

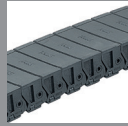


Cable drag chain systems

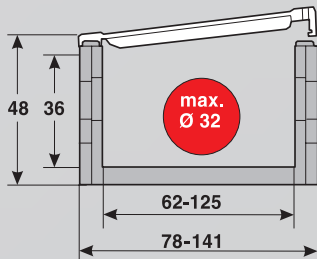
MP 36G

MP 36G

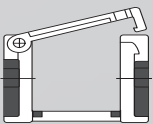
CLOSED



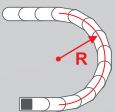
- CLOSED VARIANTS, STARTING WITH R80
- METAL CHAIN BRACKET



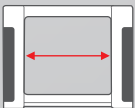
TECHNICAL DATA



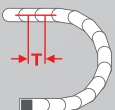
Loading side
Inside bend



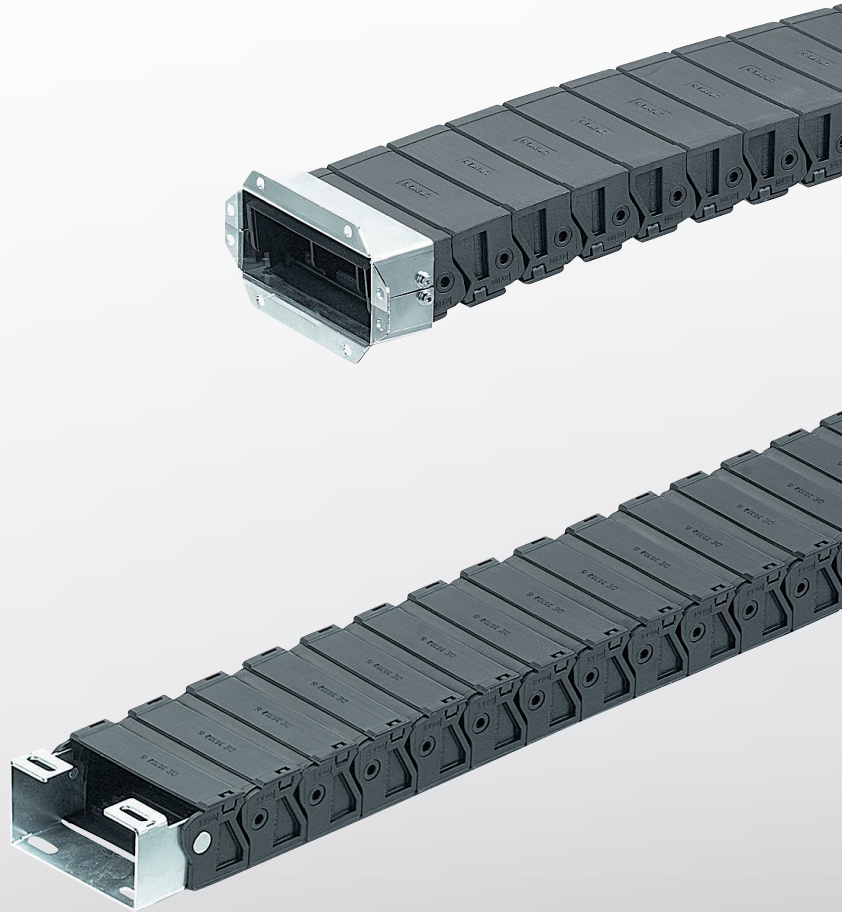
Available radii
80.0 – 200.0 mm



Available interior widths
With plastic frame bridge
62.0 – 125.0 mm



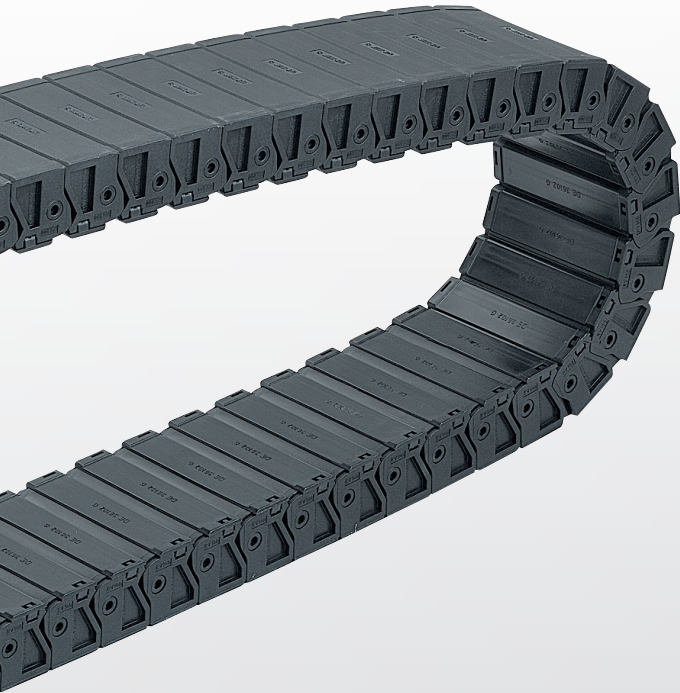
Pitch
T = 40.0 mm



TECHNICAL SPECIFICATIONS

Travel distance gliding L_g max.	60.0 m
Travel distance self-supporting L_s max.	see diagram on page 5
Travel distance vertical, hanging L_{vh} max.	30.0 m
Travel distance vertical, upright L_{vs} max.	3.0 m
Rotated 90°, unsupported L_{90f} max.	1.0 m
Speed, gliding V_g max.	3.0 m/s
Speed, self-supporting V_f max.	10.0 m/s
Acceleration, gliding a_g max.	15.0 m/s ²
Acceleration, self-supporting a_s max.	20.0 m/s ²

Contact our engineering department to meet any higher requirements: efk@murrplastik.de

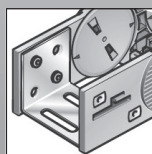


MATERIAL PROPERTIES

Standard material	Polyamide (PA) black
Service temperature	-30.0 – 120.0 °C
Gliding friction factor	0.3
Static friction factor	0.45
Fire classification	Based on UL 94 HB

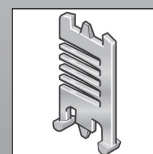
Other material properties on request.

CHAIN BRACKET



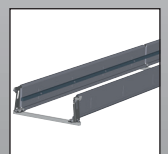
Chain bracket U-part

SHELVING SYSTEM

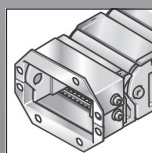


Separator TR

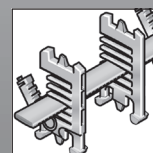
GUIDE CHANNELS



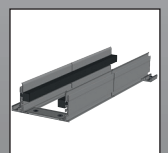
VAW stainless steel



End brackets flange



Shelving system RS



VAW aluminium

ORDERING KEY

Dimensions in mm [US inch]

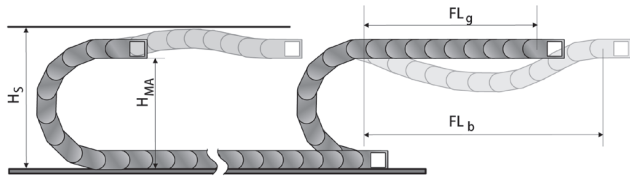
Type code	Variation	Inside width	Outside width	Inside width	Outside width	Radius	Rail variant	Material	Chain length
0360 04	Cover on outside of radius Cover on inside of radius Opens on inside of radius	062 [2.44]	078 [3.07]			080 [3.15]	0 Plastic, full-ridged with bias	0 Polyamide standard (PA/black)	
		086 [3.39]	102 [4.02]						
		102 [4.02]	118 [4.65]			100 [3.94]		9 Special version (on request)	
		125 [4.92]	141 [5.55]			125 [4.92]			
						150 [5.91]			
						200 [7.87]			



ORDER SAMPLE: 0360 04 062 080 0 0 1280

Cover in outside bend, cover in inside bend, openable from inside bend
 Inside width 62 mm; radius 80 mm
 Plastic bridge, full-ridged with bias, material black-coloured polyamide
 Chain length 1280 mm (32 links)

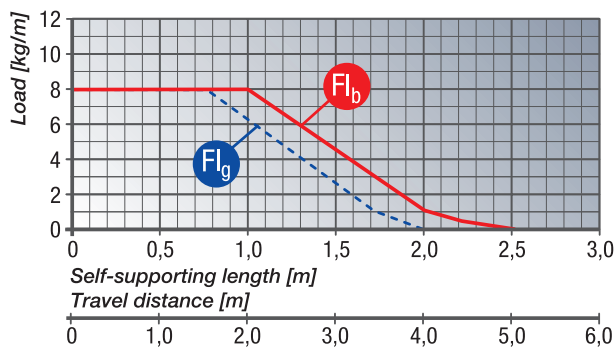
SELF-SUPPORTING LENGTH



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

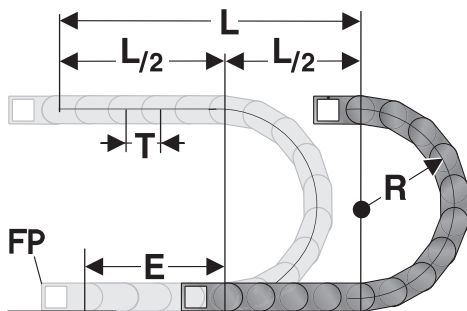
LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



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 60.0 mm.

FL_b Self-supporting length, upper run bent
In the FL_b range, the chain upper run has a sag of more than 60.0 mm, 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 energy chain.

DETERMINING THE CHAIN LENGTH

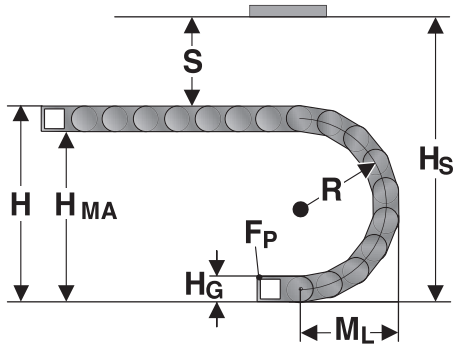


The fixed point of the cable drag chain should be connected in the middle of the travel distance. This arrangement gives the shortest connection between the fixed point and the moving consumer and thus the most efficient chain length.

Chain length calculation = $L/2 + \pi * R + 2 * T + E$
 $\approx 1 \text{ m chain} = 25 \text{ qty. x } 40.0 \text{ mm links.}$

- E = distance between entry point and middle of travel distance
- L = travel distance
- R = radius
- T = Pitch 40.0 mm

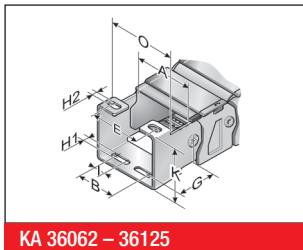
EINBAUMASSE



The moving end chain connection is to be screw fixed at height H_{MA} for the respective radius.
For the installed dimension the „Installed height H_S “ value has to be taken into account.

Radius R	80	100	125	150	200
Outside height of chain link (H_G)	48	48	48	48	48
Height of bend (H)	208	248	298	348	448
Height of moving end bracket (H_{MA})	160	200	250	300	400
Safety margin (S)	32	32	32	32	32
Installation height (H_S)	240	280	330	380	480
Arc projection (M_L)	144	164	189	214	264

CHAIN BRACKET U-PART KA 36 G



KA 36062 – 36125

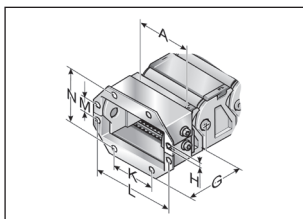
The chain bracket can be supplied either in galvanised sheet steel or stainless steel. To secure one cable drag chain, you will need a bracket with a drilled hole and a bracket with a bolt.

Type	Order No.	Material	Inside width							Outside width KA
			A mm	E mm	G mm	H1 mm	H2 mm	I mm	K mm	O mm
KA 36062 C Female end	036000001000	Sheet steel	62.0	A-7.5	42.0	6.6	6.6	6.0	48.8	A+12.0
KA 36062 C Male end	036000001100	Sheet steel	62.0	A-7.5	42.0	6.6	6.6	6.0	48.8	A+8.0
KA 36086 C Female end	036000001200	Sheet steel	86.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36086 C Male end	036000001300	Sheet steel	86.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36102 C Female end	036000001400	Sheet steel	102.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36102 C Male end	036000001500	Sheet steel	102.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36125 C Female end	036000001600	Sheet steel	125.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36125 C Male end	036000001700	Sheet steel	125.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36062 C Female end	036000002000	Stainless steel 1.4301	62.0	A-7.5	42.0	6.6	6.6	6.0	48.8	A+12.0
KA 36062 C Male end	036000002100	Stainless steel 1.4301	62.0	A-7.5	42.0	6.6	6.6	6.0	48.8	A+8.0
KA 36086 C Female end	036000002200	Stainless steel 1.4301	86.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36086 C Male end	036000002300	Stainless steel 1.4301	86.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36102 C Female end	036000002400	Stainless steel 1.4301	102.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+12.0

CHAIN BRACKET U-PART KA 36 G

Type	Order No.	Material	Inside width							Outside width KA
			A mm	E mm	G mm	H1 mm	H2 mm	I mm	K mm	O mm
KA 36102 C Male end	036000002500	Stainless steel 1.4301	102.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+8.0
KA 36125 C Female end	036000002600	Stainless steel 1.4301	125.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+12.0
KA 36125 C Male end	036000002700	Stainless steel 1.4301	125.0	A-7.5	42.0	6.6	6.6	15.5	48.8	A+8.0

END BRACKETS FLANGE KA 36 G

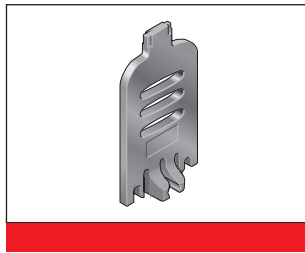
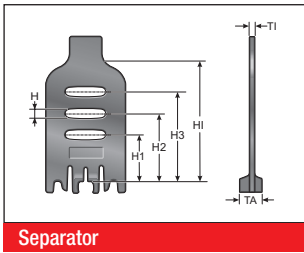


FL 36062 – 36125

A cable drag chain requires two chain brackets. The divisible flange connection has been specifically designed for commissioning and re-installation. This keeps the chain in the installed position.

Type	Order No.	Material	Inside width					
			A mm	HØ mm	K mm	L mm	M mm	N mm
FL 36062	0360062054	Sheet steel	62.0	7.0	40.0	97.9	18.0	68.5
FL 36086	0360086054	Sheet steel	86.0	7.0	64.0	121.9	18.0	68.5
FL 36102	0360102054	Sheet steel	102.0	7.0	80.0	137.9	18.0	68.5
FL 36125	0360125054	Sheet steel	125.0	7.0	103.0	160.9	18.0	68.5
FL 36062	0360062056	Stainless steel 1.4301	62.0	7.0	40.0	97.9	18.0	68.5
FL 36086	0360086056	Stainless steel 1.4301	86.0	7.0	64.0	121.9	18.0	68.5
FL 36102	0360102056	Stainless steel 1.4301	102.0	7.0	80.0	137.9	18.0	68.5
FL 36125	0360125056	Stainless steel 1.4301	125.0	7.0	103.0	160.9	18.0	68.5

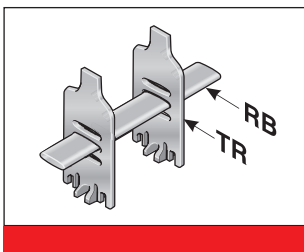
TR 36G SEPARATOR



We recommend that separators be used if multiple round cables or conduits with differing diameters are to be installed.

Type	Order No.	Designation	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	H4 mm
TR 36G	036000009200	Separator	lockable	2.5	10.5	2.5	13.5	19.5	25.5	36.5

SHELVING SYSTEM MP 36G



The shelf must be used with a minimum of two separators to create a shelving system. The additional levels prevent cables from criss-crossing and minimise the friction between them. The shelves are matched to the available chain widths.

Type	Order No.	Designation	Width mm	Pitch mm
RBT 062	100000006200	Shelf	62.0	2.52.5
RBT 086	100000008600	Shelf	86.0	2.52.5
RBT 101	100000010100	Shelf	101.0	2.52.5
RBT 125	100000012500	Shelf	125.0	2.52.5

GUIDE CHANNEL VAW (ALUMINIUM / STAINLESS STEEL)



For this cable drag chain, a range of variable guide channel systems are available, constructed from aluminium or stainless steel sections.

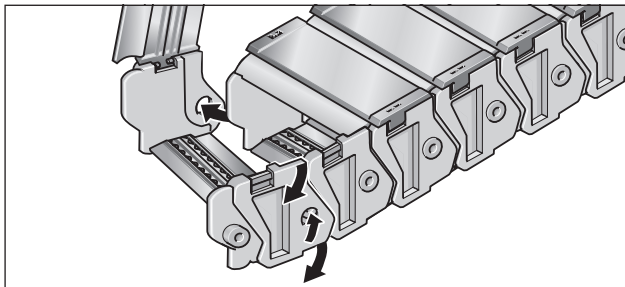
The variable guide channel ensures that the cable drag chain is supported and guided securely.

For help on choosing, please consult the chapter „Variable Guide Channel System“.

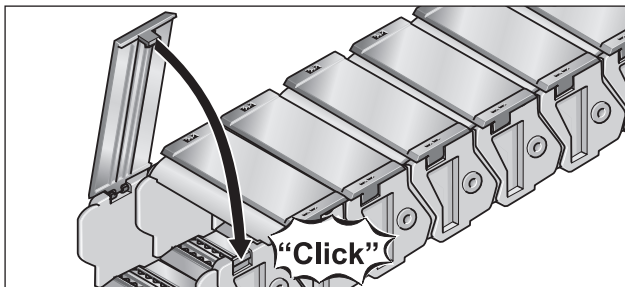
ASSEMBLY

DISASSEMBLY

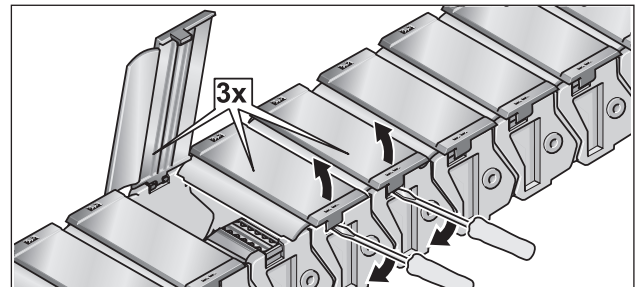
MP 36G CLOSED



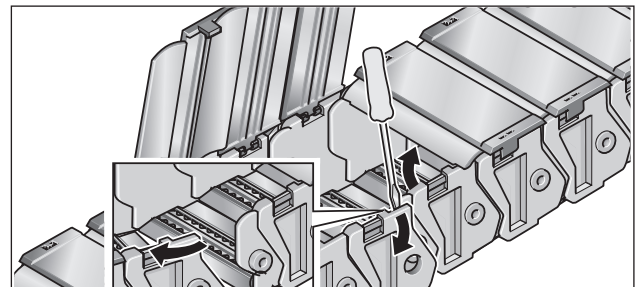
Step 1



Step 2



Step 1



Step 2

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 The electronic data and files made available by Murrplastik, particularly CAD files are based on our current knowledge of the product described.
 A legally binding assurance of certain properties or the suitability for a certain purpose can not be determined from this information.
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 This does not free the purchaser of carrying out their own inspections and tests in order to determine the suitability of a product for a specific purpose.
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