

igus® Energy Chain Systems®

Price Index



4 Widths
8 Bending Radii



For new constructions we recommend:
Series 15 New "Zipper", Page 4.16

Product Range:

Inner Widths (Bi) in mm:	15, 25, 38, 50
Bending Radii (R) in mm:	038, 048, 075, 100*, 110, 125*, 145, 180
Pitch:	30,5 mm/link = 33 links/m

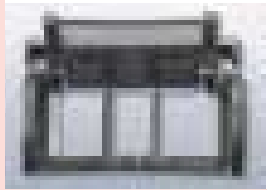
For inner widths 63, 80, 100, see Page 4.16, Series 15 New "Zipper"

Unsupported length

- FL_B = unsupported with permitted sag
- FL_G = unsupported with straight upper run

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Interior separation possible

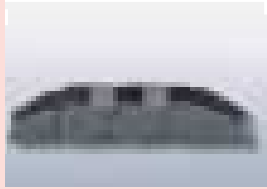


2 options for mounting brackets



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Mounting brackets with or without strain relief tiewrap plates



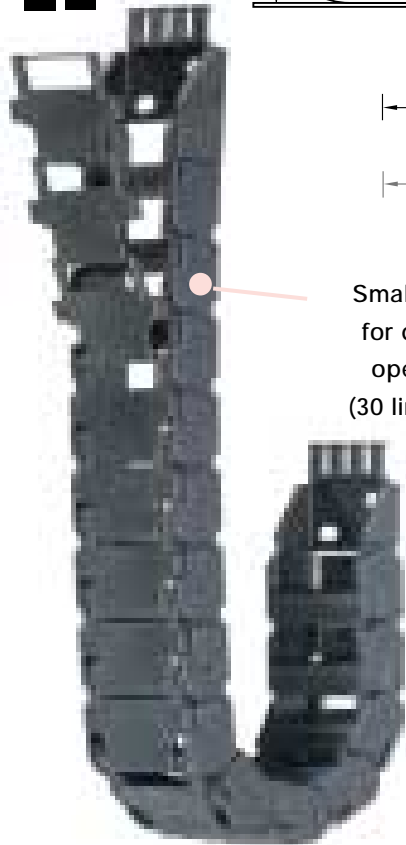
Quicksnap: the complete unit detachable by hand



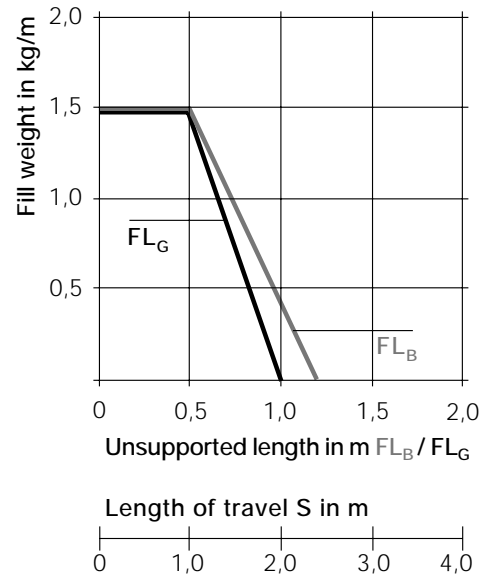
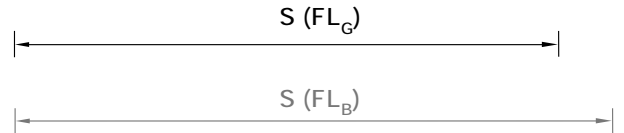
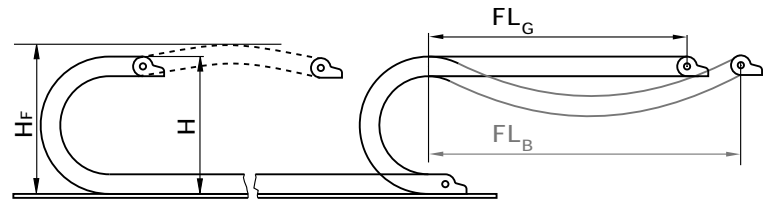
Quickfix: mounting bracket with dowel



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email: info@igus.de



Small pitch for quieter operation (30 links/m)



When to use the Series 15:

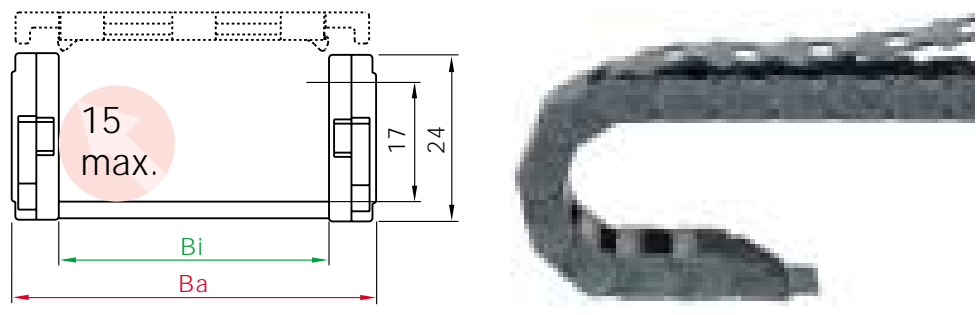
- If extremely quick access to cables is required
- If connection options are required (Quicksnap, Quickfix, etc.)
- If interior separation is required



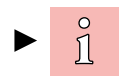
When not to use it:

- If access to cables via individual links is not required
 - ▶ Series 10 New "mini", Page 5.30
- If torsion occurs
 - ▶ Series E14 "Easy Chain", Page 3.30
- If the chain must snap-open along the inner radius
 - ▶ B15i New, Page 5.52

Product Range



Order Example



15.2.038.0

Standard color
0 = Black

- Other colors
- ▶ Design, Page 1.62

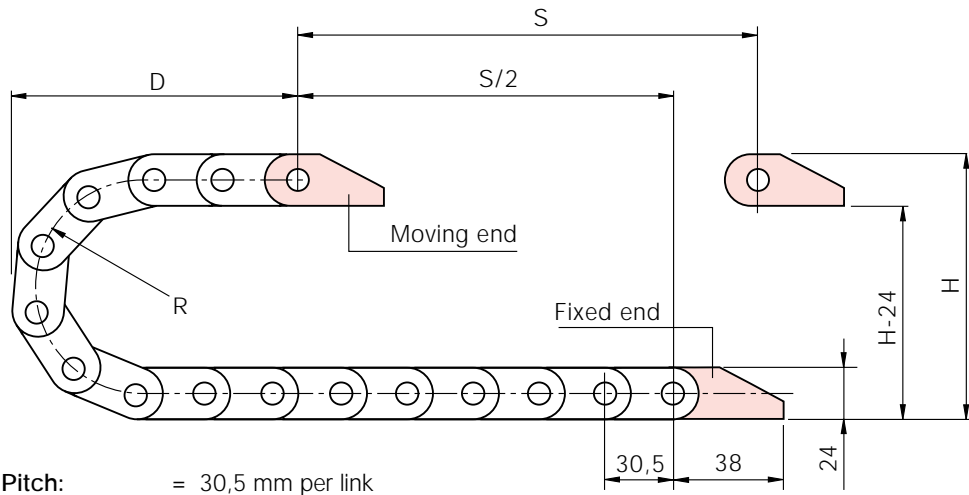
Zipper

Part No.		Bi	Ba	Bending Radii			
15.1	Radius	15	26	038	048	075	100*
15.2	Radius	25	36	110	125*	145	180
15.3	Radius	38	49	These bending radii can be			
15.4	Radius	50	61	combined with every chain width!			

Supplement part no. with required radius
for example 15.2.100.0

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Installation Dimensions



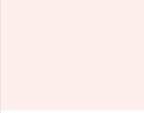
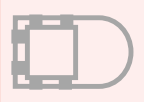
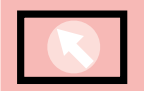
Pitch: = 30,5 mm per link
Links per m: = 33
Chain length: = $\frac{S}{2} + K$

R	38	48	75	100*	110	125*	145	180
H**	100	120	175	225	245	275	315	385
D	90	120	145	155	170	190	225	279
K	185	215	300	375	410	455	520	630



* Delivery time available upon request

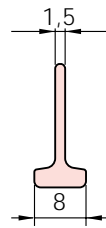
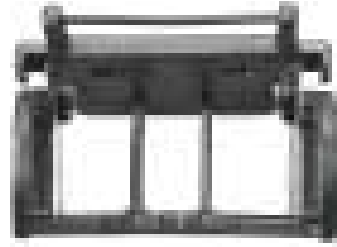
**The required clearance height is HF = H + 20 (with 1kg/m fill weight)
Please consult igus® if space is particularly restricted.



One option is available for interior separation of the Series 15 "Zipper":

Vertical Separators

Separators are used in order to vertically partition the interior of the Energy Chain®. Separators are removable and adjustable for a variety of chamber widths.



Vertical Separator

Unassembled	Part No. 151
Assembled	Part No. 152

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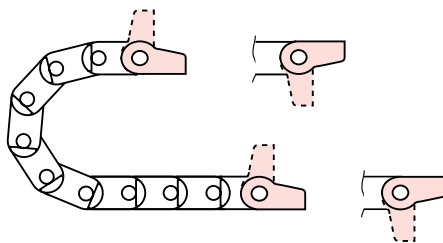
Mounting Brackets: Series 15 "Zipper"

Option 1: Polymer, One-Piece

10...1
Moving end

3 options for all applications

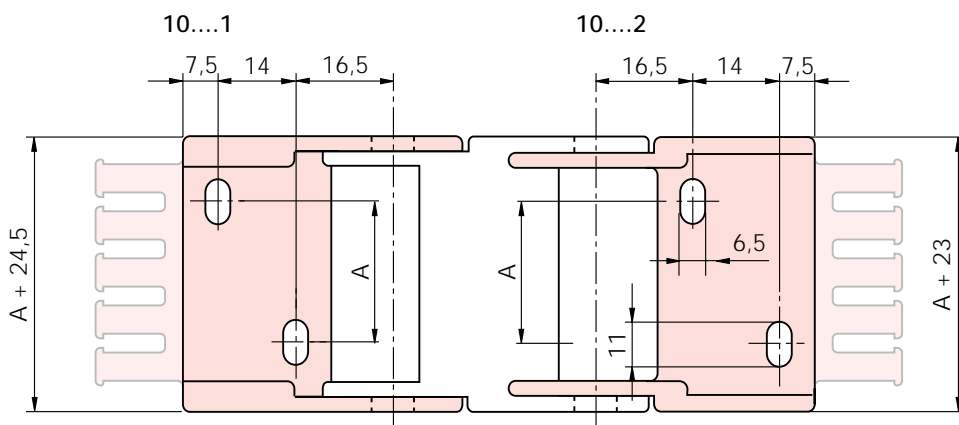
- ! Standard
- + One-piece mounting bracket
- + Corrosion-resistant
- + Available pre-assembled
- + Inner and outer attachment possible
- + 90° flush-mounting possible
- + Integrated strain relief available



10...2
Fixed end



● Mounting bracket with or without strain relief tiwrap plates

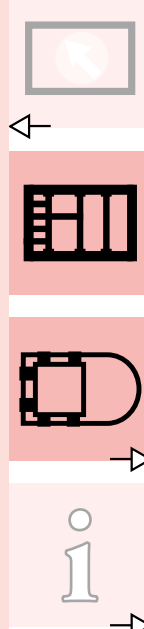


101.12.P(Z) and 104.12.P(Z)

Chain Type	Part No. Full Set with Strain Relief Tiwrap Plates	Part No. Full Set	Dimension A in mm
15.1	101.12PZ	101.12P	0
15.2	102.12PZ	102.12P	10
15.3	103.12PZ	103.12P	23
15.4	104.12PZ	104.12P	35

- 10...12 = Full set, each part with pin / bore
- 10... 1 = Mounting bracket with bore
- 10... 2 = Mounting bracket with pin

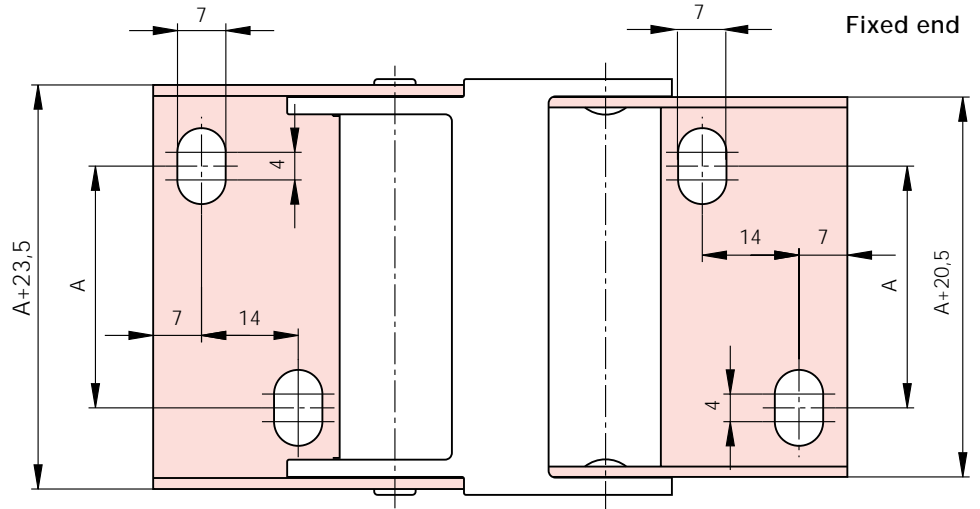
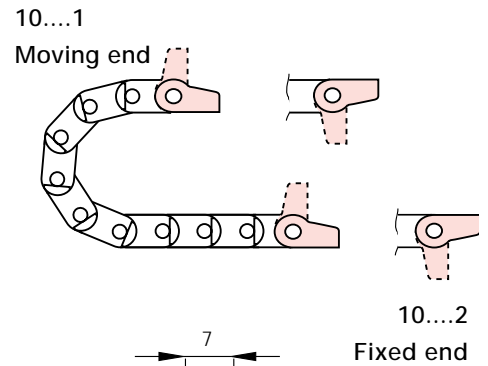
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Mounting Brackets: Series 15 "Zipper"

Option 2: Steel, One-Piece

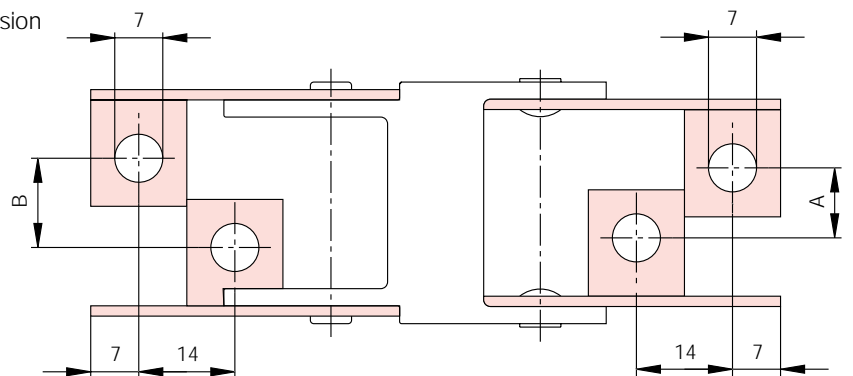
- + One-piece mounting bracket
- + Available pre-assembled
- + Inner and outer attachment possible
- Integrated strain relief
- Corrosion



101.12 - 104.12

Option 3: Steel, Two-Piece

- + One set suitable for all widths
- Integrated strain relief
- Corrosion



100.12

Chain Type	Part No. One-Piece	Part No. Set Two-Piece	Dimension A* in mm	Dimension B* in mm
15.1	101.12	100.12.	0	3
15.2	102.12	100.12.	10	13
15.3	103.12	100.12	23	26
15.4	104.12	100.12	35	13

* A may be equal to B owing to slot

- 10...12 = Full set, each part with pin / bore
- 10... 1 = Mounting bracket with bore
- 10... 2 = Mounting bracket with pin

● Steel mounting bracket



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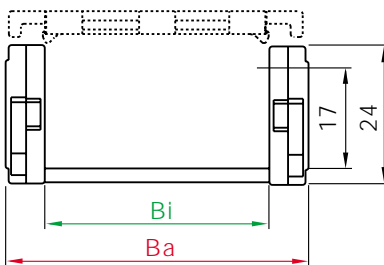
Order Example

15.2...

1. Chain selection:

15.2.038.0

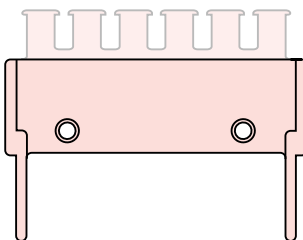
- Color
- Radius
- Width
- Chain type



2. Mounting brackets:

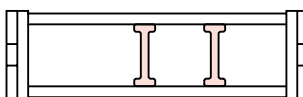
102.12PZ

- Full set
- Chain width



3. Interior separation:

2 separators unassembled (Part No. 151),
or assembled on every other chain link (Part No. 152)
Alternative interior separation configuration
according to design layout possible.



For 5 m chain, color black, with mounting brackets:
1 m 15.2.038.0 and 102.12

33 links (33 links/m)



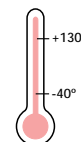
Technical Data

Chain Type	Weight Per Link (g)	Weight Per Meter (kg)
15.1	≈ 10	≈ 0,35
15.2	≈ 12	≈ 0,40
15.3	≈ 14	≈ 0,46
15.4	≈ 16	≈ 0,52



The following applies to all series listed here:

Material	igumid G
Permitted temperature °C	-40/+130
Gliding speed (maximum) m/s	3
Unsupported v (maximum) m/s	10
Flammability class	VDE 0304 IIC UL94 HB



- Details of material properties
- ▶ Design, Page 1.61

Zipper

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Price Index

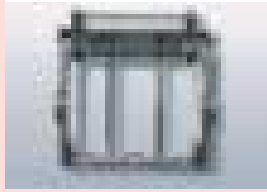


7 Widths
4 Bending Radii



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Interior separation possible



Mounting brackets with or without strain relief tiewrap plates



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Quicksnap: the complete, detachable mounting unit



Quickfix: mounting bracket with dowel



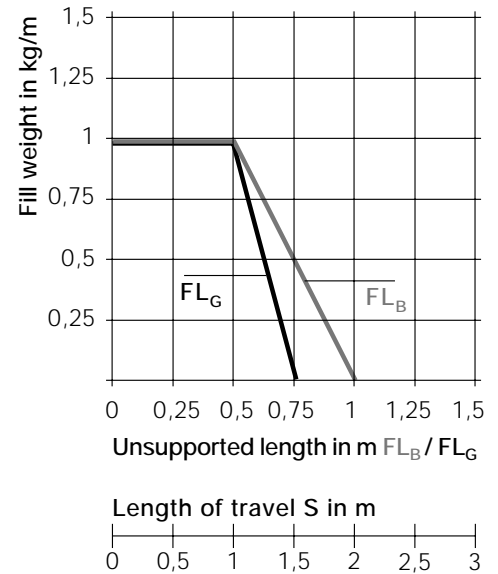
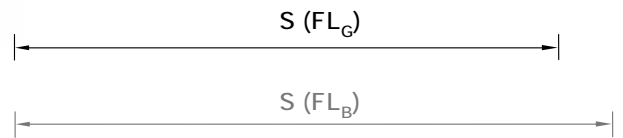
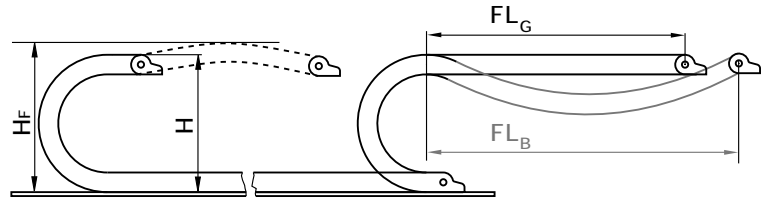
Internet: <http://www.igus.de>
email: info@igus.de

Product Range:

Inner Widths (Bi) in mm:	15, 25, 38, 50, 63, 80, 100
Bending Radii (R) in mm:	063, 075, 100, 125
Pitch:	30,5 mm/link = 33 links/m

Unsupported length

- FL_B = unsupported with permitted sag
- FL_G = unsupported with straight upper run



Small pitch for quieter operation (33 links/m)



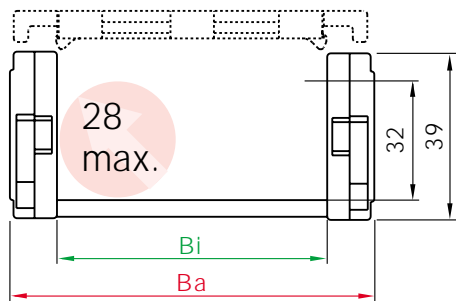
When to use the Series 17:

- If extremely quick, zipper-like access to cables is required
- If connection options are required (Quicksnap, Quickfix, etc.)
- If quieter operation is required
- If aesthetic design is required

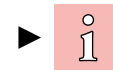


When not to use it:

- If individual links must snap-open, as opposed to "unzip"
 - ▶ Series B17, Page 5.66
- If torsion occurs
 - ▶ Series E16 "Easy Chain®", Page 3.46



Order Example



17.2.048.0

Standard color
0 = Black

● Other colors
▶ Design,
Page 1.62

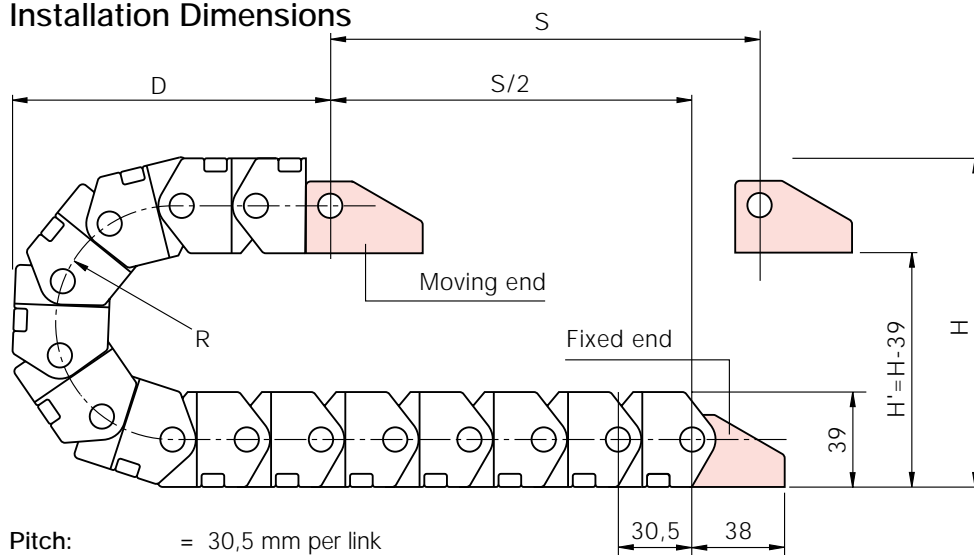
Zipper

Part No.		Bi	Ba	Bending Radii for all Chain Widths
17.1.	Radius	15	25,5	063 075 100 125
17.2.	Radius	25	35,5	063 075 100 125
17.3.	Radius	38	48,5	063 075 100 125
17.4.	Radius	50	60,5	063 075 100 125
17.5.	Radius	63	76	063 075 100 125
17.6.	Radius	80	93	063 075 100 125
17.7.	Radius	100	113	063 075 100 125 048*

*available upon request

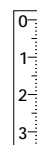
Supplement part no. with required radius
for example 17.1.063.0

Installation Dimensions



Pitch: = 30,5 mm per link
Links per m: = 33
Chain length: = $\frac{S}{2} + K$

R	63	75	100	125
H'	165	189	239	289
D	115	130	155	180
K	275	305	395	475



*The required clearance height is HF = H + 25 (with 1,5 kg/m fill weight)
Please consult igus® if space is particularly restricted.

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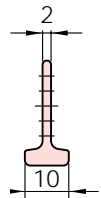
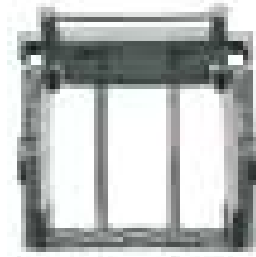


- Option 1: vertical separators

- Option 2: full-width shelf

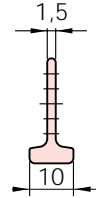
Option 1: Vertical Separators

These separators are used when vertical subdivision is required. A slotted separator can also be used in conjunction with a full-width shelf for continuous horizontal subdivision.



Vertical Separators for 17.1 to 17.4

Unassembled	Part No. 171
Assembled	Part No. 172

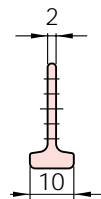
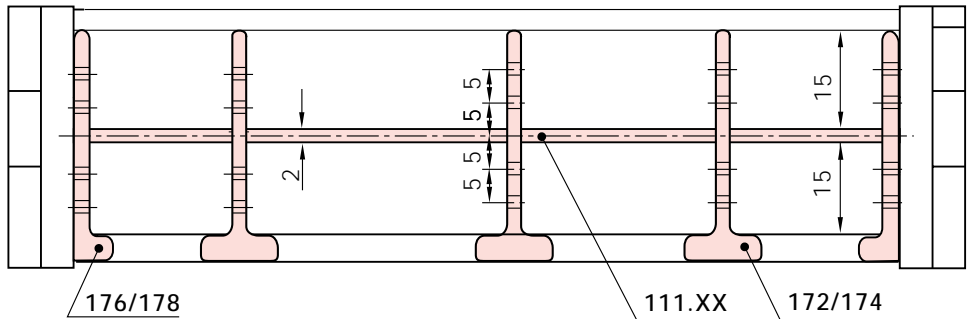
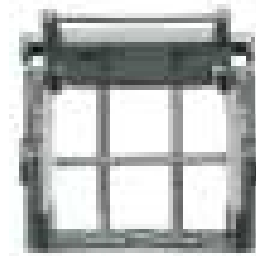


Vertical Separators for 17.5 to 17.17

Unassembled	Part No. 173
Assembled	Part No. 174

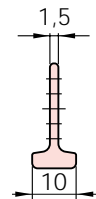
Option 2: Full-Width Shelf

Full-width shelves are used for continuous, horizontal, interior separation. This option is ideal for applications involving many thin cables with similar or identical diameters.



Vertical Separator, Slotted for 17.1 to 17.4

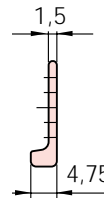
Unassembled	Part No. 171
Assembled	Part No. 172



Vertical Separators, Slotted for 17.5 to 17.7

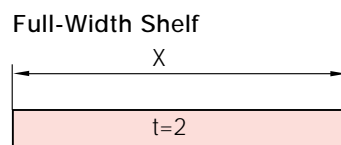
Unassembled	Part No. 173
Assembled	Part No. 174

Width X in mm	Part No.	Part No.
	Unassembled	Assembled
015	110.15	111.15
025	110.25	111.25
038	110.38	111.38
050	110.50	111.50
063	110.63	111.63
080	110.80	111.80
100	110.100	111.100

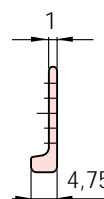


Side Plates for 17.1 to 17.4

Unassembled	Part No. 175
Assembled	Part No. 176



Full-Width Shelf









Side Plates for 17.5 to 17.7

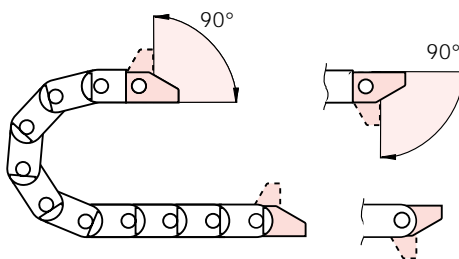
Unassembled	Part No. 177
Assembled	Part No. 178

Mounting Brackets: Series 17 "Zipper"

Polymer, One-Piece

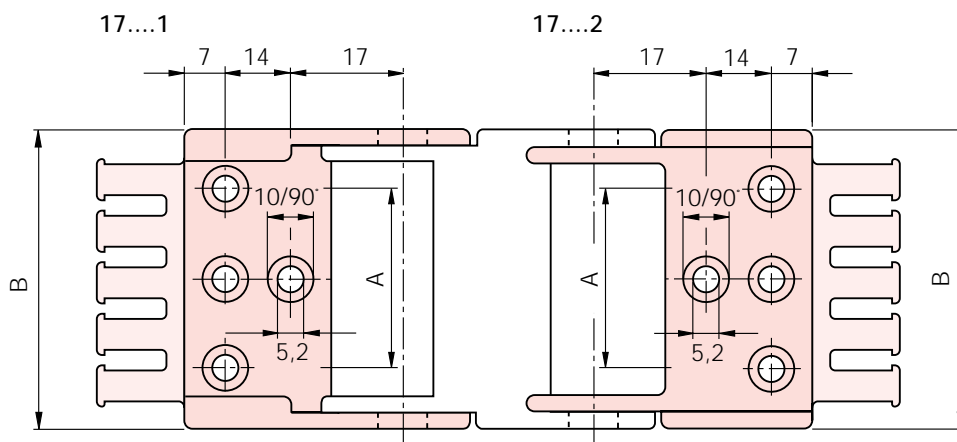
-  Standard
-  One-piece mounting bracket
-  Corrosion-resistant
-  Available pre-assembled
-  Inner and outer attachment possible
-  Available with integrated strain relief tiewrap plates

17....1
Moving end



17....2
Fixed end

● Mounting bracket with or without strain relief tiewrap plates



117.1.12P(Z): Center bores only

117.2.12P(Z) - 117.7.12P(Z): Outer bores only

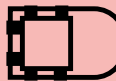
Chain Type	Part No. Full Set with Strain Relief Tiewrap Plates	Part No. Set Mounting Brackets	Number of Teeth	Dimension A in mm	Dimension B in mm
17.1.	117.1.12PZ	117.1.12P	2	0	25,5
17.2.	117.2.12PZ	117.2.12P	3	12	35,5
17.3.	117.3.12PZ	117.3.12P	4	25	48,5
17.4.	117.4.12PZ	117.4.12P	5	37	60,5
17.5.	117.5.12PZ	117.5.12P	6	48	76,0
17.6.	117.6.12PZ	117.6.12P	8	65	93,0
17.7.	117.7.12PZ	117.7.12P	10	85	113,0

17...12 = Full set, each part with pin / bore

17... 1 = Mounting bracket with bore

17... 2 = Mounting bracket with pin

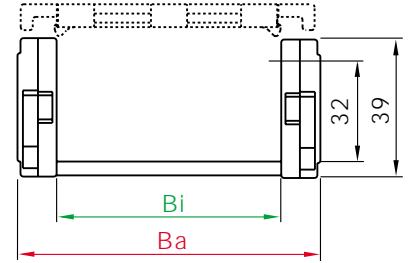
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Order Example

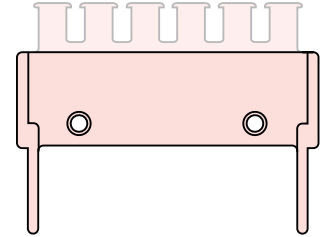
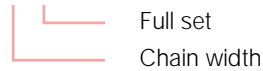
1. Chain selection:

17.2.063.0



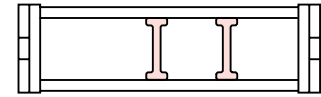
2. Mounting brackets:

117.2.12



3. Interior separation:

2 separators unassembled (Part No. 171),
or assembled on every other chain link (Part No. 172)



Alternative interior separation configuration according to design layout possible.

For 5 m chain, color black, with mounting brackets and two separators:
5 m 17.2.048.0 and 117.2.12 and two separators 172 assembled each 2. link



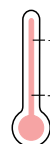
165 links (33 links/m)

Technical Data

Chain Type	Weight Per Link (g)	Weight Per Meter (kg)
17.1	16	≈ 0,52
17.2	18	≈ 0,59
17.3	19	≈ 0,65
17.4	21	≈ 0,70
17.5	25	≈ 0,83
17.6	28	≈ 0,92
17.7	32	≈ 1,06



The following applies to all series listed here:



Material	igumid G
Permitted temperature °C	-40/+130
Gliding speed (maximum) m/s	3
Unsupported v (maximum) m/s	10
Flammability class	VDE 0304 IIC UL94 HB

● Details of material properties

▶ Design, Page 1.61