

E1 - Modular, one-piece strip design for simple applications

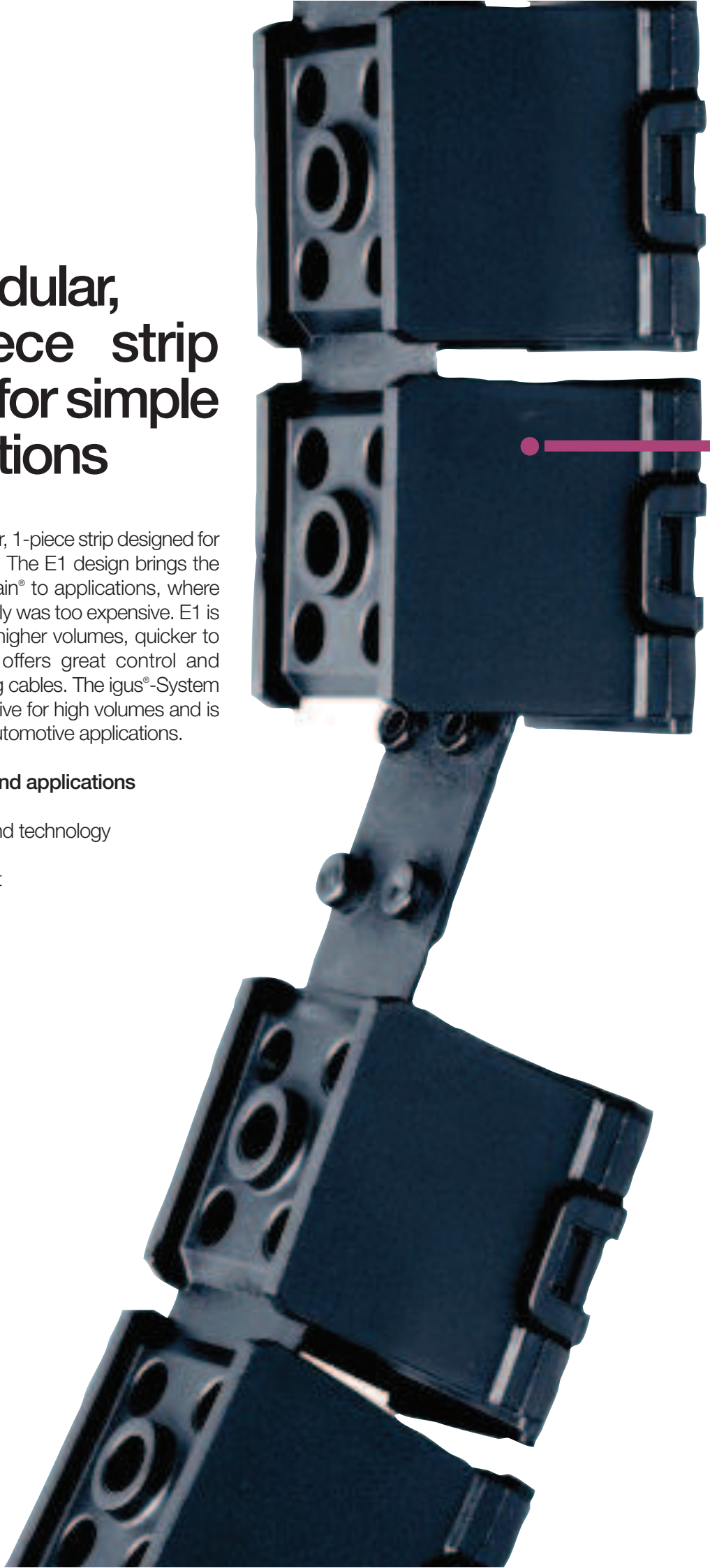
E1: E-Chain® modular, 1-piece strip designed for simple applications - The E1 design brings the benefits of an E-Chain® to applications, where this solution previously was too expensive. E1 is more economic for higher volumes, quicker to assemble and still offers great control and protection for moving cables. The igus®-System E1 is very cost effective for high volumes and is especially ideal for automotive applications.

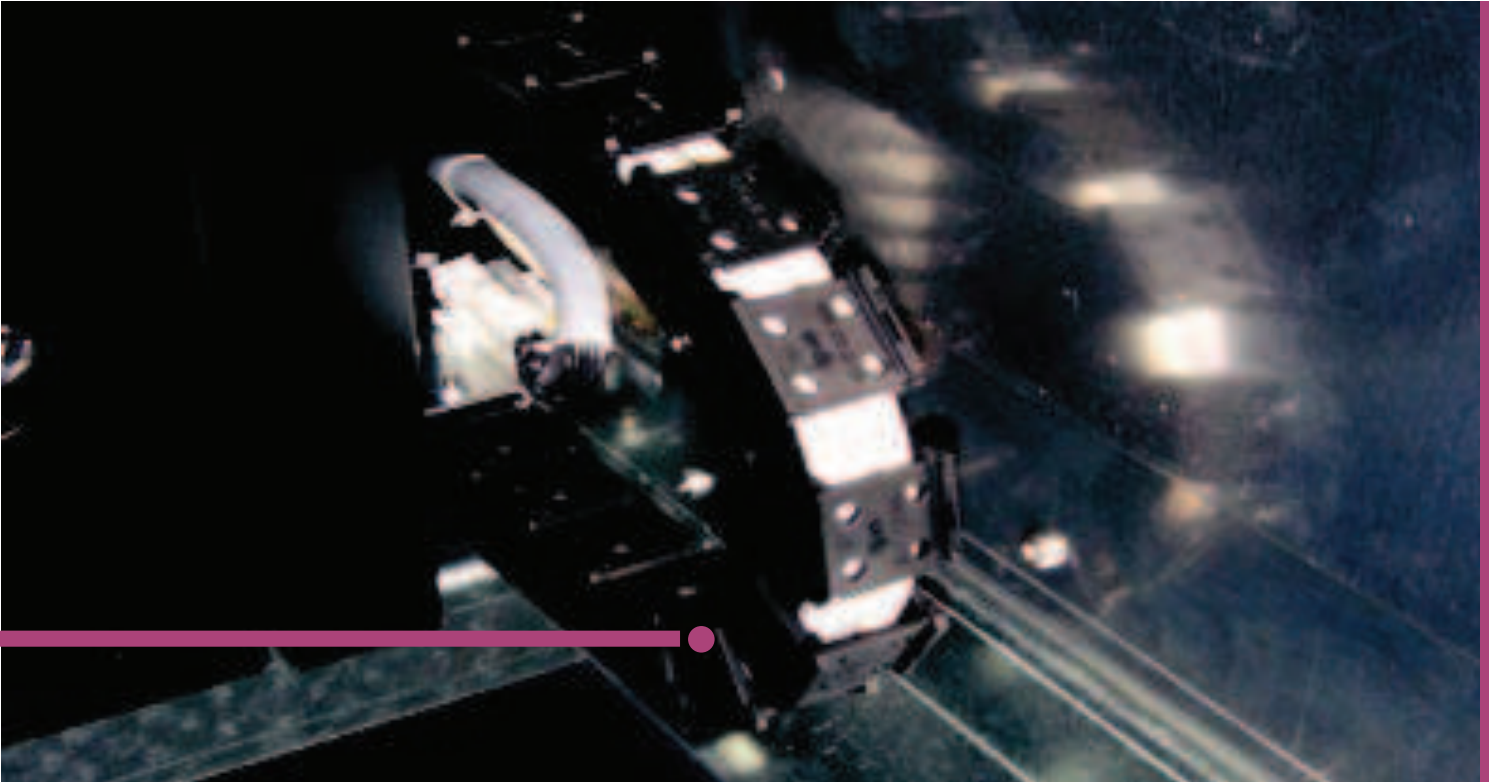
Typical industries and applications

- Automotive
- Office Solutions and technology
- Automation
- Electric equipment
- Machine-building

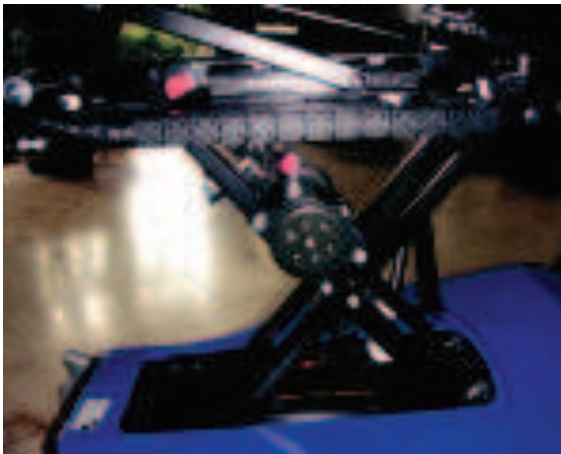


UL94-V2
classifications





Harnessed igus® System E1 in a bottle deposit machine

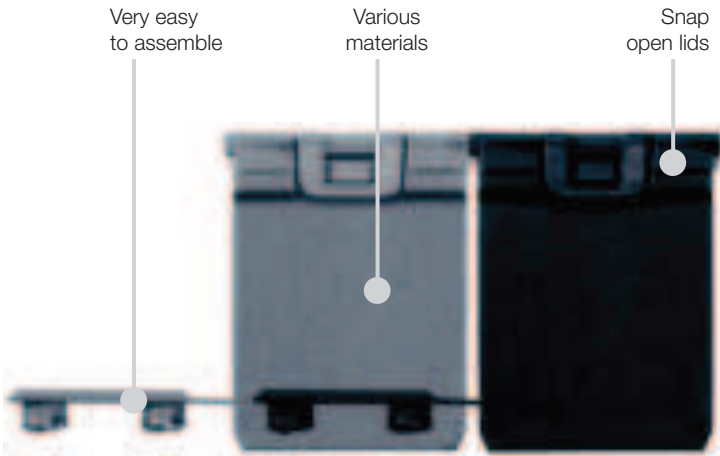


Series E1.17.021.028 in an electric wheelchair -
cably supply on the scissors lifting system



The igus®-System E1 is very cost-effective at high
quantities and ideal for automotive applications





Modular, 1-piece strip design for simple applications

- Economic solution for high volumes
- A universal and easily adaptable E-Chain® concept
- E1: E-Chain® on one strip
- Easy shortening/lengthening through molded-on, modular strip
- Easy to snap open
- Strip connectors
- Easy fixation at each end
- Various materials available
- You can find more technical data about the material, chemical resistance, temperatures ► [chapter design, from page 1.38](#)

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]	Bending radius <i>R</i> [mm]	Length part [mm]	Page
E1.10.013.	10	13	16,5	15,5	18	200	3.64
E1.17.021.	17	21	26	25	28	255	3.64
E1.17.031.	17	31	36	25	28	204	3.64
E1.17.044.	17	44	49	25	28	255	3.64
E1.20.015.	20	15	22	27	28	250	3.64



System E1 - E-Chain® on one strip - snap-open along outer radius

To shorten | System E1



System E1 - E-Chain® on one strip - easy to shorten....

To lengthen | System E1



.. and to lengthen

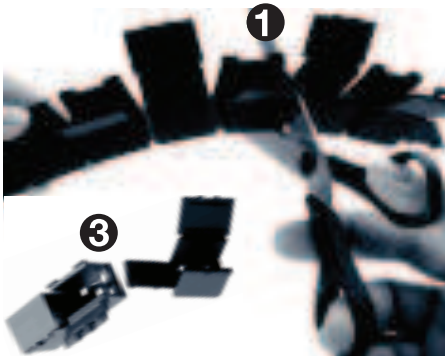




Price index

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- ❶ Easy to shorten - separation at each segment
- ❷ Very easy to fill because of snap-open lids
- ❸ Easy to lengthen - strips can simply be snapped together
- ❹ Easy fastening through strip bore each link
- ❺ Low-price E-Chain®
- ❻ Different materials and colors available upon request
- ❼ Compact design with smooth outer contour
- ❽ Strain relief option (clip-on bracket)
- ❾ All lids snap open to the same side for easier, (Except E1.20.40 - to open from both sides), possibly automated closing



System E1 - E-Chain® on one strip - easy to shorten and to lengthen



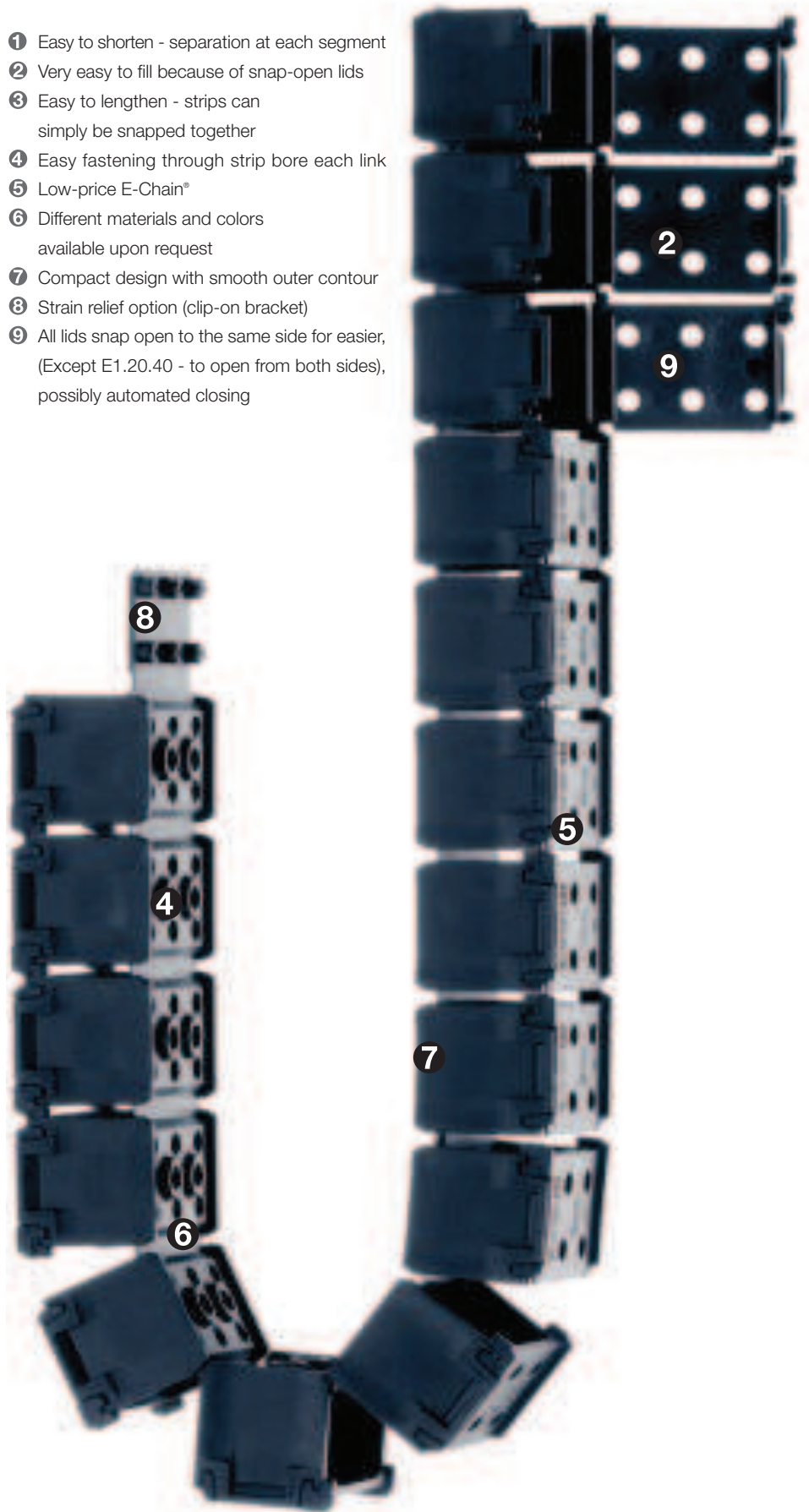
When to use the Series E1:

- If simple filling is required
- If an economical E-Chain® is required
- If small assembly cost is required
- For lower duty or cycle life



When not to use it:

- High load applications
 - ▶ Easy Chain®, this chapter
 - ▶ Zipper, chapter 4
- High cycle applications
 - ▶ Easy Chain®, this chapter
 - ▶ Zipper, chapter 4



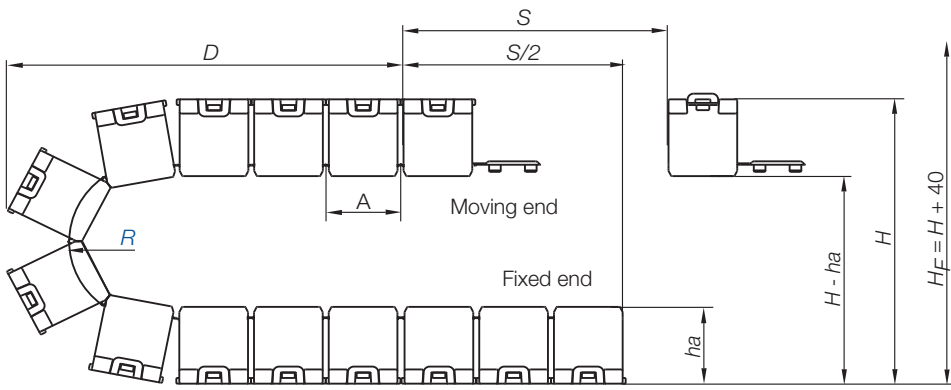
Order example complete E-Chain®

Please indicate chain-lengths or number of links Example: 1 Band = 255 mm of length

1 m E1.17.021.028.0 (= 4 x 255 mm Band)



E-Chain®



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 = $\pi \cdot R + \text{"safety"}$



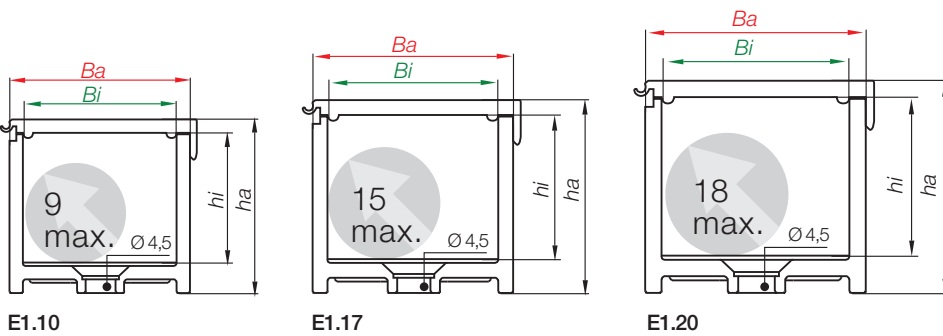
Short travels - unsupported

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.

Pitch = see Dim. A Length part = see Dim. B Chain length = $S/2 + K$

Bending radius for Series:	E1.10	E1.17	E1.20
R	018	028	028
H	62	92	92
D	66	76	76
K	100	120	120

The required clearance height is **H_F = H + 40 mm** · More radii upon request!



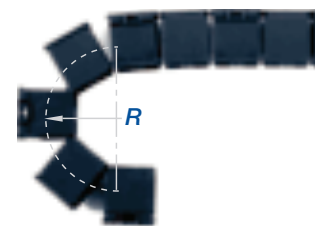
Product Range - Series E1 - snap-open along outer radius

Part No.	Bi [mm]	Ba [mm]	hi [mm]	ha [mm]	R [mm]	Bending radii	A [mm]	B [mm]
E1.10.013.□.0	13	16,5	10	15,5	018		20	200
E1.17.021.□.0	21	26	17	25	028		25,5	255
E1.17.031.□.0	31	36	17	25	028		25,5	204
E1.17.044.□.0	44	49	17	25	028		25,5	255
E1.20.015.□.0*	15	22	20	27	028		25	250

* E1.20.015 - Lids to open reciprocal

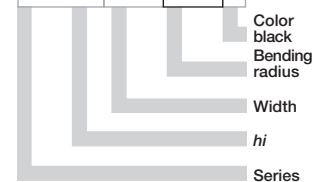
Supplement Part No. with required radius. Example: E1.17.021.028.0

0 = standard color, other colors ▶ page 1.39 · Pitch = 25 mm/link - Links/m = 40



Part No. structure

E1.17.021.028.0



System E1
Inner height: 10, 17, 20 mm

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