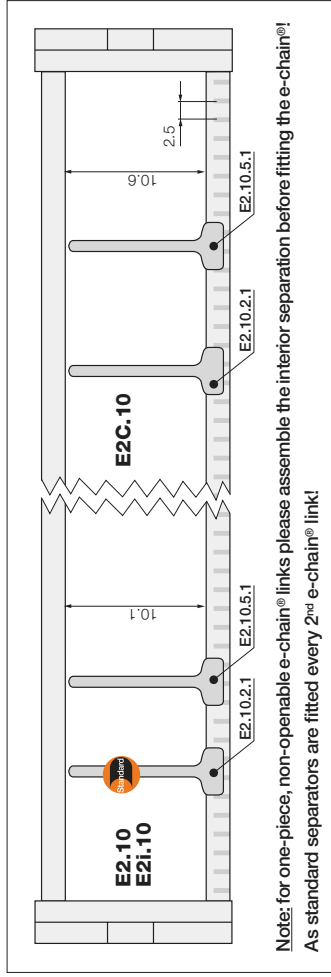
A - to indicate option with brackets pre-fitted
With integrated strain relief feedwrap plates
Full set
Width index
Series

pre-



ntains
t No.:
PZQF

E2.10 ► www.igus.eu/E2C.10



Standard separator*	E2.10.2	E2.10.5.1
unassembled		
assembled		
Notch separator for notched crossbar*	E2.10.5	E2.10.5.1
unassembled		
assembled		

Note*: interior separation not suitable for inner widths **B1 06** and **10**

Standard - for any application
For easy vertical separation. Separators can be arranged in any position in the cross-section. Without notches, freely movable.

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

75% less wear

- igus® separators increase the service life of the cables by a factor of 4
- Separators with a rounded design for less cable wear and abrasion
- Optimised for easier and faster assembly

More information ► www.igus.eu/E2.10open

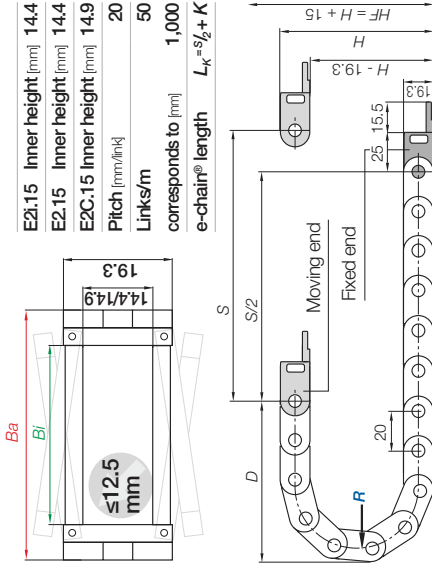
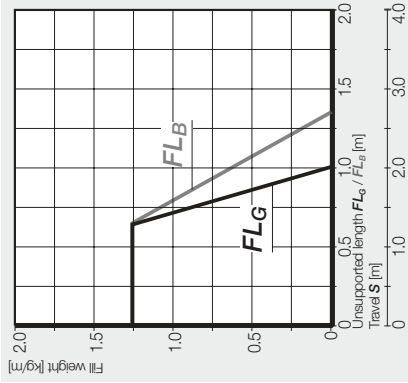
Interior separation assembly tool for the E2.1 micro

- Easy fitting of separators and shelves
- Significant assembly time reduction
- Grip and tool tip can be ordered separately and are easy to change

More information ► www.igus.eu/E2.10open



er radius, from both sides
er radius, from both sides
le



ilable bend radii	E2i.15	E2.15	E2C.15
	[kg/m]	[kg/m]	[kg/m]
038 048	—	≈ 0.18	≈ 0.19
038 048	—	≈ 0.19	≈ 0.20
038 048	—	≈ 0.20	≈ 0.20
038 048	—	≈ 0.21	≈ 0.21
038 048	—	≈ 0.24	≈ 0.24
038 048 075*		≈ 0.26	≈ 0.26
038 048	—	≈ 0.29	≈ 0.29

R	028	038	048	075*
H	75	95	115	169
D	68	78	88	115
K	130	160	195	280

The required clearance height: $H_f = H + 15\text{mm}$ (with 0.3kg/m fill weight)

*Radius 075 only for series E2C.15.40

ESD - many sizes from stock

- Standardised product made from igumid ESD
- ESD material tested for over 10 million cycles for the toughest requirements
- Short delivery times including mounting brackets and interior separation; 24hrs, from stock

More information and the complete product range

► From page 142 or at ► www.igus.eu/esd



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Rotating energy supply systems with Reverse Bend
Radius (RBR) - some radii available from stock

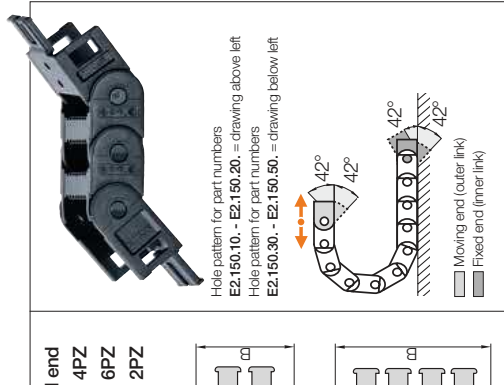
- Maximum rotation angle in minimal installation space
- Minimal friction forces and maximum service life
- Short delivery times from stock

More information and the complete product range ► From page 130



E2.1 micro | Series E2.15 | Accessories

Interior separation | Increase cable service life



λ, full set	A [mm]	B [mm]	Number of teeth
newrap plates	-	-	-
ends locking	-	-	-
.10.12PZ	-	17.8	1
.13.12PZ	-	20.8	1
.16.12PZ	-	23.8	2
.20.12PZ	-	27.8	2
.30.12PZ	22	37.8	3
.40.12PZ	32	47.8	4
.50.12PZ	42	57.8	5

Order example

A. to indicate option with brackets pre-filled

With integrated strain relief tiewrap plates

Full set

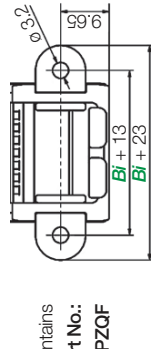
Width index

Series

E2.150.20.34PZA1



pre-

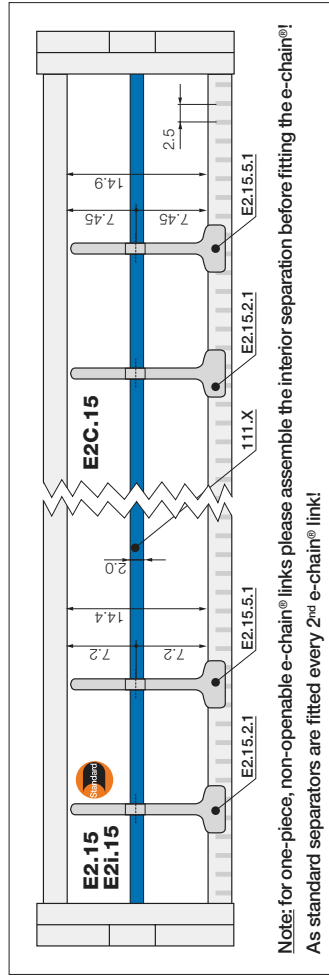
2.15 ▶ www.igus.eu/E2C.15

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Standard - for any application

For easy vertical separation. Separators can be arranged in any position in the cross-section. Without notches, freely movable.

Locks securely in preset increments

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

Full-width shelf

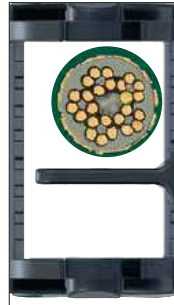
This option is for applications with many small cables with similar diameters. For full-width separation.

Full-width shelves width = X [mm]						
	X [mm]		X [mm]		X [mm]	
	unassembled	assembled	unassembled	assembled	unassembled	assembled
O10	110.10	111.10	O20	111.20	O50	111.50
O13	110.13	111.13	O30	111.30		
O16	110.16	111.16	O40	111.40		

75% less wear

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- Separators with a rounded design for less cable wear and abrasion
- Optimised for easier and faster assembly

More information ► www.igus.eu/E2.1open



Interior separation assembly tool for the E2.1 micro

- Easy fitting of separators and shelves
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igus 3D CAD, service life calculation, configurators and more ► www.igus.eu/E2.1micro

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