



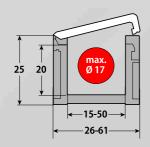




MP 20 OPEN



- LOW-COST VARIANT
- CHAIN BRACKET WITH INTEGRATED STRAIN RELIEF
- FRAME BRIDGE WITH INTEGRAL HINGE



TECHNICAL DATA



Loading side Inside bend



Available radii 38.0 – 125.0 mm



Available interior widths With plastic frame bridge 15.0-50.0 mm



 $\begin{aligned} & \textbf{Pitch} \\ & T = 35.0 \text{ mm} \end{aligned}$





TECHNICAL SPECIFICATIONS

Travel distance gliding L _a max.	not recommended
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 _{qqf} max.	0.5 m
Speed, self-supporting V _r max.	10.0 m/s
Acceleration, self-supporting a, max.	10.0 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 U-part

SHELVING SYSTEM



Separator TR

GUIDE CHANNELS



VAW aluminium



ORDERING KEY

Dimensions in mm [US inch]

Type code Variation	Inside Width	Outside Inside width	Outside width	Radius	Rail variant	Material	Chain length
Frame bridge on outside of radius 0202 02 Frame bridge on inside bend Opens on inside of radius	[0.59]	026		038 [1.50]	Plastic, full-ridged with bias	Polyamide standard (PA/black)	
Upens on inside of radius	[0.98]	036 [1.42]		[1.00]		, ,	
	[1.50]	049 [1.93]		048 [1.89]			
		[2.40]					
				075 [2.95]			
				100 [3.94]			
				125 [4.92]			
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		300					

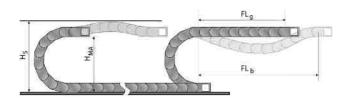
SAMPLE ORDER: 0202 02 025 048 0 0 770

Frame bridge in outside bend, frame bridge in inside bend, opens on inside bend Inside width 25 mm; radius 48 mm
Plastic bridge, full-ridged with bias, material black-coloured polyamide
Chain length 770 mm (22 links)

nax. line diameter 13 mm



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 ${\sf FL}_{\sf g}$ offers the lowest load and wear for the cable drag chain.

The maximum travel parameters (speed and acceleration) can be applied for this variant.

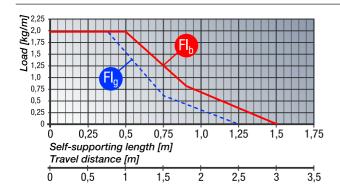
H_s = Installation height plus safety

 H_{MA}^{-} = Height of moving end connection

 FL_{α} = Self-supporting length, upper run straight

 FL_h = Self-supporting length, upper run bent

LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



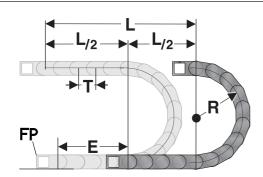
FL Self-supporting length, upper run straight

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

FL, Self-supporting length, upper run bent

In the $FL_{_D}$ 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 $FL_{_D}$ 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 = 29 qty. x 35.0 mm links.

E = distance between entry point and middle of travel distance

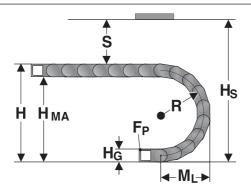
L = travel distance

R = radius

T = Pitch 35.0 mm



EINBAUMASSE

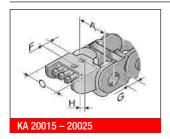


The moving end chain connection is to be screw fixed at height $\rm H_{MA}$ for the respective radius. For the installed dimension the "Installed height $\rm H_{S}$ " value has

to be taken into account.

Radius R	38	48	75	100	125
Outside height of chain link (H _g)	25	25	25	25	25
Height of bend (H)	101	121	175	225	275
Height of moving end bracket (H _{MA})	76	96	150	200	250
Safety margin (S)	20	20	20	20	20
Installation height (H _s)	121	141	195	245	295
Arc projection (M _L)	86	96	123	148	173

CHAIN BRACKET U-PART KA 20



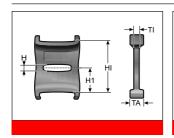


The chain bracket is a fully plastic part. The bracket is precisely adjusted to the respective chain width and only needs to be snapped in at the chain link. Please order one male and one female end bracket for each chain. The brackets should be fastened with M5 screws. The cables or conduits may be 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 20015 Female end	020200005000	Plastic	15.0		19.0	16.5	5.5	A+11.0
KA 20015 Male end	020200005100	Plastic	15.0		19.0	16.5	5.5	A+11.0
KA 20025 Female end	020200005200	Plastic	25.0		19.0	16.5	5.5	A+11.0
KA 20025 Male end	020200005300	Plastic	25.0		19.0	16.5	5.5	A+11.0
KA 20038 Female end	020200005400	Plastic	38.0	A-18.0	19.0	16.5	5.5	A+11.0
KA 20038 Male end	020200005500	Plastic	38.0	A-18.0	19.0	16.5	5.5	A+11.0
KA 20050 Female end	020200005600	Plastic	50.0	A-16.0	19.0	16.5	5.5	A+11.0
KA 20050 Male end	020200005700	Plastic	50.0	A-16.0	19.0	16.5	5.5	A+11.0



SEPARATOR TR 20





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	TA	Н	H1	H2
				mm	mm	mm	mm	mm
TR 20	020000009000	Separator	moveable	1.6	8.0	2.5	10.0	10.0

GUIDE CHANNEL VAW (ALUMINIUM)



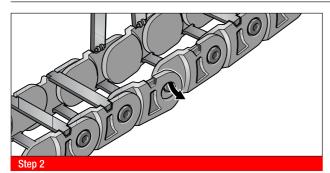
For this cable drag chain, a variable guide channel system is available, constructed from aluminium sections.

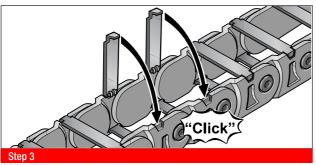
The variable guide channel ensures that the cable drag chain is supported and guided securely.

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

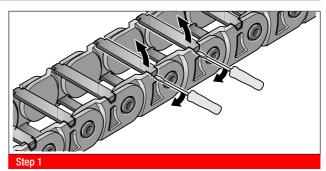


ASSEMBLY





DISASSEMBLY



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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