

Price Index



4 Widths
8 Bending Radii



Interior separation possible



Mounting bracket with or without strain relief tiewrap plates



2 options for steel mounting brackets



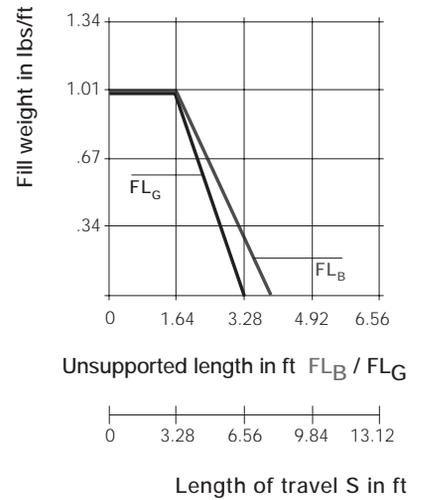
Quickfix: mounting bracket with pin
Call for availability



For new applications we recommend:
New Series 10 E2 "mini" Page 4.28

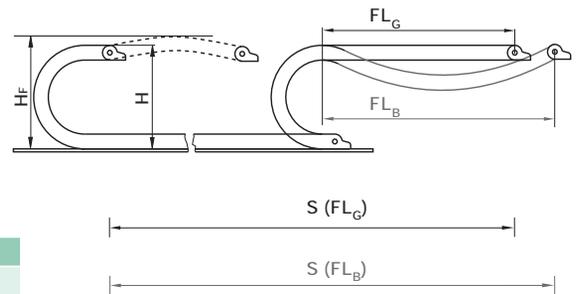


Minimum pitch for quiet operation



Unsupported length

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



Product Range:

Inner widths (Bi) inches (mm):	.59 (15), .98 (25), 1.50 (38), 1.97 (50),
Bending Radii (R) inches (mm):	1.10 (028), 1.50 (038), 1.89 (048), 2.95 (75),
Pitch:	1.20 (30.5 mm)/link = 10.06 links/ft (33 links/m)



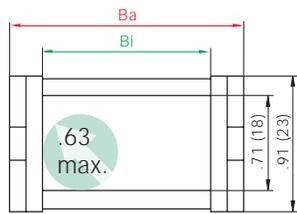
When to use the Series 10 E2 "mini":

- If snap-open links are not necessary
- If connection options are required (Quicksnap, Quickfix, etc.)



When not to use the Series 10 E2 "mini":

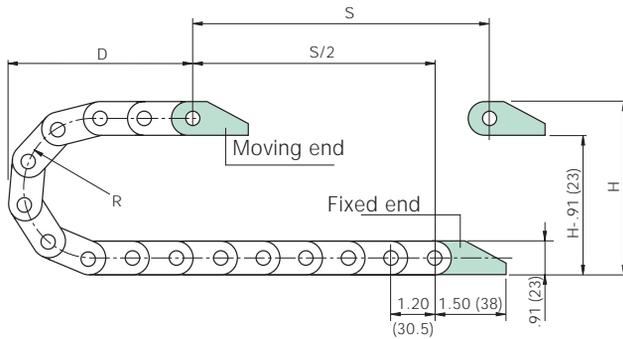
- If snap-open links are required
 - ▶ New Series 15 "Zipper", Chapter 3
- If quick insertion of cables with pre-assembled connectors is required
 - ▶ New Series E14 "E-Z Chain", Chapter 2



Part No.	Bi	Ba	Bending Radii for ALL Widths	
10-1	.59 (15)	1.02 (26)		1.10 (028)
10-2	.98 (25)	1.42 (36)		1.50 (038)
10-3	1.50 (38)	1.93 (49)		1.89 (048)
10-4	1.97 (50)	2.40 (61)		2.95 (075)

Supplement part number with required radius
for example, 10-2-038-0

Installation Dimensions



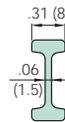
R	1.10 (28)	1.50 (38)	1.89 (48)	2.95 (75)
H*	3.15 (80)	3.94 (100)	4.72 (120)	6.89 (175)
D	2.76 (70)	3.15 (80)	3.54 (90)	4.72 (120)
K	5.91 (150)	7.28 (185)	8.46 (215)	11.81 (300)

*The required clearance height is $HF = H + .79 (20)$ with 1.01 lbs/ft (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Pitch: = 1.20 (30.5 mm per link)
 Links per ft (m): = 10.06 (33)
 Chain length: = $\frac{S}{2} + K$

Interior separation

These separators are used when vertical subdivision is required.



Vertical Separators

Unassembled	Part No. 101
Assembled	Part No. 111

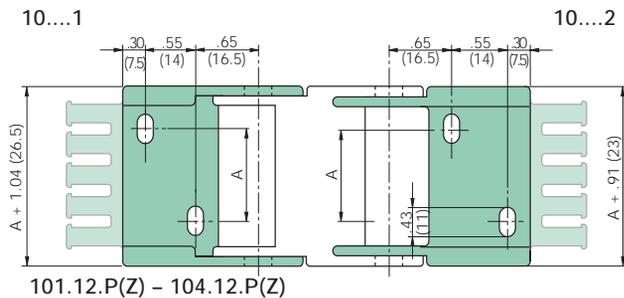
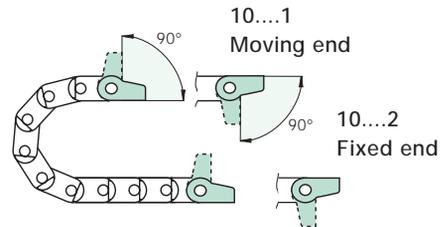
Mounting Brackets

Option 1: polymer, one-piece

● Mounting bracket with or without strain relief tiwrap plates



- One-piece mounting bracket
- Corrosion resistant
- Available pre-assembled
- Inner and outer attachment possible
- Flush mounting



Chain Type	Part No. Full Set with Tiewrap Plates	Part No. Set Mounting Brackets	Dimension A in. (mm)
10-1	101-12PZ	101-12P	.00 (0)
10-2	102-12PZ	102-12P	.39 (10)
10-3	103-12PZ	103-12P	.91 (23)
10-4	104-12PZ	104-12P	1.38 (35)

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

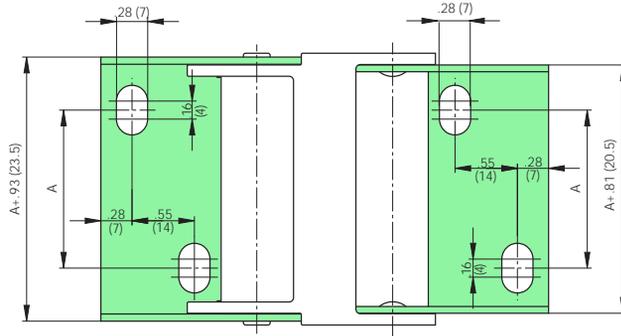
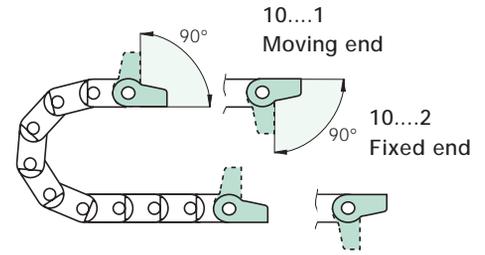
Telephone 1-800-521-2747
 Fax 1-401-438-7270



Mounting Brackets

Option 2: steel, one-piece

- One-piece mounting bracket
- Available pre-assembled
- Inner and outer attachment possible



101-12 - 104-12

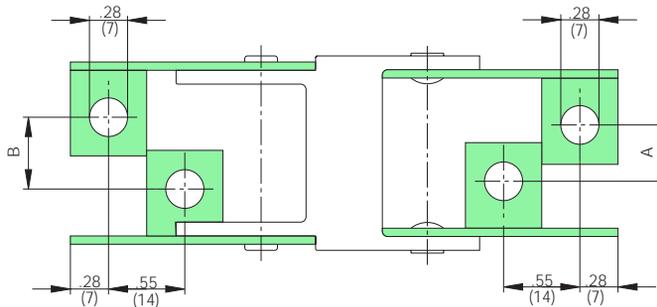
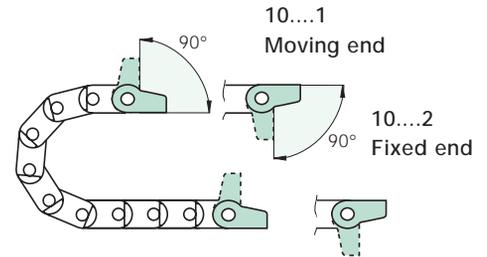
Chain Type	Part No. One-Piece	Dimension A in. (mm)	Dimension B in. (mm)
10-1	101-12	.00 (0)	.12 (3)
10-2	102-12	.39 (10)	.51 (13)
10-3	103-12	.91 (23)	1.02 (26)
10-4	104-12	1.38 (35)	1.50 (38)

101...12 = Full set, each part with pin/bore
 101... 1 = Mounting bracket with bore
 101.. 2 = Mounting bracket with pin

Mounting Brackets

Option 3: steel, two-piece

- One set, suitable for all widths

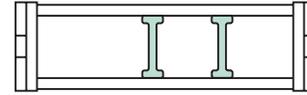
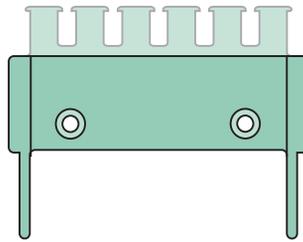
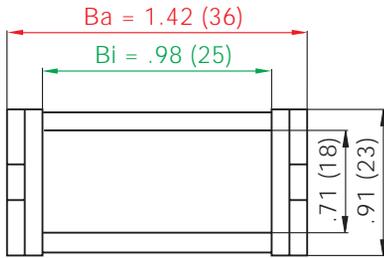


101-12 - 104-12

Chain Type	Part No. One-Piece	Dimension A in. (mm)	Dimension B in. (mm)
10-1	100-12	.00 (0)	.12 (3)
10-2	100-12	.39 (10)	.51 (13)
10-3	100-12	.91 (23)	1.02 (26)
10-4	100-12	1.38 (35)	1.50 (38)

Order Example and Technical Data: Series 10 E2 "mini"

Order example



1. Chain selection:

10-2-038-0



2. Mounting brackets:

102-12PZ



3. Interior separation:

2 separators, unassembled, (Part No. 101),
or
assembled every other link (Part No. 111).
Alternative interior separation configuration
according to design layout possible.

For 16.4 ft (5 m) chain, color black, with mounting brackets and two separators:

16.4 ft (5 m) 10-2-038-0 and 102-12PZ and two separators 111 assembled every other link



Technical data

Chain Type	Weight Per Link		Weight Per Meter	
	(oz.)	(g)	(lbs)	(kg)
10-1	.35	(≈ 10)	.24	(≈ 0.35)
10-2	.42	(≈ 12)	.27	(≈ 0.40)
10-3	.49	(≈ 14)	.31	(≈ 0.46)
10-4	.56	(≈ 16)	.35	(≈ 0.52)

Material	igumid G
Permitted temperature	-40°/+266°F (-40°/+130°C)
Gliding speed max.	16.4 ft/s (5 m/s)
Unsupported V max.	32.8 ft/s (10 m/s)
Flammability class	VDE 0304 IIC UL94 HB

● Details of material properties

▶ Design, Chapter 1



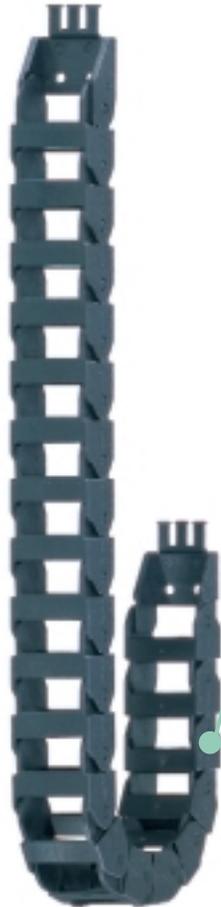
Price Index



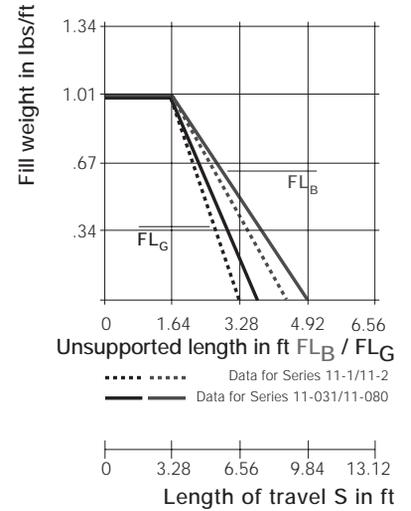
- 3 Inner Heights
- 4 Widths
- 8 Bending Radii



Mounting bracket with or without strain relief tiwrap plates

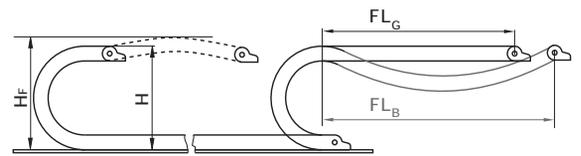


New version with larger pins and double stop dog for long service life and long unsupported length



Unsupported length

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



Product Range:

Inner widths (Bi) inches (mm):	.59 (15), .98 (25), 1.22 (31), 3.15 (80)
Bending Radii (R) inches (mm):	1.50 (38), 1.57 (40), 1.77 (45), 2.48 (63), 2.76 (70), 2.95 (75), 3.94 (100)
Pitch:	1.20 (30.5 mm)/link =
	10.06 links/ft (33 links/m)
	39.6 (1006.5 mm)



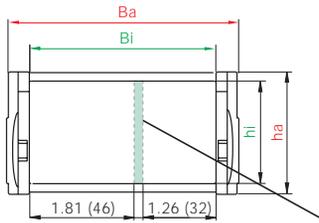
When to use the Series 11 E2 "mini":

- If space is restricted
- If many cables are arranged vertically and adjacent to one another



When not to use the Series 11 E2 "mini":

- If snap-open links are required
 - ▶ Series B17, Chapter 4
- If quick insertion of cables with pre-assembled connectors is required
 - ▶ Series "E-Z Chain", Chapter 2

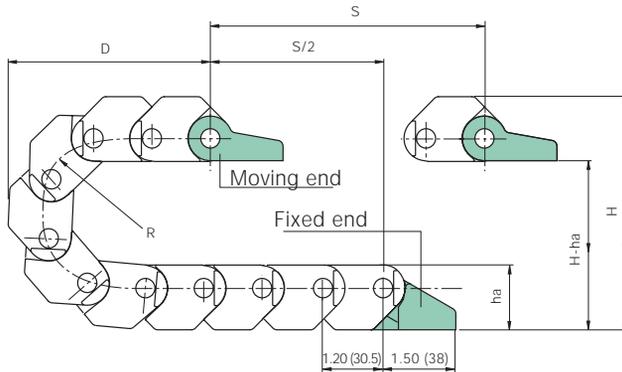


only 11-080

Part No.	Bi	Ba	hi	ha	Bending Radii for ALL Widths	
11-031	1.22 (31)	1.62 (41.2)	.91 (23)	1.10 (28)		1.50 (038)
11-080	3.15 (80)	3.66 (93)	1.10 (28)	1.31 (33.4)		1.77 (045) 2.76 (070)

Supplement Part No. with required radius
for example, 11-031-070-0

Installation Dimensions

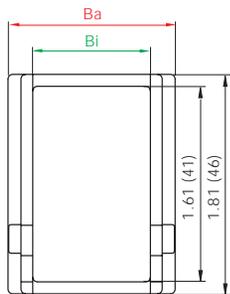


Series	11-080	11-031	
R	1.50 (038)	1.77 (045)	2.76 (070)
H*	4.69 (119)	4.92 (125)	6.89 (175)
D	3.62 (92)	4.92 (125)	4.72 (120)
K	7.28 (185)	8.46 (215)	12.01 (305)

*The required clearance height is $HF = H + .79 (20)$ with .34 lbs/ft (0.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

- Pitch: = 1.20 (30.5 mm) per link
- Links/ft (m): = 10.06 (33)
- Chain length: = $\frac{S}{2} + K$

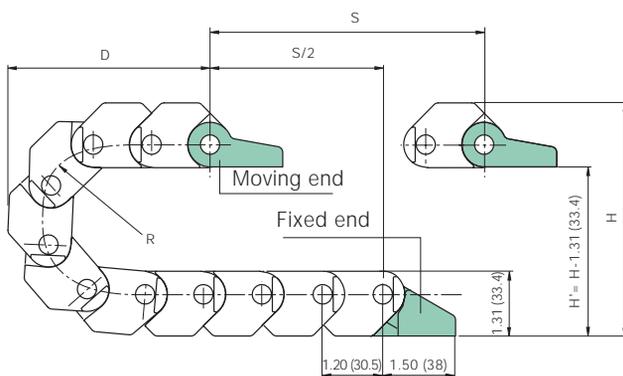
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Fax 1-401-438-7270



Part No.	Bi	Ba	Bending Radii for ALL Widths	
11-1	.59 (15)	1.00 (25.5)		1.57 (040)
11-2	.98 (25)	1.40 (35.5)		2.48 (063)
				2.95 (075) 3.94 (100)

Supplement Part No. with required radius
for example, 11-031-070-0

Installation Dimensions



R	1.57 (040)	2.48 (063)	2.95 (075)	3.94 (100)
H*	5.87 (149)	7.68 (195)	8.62 (219)	10.59 (269)
D	4.13 (105)	5.04 (128)	5.51 (140)	6.50 (165)
K	8.34 (212)	10.83 (275)	12.01 (305)	15.55 (395)

*The required clearance height is $HF = H + .98 (25)$ with .34 lbs/ft (0.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

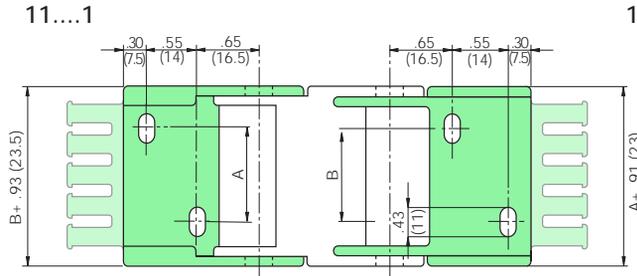
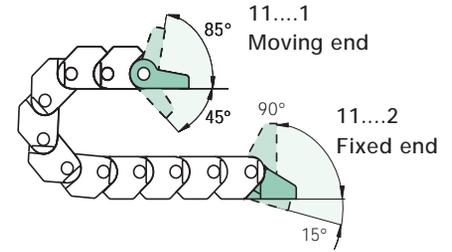
- Pitch: = 1.20 (30.5 mm) per link
- Links per ft (m): = 10.06 (33)



Mounting Brackets

Option 1: polymer, one-piece

- One-piece mounting bracket
- Corrosion resistant
- Available pre-assembled
- Flush mounting
- Inner and outer attachment possible



11-031-12P(Z) and 11-080-12P(Z)

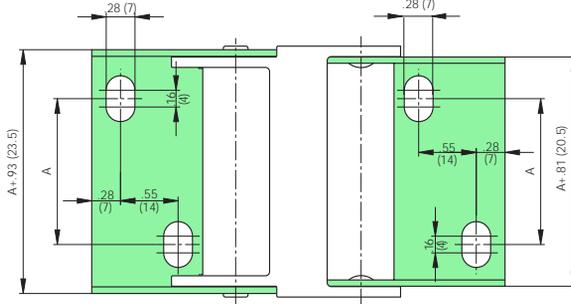
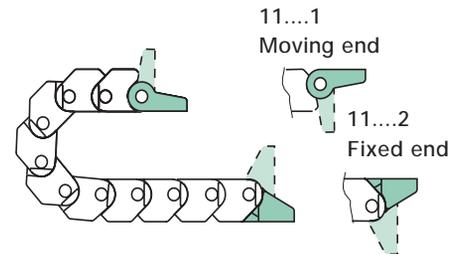
Chain Type	Part No. Full set with Tiewrap Plate	Part No. Mounting Bracket Set	Dimension A in. (mm)	Dimensions B in. (mm)
11-031	11-031-12PZ	11-031-12P	.63 (16)	1.65 (42)
11-080	11-080-12PZ	11-080-12P	2.56 (65)	3.70 (94)
11-1	101-12PZ	101-12P	(0)	1.00 (25.5)
11-2	102-12PZ	101-12P	.39 (10)	1.40 (35.5)

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

* A may be equal to B due to slot

Option 2: steel, one-piece (Chain type 11-1 and 11-2)

- One-piece mounting bracket
- Available pre-assembled
- Inner and outer attachment possible



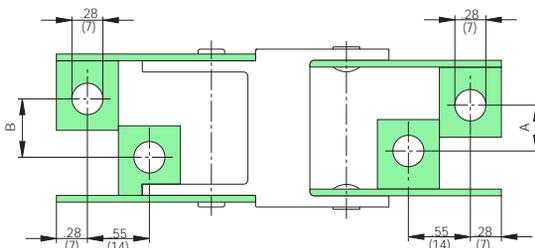
101-12 — 104-12

Chain Type	Part No. One-Piece Tiewrap Plate	Dimension A in. (mm)	Dimensions B in. (mm)
11-1	101-12	(0)	.12 (3)
11-2	102-12	.39 (10)	.51 (13)

*A may be equal to B due to slot

Option 3: steel, two-piece

- 1 set, suitable for all widths



100-12

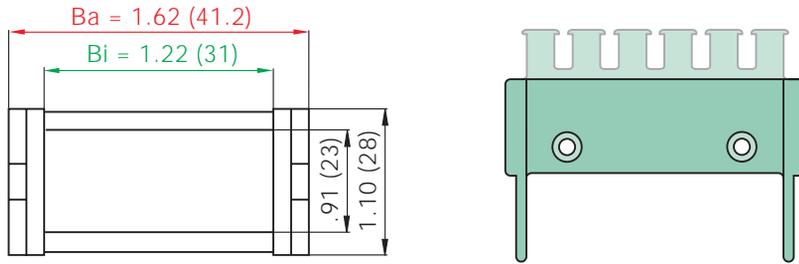
Chain Type	Part No. Two-Piece Tiewrap Plate	Dimension A in. (mm)	Dimensions B in. (mm)
11-1	100-12	(0)	.12 (3)
11-2	100-12	.39 (10)	.51 (13)

*A may be equal to B due to slot

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

Order example and Technical Data: Series 11 E2 "mini"

Order example



1. Chain selection:

11-031-070-0

- Chain type
- Width
- Radius
- Color

2. Mounting brackets:

11-031-12PZ

- Chain width
- Full set

For 16.4 ft (5 m) chain, color black, with mounting brackets and one separator:
16.4 ft (5 m) 11-031-070-0 and 11-031-12PZ

— 165 links — 10.06 links/ft (33 links/m)

Technical data

Chain Type	Weight Per Link		Weight Per Meter	
	(oz.)	(g)	(lbs)	(kg)
11-031	.46	(≈ 13)	.29	(≈ 0.43)
11-080	.77	(≈ 22)	.49	(≈ 0.73)
11-1	.53	(≈ 15)	.34	(≈ 0.50)
11-2	.56	(≈ 16)	.36	(≈ 0.53)

Material	igumid G
Permitted temperature	-40°/+266°F (-40°/+130°C)
Gliding speed max.	16.4 ft/s (5 m/s)
Unsupported V max.	32.8 ft/s (10 m/s)
Flammability class	VDE 0304 IIC UL94 HB



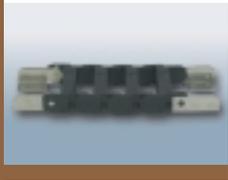
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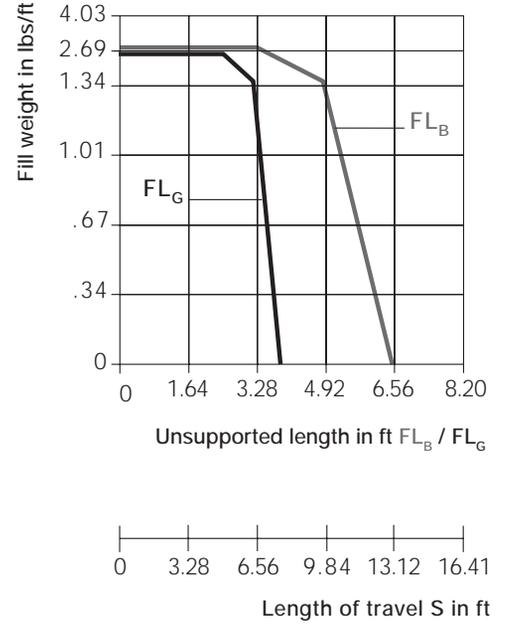
5 Widths
7 Bending Radii



2 options for mounting brackets

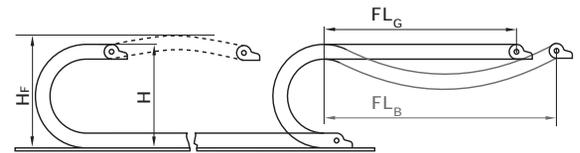


2 options for interior separation



Unsupported Length

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



Product Range

Inner Widths (Bi) inches (mm):	.43 (11), 1.50 (38), 2.24 (57), 3.03 (77), 4.06 (103)
Bending Radii (R) inches (mm):	2.16 (055), 2.95 (075), 3.94(100), 4.92 (125), 5.91 (150), 7.87 (200), 9.84 (250)
Pitch:	1.81 (46 mm)/link = 6.71 links/ft (22 links/m) 39.84 (1012 mm)



When to use the Series 20/25:

- If you are repairing or maintaining an existing system



When not to use the Series 20/25:

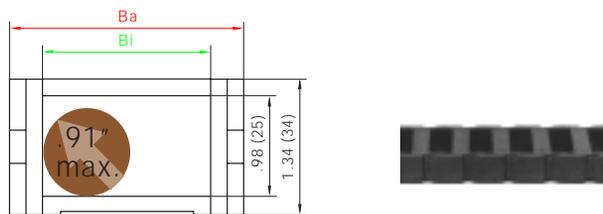
- If you are installing a new system
▶ Series 250, Chapter 4

Series 20/25 "E2 Medium"



20
25

Series 20 Energy Chain®



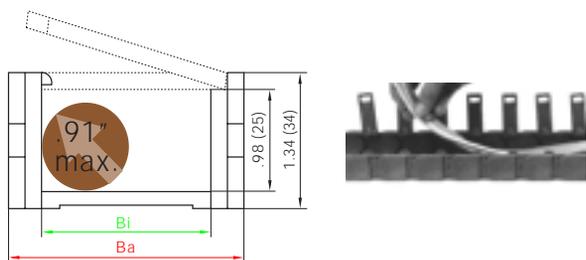
Part No.	Bi	Ba
20-1-	.43 (11)	1.06 (27)
20-2-	1.50 (38)	2.09 (53)
20-3-	2.24 (57)	2.83 (72)
20-4-	3.03 (77)	3.62 (92)
20-5-	4.06 (103)	4.65 (118)

Bending Radii
for ALL Widths

2.16 (055)
2.95 (075)
3.94 (100)
4.92 (125)
5.91 (150)
7.87 (200)
9.84 (250)

Supplement part number with required radius
for example, 20-2-100-0

Series 25 (snap-open along outer radius)



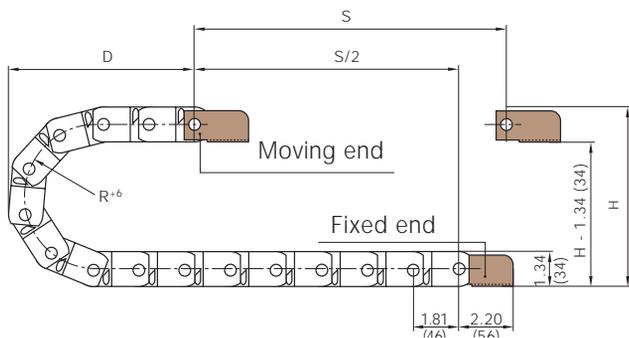
Part No.	Bi	Ba
25-2-	1.50 (38)	2.09 (53)
25-3-	2.24 (57)	2.83 (72)
25-4-	3.03 (77)	3.62 (92)
25-5-	4.06 (103)	4.65 (118)

Bending Radii
for ALL Widths

2.16 (055)
2.95 (075)
3.94 (100)
4.92 (125)
5.91 (150)
7.87 (200)
9.84 (250)

Supplement part number with required radius
for example, 25-2-100-0

Installation dimensions



Pitch: = 1.81 (46) per link
 Links per ft (m): = 6.71 (22)
 Chain length: = $\frac{L}{2} + K$

R	2.16 (55)	2.95 (75)	3.94 (100)	4.92 (125)
H*) ⁺⁴ ₀	5.71 (145)	7.28 (185)	9.25 (235)	11.22 (285)
D	4.92 (125)	5.91 (150)	6.69 (170)	7.68 (195)
K	10.87 (276)	13.62 (346)	16.29 (414)	18.74 (476)

R	5.91 (150)	7.87 (200)	9.84 (250)	
H*) ⁺⁴ ₀	13.19 (335)	17.13 (435)	21.06 (535)	
D	8.66 (220)	10.63 (270)	12.60 (320)	
K	23.54 (598)	28.98 (736)	36.22 (920)	

*The required clearance height is HF = H + .98 (25) with 1.01 lbs/ft (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Series
20/25

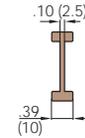
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Interior Separation

Option 1: vertical separators

Separators are the only option for compartmentalizing the interior of the non-snap-open chain (Series 20).

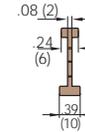
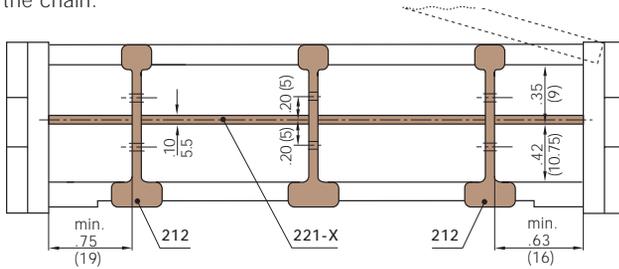


Vertical Separator

Unassembled	Part No. 201
Assembled	Part No. 211

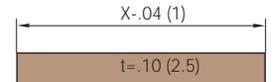
Option 2: full-width shelf

This possibility also exists for the snap-open chains 25-3, 25-4, and 25-5, of the Series 25. It is ideal for use in applications involving many thin cables with similar or identical diameters. This shelf slides into place and spans the entire width of the chain.



Vertical Separator, Slotted

Unassembled	Part No. 202
Assembled	Part No. 212

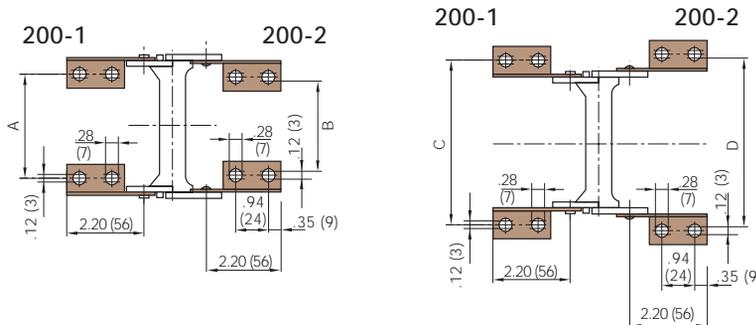


Width X in. (mm)	Part No. Unassembled	Part No. Assembled
2.24 (57)	220-57	221-57
3.03 (77)	220-77	221-77
4.06 (103)	220-103	221-103

Mounting Brackets

Option 1: steel, two piece

- One part for all chain widths
- Electrically conductive

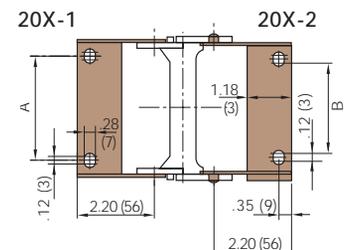


- 200-12 = Full set, 4 parts, 2 with pin, 2 with bore
- 200-1 = Mounting bracket with bore, 1 part left/right
- 200-2 = Mounting bracket with pin, 1 part left/right

Chain Type	Part No. Full Set	Dimension A		Dimension B		Dimension C		Dimension D	
		in.	mm	in.	mm	in.	mm	in.	mm
20-1	200-12	-	-	-	-	1.69	(43)	2.01	(51)
20/25-2	200-12	1.06	(27)	.87	(22)	2.80	(71)	3.11	(79)
20/25-3	200-12	1.77	(45)	1.61	(41)	3.50	(89)	3.82	(97)
20/25-4	200-12	2.60	(66)	2.40	(61)	4.29	(109)	4.61	(117)
20/25-5	200-12	3.62	(92)	3.43	(87)	5.31	(135)	5.63	(143)

Option 2: steel, one piece

- Good availability in pre-assembled form
- Electrically conductive



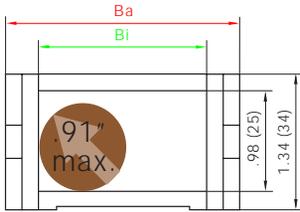
Chain Type	Part No. Full Set	Dimension A		Dimension B	
		in.	mm	in.	mm
20-1	-	-	-	-	-
20/25-2	202-12 (A=B)	1.06	(27)	.87	(22)
20/25-3	203-12 (A=B)	1.77	(45)	1.61	(41)
20/25-4	204-12 (A=B)	2.60	(66)	2.40	(61)
20/25-5	205-12 (A=B)	3.62	(92)	3.43	(87)

- 20X-12 = Full set, each with pin/bore
- 20X-1 = Mounting brackets with bore
- 20X-2 = Mounting bracket with pin
- X = Use width numbers 2, 3, 4, or 5

Order Example and Technical Data: Series 20/25 "E2 Medium"



Order example



1. Chain selection:

- 20-2-100-0
 - Color black
 - Radius
 - Width
 - Chain type

2. Mounting brackets:

- 202-12
 - Full set
 - Bracket Part No.

3. Interior Separation:

2 separators, assembled every other chain link (Part No. 211). Alternative interior separation configuration according to design layout possible.

For 6.56 ft (2 m) chain, color black with full set two piece mounting brackets:
6.56 ft (2 m) 20-2-100-0 and 202-12 and 2 Part No. 211, assembled every other link

- 44 links — 6.71 links/ft (22 links/m)

Series
20/25

Telephone 1-800-521-2747
Fax 1-401-438-7270



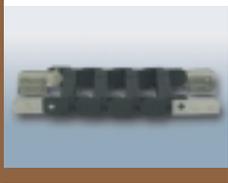
Price Index



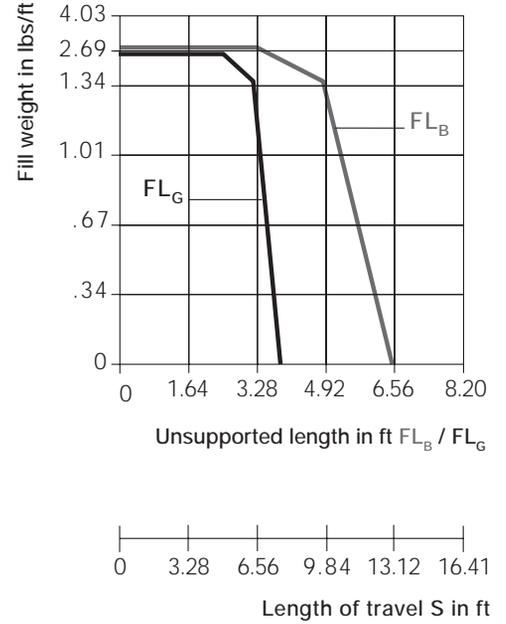
5 Widths
7 Bending Radii



2 options for mounting brackets

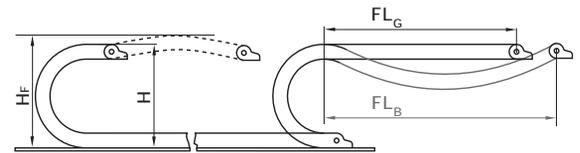


2 options for interior separation



Unsupported Length

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



Product Range

Inner Widths (Bi) inches (mm):	.43 (11), 1.50 (38), 2.24 (57), 3.03 (77), 4.06 (103)
Bending Radii (R) inches (mm):	2.16 (055), 2.95 (075), 3.94(100), 4.92 (125), 5.91 (150), 7.87 (200), 9.84 (250)
Pitch:	1.81 (46 mm)/link = 6.71 links/ft (22 links/m) 39.84 (1012 mm)



When to use the Series 20/25:

- If you are repairing or maintaining an existing system



When not to use the Series 20/25:

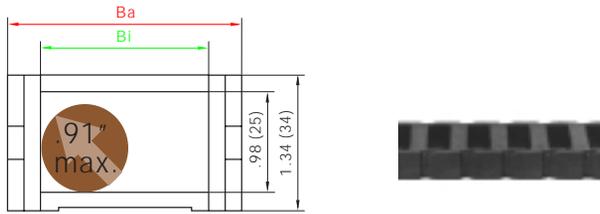
- If you are installing a new system
▶ Series 250, Chapter 4

Series 20/25 "E2 Medium"



20
25

Series 20 Energy Chain®



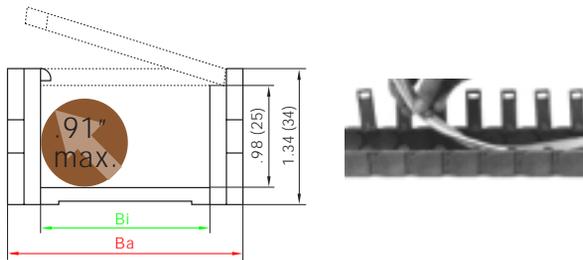
Part No.	Bi	Ba
20-1-	.43 (11)	1.06 (27)
20-2-	1.50 (38)	2.09 (53)
20-3-	2.24 (57)	2.83 (72)
20-4-	3.03 (77)	3.62 (92)
20-5-	4.06 (103)	4.65 (118)

Bending Radii
for ALL Widths

2.16 (055)
2.95 (075)
3.94 (100)
4.92 (125)
5.91 (150)
7.87 (200)
9.84 (250)

Supplement part number with required radius
for example, 20-2-100-0

Series 25 (snap-open along outer radius)



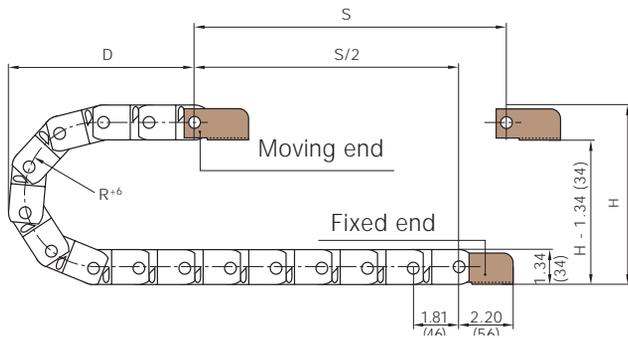
Part No.	Bi	Ba
25-2-	1.50 (38)	2.09 (53)
25-3-	2.24 (57)	2.83 (72)
25-4-	3.03 (77)	3.62 (92)
25-5-	4.06 (103)	4.65 (118)

Bending Radii
for ALL Widths

2.16 (055)
2.95 (075)
3.94 (100)
4.92 (125)
5.91 (150)
7.87 (200)
9.84 (250)

Supplement part number with required radius
for example, 25-2-100-0

Installation dimensions



Pitch: = 1.81 (46) per link
 Links per ft (m): = 6.71 (22)
 Chain length: = $\frac{L}{2} + K$

R	2.16 (55)	2.95 (75)	3.94 (100)	4.92 (125)
H*) ⁺⁴ ₀	5.71 (145)	7.28 (185)	9.25 (235)	11.22 (285)
D	4.92 (125)	5.91 (150)	6.69 (170)	7.68 (195)
K	10.87 (276)	13.62 (346)	16.29 (414)	18.74 (476)

R	5.91 (150)	7.87 (200)	9.84 (250)	
H*) ⁺⁴ ₀	13.19 (335)	17.13 (435)	21.06 (535)	
D	8.66 (220)	10.63 (270)	12.60 (320)	
K	23.54 (598)	28.98 (736)	36.22 (920)	

*The required clearance height is HF = H + .98 (25) with 1.01 lbs/ft (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Series
20/25

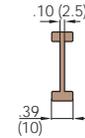
Telephone 1-800-521-2747
Fax 1-401-438-7270



Interior Separation

Option 1: vertical separators

Separators are the only option for compartmentalizing the interior of the non-snap-open chain (Series 20).

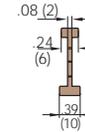
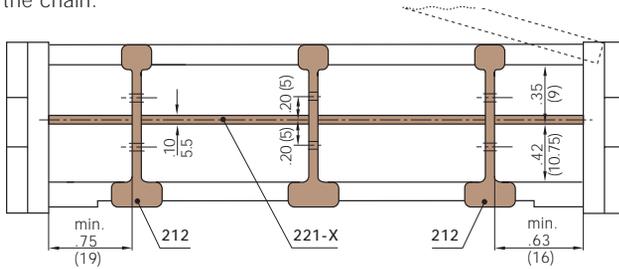


Vertical Separator

Unassembled	Part No. 201
Assembled	Part No. 211

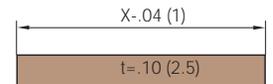
Option 2: full-width shelf

This possibility also exists for the snap-open chains 25-3, 25-4, and 25-5, of the Series 25. It is ideal for use in applications involving many thin cables with similar or identical diameters. This shelf slides into place and spans the entire width of the chain.



Vertical Separator, Slotted

Unassembled	Part No. 202
Assembled	Part No. 212

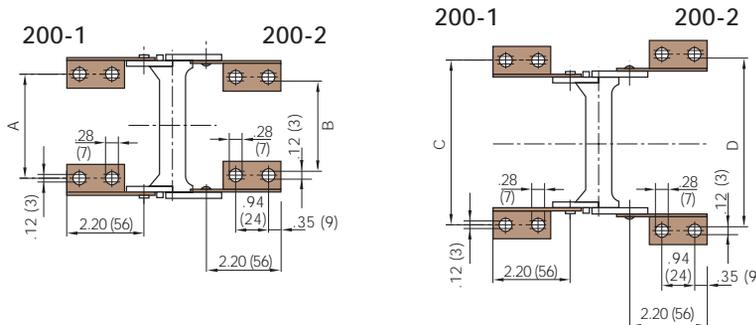
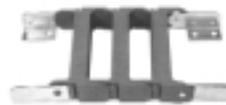


Width X in. (mm)	Part No. Unassembled	Part No. Assembled
2.24 (57)	220-57	221-57
3.03 (77)	220-77	221-77
4.06 (103)	220-103	221-103

Mounting Brackets

Option 1: steel, two piece

- One part for all chain widths
- Electrically conductive

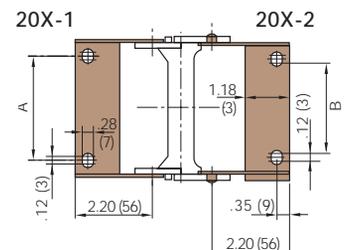


- 200-12 = Full set, 4 parts, 2 with pin, 2 with bore
- 200-1 = Mounting bracket with bore, 1 part left/right
- 200-2 = Mounting bracket with pin, 1 part left/right

Chain Type	Part No. Full Set	Dimension A		Dimension B		Dimension C		Dimension D	
		in.	mm	in.	mm	in.	mm	in.	mm
20-1	200-12	-	-	-	-	1.69	(43)	2.01	(51)
20/25-2	200-12	1.06	(27)	.87	(22)	2.80	(71)	3.11	(79)
20/25-3	200-12	1.77	(45)	1.61	(41)	3.50	(89)	3.82	(97)
20/25-4	200-12	2.60	(66)	2.40	(61)	4.29	(109)	4.61	(117)
20/25-5	200-12	3.62	(92)	3.43	(87)	5.31	(135)	5.63	(143)

Option 2: steel, one piece

- Good availability in pre-assembled form
- Electrically conductive



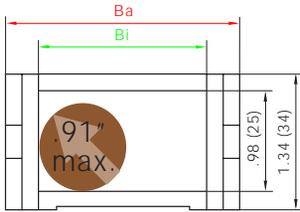
Chain Type	Part No. Full Set	Dimension A		Dimension B	
		in.	mm	in.	mm
20-1	-	-	-	-	-
20/25-2	202-12 (A=B)	1.06	(27)	.87	(22)
20/25-3	203-12 (A=B)	1.77	(45)	1.61	(41)
20/25-4	204-12 (A=B)	2.60	(66)	2.40	(61)
20/25-5	205-12 (A=B)	3.62	(92)	3.43	(87)

- 20X-12 = Full set, each with pin/bore
- 20X-1 = Mounting brackets with bore
- 20X-2 = Mounting bracket with pin
- X = Use width numbers 2, 3, 4, or 5

Order Example and Technical Data: Series 20/25 "E2 Medium"



Order example



1. Chain selection:

20-2-100-0

- Color black
- Radius
- Width
- Chain type

2. Mounting brackets:

202-12

- Full set
- Bracket Part No.

3. Interior Separation:

2 separators, assembled every other chain link (Part No. 211). Alternative interior separation configuration according to design layout possible.

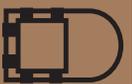
For 6.56 ft (2 m) chain, color black with full set two piece mounting brackets:

6.56 ft (2 m) 20-2-100-0 and 202-12 and 2 Part No. 211, assembled every other link

44 links — 6.71 links/ft (22 links/m)

Series
20/25

Telephone 1-800-521-2747
Fax 1-401-438-7270





Price Index



4 Widths
9 Bending Radii



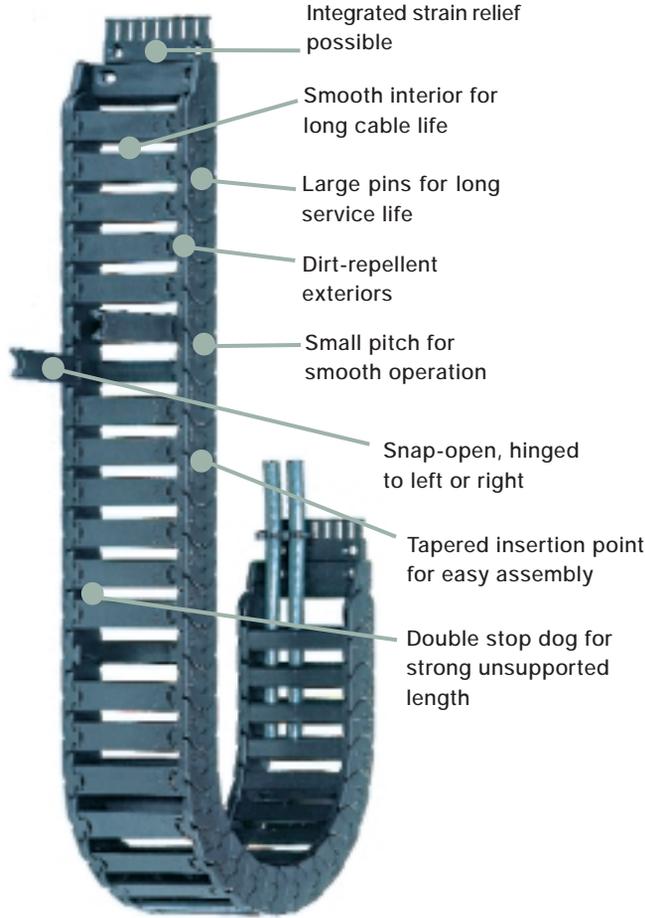
3 options for interior separation



2 options for mounting brackets



Various strain relief options



Product Range:

Inner Widths (Bi) inches (mm):	1.50 (38), 2.95 (75), 3.03 (77), 4.06 (103),
Bending Radii (R) inches (mm):	2.16 (55), 2.95 (75), 3.94 (100), 4.92 (125), 5.91 (150), 6.89 (175), 7.87 (200), 8.86 (225), 9.84 (250)
Pitch:	1.09 (27.8 mm)/link = 10.97 links/ft (36 links/m) 39.4 (1000.8 mm)



When to use the Series 255:

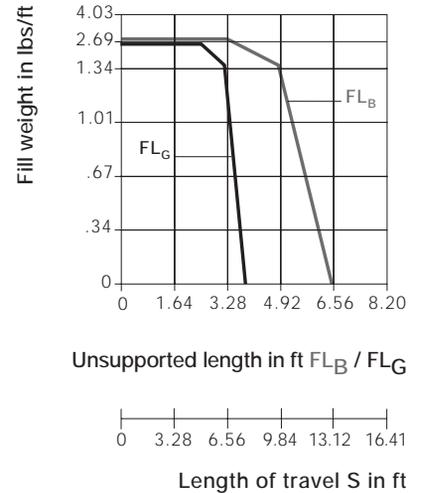
- If quieter operation at very high speeds is required
- If integrated strain relief is required at the connection point
- If modular interior separation is required
- If easy installation is required

- Accessories for
 - ▶ Guide Troughs, Chapter 9
- Further information
 - ▶ Design, Chapter 1



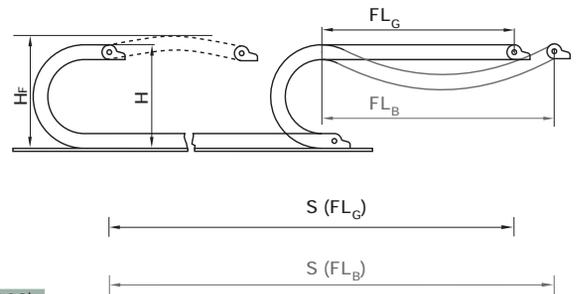
When not to use the Series 255:

- If each link requires snap-open accessibility on both sides
 - ▶ System E4, Series 220 etc., Chapter 6
- If maximum stability is required
 - ▶ System E4, Series 220 etc., Chapter 6
- If chip protection is required
 - ▶ Energy Tube E4, Series R760, Chapter 6
- If the application is very simple
 - ▶ E-Z Chain, Series E200, Chapter 2



Ununsupported length

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



Ununsupported Energy Chains® ▶ **Design, Chapter 1**, feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to **Installation dimensions** for further details.

If the ununsupported length is exceeded, the Energy Chain®/Tube must glide on itself. This requires a guide trough ▶ **Design, Chapter 1** or incorporation of igus® exclusive AUTO-GLIDE System guide elements, which are available for this chain series ▶ **AUTO-GLIDE System, Chapter 9**.

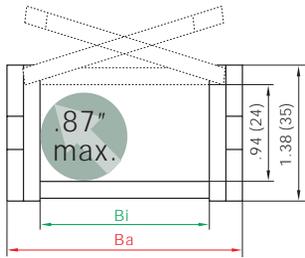
Other Installation Methods:

Vertical, hanging	= max 131 (40 m)
Vertical, standing	= max 9.84 (3 m)
Side-mounted, ununsupported	= max 3.28 (1 m)
Rotary	= requires further calculation

- Long travel Max: 328 ft (100 m)

Series 255 Energy Chain®

(snap-open along outer radius)



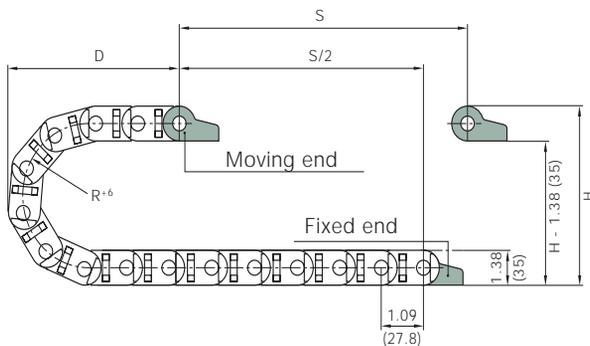
Part No.	Bi	Ba
255-03	1.50 (38)	2.13 (54.2)
255-05	2.24 (57)	2.88 (73.2)
255-07	3.03 (77)	3.67 (93.2)
255-10	4.06 (103)	4.69 (119.2)

Bending Radii for ALL Widths

- 2.17 (055)
- 2.95 (075)
- 3.94 (100)
- 4.92 (125)
- 5.91 (150)
- 6.89 (175)
- 7.87 (200)
- 8.86 (225)
- 9.84 (250)

Supplement part no. with required radius for example, 255-10-100-0

Installation Dimensions



R	1.10 (55)	2.95 (75)	3.94 (100)	4.92 (125)	5.91 (150)
H* ₀	5.71 (145)	7.28 (185)	9.25 (235)	11.22 (285)	13.19 (335)
D	4.25 (108)	5.24 (133)	6.02 (153)	7.01 (178)	7.99 (203)
K	9.53 (242)	12.28 (312)	14.96 (380)	18.18 (462)	21.42 (544)

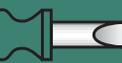
R	6.89 (175)	7.87 (200)	8.86 (225)	9.84 (250)
H* ₀	15.16 (385)	17.13 (435)	19.09 (485)	21.06 (535)
D	8.98 (228)	9.96 (253)	10.94 (278)	11.93 (303)
K	24.65 (626)	27.87 (708)	30.71 (780)	34.88 (886)

- Pitch: = 1.09 (27.8 mm) per link
- Links per ft (m): = 10.97 (36)
- Chain length: = $\frac{S}{2} + K$

*The required clearance height is HF = H + .98 (25) with 1.01 lbs/ft (1.5 kg/m) fill weight. Please consult igus® if space is particularly restricted.

Series 255

Telephone 1-800-521-2747
1-401-438-7270
Fax



Page 4.65

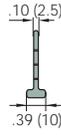
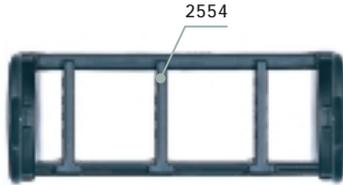


Chapter 9

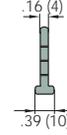
Interior Separation

Option 1: vertical separators

The slotted separators from options 2 and 3 can also be used for vertical interior separation only. Determining which type of separator to use is dependent on any potential retrofit requirements.



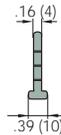
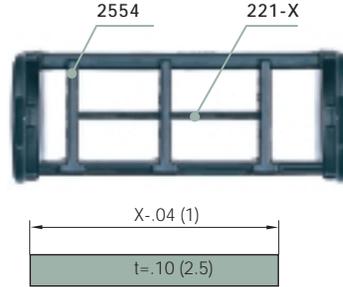
Vertical Separator, Slotted
Unassembled Part No. 2551
Assembled Part No. 2552



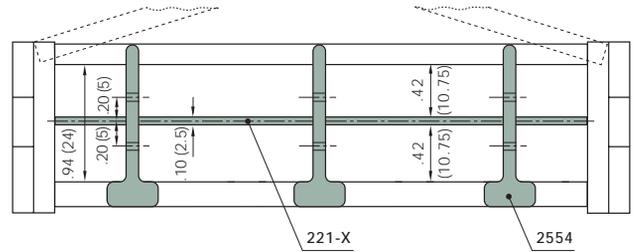
Vertical Separator, Slotted
Unassembled Part No. 2553
Assembled Part No. 2554

Option 2: full-width shelf

This option is ideal for applications involving many thin cables with similar or identical diameters. This shelf slides into place and spans the entire width of the chain. Separators can be adjusted horizontally for placement anywhere along the shelf.



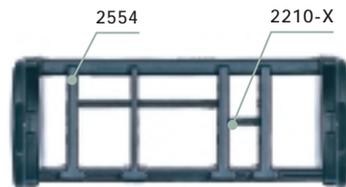
Side Plates
Unassembled Part No. 2553
Assembled Part No. 2554



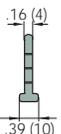
Width X in. (mm)	Part No.	
	Unassembled	Assembled
1.50 (38)	220-38	221-38
2.24 (57)	220-57	221-57
3.03 (77)	220-77	221-77
4.06 (103)	220-103	221-103

Option 3: shelves

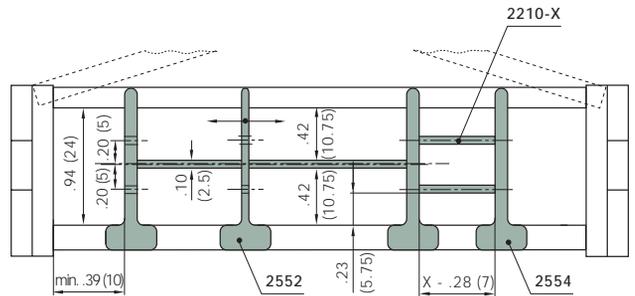
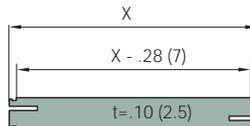
This option is most often used with applications involving many cables with different diameters. It allows for variable compartment heights and widths across the chain width, but can also be used for level separation across the entire width. Option 3 shelves can be combined with Option 1 separators. Slotted separators can also be used as adjustable vertical separators without shelves.



Vertical Separator
Unassembled Part No. 2551
Assembled Part No. 2552



Vertical Separator
Unassembled Part No. 2553
Assembled Part No. 2554

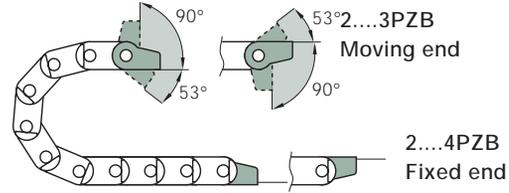


Width X in. (mm)	Part No.	
	Unassembled	Assembled
.71 (18)	2200-18	2210-18
.91 (23)	2200-23	2210-23
1.10 (28)	2200-28	2210-28
1.30 (33)	2200-33	2210-33
1.50 (38)	2200-38	2210-38
1.69 (43)	2200-43	2210-43
1.89 (48)	2200-48	2210-48
2.28 (58)	2200-58	2210-58
2.68 (68)	2200-68	2210-68
2.87 (73)	2200-73	2210-73
3.46 (88)	2200-88	2210-88

Mounting Brackets

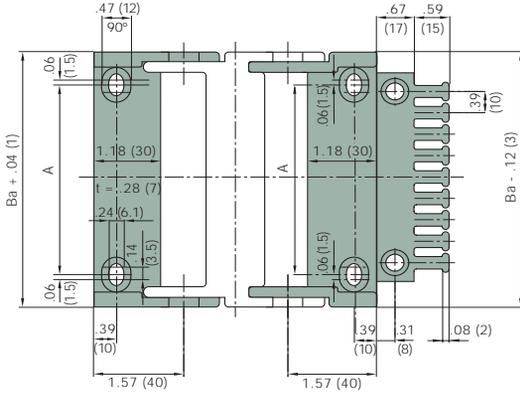
Option 1: pivoting

- Pivoting
- Short and long travels
- Space-restricted conditions
- Corrosion-resistant



2...3PZB

2...4PZB

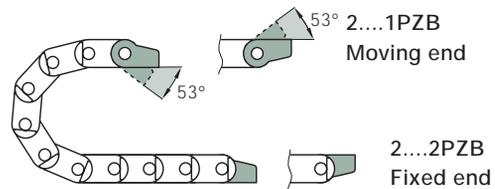


Chain Type	Part No. Full Set with Tiewrap Plates	Part No. Set with Tiewrap Plates and 10 Cable Tiewraps	Part No. Mounting Bracket Set	Dimension A in. (mm)
255-03	2035-34PZB	2035-34PZBK1	2035-34PZ	.98 (25)
255-05	2055-34PZB	2055-34PZBK1	2055-34PZ	1.73 (44)
255-07	2075-34PZB	2075-34PZBK1	2075-34PZ	2.52 (64)
255-10	2105-34PZB	2105-34PZBK1	2105-34PZ	3.54 (90)

2...34 PZB = Full set, each part with pin/bore, including tiewrap plates
 2...3 PZB = Mounting bracket with bore, including tiewrap plates
 2...4 PZB = Mounting bracket with pin, including tiewrap plates

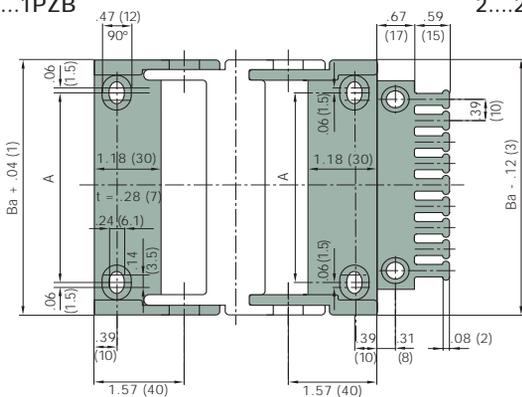
Option 2: locking

- Locked connections
- Vertical hanging/standing travels
- Extreme accelerations
- Corrosion-resistant



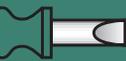
2...1PZB

2...2PZB



Chain Type	Part No. Full Set with Tiewrap Plates	Part No. Set with Tiewrap Plates and 10 Cable Tiewraps	Part No. Mounting Bracket Set	Dimension A in. (mm)
255-03	2035-12PZB	2035-12PZBK1	2035-12PZ	.98 (25)
255-05	2055-12PZB	2055-12PZBK1	2055-12PZ	1.73 (44)
255-07	2075-12PZB	2075-12PZBK1	2075-12PZ	2.52 (64)
255-10	2105-12PZB	2105-12PZBK1	2105-12PZ	3.54 (90)

2...12 PZB = Full set, each part with pin/bore, including tiewrap plates
 2...1 PZB = Mounting bracket with bore, including tiewrap plates
 2...2 PZB = Mounting bracket with pin, including tiewrap plates

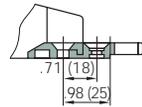
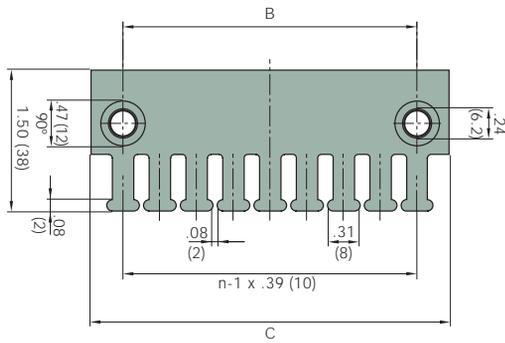


Strain Relief for Polymer Mounting Brackets (pivoting or locking)

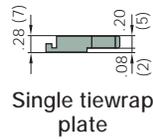
The strain relief plates can be snapped directly onto the mounting bracket without additional hardware. When the mounting brackets are bolted into place, the strain relief plates are also firmly connected to the machine surface. No separate installation is necessary. Cable tierraps secure cables using the "teeth" of the tierrap plate for time-saving, effective strain relief.



Tierrap plate as an individual part



Shown assembled



Tierrap Plates	n Number of Teeth	C Overall Width	B Distance Between Bore Holes
2030-ZB	4	1.57 (40)	.79 (20)
2040-ZB	5	1.97 (50)	1.18 (30)
2050-ZB	6	2.36 (60)	1.57 (40)
2070-ZB	8	3.15 (80)	2.36 (60)
2090-ZB	9	3.54 (90)	2.76 (70)
2100-ZB	10	3.94 (100)	3.15 (80)
2120-ZB	12	4.72 (120)	3.94 (100)

Cable tierraps as individual parts

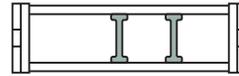
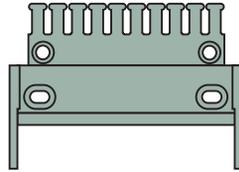
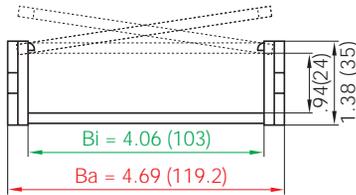
Cable tierraps 100 pieces/bag	Width x Length		Maximum Ø		Tensile Strength	
	in.	(mm)	in.	(mm)	lbs	(N)
CFB-001	.19 x 5.91	(4.8 x 150)	1.42	(36)	50	(222)

- Other strain relief elements
- ▶ Strain Relief, Chapter 10

Order Example and Technical Data: Series 255 E2 "medium"

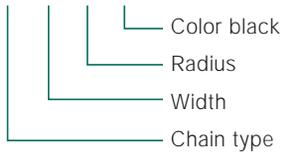
Order example

255-10...



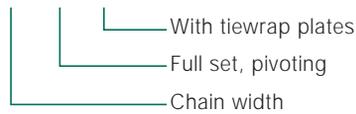
1. Chain selection:

255-10-100-0



2. Mounting brackets:

2100-34PZB



3. Interior separation:

2 separators unassembled (Part No. 2553), or assembled every other link (Part No. 2554). Alternative interior separation configuration according to design layout possible.

4. Additional information on guide troughs ► Page 4.65

For 16.4 ft (5 m) chain, color black, with pivoting mounting brackets:
16.4 ft (5 m) 255-10-100-0 and 2100-34PZB



Technical data

Chain Type	Weight Per Link		Weight Per Meter	
	(oz.)	(g)	(lbs)	(kg)
255-03	.081	(0.037)	.54	(0.81)
255-05	.090	(0.041)	.60	(0.90)
255-07	.101	(0.046)	.68	(1.01)
255-10	.128	(0.058)	.77	(1.15)

Material	igumid G
Permitted temperature	-40°/+266°F (-40°/+130°C)
Gliding speed max.	16.4 ft/s (5 m/s)
Unsupported V max.	32.8 ft/s (10 m/s)
Flammability class	VDE 0304 IIC UL94 1HB

● Details of material properties

► Design, Chapter 1

Series 255

Telephone 1-800-521-2747
Fax 1-401-438-7270



► Page 4.65



► Chapter 9