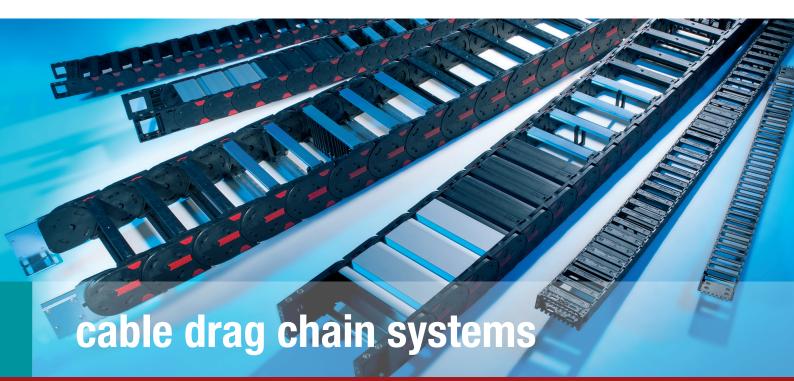
Cablul.ro





MP 10.1



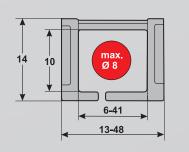


MP 10.1

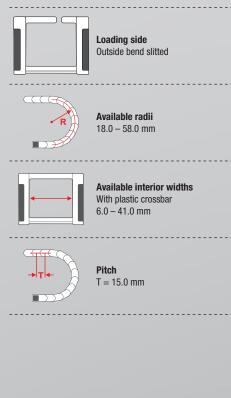
EASYLINE

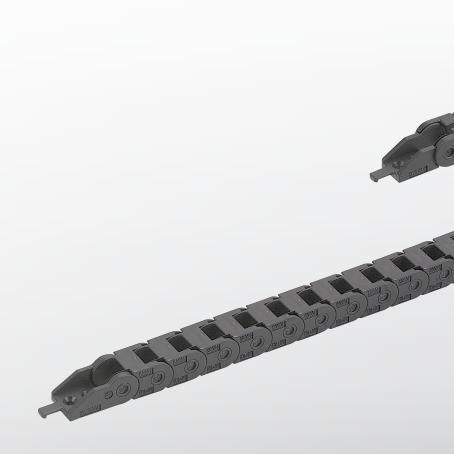


- EASY (FILL) MECHANISM
- CHAIN BRACKET WITH INTEGRATED STRAIN RELIEF
- CAN BE EASILY SHORTENED AND LENGTHENED
- VERY FLEXIBLE, HIGH TORSION



TECHNICAL DATA





MP 10.1 OPEN

TECHNICAL SPECIFICATIONS

Travel distance gliding L_{a} max.	10.0 m				
Travel distance self-supporting L, max.	see diagram on page 5				
Travel distance vertical, hanging L _{vh} max.	2.0 m				
Travel distance vertical, upright L _{vs} max.	1.0 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	According to 94 HB

Other material properties on request.

CHAIN BRACKET



Chain bracket U-part



MP 10.1 OPEN

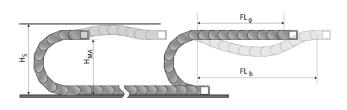
ORDERING KEY

Type code Variation	Inside width	Outside width	Inside width	Outside width	Radius	Rail variant	Material	Chain length
0101 22 Crossbar on outside bend Crossbar on inside bend Slotted on outside bend	006 ¹⁾ [0.24] 009 [0.35]	013 [0.51] 016 [0.63]			018 [0.71]	0 Plastic, full-ridged with bias	0 Polyamide standard (PA/black)	
	015 [0.59] 021 [0.83]	022 [0.87] 028 [1.10]			028 [1.10]		1 UL94 / V0 (PA/oxide red)	
	031 [1.22] 041 [1.61]	038 [1.50] 048 [1.89]			038 [1.50]		7 EMC (PA/light grey)	
					048 [1.89]		9 Special version (on request)	
					058 [2.28]			
					—	↓ ↓	•	
						-	-	
ORDERING EXAMPLE: 0101 22 006 018 0 0 1065 Crossbar in outside bend, crossbar in inside bend, slitted in outside bend								

Crossbar in outside bend, crossbar in inside bend, slitted in outside bend Plastic bridge, full-ridged with bias, material black-coloured polyamide Chain length 1065 mm (71 links)



SELF-SUPPORTING LENGTH

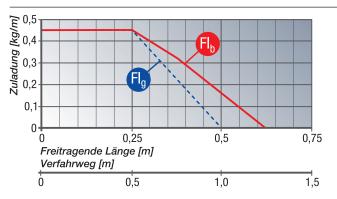


The self-supporting length is the distance between the chain bracket on the moving end and the start of the chain arch. The installation variant FL_g offers the lowest load and wear for the cable drag chain.

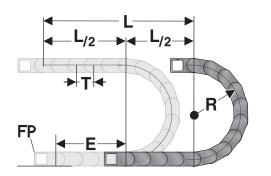
The maximum travel parameters (speed and acceleration) can be applied for this variant.

- H_s = Installation height plus safety
- H_{MA} = Height of moving end bracket
- FL_{g} = Self-supporting length, upper run straight
- $FL_{b} =$ 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 optimised by using a support for the upper run or a more stable cable drag chain.

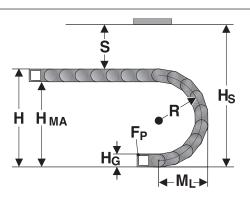
The fixed point of the cable drag chain should be connected in the middle of the travel distance.

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 = 67 qty. x 15.0 mm links.

- E = Distance between entry point and middle of travel distance
- L = Travel distance
- R = Radius
- T = Pitch 15.0 mm

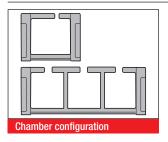
INSTALLATION DIMENSIONS



The moving end chain bracket 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	18	28	38	48	58
Outside height of chain link (H_g)	14	14	14	14	14
Height of bend (H)	50	70	90	110	130
Height of moving end bracket (H _{MA})	36	56	76	96	116
Safety margin (S)	10	10	10	10	10
Installation height (H _s)	60	80	100	120	140
Arc projection (M _L)	40	50	60	70	80

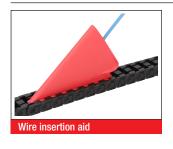
MP 10.1 CHAMBER SIZE



Depending on chain width, the MP10.1 is fitted with one, two, three or four chambers. This system of chambers enables cabling to be laid separately.

Туре	Number of chambers qty.	Chamber width mm
10.1 006	1	6.5
10.1 009	1	9.5
10.1 015	1	15.5
10.1 021	2	9.5
10.1 031	3	9.5
10.1 041	4	9.0

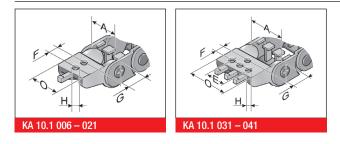
WIRE INSERTION AID



The wire insertion tool facilitates the quick and simple insertion of cables and conduits into the cable drag chain.

Туре	Order No.
KE	83729010

CHAIN BRACKET U-PART KA 10.1

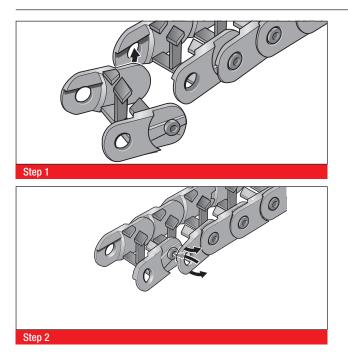


The chain bracket is an all-plastic part. The bracket is precisely adjusted to the respective chain width and only needs to be snapped in at the chain link. Please order one male and one female end bracket for each chain. The brackets should be fastened with M3 screws. The cables or conduits may be fastened with cable ties on the integrated strain relief of the chain bracket.

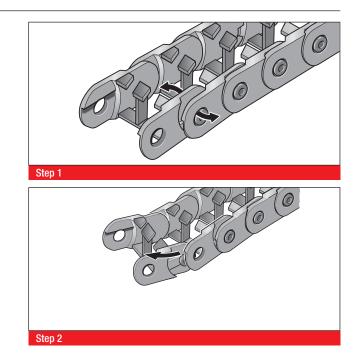
Туре	Order No.	Material	Inside width A mm	E mm	F mm	G mm	HØ mm	Outside width KA O mm
KA 10.1 006 Female end	010100005000	Plastic	6.0		8.0	11.0	3.2	A+7.0
KA 10.1 006 Male end	010100005100	Plastic	6.0		8.0	11.0	3.2	A+7.0
KA 10.1 009 Female end	010100005200	Plastic	9.0		8.0	11.0	3.2	A+7.0
KA 10.1 009 Male end	010100005300	Plastic	9.0		8.0	11.0	3.2	A+7.0
KA 10.1 015 Female end	010100005400	Plastic	15.0		8.0	11.0	3.2	A+7.0
KA 10.1 015 Male end	010100005500	Plastic	15.0		8.0	11.0	3.2	A+7.0
KA 10.1 021 Female end	010100005600	Plastic	21.0		8.0	11.0	3.2	A+7.0
KA 10.1 021 Male end	010100005700	Plastic	21.0		8.0	11.0	3.2	A+7.0
KA 10.1 031 Female end	010100005800	Plastic	31.0	A-9.0	8.0	11.0	3.2	A+7.0
KA 10.1 031 Male end	010100005900	Plastic	31.0	A-9.0	8.0	11.0	3.2	A+7.0
KA 10.1 041 Female end	010100006000	Plastic	41.0	A-9.0	8.0	11.0	3.2	A+7.0
KA 10.1 041 Male end	010100006100	Plastic	41.0	A-9.0	8.0	11.0	3.2	A+7.0



ASSEMBLY



DISASSEMBLY



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