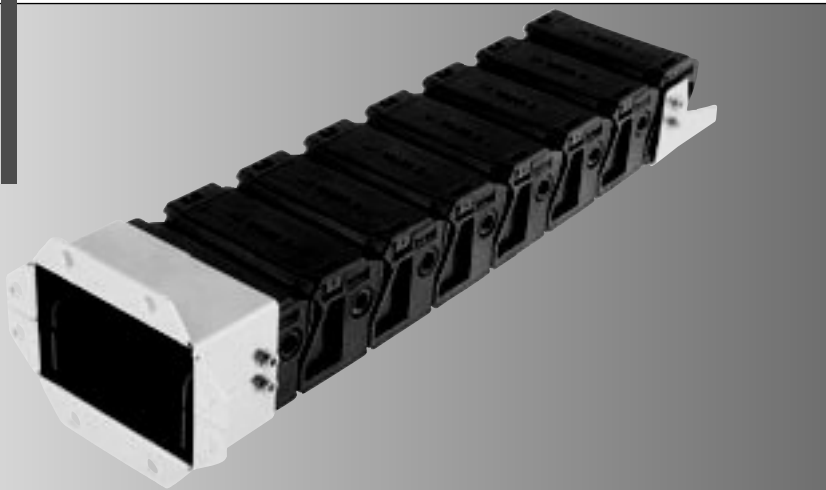


## CABLE DRAG CHAIN SYSTEMS



*SafeLine*

**MP 36 G**



# MP 36 G - SafeLine

## Order variants

Style (order code)									
Configuration (order code)									
Radius (order code)									
in mm									
Internal width (order code)									
in mm									
External width									
in mm									
MP36 062	82	62	062	80	080				
MP36 086	106	86	086	100	100				
MP36 102	122	102	102	125	125				
MP36 125	145	125	125	150	150				
				200	200			0	9

Order number:	0360			0			0
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### Configuration:

0 crossbar every link; w/bias

### Style:

0 Standard (PA)  
9 Special version

### Sample order

0360 062 080 0000

Inside width = 62 mm

Radius = 80 mm

Configuration = 0

Style = 0

### Ideal operating conditions

- Compact dimensions with opening cover in inside bend
- Quiet operation
- High stability
- Flexible internal separation

### Alternative chain type

- MP 35 Open version

## Features



Folding cover for closed cable drag chains



Radii with medium bias (R) for all applications



Integratable separator for cable separation



Flange connection for closed cable drag chains



Plug-in shelf system for reliable cable guidance



ZL strain relief plate

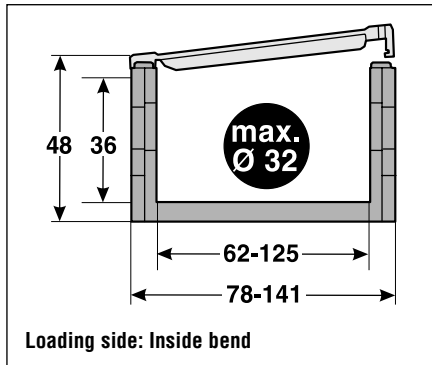


Chain bracket metal profile

# MP 36 G - SafeLine

## Technical data

### Chain link dimensions



### Material properties

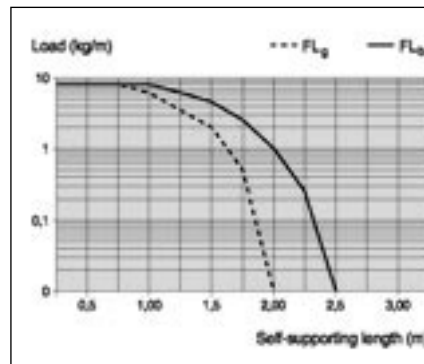
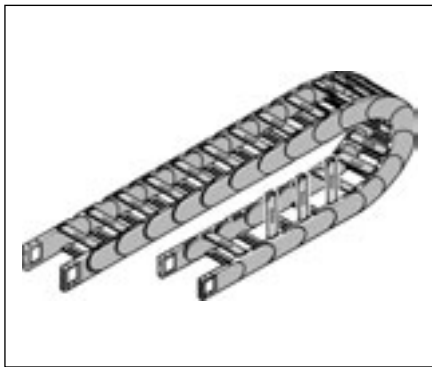
Service temperature: -30 to +120 °C  
 Gliding friction factor: 0.30  
 Static friction factor: 0.45  
 Fire classification: in conformity with UL94 HB

Other material properties on request

### Technical specifications

Travel distance, gliding,  $L_g$ : 60 m  
 Travel distance, self-supporting,  $L_s$ : see diagram  
 Travel distance, vertical, hanging,  $L_{vh}$ : 30 m  
 Travel distance, vertical, upright,  $L_{vu}$ : 3 m  
 Rotated 90°, self-supporting,  $L_{sg}$ : 1 m  
 Speed, gliding,  $V_g$ : 3 m/s  
 Speed, self-supporting,  $V_s$ : 10 m/s  
 Acceleration, gliding,  $a_g$ : 15 m/s<sup>2</sup>  
 Acceleration, self-supporting,  $a_s$ : 20 m/s<sup>2</sup>

### Unsupported length



#### $FL_g$ :

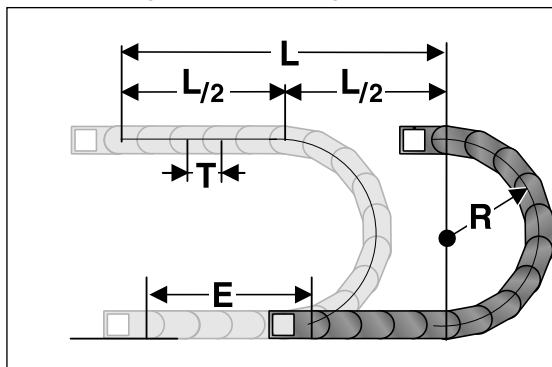
Ideal installation situation for high stresses at the limit of the max. travel parameters. In this range the chain upper run is still biased, straight or has a max. sag of 10 – 50 mm depending on the type of chain.

#### $FL_s$ :

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



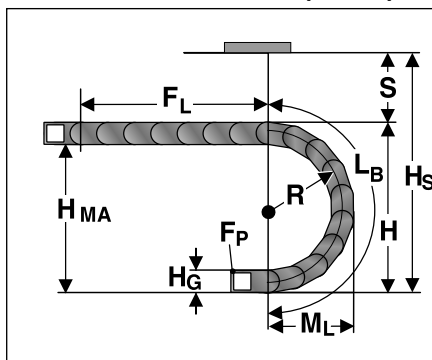
#### Determining the chain length

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

$$\approx 1 \text{ m chain} = 25 \times 40 \text{ mm links}$$

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)

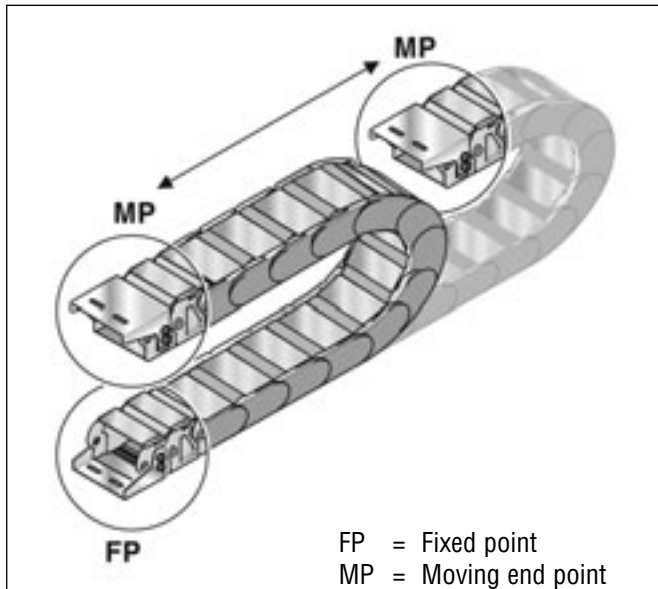


Radius R	80	100	125	150	200
Outside height of chain link ( $H_c$ )	48	48	48	48	48
Height of bend (H)	208	248	298	348	448
Height of moving end connection ( $H_{MA}$ )	160	200	250	300	400
Safety margin (S)	32	32	32	32	32
Installation height ( $H_b$ )	240	280	330	380	480
Arc projection ( $M_L$ )	144	164	189	214	264
Bend length ( $L_b$ )	367	429	508	586	743



# MP 36 G - SafeLine

## Chain bracket



### Chain bracket U-part



Top

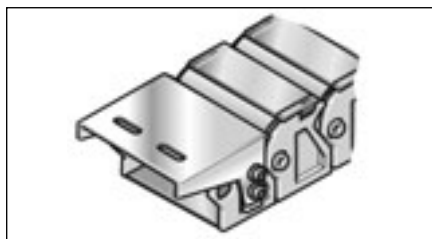


Bottom

### Chain bracket flange



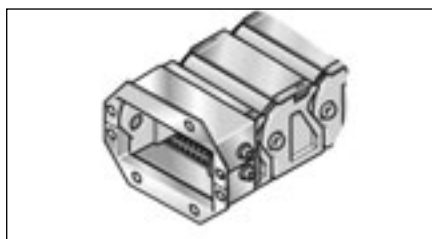
## Chain bracket U-part



Type	Order no.	Material	Pack
KA 36062	0360062050	Steel plate	1
KA 36086	0360086050	Steel plate	1
KA 36102	0360102050	Steel plate	1
KA 36125	0360125050	Steel plate	1
KA 36062	0360062052	Stainless steel 1.4301	1
KA 36086	0360086052	Stainless steel 1.4301	1
KA 36102	0360102052	Stainless steel 1.4301	1
KA 36125	0360125052	Stainless steel 1.4301	1

A cable drag chain requires two chain brackets.  
The U-shaped bracket offers two different fastening options.

## Chain bracket flange



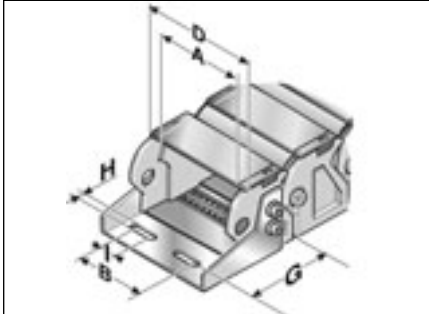
Type	Order no.	Material	Pack
FL 36062	0360062054	Steel plate	1
FL 36086	0360086054	Steel plate	1
FL 36102	0360102054	Steel plate	1
FL 36125	0360125054	Steel plate	1
FL 36062	0360062056	Stainless steel 1.4301	1
FL 36086	0360086056	Stainless steel 1.4301	1
FL 36102	0360102056	Stainless steel 1.4301	1
FL 36125	0360125056	Stainless steel 1.4301	1

A cable drag chain requires two chain brackets. The flange connection is divisible for the purposes of operation and re-installation. This design keeps the chain secured in the installed position.

# MP 36 G - SafeLine

## Chain bracket U-part

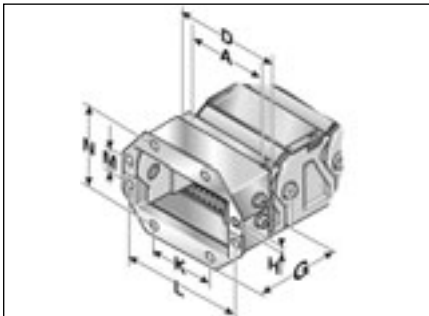
Dimensions in mm



Type	A	B	D	G	H Ø	I
KA 36062 Female end	62.00	53.90	80.90	55.60	6.60	15.00
KA 36062 Male end	62.00	53.90	80.90	64.40	6.60	15.00
KA 36086 Female end	86.00	77.90	104.90	55.60	6.60	15.00
KA 36086 Male end	86.00	77.90	104.90	64.40	6.60	15.00
KA 36102 Female end	102.00	93.90	120.90	55.60	6.60	15.00
KA 36102 Male end	102.00	93.90	120.90	64.40	6.60	15.00
KA 36125 Female end	125.00	116.90	143.90	55.60	6.60	15.00
KA 36125 Male end	125.00	116.90	143.90	64.40	6.60	15.00

## Chain bracket flange

Dimensions in mm



Type	A	D	G	H Ø	K	L	M	N
FL 36062 Female end	62.00	81.00	51.60	7.00	40.00	97.90	18.00	68.50
FL 36062 Male end	62.00	81.00	60.40	7.00	40.00	97.90	18.00	68.50
FL 36086 Female end	86.00	105.00	51.60	7.00	64.00	121.90	18.00	68.50
FL 36086 Male end	86.00	105.00	60.40	7.00	64.00	121.90	18.00	68.50
FL 36102 Female end	102.00	121.00	51.60	7.00	80.00	137.90	18.00	68.50
FL 36102 Male end	102.00	121.00	60.40	7.00	80.00	137.90	18.00	68.50
FL 36125 Female end	125.00	144.00	51.60	7.00	103.00	160.90	18.00	68.50
FL 36125 Male end	125.00	144.00	60.40	7.00	103.00	160.90	18.00	68.50



# MP 36 G - Accessories

Separator	Type	Order no.	Description	Pack
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Separator

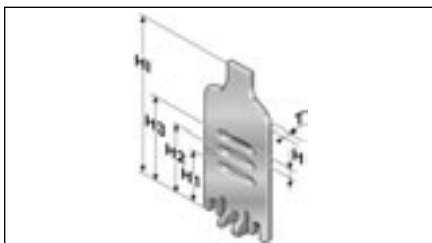
TR 36G	036000009200	Separator	1
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Lock grid spacing 2.50 mm

We recommend that separators are used if multiple round cables or conduits with differing diameters are to be installed. An offset configuration of the separators is advisable.

Type	Dimensions in mm					
	TI	H	H1	H2	H3	HI

TR 36G	2.50	2.50	13.50	19.50	25.50	36.50
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Separator

Shelving system	Type	Order no.	Description	Width in mm	Pack
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Shelving system

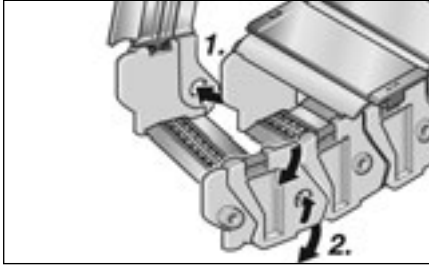
RB 062	100000006200	RB 062 Shelf	62	1
RB 086	100000008600	RB 086 Shelf	86	1
RB 101	100000010100	RB 101 Shelf	101	1
RB 125	100000012500	RB 125 Shelf	125	1

Lock grid spacing 2.50 mm

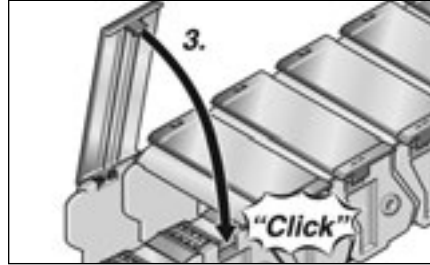
The shelf must be used with a minimum of two separators to create a shelving system. The additional levels prevent cables from criss-crossing and therefore destroying each other, whilst also avoiding excessive friction. The shelves are matched to the available chain widths.

# MP 36 G - SafeLine

## Assembly



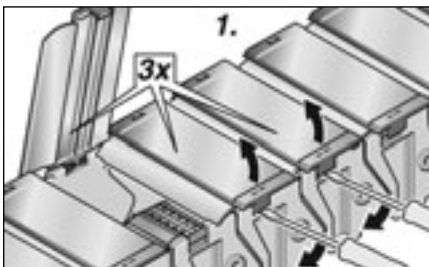
Step 1



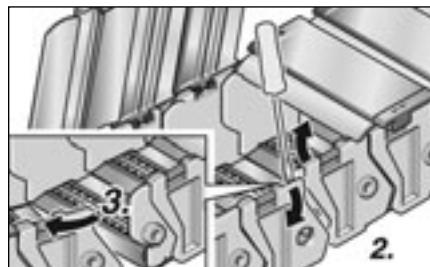
Step 2

The covers overlap with closed cable drag chains. Opening of the chain can only start from the chain's end.

## Disassembly



Step 1



Step 2