



MP 18.1, MP 18.2





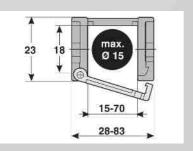
MP 18.1 OPEN

MULTILINE



MP 18.2 OPEN

- CHAIN BRACKET WITH INTEGRATED STRAIN ٠ RELIEF
- CAN BE EASILY SHORTENED AND LENGT-٠ HENED



TECHNICAL DATA



Loading side Inside or outside bend

Available radii 28.0 – 78.0 mm



Available interior widths With plastic frame bridge 15.0 – 70.0 mm



T = 33.0 mm



TECHNICAL SPECIFICATIONS

Travel distance gliding L _a max.	20.0 m
Travel distance self-supporting L, max.	see diagram on page 5
Travel distance vertical, hanging L _{vh} max.	8.0 m
Travel distance vertical, upright L _{vs} max.	3.0 m
Rotated 90°, unsupported L _{qof} max.	0.5 m
Speed, gliding V _a max.	2.0 m/s
Speed, self-supporting V, max.	5.0 m/s
Acceleration, gliding a max.	5.0 m/s ²
Acceleration, self-supporting a, max.	5.0 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	UL 94 HB

Other material properties on request.

CHAIN BRACKET

SHELVING SYSTEM



JUL S



GUIDE CHANNELS

Separator TR



FEATURES

2



Dimensions in mm [US inch]

ORDERING KEY

Type code	Variation	Inside width	Outside width	Inside width	Outside width	Radius	Rail variant	Material	Chain length
	MP 18.1 open	015 ³⁾ [0.59]	028 [1.10]			028	Diastia full ridaad	Delvemide standard	
0181 01 ¹⁾	Frame bridge on outside of radius Frame bridge on inside bend Opens on outside bend	018 [0.71]	031 [1.22]			[1.10]	0 Plastic, full-ridged with bias	0 Polyamide standard (PA/black)	
	MP 18.2 open Frame bridge on outside of radius	025 [0.98]	038 [1.50]			020			
0182 02 ²⁾	Frame bridge on fouside of radius Frame bridge on inside bend Opens on inside of radius	037 [1.46]	050 [1.97]			038 [1.50]		1 UL94 / V0 (PA/oxide red)	
		050 [1.97]	063 [2.48]						
		070 [2.76]	083 [3.27]			048 [1.89]		5 Polypropylene (PP/blue)	
		[2.70]	[3.27]						
						078 [3.07]		7 EMC (PA/light grey)	
								9 Special version (on request)	
\							•	•	\
								_	
		0000				15 028 0			

ORDER SAMPLE: 0181 01 015 028 0 0 1122

Frame bridge in outside bend, frame bridge in inside bend, can be opened from outside bend Inside width 15 mm; radius 28 mm

Plastic bridge, full-ridged with bias, material black-coloured polyamide

Chain length 1122 mm (34 links)

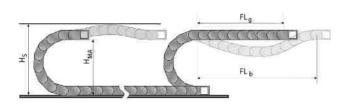
¹⁾ for Type 0181 only

- ²⁾ for Type 0182 only
- ³⁾ max. line diameter 13 mm



MP 18.1 OPEN / MP 18.2 OPEN

SELF-SUPPORTING LENGTH

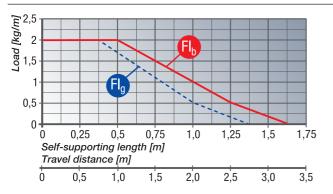


The self-supporting length is the distance between the chain bracket on the moving end and the start of the chain arch. The installation variant FL_g offers the lowest load and wear for the cable drag chain.

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



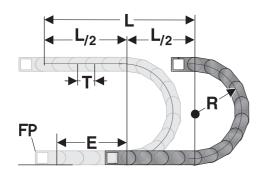
FL, Self-supporting length, upper run straight In the FL range, the chain upper run still has a bi

In the $\rm FL_{g}$ range, the chain upper run still has a bias, is straight or has a maximum sag of 40.0 mm.

FL_b Self-supporting length, upper run bent

In the FL, range, the chain upper run has a sag of more than 40.0 mm, but this is still less than the maximum sag. Where the sag is greater than that permitted in the FL, 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.

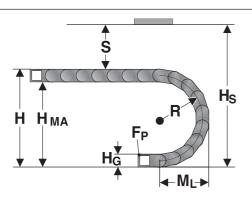
This arrangement gives the shortest connection between the fixed point and the moving consumer and thus the most efficient chain length.

Chain length calculation = L/2 + π * R + 2 * T + E \approx 1 m chain = 30 qty. x 33.0 mm links.

- $\mathsf{E}=\mathsf{distance}\ \mathsf{between}\ \mathsf{entry}\ \mathsf{point}\ \mathsf{and}\ \mathsf{middle}\ \mathsf{of}\ \mathsf{travel}\ \mathsf{distance}$
- L = travel distance
- R = radius
- T = Pitch 33.0 mm



EINBAUMASSE

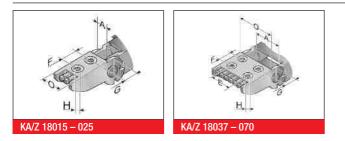


The moving end chain connection is to be screw fixed at height $\rm H_{\rm \tiny MA}$ for the respective radius. For the installed dimension the "Installed height $\rm H_{\rm s}$ " value has

to be taken into account.

Radius R	28	38	48	78
Outside height of chain link $(H_{\rm g})$	23	23	23	23
Height of bend (H)	79	99	119	179
Height of moving end bracket (H _{MA})	56	76	96	156
Safety margin (S)	30	30	30	30
Installation height (H _s)	109	129	149	209
Arc projection (M _L)	73	83	93	123

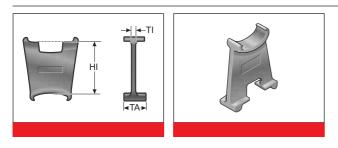
CHAIN BRACKET U-PART KA 18.1 / 18.2



The chain bracket is a fully 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 M5 screws. The cables or conduits may be fastened with cable ties on the integrated strain relief of the chain bracket.

Туре	Order No.	Material	Inside width A mm	E mm	F mm	G mm	HØ mm	Outside width KA O mm
KA/Z 18015 female end	018100004800	Plastic	15.4		19.0	10.5	5.5	A+13.0
KA/Z 18015 male end	018100004900	Plastic	15.4		19.0	8.5	5.5	A+13.0
KA/Z 18018 female end	018100005000	Plastic	18.4		19.0	10.5	5.5	A+13.0
KA/Z 18018 male end	018100005100	Plastic	18.4		19.0	8.5	5.5	A+13.0
KA/Z 18025 female end	018100005200	Plastic	25.4		19.0	10.5	5.5	A+13.0
KA/Z 18025 male end	018100005300	Plastic	25.4		19.0	8.5	5.5	A+13.0
KA/Z 18037 female end	018100005400	Plastic	37.4	A-17.4	19.0	10.5	5.5	A+13.0
KA/Z 18037 male end	018100005500	Plastic	37.4	A-17.4	19.0	8.5	5.5	A+13.0
KA/Z 18050 female end	018100005600	Plastic	50.4	A-16.4	19.0	10.5	5.5	A+13.0
KA/Z 18050 male end	018100005700	Plastic	50.4	A-16.4	19.0	8.5	5.5	A+13.0
KA/Z 18070 female end	018100005800	Plastic	70.4	A-22.4	19.0	10.5	5.5	A+13.0
KA/Z 18070 male end	018100005900	Plastic	70.4	A-22.4	19.0	8.5	5.5	A+13.0

SEPARATOR TR 18.1/2:



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

Туре	Order No.	Designation	TI mm
TR 14/18	018200009000	Separator	1.5

GUIDE CHANNEL VAW (ALUMINIUM)



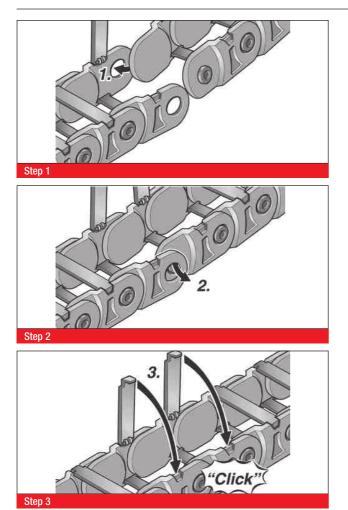
For this cable drag chain, a variable guide channel system is available, constructed from aluminium sections. The variable guide channel ensures that the cable drag chain

is supported and guided securely. For help on choosing, please consult the chapter "Variable

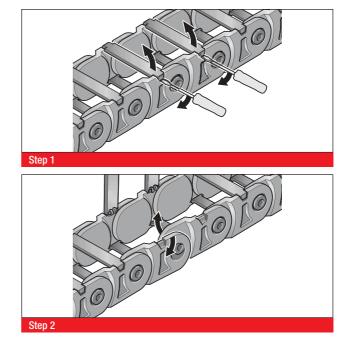
Guide Channel System".



ASSEMBLY



DISASSEMBLY



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