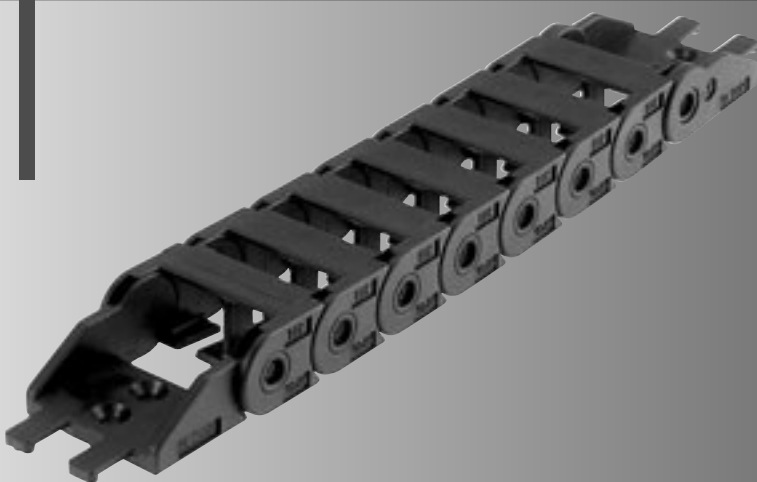


CABLE DRAG CHAIN SYSTEMS

EasyLine

MP 10.1





MP 10.1 - EasyLine

Order variants

Style (order code)					
Configuration (order code)					
Radius (order code)					
in mm					
Internal width (order code)					
in mm					
External width					
in mm					
MP 10.1 006	13	6	006		
MP 10.1 016	16	9	009	18	018
MP 10.1 022	22	15	015	28	028
MP 10.1 028	28	21	021	38	038
MP 10.1 038	38	31	031	48	048
MP 10.1 048	48	41	041	58	058
					0
					7
					9
					0

Order number:

Configuration:
0 crossbar every link; w/bias

Style:
0 Standard (PA)
7 ESD (PA)
9 Special version

Sample order
0101 006 018 0000

Inside width = 6 mm
Radius = 18 mm
Configuration = 0
Style = 0

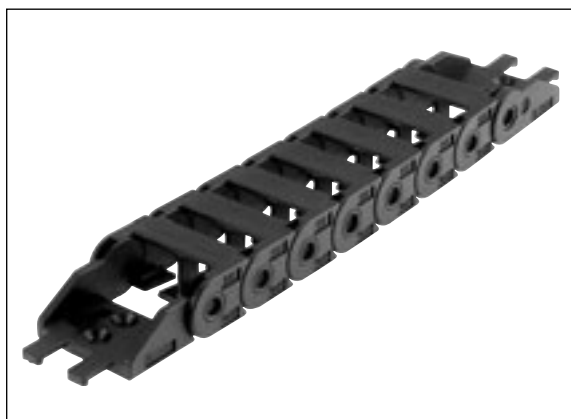
Ideal operating conditions

- EASY mechanism for simple filling
- Quiet operation
- Unsupported arrangement
- Gliding arrangement

Alternative chain type

- MP 14 / MP 15
Longer unsupported lengths
Higher level of stiffness and torsional strength

Features



Radii with medium bias (R) for all applications



ESD cable drag chains for use in areas at risk of explosion



Cable insertion aid to simplify loading of EasyLine



EASY opening mechanism for easy loading



Permanently integrated separators for safe cable guidance



Chain bracket with integrated strain relief

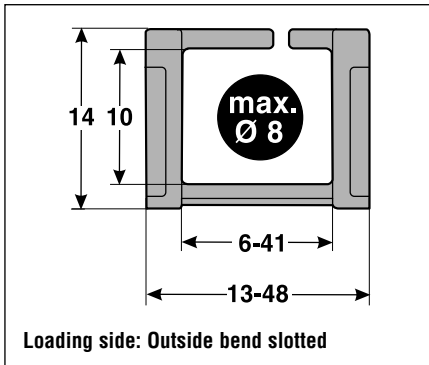


ESD cable drag chains for use in areas of electrostatic discharge

MP 10.1 - EasyLine

Technical data

Chain link dimensions



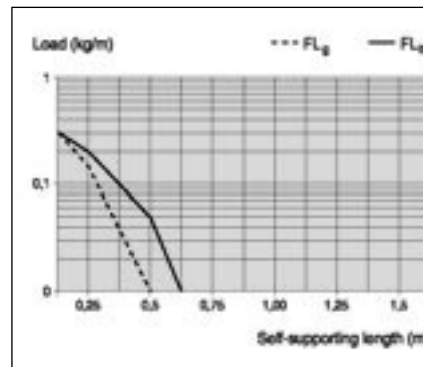
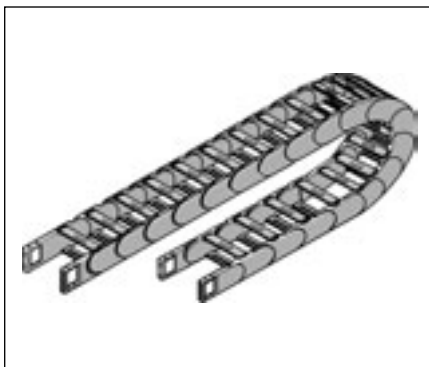
Material properties

Service temperature:	-30 to 120 °C
Gliding friction factor:	0.30
Static friction factor:	0.45
Fire classification:	in conformity with UL94 HB
ESD material:	CE Ex II 2 GD
Other material properties on request	

Technical specifications

Travel distance, gliding, L_g :	10 m
Travel distance, self-supporting, L_s :	see diagram
Travel distance, vertical, hanging, L_{vh} :	2 m
Travel distance, vertical, upright, L_{vu} :	1 m
Rotated 90°, self-supporting, L_{sq} :	not recommended
Speed, gliding, V_g :	2 m/s
Speed, self-supporting, V_s :	4 m/s
Acceleration, gliding, a_g :	2 m/s ²
Acceleration, self-supporting a_s :	2 m/s ²

Unsupported length

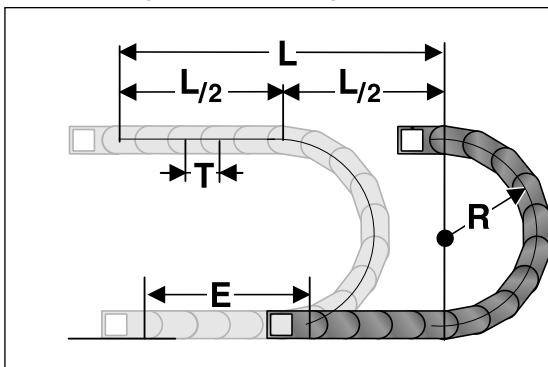


FL_g:
Ideal installation situation for high stresses at the limit of the max. travel parameters. In this range the chain upper run is still biased, straight or has a max. sag of 10 – 50 mm depending on the type of chain.

FL_s:
Satisfactory installation position for many applications working in the lower to middle range of the max. travel parameters. Depending on the chain type, the sag of the chain upper run is > 10 – 50 mm but less than the max. sag.

If the sag is greater than FL_s, the arrangement is unsuitable and should be avoided. Please choose a more stable murrplastik cable drag chain.

Determining the chain length



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

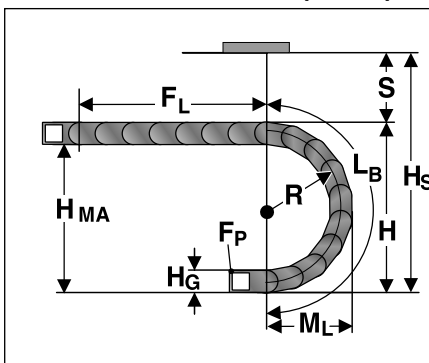
Determining the chain length

$$\text{Length} = \frac{L}{2} + \pi \times R + 2 \times T + E$$

≈ 1 m chain = 67 x 15 mm links

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.

Installation dimensions (in mm)

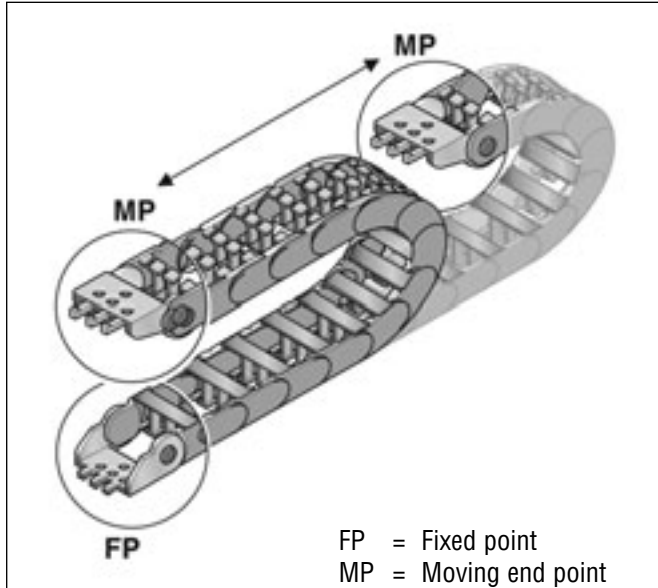


Radius R	18	28	38	48	58
Outside height of chain link (H_c)	14	14	14	14	14
Height of bend (H)	50	70	90	110	130
Height of moving end connection (H_{MA})	36	56	76	96	116
Safety margin (S)	10	10	10	10	10
Installation height (H_s)	60	80	100	120	140
Arc projection (M_l)	40	50	60	70	80
Bend length (L_b)	94	125	156	188	219

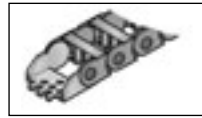


MP 10.1 - EasyLine

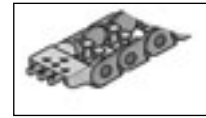
Chain bracket



Chain bracket



Bottom



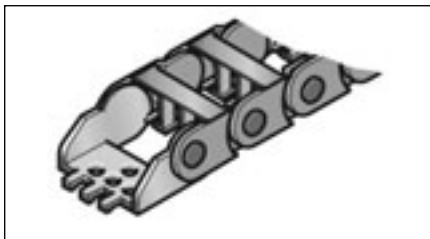
Top

Chain bracket

Type

Order no.

Pack



KA 10.1 006 Female end	010100005000	1
KA 10.1 006 Male end	010100005100	1
KA 10.1 009 Female end	010100005200	1
KA 10.1 009 Male end	010100005300	1
KA 10.1 015 Female end	010100005400	1
KA 10.1 015 Male end	010100005500	1
KA 10.1 021 Female end	010100005600	1
KA 10.1 021 Male end	010100005700	1
KA 10.1 031 Female end	010100005800	1
KA 10.1 031 Male end	010100005900	1
KA 10.1 041 Female end	010100006000	1
KA 10.1 041 Male end	010100006100	1

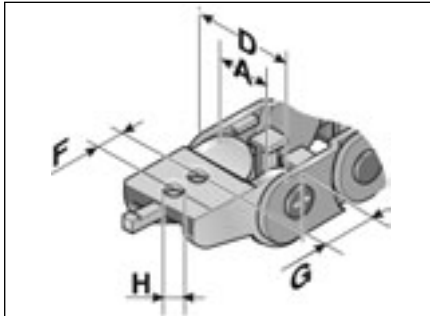
The chain bracket is an all plastics part. The bracket is precisely adjusted to the respective chain width and only needs to be snapped in at the chain link. Please order one male and one female end bracket for each chain. The brackets should be fastened with M3 screws.

The cables or conduits may be fastened with cable ties on the chain bracket's integrated strain relief.

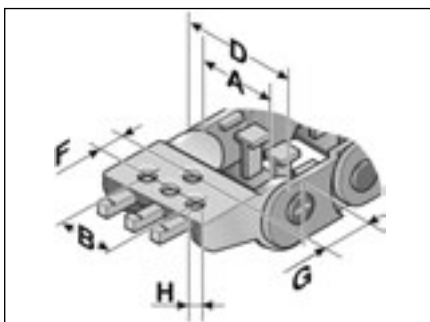
MP 10.1 - EasyLine

Chain bracket

Dimensions in mm



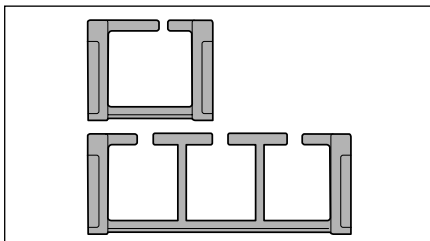
Type	A	D	F	G	H Ø
KA 10.1 006	6.0	13.5	8.0	11.0	3.2
KA 10.1 009	9.0	16.5	8.0	11.0	3.2
KA 10.1 015	15.0	22.5	8.0	11.0	3.2
KA 10.1 021	21.0	28.5	8.0	11.0	3.2



Type	A	B	D	F	G	H Ø
KA 10.1 031	31.0	22.0	38.5	8.0	11.0	3.2
KA 10.1 041	41.0	32.0	48.5	8.0	11.0	3.2

Chamber size MP 10.1

Type Number of chambers Chamber width



Chamber size

10.1 006	1	6.5 mm
10.1 009	1	9.5 mm
10.1 015	1	15.5 mm
10.1 021	2	9.5 mm
10.1 031	3	9.5 mm
10.1 041	4	9.0 mm

Wire insertion aid

Type Order no. Description Pack



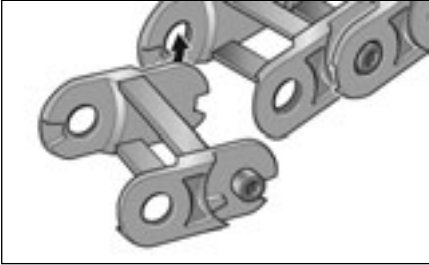
KE	83729010	KE wire insertion aid	1
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The wire insertion aid facilitates quick and simple installation of cables in the cable chain openings.

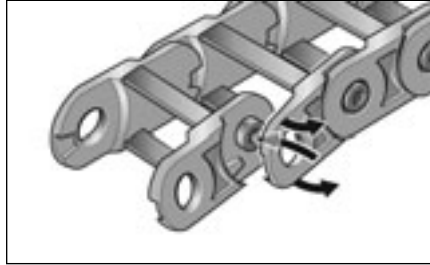


MP 10.1 - EasyLine

Assembly

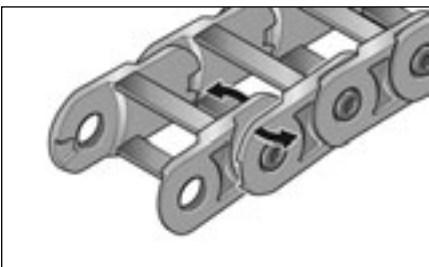


Step 1

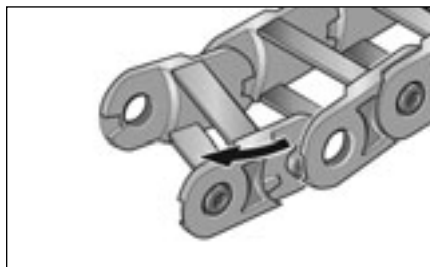


Step 2

Disassembly



Step 1



Step 2