e-chain system® E2 Micro Series 03

Price Index



Special Features / Options



IPA Qualification Certificate: Cleanroom test upon request



ESD Classification: Electrically conductive ESD/ ATEX version upon request

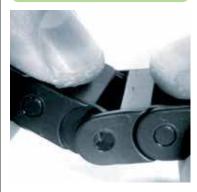


Smallest inner height .20" (5 mm)



Flammability Class VDE 0304 IIC UL94 V2

Assembly Tips



Easy to assemble and disassemble

Features & Benefits

- 1 Mounting bracket with integrated strain relief
- 2 One-piece, non snap-open e-chain®
- 3 Very lightweight low price
- 4 igus® smallest e-chain® interior dimensions .20" x .20" (5 x 5 mm)
- 5 Dirt-repellant exterior
- 6 Available as E-Z style e-chain, See Chapter 2
- 7 Patented push-button design for better stability



Usage Guidelines



- If quieter operation is required
- If cost is a factor
- If snap-open links are not necessary



- If snap-open links are required
 - ➤ Series 047 "Zipper"
- If quick insertion of cables with preassembled connector is required
 - ➤ Series E03 E-Z Chain

Order Example: Complete e-chain®

Please indicate chain length or number of links. Example:

3.28 ft (1 m) 03-05-028-0

1 Set **03-05-12Z**



e-chain®



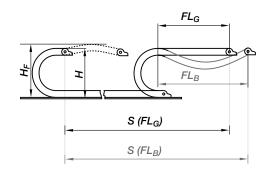
Mounting Bracket

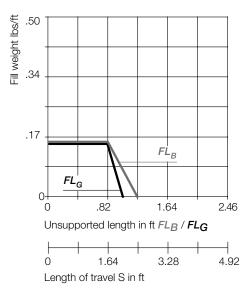
PDF: igus.com/e-chain-pdfs Product information: igus.com/e-chains

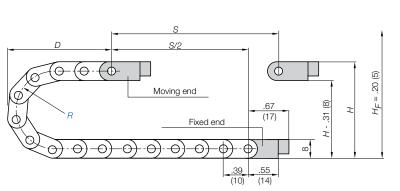
e-chain system® E2 Micro Series 03 Installation Dimensions

Short travel, unsupported length

- FL_B = unsupported with permitted sag
- FL_G = unsupported with straight upper run
 Further information ➤ Design, Chapter 1







Pitch per link: = .39" (10 mm) Links per ft (m): = 30.47 (100) For center mount applications: Chain length = $_{_}^{s}/_{2}$ + K

Short Travels - Unsupported



Unsupported e-chains® feature positive camber

over short travels. This must be accounted for when specifying the clearance height. Please refer to Installation dimensions for further details.

Legend

S = Length of travel

R = Bending radius

H = Nominal clearance height

D = Overlength e-chain® radius in final position

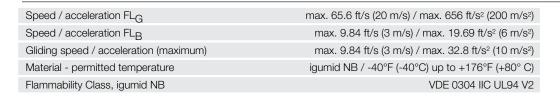
 $= \pi \bullet R + safety buffer$

HF = Required clearance height

*If the mounting bracket location is set lower

The required clearance height: $H_F = H + .20$ in. (5 mm) (with .067 lbs/ft (0.1 kg/m) fill weight. Please consult igus® if space is particularly restricted.

R	.39 (010)	.47 (012)	.59 (015)	.71 (018)	1.10 (028)
Н	1.10 (28)	1.26 (32)	1.50 (38)	1.73 (44)	2.52 (64)
D	1.14 (29)	1.22 (31)	1.34 (34)	1.46 (37)	1.85 (47)
K	2.17 (55)	2.36 (60)	2.76 (70)	3.15 (80)	4.33 (110)



Technical Data







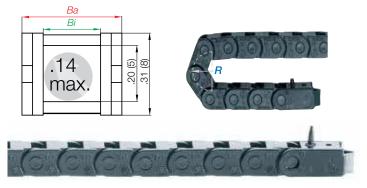
Details of material properties

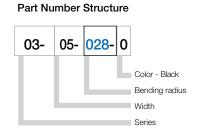
e-chain system®

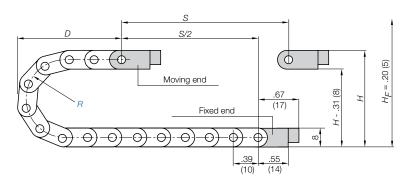


e-chain system® E2 Micro Series 03

Series 03 - e-chain® non snap-open







Supplement part number with required radius. Example: $03-05 - \boxed{028} - 0$ Pitch: .39 in. (10 mm) per link links/ft (m) = 30.47 (100)

Part N	lumber		<i>Bi</i> in. (mm)	<i>Ba</i> in. (mm)	Weight lbs/ft (kg/m)
03-05	-	-0	.20 (5)		.34 (8.7)	≈ 0.027 (0.04)
03-07	-	-0	.28 (7)		.42 (10.7)	≈ 0.034 (0.05)
03-10	-	-0	.39 (10)		.54 (13.7)	≈ 0.040 (0.06)
			Choo	ose from the	radii below fo	or all of the above sizes
		Radius (mm)		i <mark>us</mark> (mm) I	Example: 03-0	5- 028 -0
	010	012	015	018	028	
_					020	
R	.39 (010)	.47 (012)	.59 (015)	.71 (018)	1.10 (028)	
Н	.39 (010) 1.10 (28)	. 47 (012) 1.26 (32)	. 59 (015) 1.50 (38)	. 71 (018) 1.73 (44)		
	• ,	` '	• ,	` ′	1.10 (028)	

0=Standard color black. For other colors see Chapter 1

e-chain system® E2 Micro Series 03 Mounting Brackets





Polymer, one-piece

- One-piece mounting bracket
- Corrosion resistant
- Available preassembled
- Rapid installation through adaptor plate

03 ...1Z

Fixed end

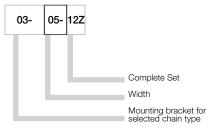
03...2Z

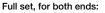
Moving end





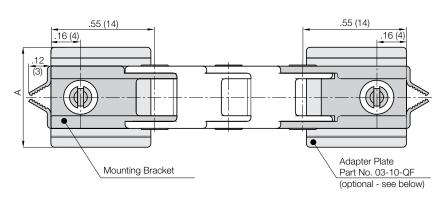
Part Number Structure





03- 05- 12Z Full set, each part with pin/bore Single-part order:

03- 05- 1Z Mounting bracket with bore
03- 05- 2Z Mounting bracket with pin



Chain	Part No. Full Set	Dimension A		
Width		in. (mm)		
-05	03-05-12Z	.34 (8.7)		
-07	03-07-12Z	.42 (10.7)		
-10	03-10-12Z	.54 (13.7)		

Additional Accessories



03-10-QF = Adapter plate for all sizes

The adapter has broken edges, so that it can be adapted to the respective chain width. It is not absolutely necessary for attaching the mounting brackets. The mounting brackets can also be screwed on without the adapter plate.

