

● ● ● Price index



**Special equipment:**  
Electrically conductive ESD/ATEX  
version upon request



UL94-V2 classifications  
upon request

- ① Large pins and double stop dog for long service life and long unsupported length
- ② To be opened along outer radius (Series B15) and/or along inner radius (Series B15i), these Series can be combined
- ③ Mounting bracket with integrated strain relief
- ④ Dirt-repellent exterior
- ⑤ Interior separation available



Easy to assemble and to disassemble



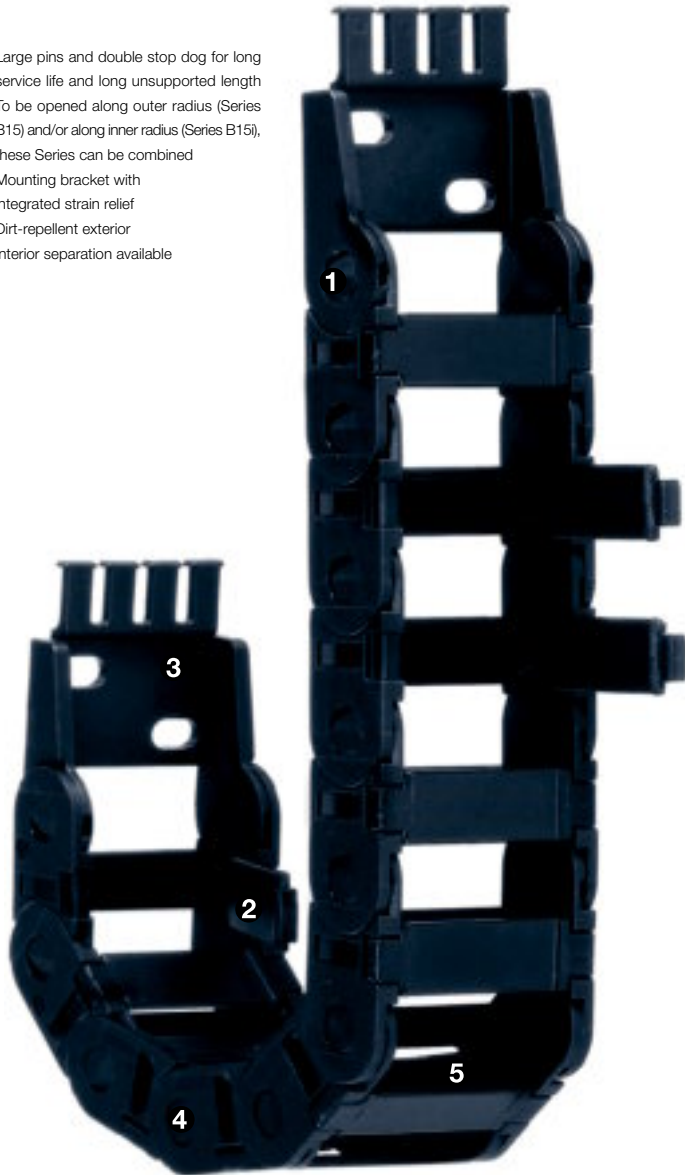
**When to use the Series B15i/B15:**

- If opening is necessary
- If a small but very stable chain is required



**When not to use it:**

- If opening of the links is not necessary
  - ▶ Series 10 E2 mini, page 5.48
- If torsion occurs
  - ▶ Series E14 Easy Chain®, page 3.32



**Order example complete E-Chain®**

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

1 m **B15.025.038.0**



**E-Chain®**

with 2 separators **154** assembled every 2<sup>nd</sup> link



**Interior separation**

1 set **1025.12PZ**



**Mounting bracket**

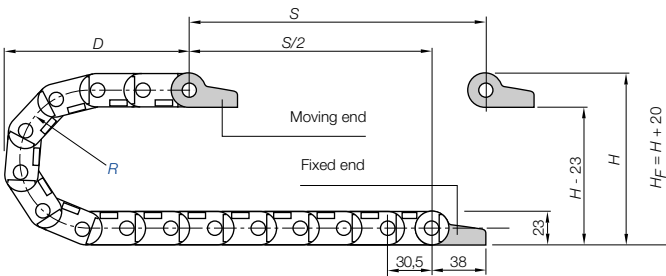
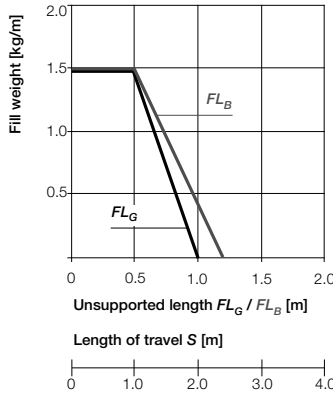
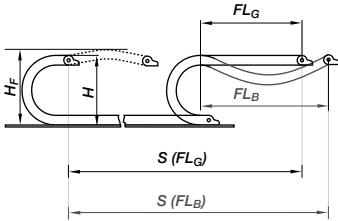


**Unsupported length**

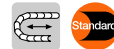
$FL_G$  = with straight upper run

$FL_B$  = 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 (1.006,5 mm) Chain length =  $S/2 + K$**

$R$	038	048	075	100	110	125	145	180
$H$	100	120	175	225	245	275	315	385
$D$	80	90	120	145	155	170	190	225
$K$	185	215	300	375	410	455	520	630

The required clearance height:  
 $H_F = H + 20$  mm  
(with 0,5 kg/m fill weight)



E2 mini  
Inner height: 17 mm

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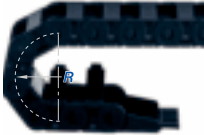
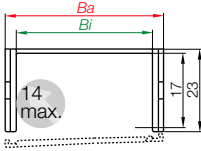
► page 5.47

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

**Technical Data**



**Details of material properties**  
► page 1.38



Series B15i E-Chain® - snap-open along inner radius

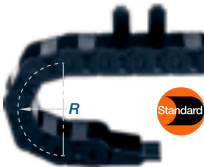
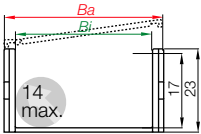
Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii								Weight [kg/m]
B15i.015. □.0	15	26	038	048	075	100	110	125	145	180	= 0,35	
B15i.025. □.0	25	36	038	048	075	100	110	125	145	180	= 0,40	
B15i.038. □.0	38	49	038	048	075	100	110	125	145	180	= 0,46	
B15i.050. □.0	50	61	038	048	075	100	110	125	145	180	= 0,52	
B15i.5. □.0	63	76	038	048	075	100	110	125	145	180	= 0,63	
B15i.6. □.0	80	94	038	048	075	100	110	125	145	180	= 0,70	
B15i.7. □.0	100	113	038	048	075	100	110	125	145	180	= 0,76	

Supplement Part No. with required radius. Example: B15i.025. 038.0

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

Part No. structure

B15i. 025. 038. 0



Series B15 - snap-open along outer radius - Standard!

Part No.	Bi [mm]	Ba [mm]	R [mm]	Bending radii								Weight [kg/m]
B15.015. □.0	15	26	038	048	075	100	110	125	145	180	= 0,35	
B15.025. □.0	25	36	038	048	075	100	110	125	145	180	= 0,40	
B15.038. □.0	38	49	038	048	075	100	110	125	145	180	= 0,46	
B15.050. □.0	50	61	038	048	075	100	110	125	145	180	= 0,52	
B15.5. □.0	63	76	038	048	075	100	110	125	145	180	= 0,63	
B15.6. □.0	80	94	038	048	075	100	110	125	145	180	= 0,70	
B15.7. □.0	100	113	038	048	075	100	110	125	145	180	= 0,76	

Supplement Part No. with required radius. Example: B15.025. 038.0

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

Part No. structure

B15. 025. 038. 0



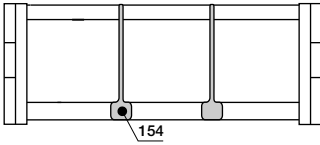
### Option 1: Vertical Separators

Vertical Separators are used if a vertical subdivision of the E-Chain® interior is required -

By standard Vertical Separators are assembled every other E-Chain® link

- Standard subdivision with Vertical Separator, slotted 154, for combinations with Full-Width Shelf 111.X

Vert. Separator, slotted		
unassembled	153	1.5 Standard
assembled	154	



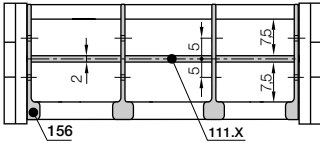
E2 mini  
Inner height: 17 mm

### Option 2: Full-Width Shelves

For applications involving many thin cables with similar or identical diameters

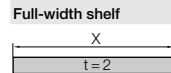
- Side Plate 156 can be combined with Vertical Separator, slotted 154 and Full-Width Shelf 111.X

Side Plate		
unassembled	155	1.5
assembled	156	



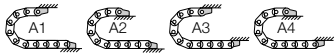
Width X [mm]	Part No. unassembled	Part No. assembled
015	110.15	111.15
025	110.25	111.25
038	110.38	111.38
050	110.50	111.50

Width X [mm]	Part No. unassembled	Part No. assembled
063	110.63	111.63
080	110.80	111.80
100	110.100	111.100

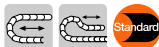


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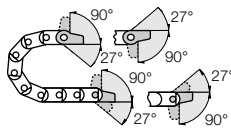
Possible installation conditions for assembled mounting brackets ▶ Order example "preassembled" below



### The Standard - option polymer - pivoting

- Recommended for unsupported and gliding applications
- Well suited for tight installation conditions
- Strain relief with detachable tiwrap plates
- Variable traverse angle for flexible assembly

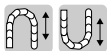
Moving end with bore  
(outer link) 10...3P(Z)



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



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

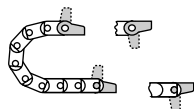


### Option polymer - locking

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

Furthermore:

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



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

## Dimensions and order configurations

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

Part No. structure (pivoting)

1025. 34 PZ A1

A... must be indicated on preassembled configurations  
Full set with strain relief  
Full set pivoting = 34  
Mounting brackets for selected chain type

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)

1025. 12 PZ A1

A... must be indicated on preassembled configurations  
Full set with strain relief  
Full set locking = 12  
Mounting brackets for selected chain type

Full set, for both ends:

1025. 12 PZ +tiwrap plate

Single-part order:

1025. 1 PZ +tiwrap plate

Mounting bracket with bore

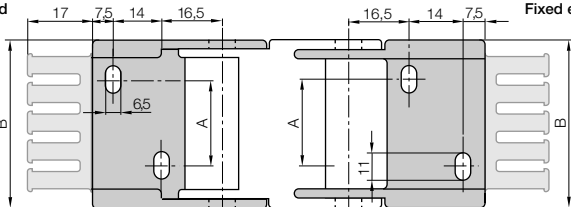
1025. 2 PZ +tiwrap plate

Mounting bracket with pin

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

10...1P(Z) (locking)

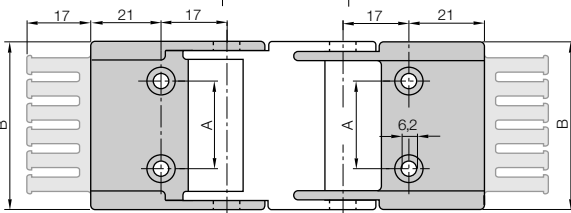
Moving end



Standard! (pivoting) 10...4P(Z)

(locking) 10...2P(Z)

Fixed end



For E-Chain®:  
B15i·B15.015 bis  
B15i·B15.050

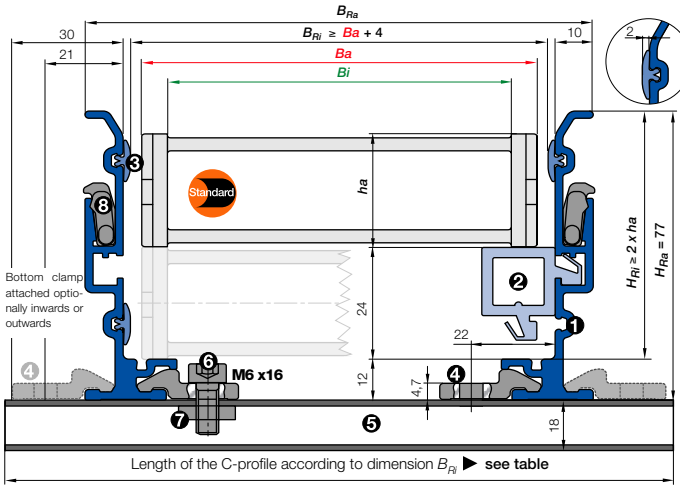
For E-Chain®:  
B15i·B15.5 to  
B15i·B15.7

For E-Chain®	Part No. full set with tiwrap plate	Part No. full set without tiwrap plate	Dim. A [mm]	Dim. B [mm]
B15i·B15.015. ▶	1015. <input type="checkbox"/> PZ	1015. <input type="checkbox"/> P	-	25,5
B15i·B15.025. ▶	1025. <input type="checkbox"/> PZ	1025. <input type="checkbox"/> P	10	35,5
B15i·B15.038. ▶	1038. <input type="checkbox"/> PZ	1038. <input type="checkbox"/> P	23	48,5
B15i·B15.050. ▶	1050. <input type="checkbox"/> PZ	1050. <input type="checkbox"/> P	35	60,5
B15i·B15.5. ▶	105. <input type="checkbox"/> PZ	105. <input type="checkbox"/> P	48	75,0
B15i·B15.6. ▶	106. <input type="checkbox"/> PZ	106. <input type="checkbox"/> P	65	92,0
B15i·B15.7. ▶	107. <input type="checkbox"/> PZ	107. <input type="checkbox"/> P	85	112,0

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

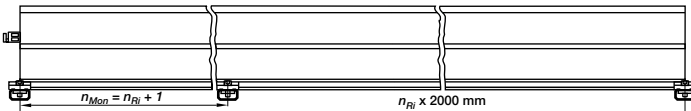


- **Components, trough "Basic":** ① Trough side parts, aluminum, 2 m ② Glide bar, plastic, 2 m ③ Glide strips, plastic, 2 m (without glide strips on request)
- **Components, installation set "Basic":** ④ Bottom clamp, aluminum ⑤ C-profile, steel galvanized ⑥ Screw M6 x16 ⑦ Sliding nut M6 ⑧ Interface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



**Order example: Length of travel 30 m - Center mounted for Series B15.038.038.0 with  $B_{Ri} = 53$**

- 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

- $B_a$  = 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 trough sets (left/right)
- $H_{Ri} \geq 2 \cdot h_a$
- $B_{Ri} \geq B_a + 4$
- = Guide trough set    ● = Installation set "Basic"
- = Glide bar    ● = C-profile

**Installation set "Basic" with C-profile**

Bottom Clamp attached optionally inwards or outwards

B15.038.038.0 ▶ Order example

$B_{Ri}$ [mm]	Part No. attached	
	inwards	outwards
.015 30	-	960.30.125
.025 40	-	960.30.150
.038 53	-	960.30.150
.050 65	960.30.125	960.30.175
.5 80	960.30.125	960.30.175
.6 98	960.30.150	960.30.200
.7 117	960.30.175	960.30.225

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▶ chapter 9



▶ page 5.47