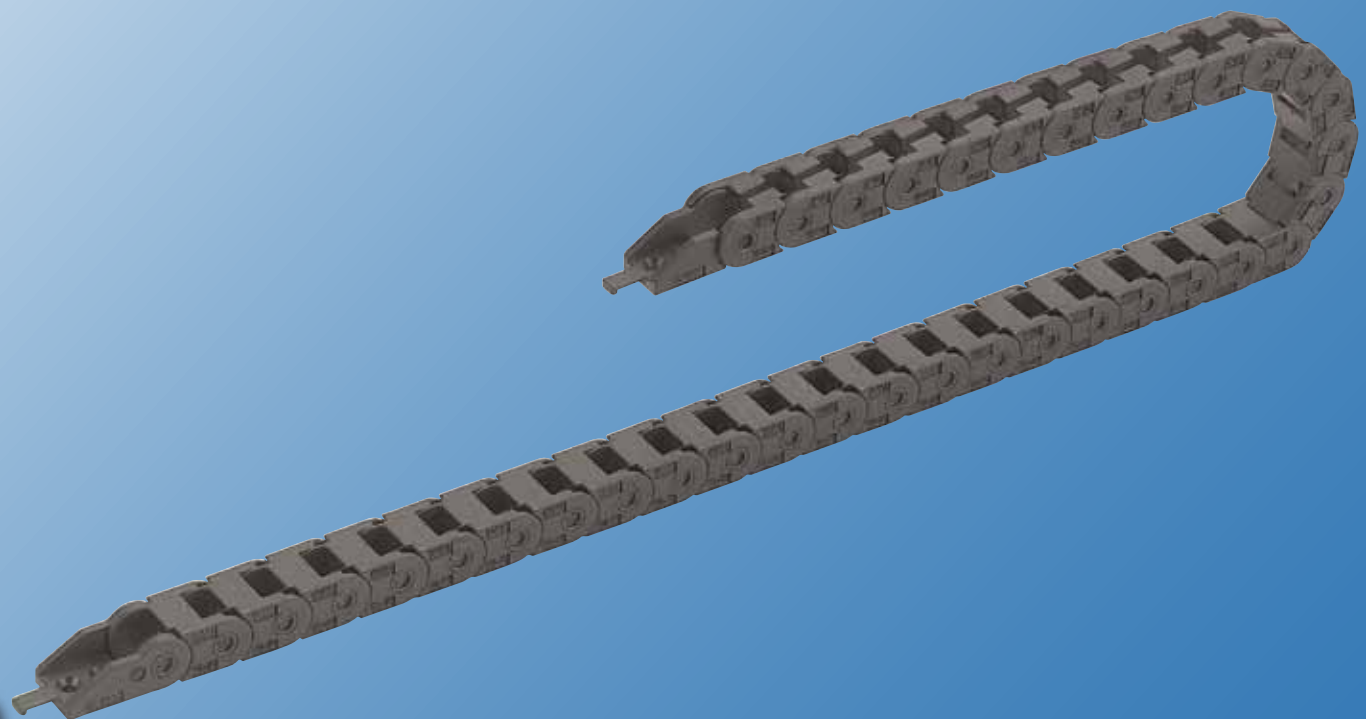
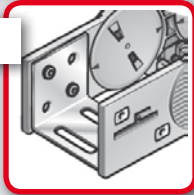


System overview

1

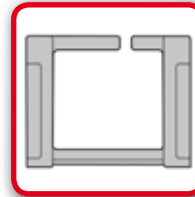
Chain bracket

Chain bracket U-part



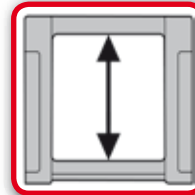
1

Technical data



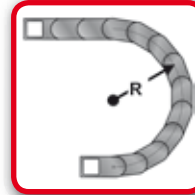
Loading side

outside flexure curve slitted



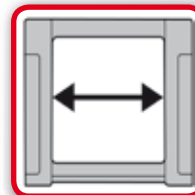
Available interior heights

0.39 in.



Available radii

0.71 to 2.28 in.



Available interior widths

0.24 to 1.61 in.

- 0 Standard (PA/black)
- 1 UL94/V0 (PA/oxide red)
- 7 EMC (PA/light gray)
- 9 Special version

0 PA full-ridged with bias

22 Crossbar on outside of radius
 Crossbar on inside of radius
 Slotted on outside of radius

Ordering example: 0101 006 018 0 0 000041

Frame bridge in outside bend, frame bridge in inside bend, slitted in outside bend
 Inside width 0.24 in.; radius 0.71 in.
 Plastic bridge, full-ridged with bias, material black-colored polyamide
 Chain length 41 in. (70 links)

Technical specifications

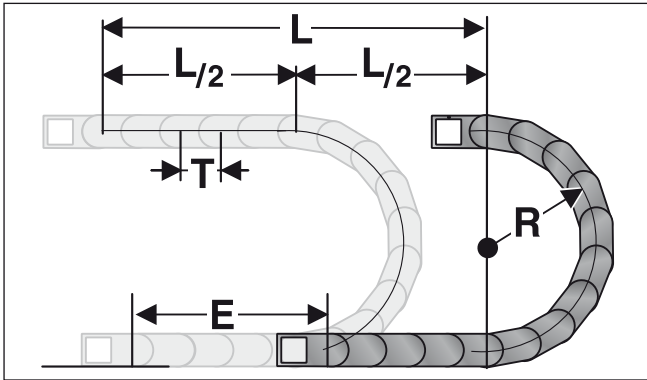
Travel distance gliding L_g max.:	32.81 ft.
Travel distance self-supporting L_f max.:	see diagram
Travel distance vertical, hanging L_{vh} max.:	6.56 ft.
Travel distance vertical, upright L_{vs} max.:	3.28 ft.
Rotated 90°, unsupported L_{90f} max.:	not recommended
Speed, gliding V_g max.:	6.56 ft/s
Speed, self-supporting V_f max.:	13.12 ft/s
Acceleration, gliding a_g max.:	6.56 ft/s ²
Acceleration, self-supporting a_f max.:	6.56 ft/s ²

Material properties

Standard material:	Polyamide (PA) black
Service temperature:	-22.00 to 248.00 °F
Gliding friction factor:	0.30
Static friction factor:	0.45
Fire classification:	Based on UL 94 HB
Other material properties on request.	



Determining the chain length



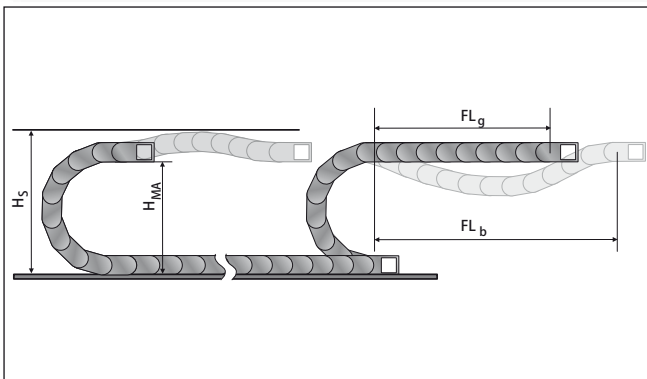
The fixed point of the cable drag chain should be connected in the middle of the travel distance. This arrangement gives the shortest connection between the fixed point and the moving bracket and thus the most efficient chain length.

$$\text{Chain length calculation} = L/2 + \pi * R + 2 * T + E$$

≈ 1 ft chain = links each 0.59 in.

- E = Offset mounting distance from center of stroke
- L = Travel distance
- R = Radius
- T = Grid

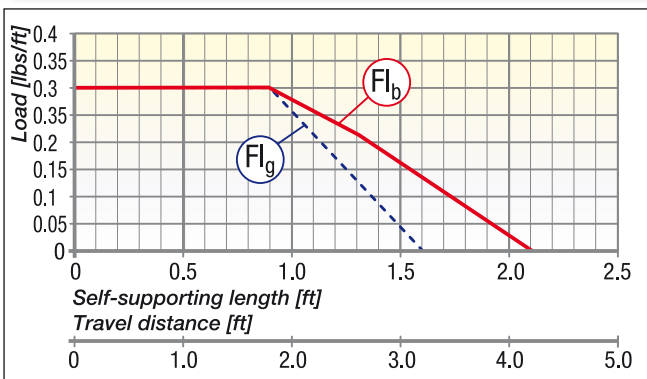
Self-supporting length



The self-supporting length is the distance between the chain bracket on the moving end and the start of the chain arch. The installation variant FL_g offers the lowest load and wear for the cable drag chain. The maximum travel parameters (speed and acceleration) can be applied for this variant.

- H_S = Installation height plus safety
- H_{MA} = Height of moving end connection
- FL_g = Self-supporting length, upper run straight
- FL_b = Self-supporting length, upper run bent

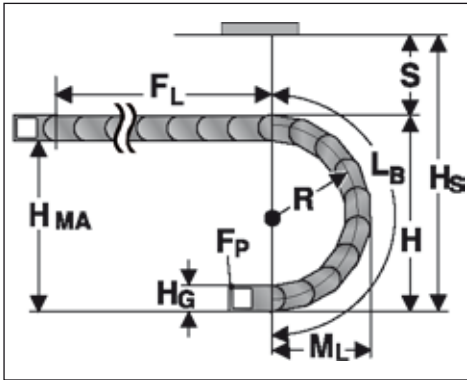
Load diagram for self-supporting applications



FL_g Self-supporting Length, upper run straight
In the FL_g range, the chain upper run still has a bias, is straight or has a maximum sag of .

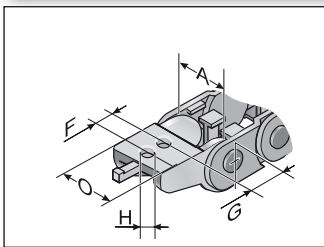
FL_b Self-supporting Length, upper run bent
In the FL_b range, the chain upper run has a sag of more than , but this is still less than the maximum sag. Where the sag is greater than that permitted in the FL_b range, the application is critical and should be avoided. The self-supporting length can be optimized by using a support for the upper run or a more stable cable drag chain.

Installation dimensions

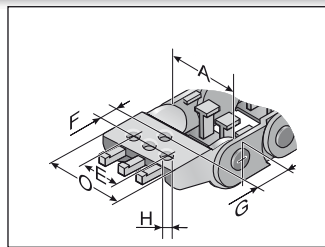


Radius R	0.71	1.10	1.50	1.89	2.28
Outside height of chain link (H_G)	0.55	0.55	0.55	0.55	0.55
Height of bend (H)	1.97	2.75	3.55	4.33	5.11
Height of moving end connection (H_{MA})	1.42	2.20	3.00	3.78	4.56
Safety margin (S)	0.39	0.39	0.39	0.39	0.39
Installation height (H_S)	2.36	3.14	3.94	4.72	5.50
Arc projection (M_L)	1.58	1.97	2.36	2.76	3.14
Bend length (L_B)	3.68	4.91	6.16	7.39	8.61

Chain bracket U-part



KA 10.1 006 to 021



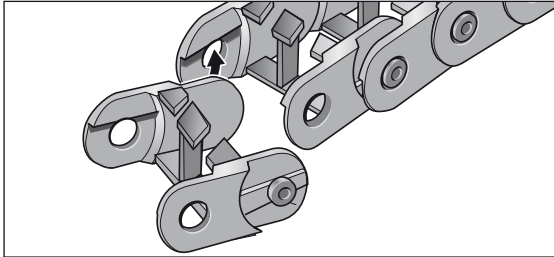
KA 10.1 031 to 041

The chain bracket is an all-plastic part. The bracket is precisely adjusted to the respective chain width and only needs to be snapped in at the chain link. Please order one male and one female end bracket for each chain. The brackets should be fastened with M3 screws. The cables or conduits may be fastened with cable ties on the integrated strain relief of the chain bracket.

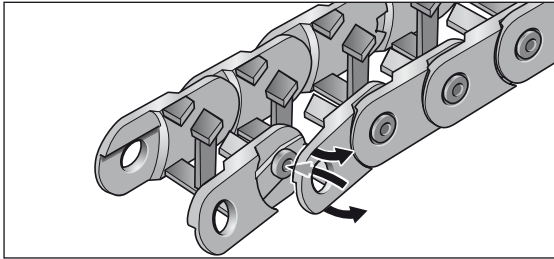
Type	Order no.	Material	Inside width					Outside width KA O in.
			A in.	E in.	F in.	G in.	HØ in.	
KA 10.1 006 female	010100005000	Plastic	0.24		0.31	0.43	0.13	A+0.28
KA 10.1 006 male	010100005100	Plastic	0.24		0.31	0.43	0.13	A+0.28
KA 10.1 009 female	010100005200	Plastic	0.35		0.31	0.43	0.13	A+0.28
KA 10.1 009 male	010100005300	Plastic	0.35		0.31	0.43	0.13	A+0.28
KA 10.1 015 female	010100005400	Plastic	0.59		0.31	0.43	0.13	A+0.28
KA 10.1 015 male	010100005500	Plastic	0.59		0.31	0.43	0.13	A+0.28
KA 10.1 021 female	010100005600	Plastic	0.83		0.31	0.43	0.13	A+0.28
KA 10.1 021 male	010100005700	Plastic	0.83		0.31	0.43	0.13	A+0.28
KA 10.1 031 female	010100005800	Plastic	1.22	A-0.35	0.31	0.43	0.13	A+0.28
KA 10.1 031 male	010100005900	Plastic	1.22	A-0.35	0.31	0.43	0.13	A+0.28
KA 10.1 041 female	010100006000	Plastic	1.61	A-0.35	0.31	0.43	0.13	A+0.28
KA 10.1 041 male	010100006100	Plastic	1.61	A-0.35	0.31	0.43	0.13	A+0.28

Assembly

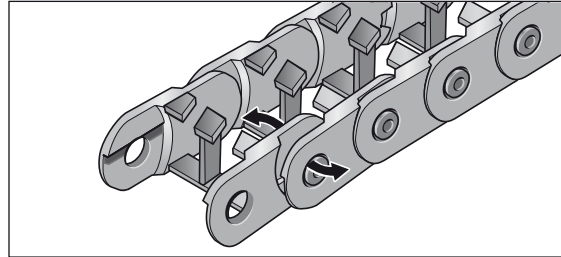
Disassembly



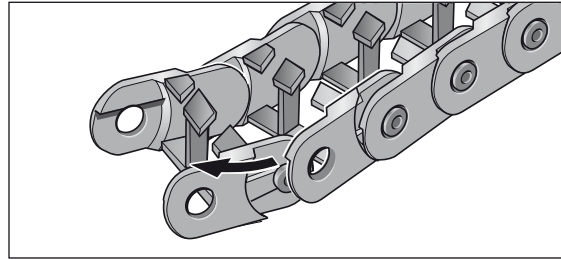
Step 1



Step 2



Step 1



Step 2