

easy chain®

Easy to fill and cost-effective



Advantages of the easy chain® series:

- Easy filling without opening and closing the lids
- If quiet running is required
- If a light and cost-effective e-chain® is required
- For high accelerations



When to use another e-chain® series:

- For applications with large unsupported lengths
 - ▶ E2/000, page 374
- If secure closing of the crossbars is required
 - ▶ E2/000, page 374
- If openable crossbars are not necessary
 - ▶ E2 micro, page 334
- Version Z is not suitable for gliding applications
 - ▶ zipper, page 240



easy to fill and
cost-effective -
easy chain®

st-effective, easy to fill e-chains® are available in two versions. In the "E" version the cable is simply installed from the outside, and in the "Z" version from the inside. The primary reason to choose easy chains® is to save space when fitting cables. The material, igumid® E, presents more application opportunities due to its flexibility, UL94-V2 classification and excellent cleanroom qualities. The one-piece design keeps the easy chain® very cost-effective.

typical industries and applications

Cleanroom applications ● Electronics machines ● Office furniture ● Vending machines ● Packaging machines ● General machinery, etc.



Qualification Certificate - Report IG 0308-295:

Class 2, according to DIN EN ISO 14644-1
easy chain®, series E14.3.038 at v = 1.0m/s



Electrically conductive
ESD e-chains® upon request



With easy chain® rotary and
torsional motions are possible



42 dB(A) - value determined at the igus® test-lab,
v = 1.0m/s unsupported, series E06.10.038.0



UL94-V2 classification

to ship in 24 - 48hrs.*

checked.

igus.eu/best/easychain



Chamber design	Series	Inner height hi [mm]	Inner width Bi [mm]	Outer width Ba [mm]	Outer height ha [mm]	Bend radius R [mm]	Unsupported length s [m]	Page
easy chain® - version "E" "easy" design - split crossbar along the outer radius								
1-chamber	E03	5	5 - 10	8.7 - 13.7	8	010 - 028	0.40	218
	E04	7	7	13	10	015 - 048	0.55	220
	E045	9.4	10 - 16	16 - 23	12.5	018 - 038	0.40	222
	E06	10.7	10 - 20	16.5 - 26.5	15	018 - 038	0.55	224
	E065	11.3	16	24.8	15	018 - 038	0.60	226
	E08	14.6	10 - 50	18.2 - 58.2	19.3	028 - 048	1.00	228
2-chamber	E14	19	15 - 50	27 - 62	25	028 - 125	0.65	230
	E200	24.3	57	74.4	35	055 - 200	1.75	232
	E16	32	23 - 100	37.5 - 115.3	39	040 - 125	1.00	234
	E26	36.5	75	92	50	063 - 250	2.00	236
	E300	48.5	75	95	64	075 - 300	2.25	238
	E045.2	9.4	7 - 9	23 - 27	12.5	018 - 038	0.40	222
3-chamber	E065.2	11.3	9	29.3	15	018 - 038	0.60	226
	E200.2	24.3	37 - 50	94.4 - 120.4	35	055 - 200	1.75	232
	E26.2	37.1	48	117	50	063 - 250	2.00	236
	E300.2	48.5	48	120	64	075 - 300	2.25	238
	E045.3	9.4	9	37	12.5	018 - 038	0.40	222
	E065.3	11.3	9	39.3	15	018 - 038	0.60	226
4-chamber	E26.3	37.1	47	167	50	063 - 250	2.00	236
	E300.3	48.5	47	170	64	075 - 300	2.25	238
	E065.4	11.3	9	49.3	15	018 - 038	0.60	226
easy chain® - version "Z" "easy" design - split crossbar along the inner radius								
1-chamber	Z045	9.4	16	23	12.5	018 - 038	0.40	222
	Z06	10.5	10 - 20	16.5 - 26.5	15	018 - 038	0.55	224
	Z08	14.7	10 - 50	18.2 - 58.2	19.3	028 - 048	1.00	228
	Z14	19	15 - 50	27 - 62	25	028 - 125	0.65	230
	Z200	24.3	57	74.4	35	055 - 200	1.75	232
	Z16	32	23 - 100	37.5 - 115.3	39	040 - 125	1.00	234
2-chamber	Z26	36.5	75	92	50	063 - 250	2.00	236
	Z300	48.5	75	95	64	075 - 300	2.25	238
	Z045.2	9.4	16	23	12.5	018 - 038	0.40	222
	Z200.2	24.3	37 - 50	94.4 - 120.4	35	055 - 200	1.75	232
	Z26.2	37.1	48	117	50	063 - 250	2.00	236
	Z300.2	48.5	48	120	64	075 - 300	2.25	238
3-chamber	Z065.3	11.3	9	39.3	15	018 - 038	0.60	226
	Z26.3	37.1	47	167	50	063 - 250	2.00	236
	Z300.3	48.5	47	170	64	075 - 300	2.25	238

Options with order keys | Examples based on series E200

	Standard Part No. Standard NC version - (No Camber) without pretension	Part No. NC version NC 	Part No. RBR 	Part No. igumid ESD 	E200.05.R.0 E200.05.R.0.NC E200.05.R.1/R2.0 E200.05.R.0.ESD
	Ready to ship in 24 - 48hrs.*	Ready to ship in 12 business days*	Ready to ship in 12 business days* 	Delivery time upon request	From page 130

 **RBR** version - some radii available from stock - further information and the complete product range ► From page 130

*Average time before the ordered goods are dispatched.

Order example | Order key and colour examples | Examples based on series E200

Order example for complete e-chain® (1.0m),
colour black, with mounting brackets and inter-

e-chain® (1.0m)	Please indicate e-chain® length or number of links: 1.0m or 22 links	E200.05.100.0
+ Mounting brackets	1 set (with tiewrap plates)	2050.34PZB
Order text:	1 m E200.05.100.0 + 2050.34PZB	

Order key

Order index for colour options	
Colour	Order index
Black	.0
Orange	.2
Silver-grey	.31
Yellow	.4
White	.1
Light grey	.14
Grey-white	.1S

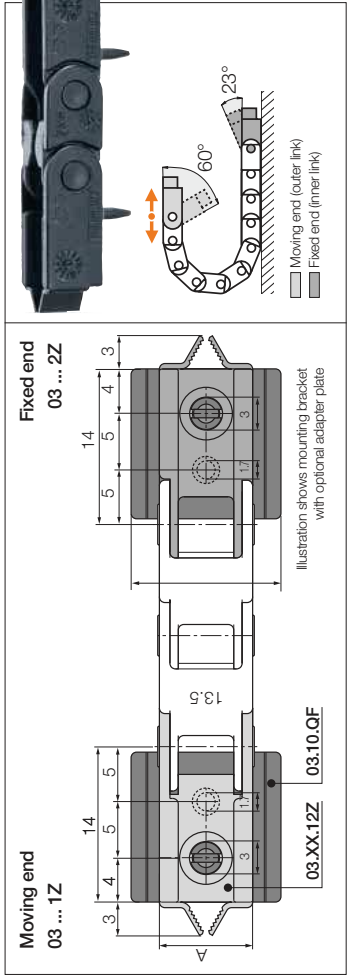
Black e-chains® ready to ship in 24 - 48hrs.*

Above special colours upon request.



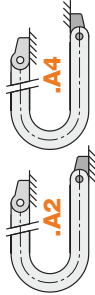
r along the outer radius

nd radii	Weight [kg/m]
15 018 028	≈ 0.03
15 018 028	≈ 0.04
15 018 028	≈ 0.05



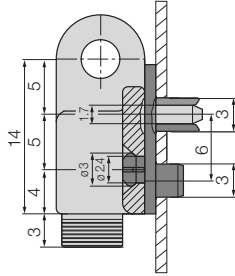
Width index	Part No. full set	A [mm]
05. ▲	03.05.12Z	8.4
07. ▲	03.07.12Z	10.4
10. ▲	03.10.12Z	13.4

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB



Possible variations for assembled mounting brackets. To receive brackets **pre-fitted** please add index **.A2** or **.A4**.

03.05.12Z.A2 Order example
▲ to indicate option with brackets pre-fitted
Full set
Series



Adapter plate for rapid installation for all sizes, Part No. 03.10.QF

The adapter has scored lines so that it can be adapted to the respective e-chain® width. The adapter plate is not always necessary when attaching the mounting brackets as they can also be screwed on without the adapter plate.

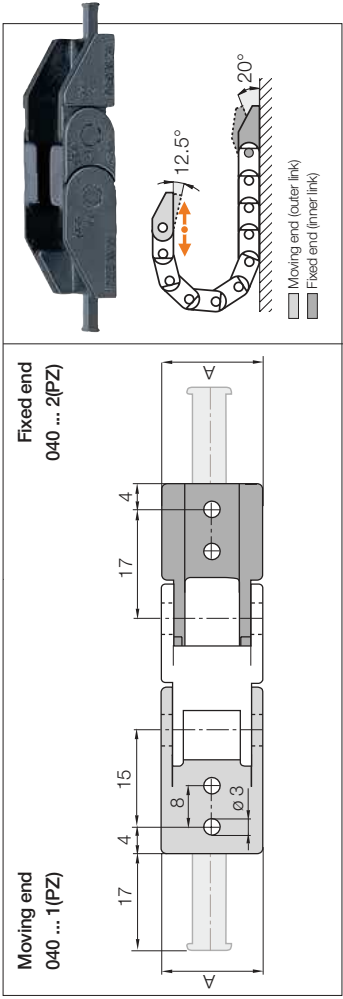


Optional adapter plate



r along the outer radius

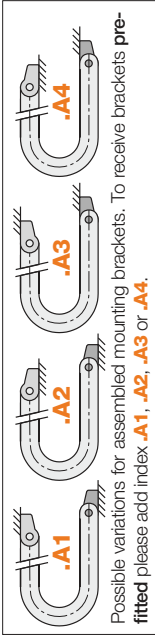
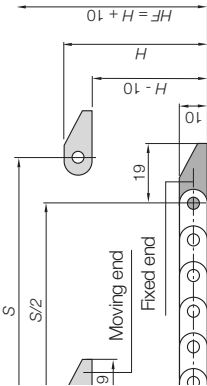
nd radii	Weight [kg/m]
28 038 048	≈ 0.08



Width index	Part No. full set with tiwrap plates*	Part No. full set without tiwrap plates	A [mm]	Number of teeth
.07. ▲	040.07.12PZ	040.07.12	12	1

*040.07.12PZ only installation versions A2 and A4
Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB
Mounting bracket with strain relief tiwrap plate has reductions of ø 3mm
Mounting bracket without strain relief tiwrap plate only has holes of ø 3mm

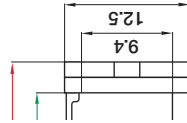
Inner height [mm]	7
Pitch [mm/link]	16.7
Links/m	60
corresponds to [mm]	1,002
e-chain® length	$L_K = S/2 + K$



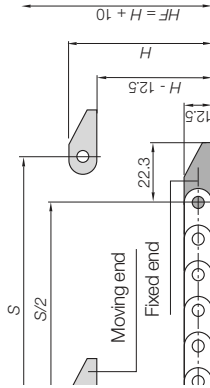


ar along the outer radius
ar along the inner radius

Available bend radii	Weight
η	[kg/m]
18 028 038	≈ 0.09
18 028 038	≈ 0.11
18 028 038	≈ 0.13
18 028 038	≈ 0.14
18 028 038	≈ 0.17



Inner height [mm]	9.4
Pitch [mm/link]	13
Links/m	77
corresponds to [mm]	1,001
e-chain® length	$L_K = S_L + K$

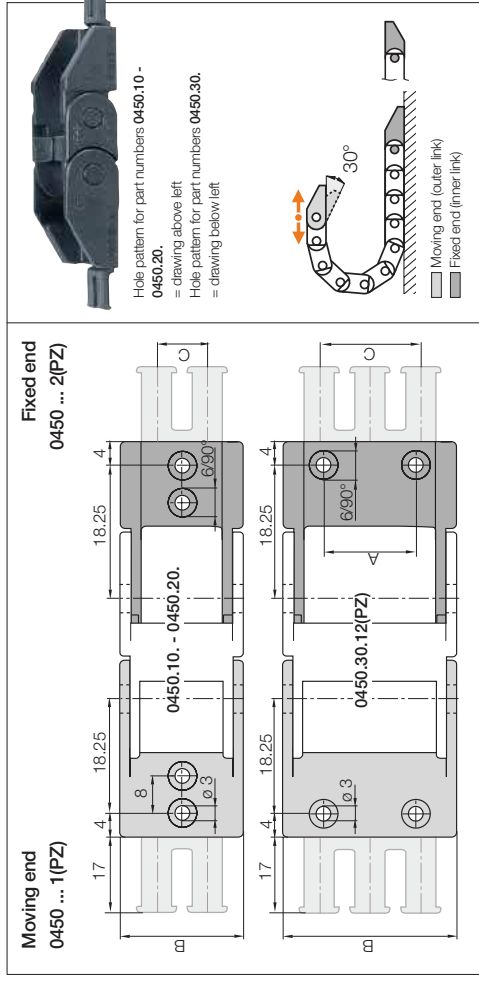


J/Z045



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Width index	 Part No. full set with tiwrap plates	Part No. full set without tiwrap plates	A [mm]	B [mm]	C [mm]	Number of teeth
10.	▲ 0450.10.12PZ	0450.10.12	—	16	—	1
16.	▲ 0450.16.12PZ	0450.16.12	—	22	10	2
27.	▲ 0450.16.12PZ	0450.16.12	—	22	10	2
29.	▲ 0450.20.12PZ	0450.20.12	—	26	10	2
39.	▲ 0450.30.12PZ	0450.30.12	22	36	20	3

Material mounting bracket - iumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB

Mounting bracket with strain relief tie-wrap plate has reductions of ϕ 3mm / ϕ 6mm 90°

Mounting bracket without strain relief tiewrap plate only has holes of ϕ 3mm



Possible variations for assembled mounting brackets. To receive brackets **pre-fitted** please add index **A2** or **A4**.



0450.10.12PZ.A2 Order example

A... to indicate option with brackets pre-fitted

Full set

Series

Telefon: +420 416 711 333

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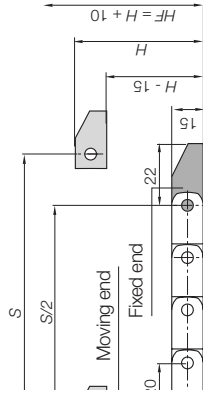
www.hennlich.cz/lin-tech



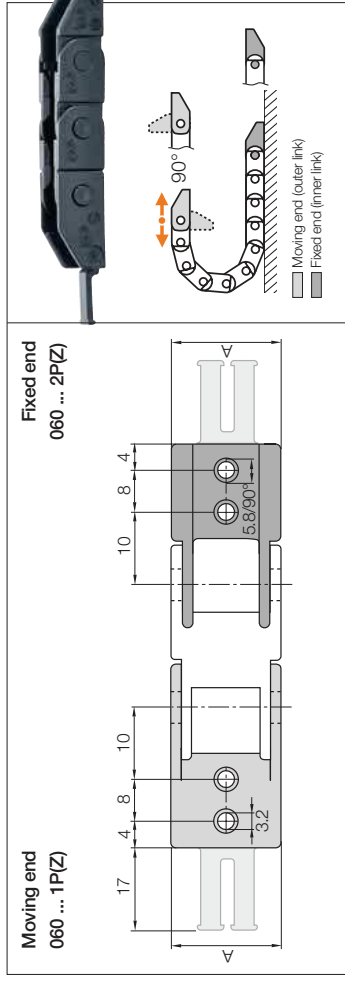
r along the outer radius
r along the inner radius

nd radii	Weight
	[kg/m]
38	≈ 0.14
38	≈ 0.16
38	≈ 0.18
0.018, 0.53	

	E06	Z06	Pitch	Links/m	e-chain® length	$L_K = S/2 + K$
Inner height [mm]	10.7	10.5	20	50	1,000	
Inner height [mm]						
Pitch [mm/link]						
Links/m						
corresponds to [mm]						
e-chain® length						
$L_K = S/2 + K$						



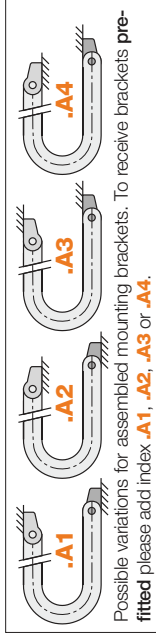
90Z



Width index	 Part No. full set with tiwrap plates	Part No. full set without tiwrap plates	A [mm]	Number of teeth
10. ▲	060.10.12PZ	060.10.12	16.5	1
16. ▲	060.16.12PZ	060.16.12	22.5	2
20. ▲	060.20.12PZ	060.20.12	27.0	2

Material mounting bracket : igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB



060.10.12PZ.A1

Order example

A... to indicate option with brackets pre-fitted

With integrated strain relief newrap plates

Full set

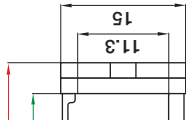
Series



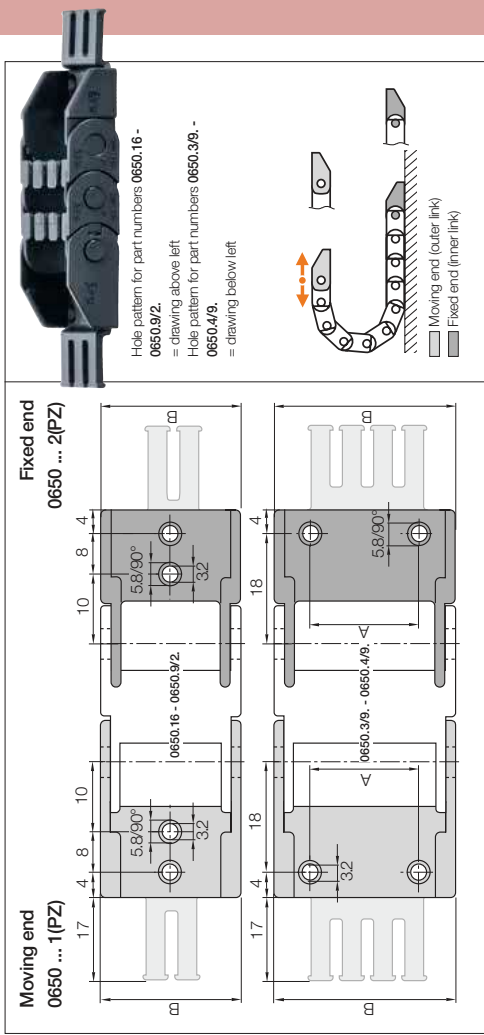
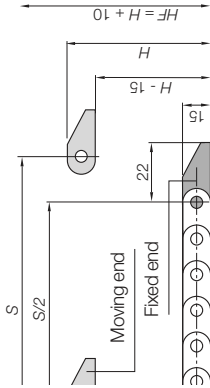
ar along the outer radius
ar along the inner radius

Weight	
[kg/m]	
18 028 038	≈ 0.17
18 028 038	≈ 0.19

18 028 038	≈ 0.22
18 028 038	≈ 0.25

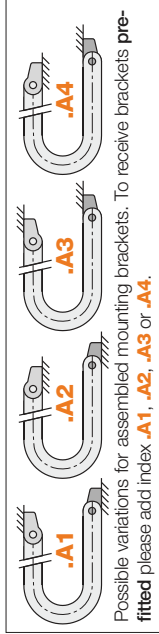


Inner height [mm]	11.3
Pitch [mm/link]	15
Links/m	67
corresponds to [mm]	1,005
e-chain® length	$L_K = s/2 + K$



Width index	Part No. full set with tiwrap plates	Part No. full set without tiwrap plates	A [mm]	B [mm]	Number of teeth
16. ▲	0650.16.12PZ	0650.16.12	—	22.5	2
2/9. ▲	0650.2/9.12PZ	0650.2/9.12	—	27	2
3/9. ▲	0650.3/9.12PZ	0650.3/9.12	22	37	3
4/9. ▲	0650.4/9.12PZ	0650.4/9.12	32	47	4

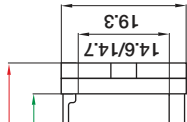
Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB



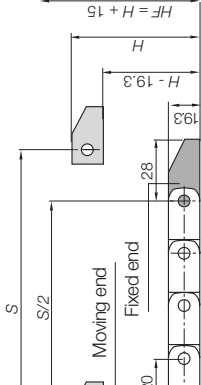


r along the outer radius
r along the inner radius

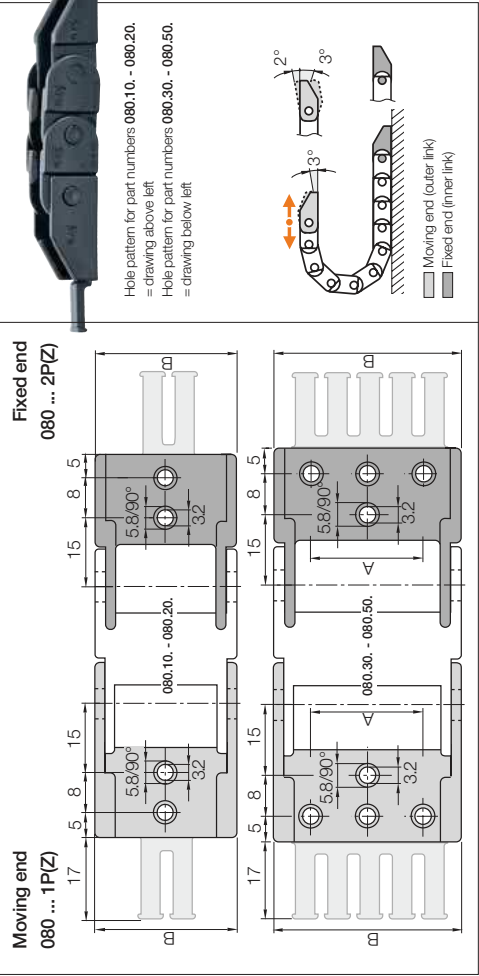
nd radii	Weight [kg/m]
48	≈ 0.21
48	≈ 0.24
48	≈ 0.25
48	≈ 0.28
48	≈ 0.31
48	≈ 0.37



E08 Inner height [mm]	14.6
Z08 Inner height [mm]	14.7
Pitch [mm/link]	20
Links/m	50
corresponds to [mm]	1,000
e-chain® length	$L_k = S/2 + K$

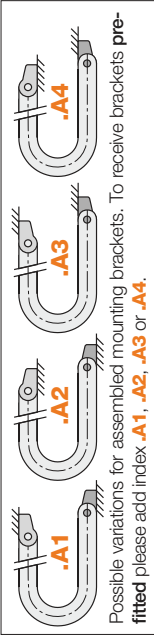


Z08



Width index	Part No. full set with tiwrap plates	Part No. full set without tiwrap plates	A [mm]	B [mm]	Number of teeth
10. ▲	080.10.12PZ	080.10.12	—	18.2	1
16. ▲	080.16.12PZ	080.16.12	—	24.2	2
20. ▲	080.20.12PZ	080.20.12	—	28.2	2
30. ▲	080.30.12PZ	080.30.12	22	38.2	3
40. ▲	080.40.12PZ	080.40.12	32	48.2	4
50. ▲	080.50.12PZ	080.50.12	42	58.2	5

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB



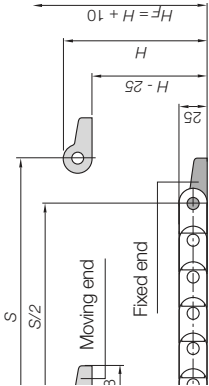


r along the outer radius
r along the inner radius

nd radii	Weight			
	[kg/m]			
48 075 100 125	≈ 0.31			
48 075 100 125	≈ 0.32			
48 075 100 125	≈ 0.40			
48 075 100 125	≈ 0.44			

je 130

Inner height [mm]	19
Pitch [mm/link]	30.5
Links/m	33
corresponds to [mm]	1,006.5
e-chain® length	$L_K = \frac{s}{2} + K$

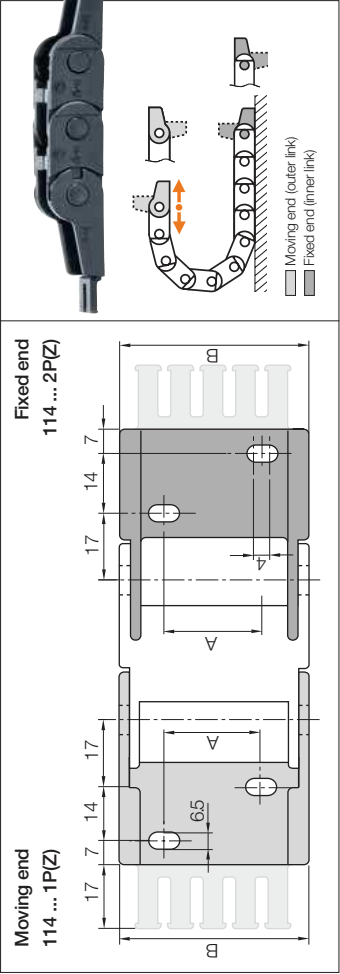


Z14



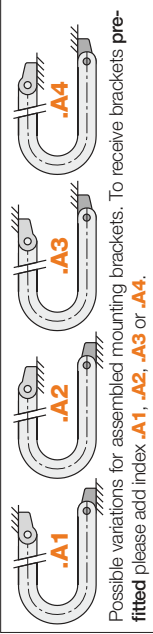
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Width index	Part No. full set with tiwrap plates	Part No. full set without tiwrap plates	A [mm]	B [mm]	Number of teeth
1. ►	114.1.12PZ	114.1.12P	–	26.3	2
2. ►	114.2.12PZ	114.2.12P	10	36.3	3
3. ►	114.3.12PZ	114.3.12P	23	49.3	4
4. ►	114.4.12PZ	114.4.12P	35	61.3	5

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB



Rotating energy supply systems with Reverse Bend Radius (RBR) - some radii available from stock

- Maximum rotation angle in minimal installation space
- Minimal friction forces and maximum service life
- Short delivery times, from stock

More information and the complete product range ► From page 130

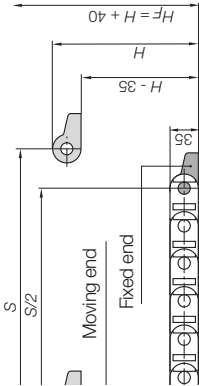


ar along the outer radius
ar along the inner radius

Available bend radii		Weight	
r _b		[kg/m]	
55	075 100 150 200	200	≈ 0.70

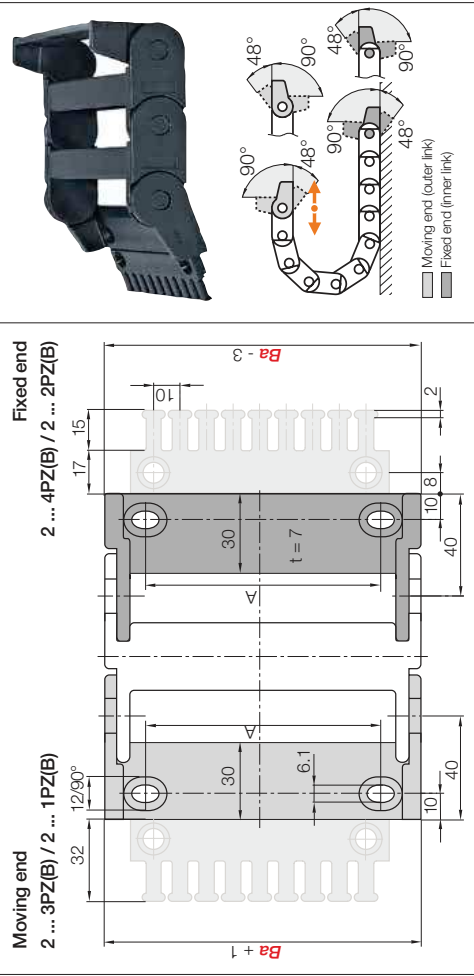
55	075 100 150 200	200	≈ 0.79
55	075 100 150 200	200	≈ 0.82

Inner height [mm]	24.3
Pitch [mm/link]	46
Links/m	22
corresponds to [mm]	1,012
e-chain® length	$L_K = s/2 + K$



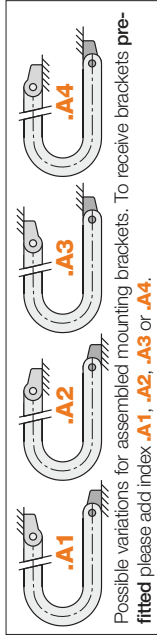
1/Z200

igus



Width index	Part No. full set pivoting	Part No. full set locking	A [mm]	Number of teeth
05. ▲	with tiewrap plates	without tiewrap plates		
2/35. ▲	2050.34PZB	2050.12PZB	44	6
2/50. ▲	2070.34PZB	2070.12PZB	64	8
	2100.34PZB	2100.12PZB	90	10

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC U194-HB
Full set with tiewrap plate + 10 cable tiewraps, please add index K1. Example: 2050.34PZB<K1



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ► From page 1392

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r along the outer radius
r along the inner radius

nd radii	Weight [kg/m]	
75 100	—	≈ 0.51
75 100 125	—	≈ 0.57
75 100	—	≈ 0.62
75 100	—	≈ 0.75
75 100	—	≈ 0.83
75 100 125	—	≈ 0.91

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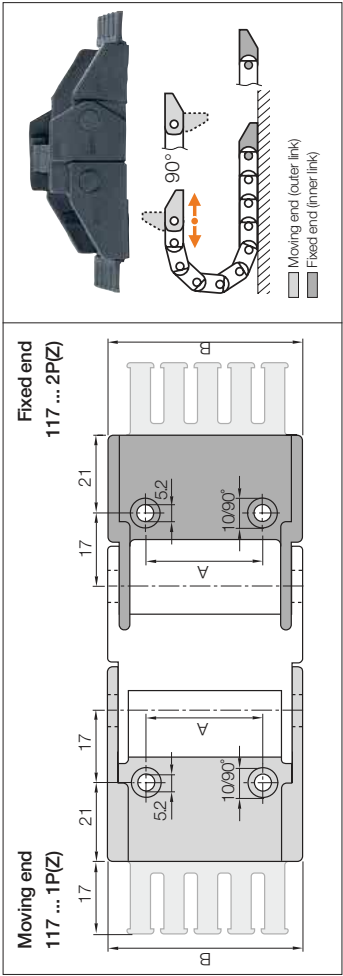
www.hennlich.cz/lin-tech

Z16



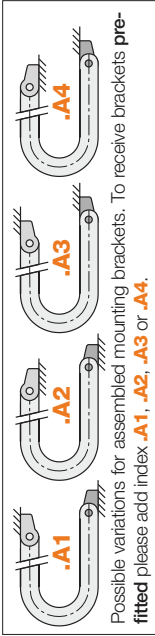
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Width index	Part No. full set with tiwrap plates	Part No. full set without tiwrap plates	A [mm]	B [mm]	Number of teeth
2. ▲	117.2.12PZ	117.2.12P	12	35.5	3
3. ▲	117.3.12PZ	117.3.12P	25	48.5	4
4. ▲	117.4.12PZ	117.4.12P	37	60.5	5
5. ▲	117.5.12PZ	117.5.12P	48	76.0	6
6. ▲	117.6.12PZ	117.6.12P	65	93.0	8
7. ▲	117.7.12PZ	117.7.12P	85	113.0	10

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB





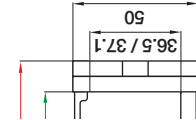
2 + 3 chamber design
Inner height: 37.1



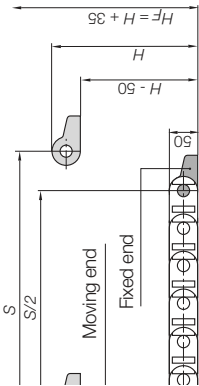
r along the outer radius
r along the inner radius

available bend radii	Weight [kg/m]
3 075 100 125 150 175 200 250	≈ 0.96

3 075 100 125 150 175 200 250	≈ 1.14
3 075 100 125 150 175 200 250	≈ 1.30



Inner height [mm]	
1-chamber	36.5
2 & 3-chamber	37.1
Pitch [mm/link]	56
Links/m	18
corresponds to [mm]	1,008
e-chain® length	$L_K = s/2 + K$

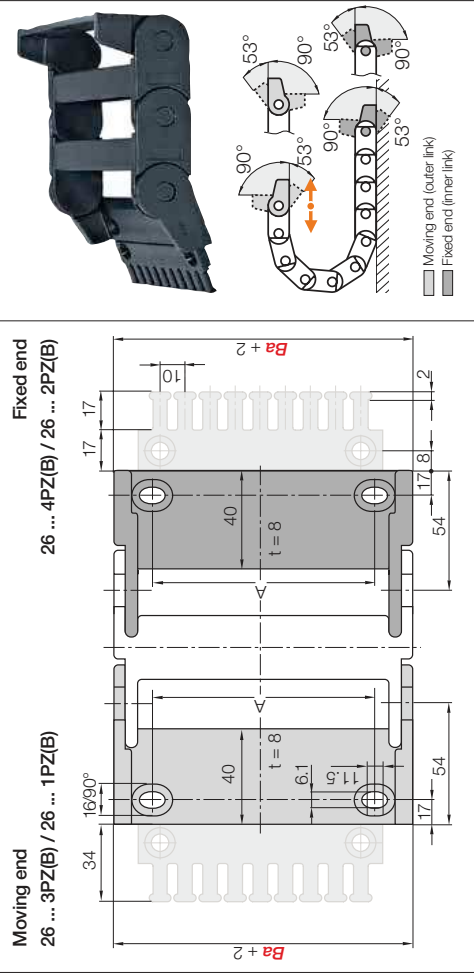


200	250
450	550
309	359
745	900

726



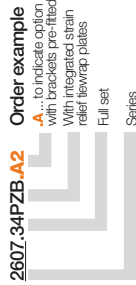
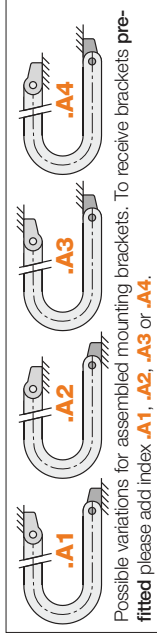
1392



Width index	Part No. full set pivoting	Part No. full set locking	A [mm]	Number of teeth
07. ▲	with tiewrap plates	without tiewrap plate	without tiewrap plate	
	2607.34PZB	2607.34PZ	2607.12PZB	55
2/45. ▲	2610.34PZB	2610.34PZ	2610.12PZB	80
3/45. ▲	2615.34PZB	2615.34PZ	2615.12PZB	130

Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB

Full set with tiewrap plate + 10 cable tiewraps, please add index K1. Example: 2607.34PZB<K1



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

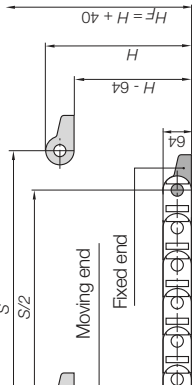


ar along the outer radius
ar along the inner radius

available bend radii	Weight [kg/m]
5 100 125 150 200 250 300	≈ 1,60

5 100 125 150 200 250 300	≈ 1,78
5 100 125 150 200 250 300	≈ 1,92

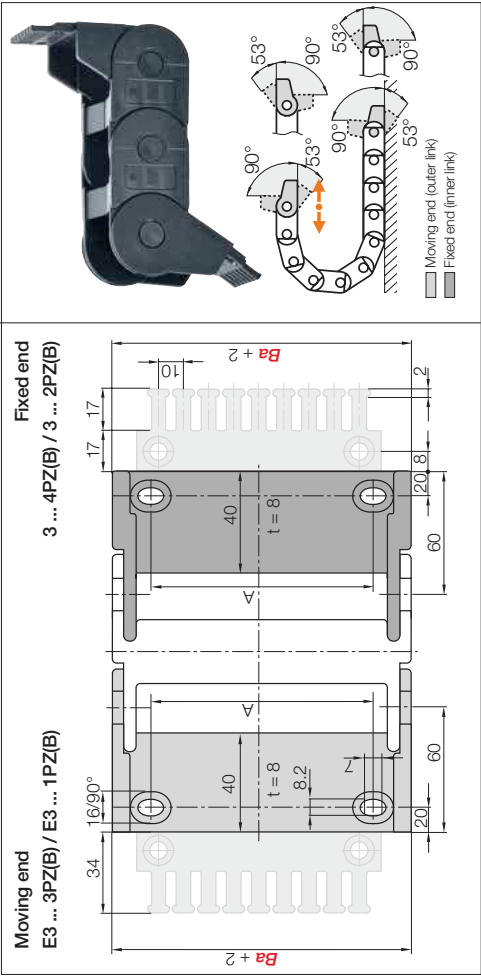
Inner height [mm]	48.5
Pitch [mm/link]	67
Links/m	15
corresponds to [mm]	1,005
e-chain® length	$L_K = \frac{S}{2} + K$



300
664
433
1,080

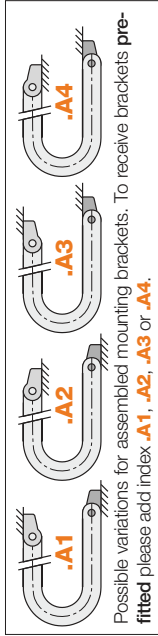
1/Z300

igus



Width index	Part No. full set pivoting	Part No. full set locking	A [mm]	Number of teeth
075, ▲	with tiewrap plates	without tiewrap plates		
2/45, ▲	E3075.34PZB	E3075.12PZB	53	7
3/45, ▲	E3100.34PZB	E3100.12PZB	78	10
	E3150.34PZB	E3150.12PZB	128	15

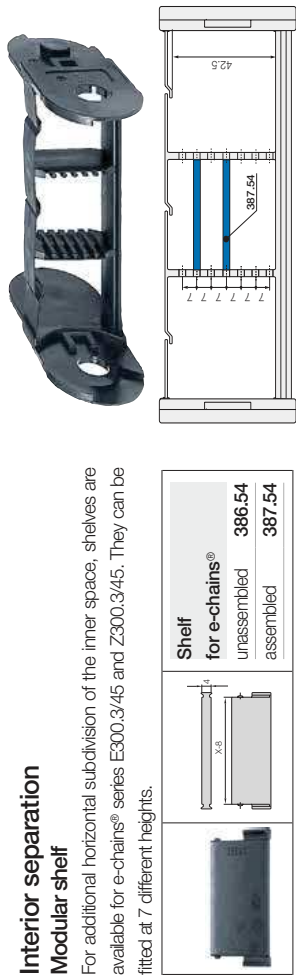
Material mounting bracket - igumid G, temperature: -40° up to +120°C, VDE 0304 IIC UL94-HB
Full set with tiewrap plate + 10 cable tiewraps, please add index K1. Example: E3075.34PZBK1



Strain relief e.g. clamps, tiewrap plates, nuggets and clips are available from stock. The complete chainfix range with ordering options ▶ From page 1392

Interior separation Modular shelf

For additional horizontal subdivision of the inner space, shelves are available for e-chains® series E300.3/45 and Z300.3/45. They can be fitted at 7 different heights.



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