



MP 14



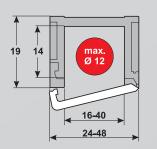


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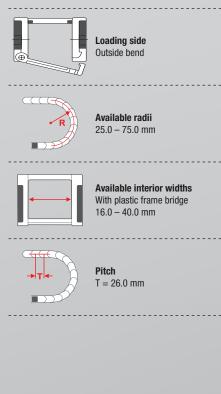
MULTILINE

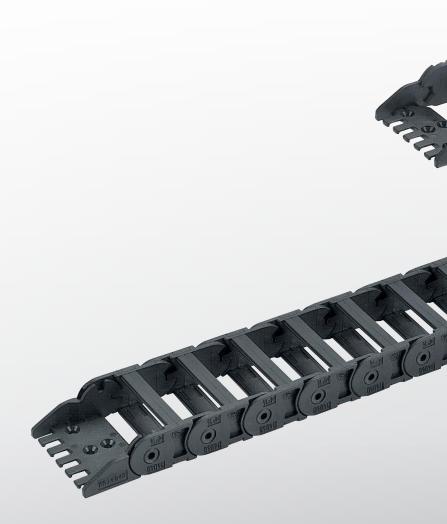


- LOW-COST VARIANT
- CHAIN BRACKET WITH INTEGRATED STRAIN RELIEF
- CAN BE EASILY SHORTENED AND LENGTHENED



TECHNICAL DATA





TECHNICAL SPECIFICATIONS

Travel distance gliding L_a max.	12.0 m
Travel distance self-supporting L, max.	see diagram on page 5
Travel distance vertical, hanging L _{vh} max.	3.0 m
Travel distance vertical, upright L _{vs} max.	2.0 m
Rotated 90°, unsupported L _{90f} max.	not recommended
Speed, gliding V _a max.	2.0 m/s
Speed, self-supporting V, max.	4.0 m/s
Acceleration, gliding a max.	2.0 m/s ²
Acceleration, self-supporting a, max.	2.0 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



SHELVING SYSTEM



Separator TR

GUIDE CHANNELS



VAW aluminium

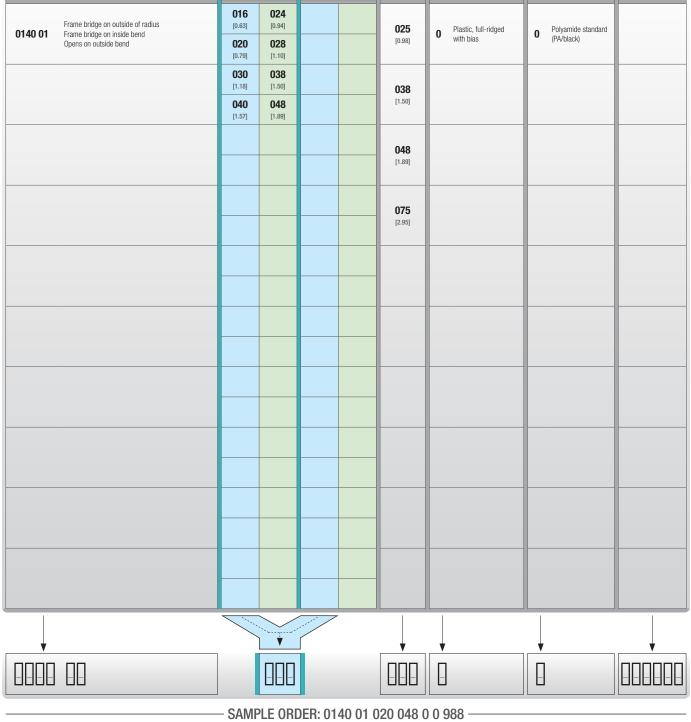


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MP 14 OPEN



Frame bridge in inside and outside bend; can be opened in outside bend Inside width 20 mm; radius 48 mm Full-ridged with bias, material black-coloured polyamide Chain length 988 mm (38 links)

Outside

width

Inside

width

Outside

width

Radius

Rail variant

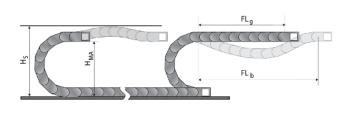
Dimensions in mm [US inch]

Chain length

murrplastik

Material

SELF-SUPPORTING LENGTH

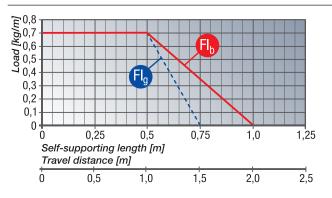


The self-supporting length is the distance between the chain bracket on the moving end and the start of the chain arch. The installation variant ${\sf FL}_{\sf g}$ offers the lowest load and wear for the cable drag chain.

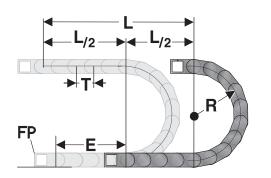
The maximum travel parameters (speed and acceleration) can be applied for this variant.

- H_s = Installation height plus safety
- $H_{_{MA}}$ = Height of moving end connection
- FL_{g} = Self-supporting length, upper run straight
- FL_{b}^{o} = Self-supporting length, upper run bent

LOAD DIAGRAM FOR SELF-SUPPORTING APPLICATIONS



DETERMINING THE CHAIN LENGTH



FL_a Self-supporting length, upper run straight

In the FL range, the chain upper run still has a bias, is straight or has a maximum sag of 30.0 mm.

FL_b Self-supporting length, upper run bent

In the FL_b range, the chain upper run has a sag of more than 30.0 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.

The fixed point of the cable drag chain should be connected in the middle of the travel distance.

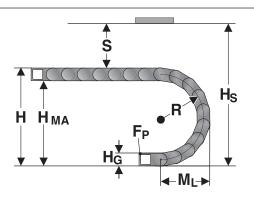
This arrangement gives the shortest connection between the fixed point and the moving consumer and thus the most efficient chain length.

Chain length calculation = L/2 + π * R + 2 * T + E \approx 1 m chain = 39 qty. x 26.0 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 26.0 mm



EINBAUMASSE

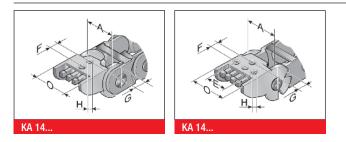


The moving end chain connection is to be screw fixed at height $\rm H_{\rm \tiny MA}$ for the respective radius. For the installed dimension the "Installed height $\rm H_{\rm s}$ " value has

to be taken into account.

Radius R	25	38	48	75
Outside height of chain link (H_g)	19	19	19	19
Height of bend (H)	69	95	115	169
Height of moving end bracket (H _{MA})	50	76	96	150
Safety margin (S)	20	20	20	20
Installation height (H _s)	89	115	135	189
Arc projection (M _L)	61	74	84	111

CHAIN BRACKET U-PART KA 14 / 15



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 M3 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 14016 Female end	014000005000	Plastic	16.0		8.0	11.0	3.2	A+8.0
KA 14016 Male end	014000005100	Plastic	16.0		8.0	7.5	3.2	A+8.0
KA 14020 Female end	014000005200	Plastic	20.0		8.0	11.0	3.2	A+8.0
KA 14020 Male end	014000005300	Plastic	20.0		8.0	7.5	3.2	A+8.0
KA 14030 Female end	014000005400	Plastic	30.0	A-8.0	8.0	11.0	3.2	A+8.0
KA 14030 Male end	014000005500	Plastic	30.0	A-8.0	8.0	7.5	3.2	A+8.0
KA 14040 Female end	014000005600	Plastic	40.0	A-8.0	8.0	11.0	3.2	A+8.0
KA 14040 Male end	014000005700	Plastic	40.0	A-8.0	8.0	7.5	3.2	A+8.0

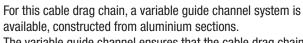
Separator

L'ESS	or cor

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	HI mm
TR 14	014000009200	Separator	moveable	1.5	6.0	14.0

GUIDE CHANNEL VAW (ALUMINIUM)



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

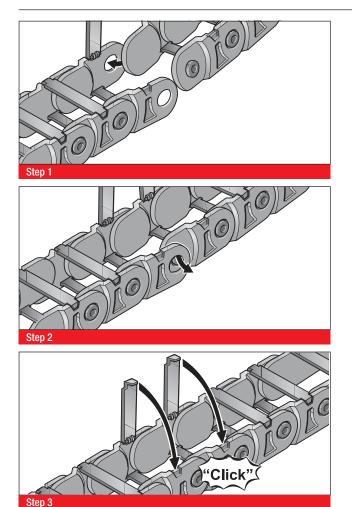
For help on choosing, please consult the chapter "Variable Guide Channel System".



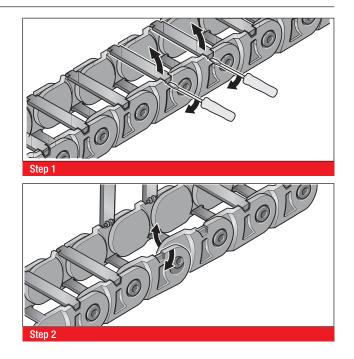
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ASSEMBLY



DISASSEMBLY



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