







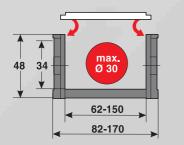


MULTILINE

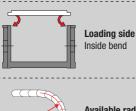
MP 35



- METAL CHAIN BRACKET
- LOW-COST VARIANT



TECHNICAL DATA



Available radii 70.0 – 300.0 mm



Available interior widths With plastic frame bridge 62.0 – 150.0 mm

Pitch T = 58.0 mm



TECHNICAL SPECIFICATIONS

Travel distance gliding L _a max.	80.0 m
Travel distance self-supporting L, max.	see diagram on page 5
Travel distance vertical, hanging L _{vh} max.	40.0 m
Travel distance vertical, upright L _{vs} max.	3.0 m
Rotated 90°, unsupported L _{anf} max.	1.0 m
Speed, gliding V _a max.	3.0 m/s
Speed, self-supporting V _r max.	10.0 m/s
Acceleration, gliding a, max.	15.0 m/s ²
Acceleration, self-supporting a, 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.

SHELVING SYSTEM



CHAIN BRACKET



Chain bracket angle



Chain bracket U-part





Shelving system RS



H-shaped shelf unit RE



GUIDE CHANNELS

VAW stainless steel



VAW aluminium



MP 35 0PEN

ORDERING KEY

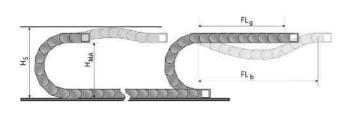
Type code	Variation	Inside width	Outside width	Inside width	Outside width	Radius	Rail variant	Material	Chain length
0350 02	Frame bridge on outside of radius Frame bridge on inside bend Opens on inside of radius	062 [2.44] 086 [3.39]	082 [3.23] 106 [4.17]			070 [2.76]	0 Plastic, full-ridged with bias	0 Polyamide standard (PA/black)	
		[4.02] [4.02] [4.92]	122 [4.80] 145 [5.71]			100 [3.94]	1 Plastic, full-ridged without bias	9 Special version (on request)	
		[5.91]	[6.69]			150 [5.91]			
						200 [7.87]			
						300 [11.81]			
		ORDE	r samp	LE: 035	50 02 0	62 070 0	0 1276		

Frame bridge in outside bend, frame bridge in inside bend, can be opened from inside bend Inside width 62 mm; radius 70 mm Plastic bridge, full-ridged with bias, material black-coloured polyamide Chain length 1276 mm (22 links)

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Dimensions in mm [US inch]

SELF-SUPPORTING LENGTH

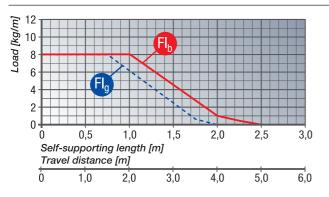


The self-supporting length is the distance between the chain bracket on the moving end and the start of the chain arch. The installation variant FL, offers the lowest load and wear for the cable drag chain.

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_{q} = Self-supporting length, upper run straight
- FL_{h}^{\prime} = Self-supporting length, upper run bent

LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



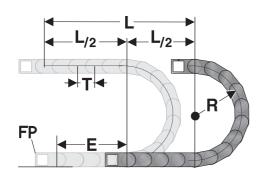
FL_n Self-supporting length, upper run straight

In the ${\rm FL}_{_{\rm d}}$ range, the chain upper run still has a bias, is straight or has a maximum sag of 60.0 mm.

FL_h Self-supporting length, upper run bent

In the FL_h range, the chain upper run has a sag of more than60.0 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.

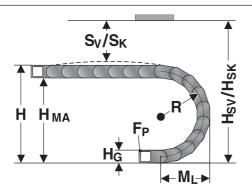
This arrangement gives the shortest connection between the fixed point and the moving consumer and thus the most efficient chain length.

Chain length calculation = $L/2 + \pi * R + 2 * T + E$ \approx 1 m chain = 17 qty. x 58.0 mm links.

- E = distance between entry point and middle of travel distance
- L = travel distance
- R = radius
- T = Pitch 58.0 mm



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The moving end chain connection is to be screw fixed at height ${\rm H}_{\rm {\tiny MA}}$ for the respective radius.

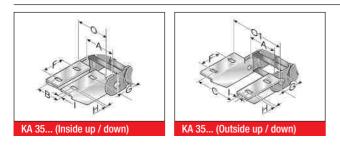
Concerning the installed dimensions, you must take into account whether the chain links are equipped with or without bias.

For chain links without bias, the "Installed height without bias $H_{_{SK}}^{}$ value has to be taken into account.

If the chain links are equipped with a bias, the value "Installed height with bias H_{sv} " has to be taken into account.

Radius R	70	100	150	200	300
Outside height of chain link (H _g)	48	48	48	48	48
Height of bend (H)	188	248	348	448	648
Height of moving end bracket (H _{MA})	140	200	300	400	600
Safety margin with bias (S_v)	40	40	40	40	40
Installation height with bias (H _{sv})	228	288	388	488	688
Safety margin without bias (S_{κ})	15	15	15	15	15
Installation height without bias $(H_{_{SK}})$	203	263	363	463	663
Arc projection (M _L)	152	182	232	282	382

CHAIN BRACKET ANGLE KA 35



The chain bracket can be supplied either in galvanised sheet steel or stainless steel. To secure one cable drag chain, you will need two angle brackets (left and right) with a drilled hole and two angle brackets (left and right) with a bolt. The order numbers given below each comprise a left and right angle bracket.

Туре	Order No.	Material	Inside width A	В	C F		G HØ		I	Outside width KA O	Outside width KA 01
			mm	mm	mm	mm	mm	mm	mm	mm	mm
KA 3508 Female end	0350000054	Sheet steel	62.0 - 150.0	A-7.0	A+28.0	25.0	20.0	7.0	8.0	A+20.0	A+52.0
KA 3508 Male end	0350000055	Sheet steel	62.0 - 150.0	A-12.0	A+38.5	25.0	20.0	7.0	8.0	A+10.0	A+52.0
KA 3509 Female end	0350000056	Stainless steel 1.4301	62.0 - 150.0	A-7.0	A+28.0	25.0	20.0	7.0	8.0	A+20.0	A+52.0
KA 3509 Male end	0350000057	Stainless steel 1.4301	62.0 - 150.0	A-12.0	A+38.5	25.0	20.0	7.0	8.0	A+10.0	A+52.0

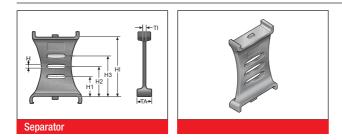
CHAIN BRACKET U-PART KA 35



The metal connection (U-section) is precisely adjusted to the respective chain width. It only needs to be snapped in the chain link. Please order one male and one female end bracket for each chain. The brackets should be fastened with M6 screws.

Туре	Order No.	Material	Inside width A mm	B mm	F mm	G mm	HØ mm	l mm	Outside width KA O mm
KA 35062 Female end	035000007000	Sheet steel	62.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35062 Male end	035000007100	Sheet steel	62.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35086 Female end	035000007200	Sheet steel	86.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35086 Male end	035000007300	Sheet steel	86.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35102 Female end	035000007400	Sheet steel	102.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35102 Male end	035000007500	Sheet steel	102.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35125 Female end	035000007600	Sheet steel	125.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35125 Male end	035000007700	Sheet steel	125.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35150 Female end	035000007800	Sheet steel	150.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35150 Male end	035000007900	Sheet steel	150.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35062 Female end	035000008000	Stainless steel 1.4301	62.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35062 Male end	035000008100	Stainless steel 1.4301	62.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35086 Female end	035000008200	Stainless steel 1.4301	86.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35086 Male end	035000008300	Stainless steel 1.4301	86.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35102 Female end	035000008400	Stainless steel 1.4301	102.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35102 Male end	035000008500	Stainless steel 1.4301	102.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35125 Female end	035000008600	Stainless steel 1.4301	125.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35125 Male end	035000008700	Stainless steel 1.4301	125.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0
KA 35150 Female end	035000008800	Stainless steel 1.4301	150.0	A-7.0	25.0	20.0	7.0	15.0	A+20.0
KA 35150 Male end	035000008900	Stainless steel 1.4301	150.0	A-12.0	25.0	20.0	7.0	15.0	A+20.0

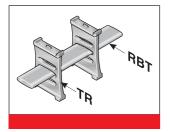
SEPARATOR TR 35



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

Туре	Order No.	Designation	Version	TI mm	TA mm	H mm	H1 mm	H2 mm	H3 mm	HI mm
TR 35	035000009200	Separator	lockable	2.0	13.0	2.5	10.9	16.9	22.9	33.8

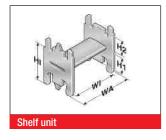
SHELVING SYSTEM MP 35



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.

Туре	Order No.	Designation	Width mm	Pitch mm
RBT 062	10000006200	Shelf	62.0	3.03.0
RBT 086	10000008600	Shelf	86.0	3.03.0
RBT 101	10000010100	Shelf	101.0	3.03.0
RBT 125	10000012500	Shelf	125.0	3.03.0
RBT 150	10000015000	Shelf	150.0	3.03.0

RE 35 H-SHAPED SHELF UNIT



One-piece shelving system, the shelf cannot be varied in height.

Туре	Order No.	Designation	WA	WI	H1	H2	HI
			mm	mm	mm	mm	mm
RE 35/33	100000353310	H-shaped shelf unit	35.5	30.5	18.0	12.0	33.0
RE 35/48	100000354810	H-shaped shelf unit	50.5	45.5	18.0	12.0	33.0
RE 35/57	100000355710	H-shaped shelf unit	59.5	54.5	18.0	12.0	33.0

GUIDE CHANNEL VAW (ALUMINIUM / STAINLESS STEEL)

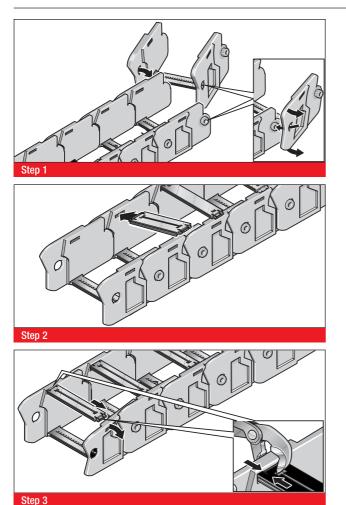


For this cable drag chain, a range of variable guide channel systems are available, constructed from aluminium or stainless steel sections.

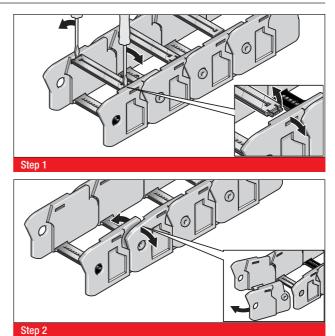
The variable guide channel ensures that the cable drag chain is supported and guided securely.

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

ASSEMBLY



DISASSEMBLY



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