



Price index



Upon request: Cleanroom Class 1
(ISO class 3) tested by the Dryden
Engineering Company, California



UL94-V2 classifications
upon request



Low-noise



"Zipper-fast" opening and closing



When to use the Series R15:

- If extremely quick, zipper-like access to cables is required
- If chip protection is required
- If quick, easy insertion of cables with preassembled connectors is required
- If aesthetic design is required



When not to use it:

- If opening of the link is not necessary
 - ▶ Series 10 E2 mini, page 5.48
- If torsion occurs
 - ▶ Series E14 Easy Chain®, page 3.32
- If the chain must snap-open along the inner radius
 - ▶ B15i E2 mini, page 5.70

- ① "Zipper-fast" opening and closing
- ② Small pitch for low-noise, smooth operation
- ③ Protection against dirt and chips
- ④ Large pins and double stop dog for superior life and long unsupported length
- ⑤ Zipper lids can be separated and joined at each chain link
- ⑥ Mounting bracket with integrated strain relief
- ⑦ For high acceleration
- ⑧ Also available as "Zipper" E-Chain® Series 15 ▶ page 4.18



Order example complete E-Tube

Please indicate tube-lengths or number of links Example: 1 m or 33 links

1 m R15.025.063.0

E-Tube

with 2 separators R154 assembled every 2nd link

Interior separation

1 set 1025.12PZ

Mounting bracket

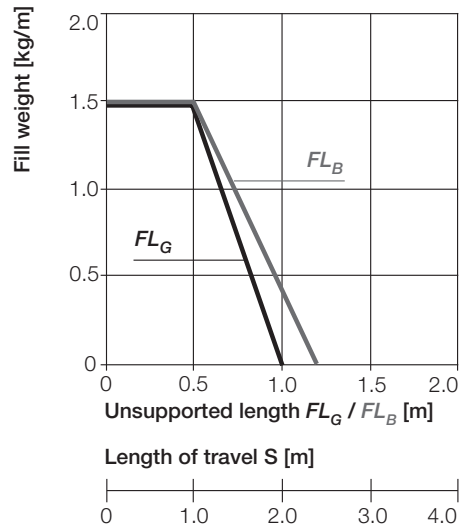
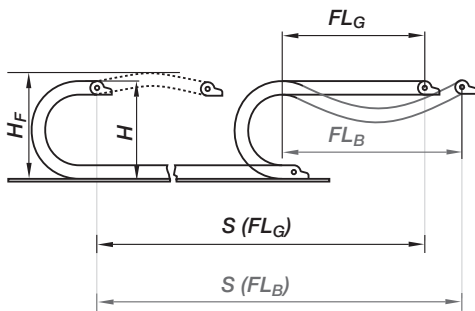


Unsupported length

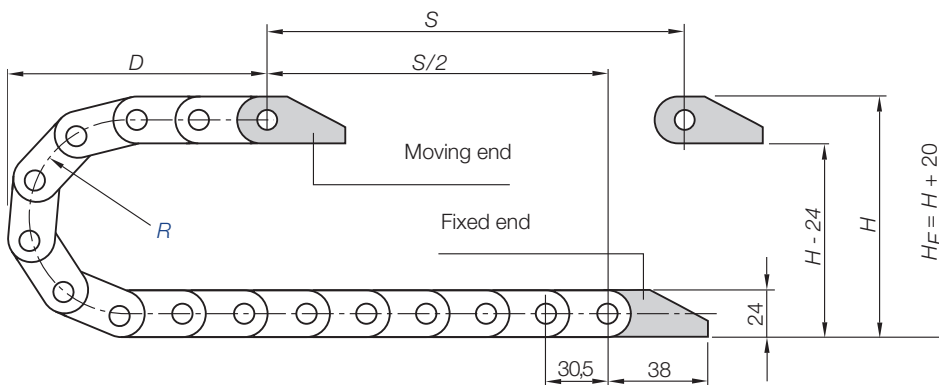
FL_G = with straight upper run

FL_B = with permitted sag

Further information ► **Design, page 1.12**



- 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 = 30,5 mm/link Links/m = 33 (1.000 mm) Chain length = $S/2 + K$

R	063	075	100	110	125	145	180
H	150	175	225	245	275	315	385
D	120	145	155	170	190	225	279
K	260	300	375	410	455	520	630

The required clearance height:
 $H_F = H + 20$ mm
 (with 1,0 kg/m fill weight)

Speed / acceleration FL_G	max. 20 [m/s] / max. 200 [m/s ²]
Speed / acceleration FL_B	max. 3 [m/s] / max. 6 [m/s ²]
Gliding speed / acceleration (maximum)	max. 10 [m/s] / max. 50 [m/s ²]
Material - permitted temperature °C	igumid G / -40° to +120° C
Flammability class, igumid G	VDE 0304 IIC UL94 HB

Technical Data



Details of material properties
 ► page 1.38

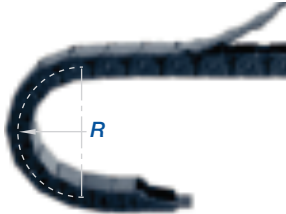
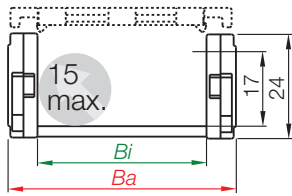


Zipper E-Tubes
Inner height: 17 mm

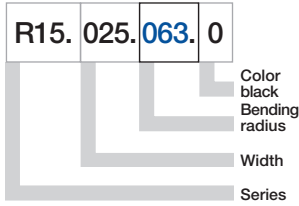
Phone +49- (0) 22 03-96 49-800
Fax +49- (0) 22 03-96 49-222



► page 4.5



Part No. structure



Series R15 E-Tube - zip-open along the outer radius

Part No.	<i>Bi</i> [mm]	<i>Ba</i> [mm]	<i>R</i> [mm]	Bending Radii							Weight [kg/m]
R15.025. <input type="text"/> .0	25	36	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,40
R15.038. <input type="text"/> .0	38	49	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,46
R15.063. <input type="text"/> .0	63	76	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,63
R15.080. <input type="text"/> .0	80	94	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	≈ 0,70

More E-Tube widths are available upon request.

Supplement part no. with required radius (*R*) Example: R15.025. .0

0 = standard color, other colors ▶ page 1.39 · Pitch = 30,5 mm/link - Links/m = 33

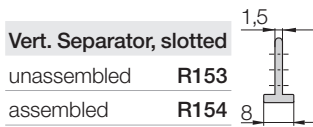


Phone +49- (0) 22 03-96 49-800
Fax +49- (0) 22 03-96 49-222

igus® GmbH
51147 Cologne

Internet: www.igus.eu
E-mail: info@igus.de

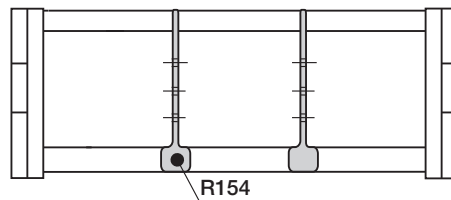
Zipper | **Series R15** | Accessories | Interior Separation



Vert. Separator, slotted
unassembled **R153**
assembled **R154**

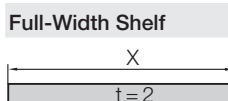
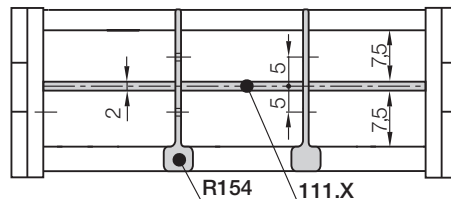
Option 1: Vertical Separators

- **Vertical Separators** are used if a vertical subdivision of the E-Chain® interior is required
- **Standard** subdivision with **Vertical Separator, slotted 154**, for combinations with **Full-Width Shelf 111.X**
- **By standard** Vertical Separators are assembled every other chain link



Option 2: Full-Width Shelves

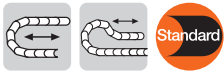
- For applications involving many thin cables with similar or identical diameters



Full-Width Shelf

Width X [mm]	Part No. unassembled	Part No. assembled
025	110.25	111.25
038	110.38	111.38

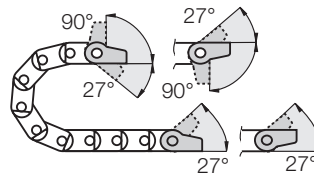
Width X [mm]	Part No. unassembled	Part No. assembled
063	110.63	111.63
080	110.80	111.80



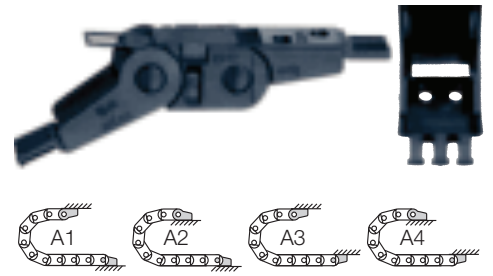
The Standard - option polymer - pivoting

- Recommended for unsupported and gliding applications
- Well suited for tight installation conditions
- Available with or without strain relief tiwrap plates
- Variable traverse angle for flexible assembly

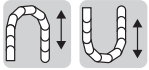
Moving end with bore
(outer link) 10...3P(Z)



10...4P(Z) Fixed end
with pin (inner link)



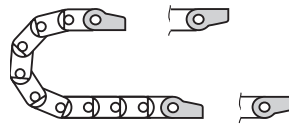
Possible installation conditions for assembled mounting brackets ► Order example "preassembled" below



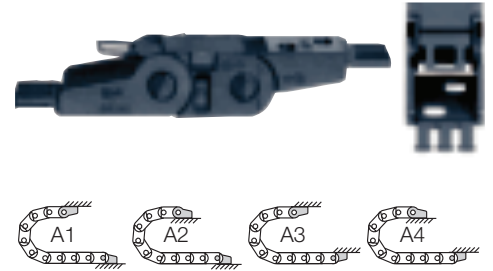
Option polymer - locking

- Recommended for unsupported and gliding applications
- Furthermore:**
- At very high speed and/or acceleration
 - If space is limited for height (the H_F measurement)

Moving end with bore
(outer link) 10...1P(Z)



10...2P(Z) Fixed end
with pin (inner link)

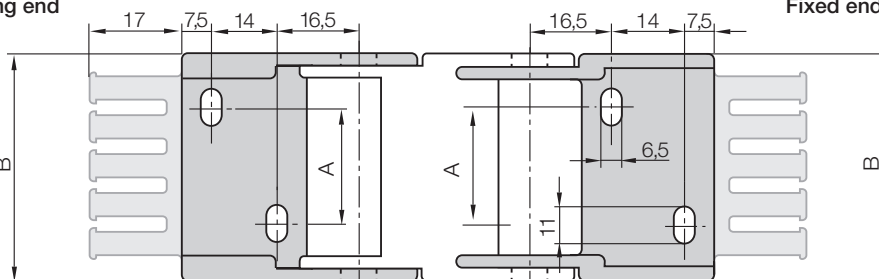


Possible installation conditions for assembled mounting brackets ► Order example "preassembled" below

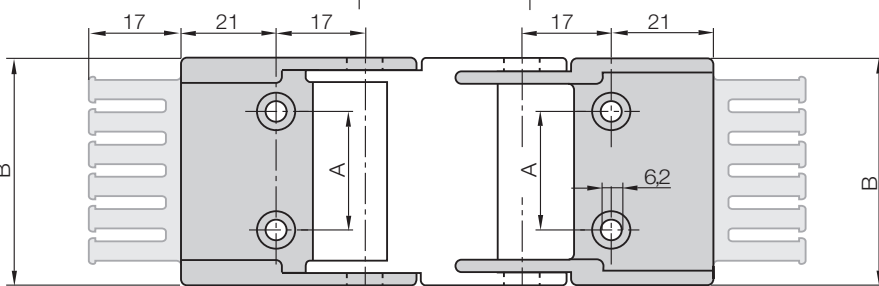
10...3P(Z) Standard! (pivoting)
10...1P(Z) (locking)

Moving end

R15.025



R15.063 - R15.080



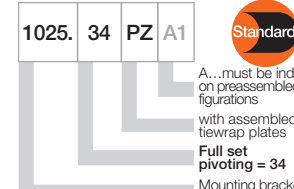
Für E-chain®	Part No. full set with tiwrap plate	Part No. full set without tiwrap plate	Number of teeth	Dim. A [mm]	Dim. B [mm]
R15.025. ►	1025. [] PZ	1025. [] P	3	10	35,5
R15.038. ►	1038. [] PZ	1038. [] P	4	23	48,5
R15.063. ►	105. [] PZ	105. [] P	6	48	75,0
R15.080. ►	106. [] PZ	106. [] P	8	65	92,0

Please add the Part No. with the requested index - 34 for the pivoting configuration e.g. 1025. [34] PZ or 12 for the locking configuration e.g. 1025. [12] PZ. For the preassembled mode please add the index [A1] ... [A4] e.g. 1025. [34] PZ [A1]

Dimensions and order configurations

Strain relief is possible on the moving end and/or the fixed end.

Part No. structure (pivoting)



Full set, for both ends:

1025. [34] PZ +tiwrap plate

Single-part order:

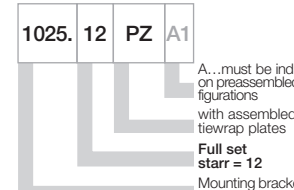
1025. [3] PZ +tiwrap plate

Mounting bracket with bore

1025. [4] PZ +tiwrap plate

Mounting bracket with pin

Part No. structure (locking)



Full set, for both ends:

1025. [12] PZ +tiwrap plate

Single-part order:

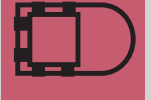
1025. [1] PZ +tiwrap plate

Mounting bracket with bore

1025. [2] PZ +tiwrap plate

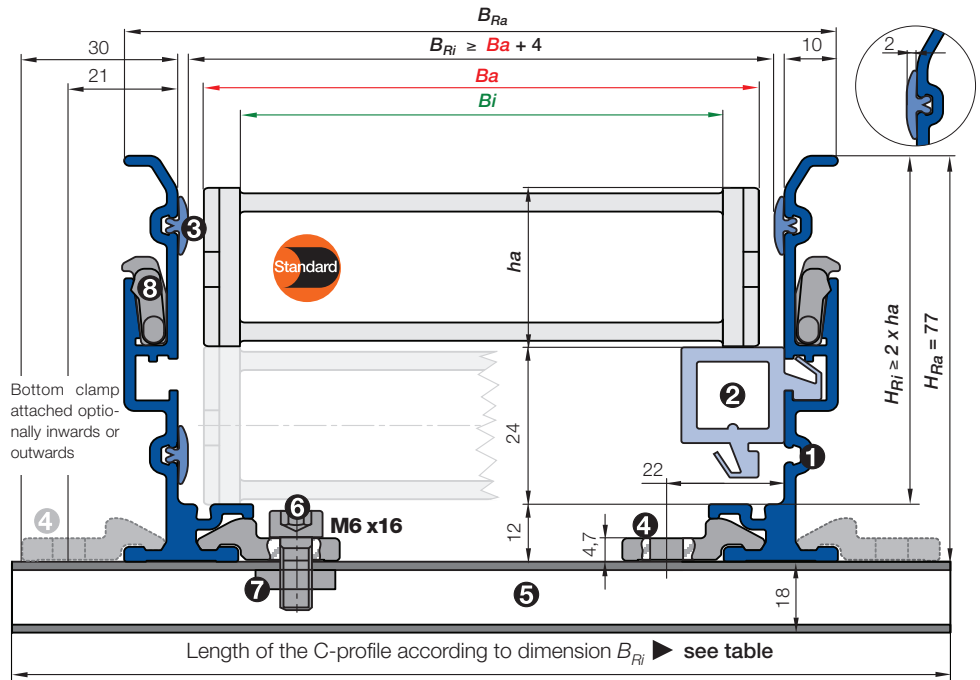
Mounting bracket with pin

Quicksnap + Quickfix upon request



► page 4.5

- B_a = Outer width E-Chains® / E-Tube
- B_i = Inner width E-Chains® / E-Tube
- h_a = Outer height E-Chains® / E-Tube
- H_{Ri} = Inner trough height
- H_{Ra} = Outer trough height
- B_{Ri} = Inner trough width ▶ depends on dim. B_a
- B_{Ra} = Outer trough width
- n_{Mon} = Number of installation sets (left/right)
- n_{Ri} = Number of troughs sets (left/right)
- $H_{Ri} \geq 2 \cdot h_a$
 $B_{Ri} \geq B_a + 4$
- = Guide trough set ● = Glide bar
● = Installation set "Basic" ● = C-profile



- **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request)
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, steel galvanized ⑥ Screw M6 x16 ⑦ Sliding nut M6 ⑧ Interface connector, plastic

Installation set "Basic" with C-profile

Bottom Clamp attached optionally inwards or outwards

R15.025.100.0 ▶ Order example

B_{Ri} [mm]	Part No.	
	attached inwards	attached outwards
.025 40	-	960.30.150
.063 80	-	960.30.175
.080 98	960.30.150	960.30.200

Phone +49- (0) 22 03-96 49-800
 Fax +49- (0) 22 03-96 49-222

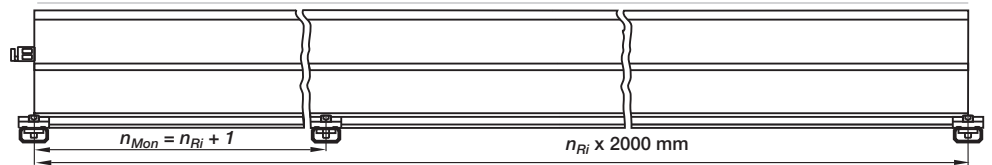
igus® GmbH
 51147 Köln

Internet: www.igus.eu
 E-mail: info@igus.de

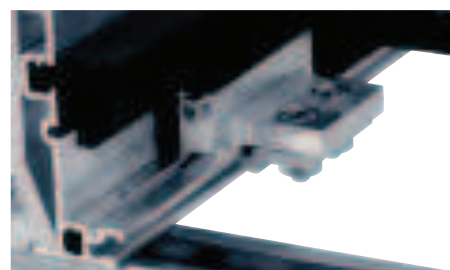


Order example: Length of travel 30 m - Center mounted for Series R15.025.100.0 with $B_{Ri} = 40$

- Guide trough set (set of 2 trough side parts, incl. glide strips) **without** glide bar
Order text: 16 m guide trough without glide bar (8 x 2 m sections) Part No. 970.30.SL
- Guide trough set (set of 2 trough side parts, incl. glide strips) **with** glide bar
Order text: 16 m guide trough with glide bar (8 x 2 m sections) Part No. 970.31.SL
- Installation set "Basic" complete (guide trough-sets + 1)
Order text: 17 installation sets "Basic" Part No. 960.30.150
- Module for the fixed end
Order text: 1 set Part No. 970.80
- Option:** For an additional noise dampening with silencer profile, please add Index A - Example:
Part No. 970.30.SLA



Principle sketch: Number of installation sets to be installed = **Number of trough sections + 1**



A quick fix for mounting the stationary end of an E-Chain®

With this module for the fixed end, fast and easy mounting onto the Aluminum "SuperTrough" is now possible without any drilling. Fast mounting of the E-Chain® by clamping onto the aluminum trough

- Quick relocation of the stationary end
- No drilling necessary