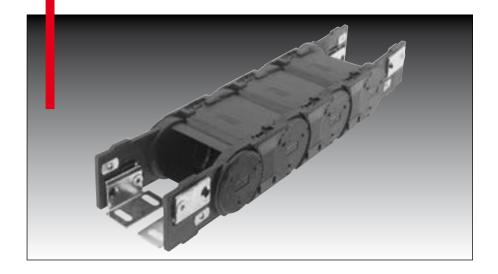


Cable drag chain systems



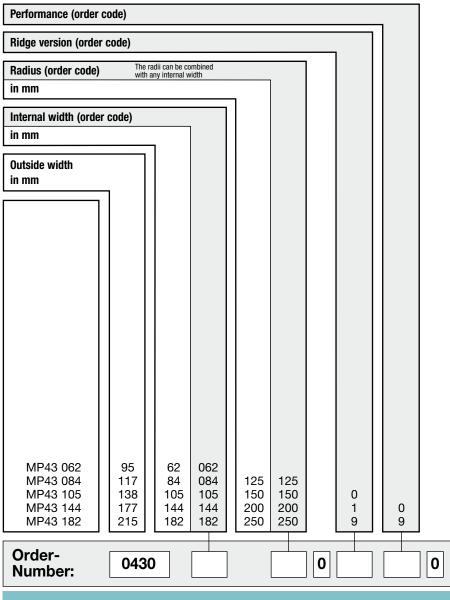
MultiLine

MP 43 G



MP 43 G - MultiLine

Order variants



Ridge version:

- 0 PA full-ridged with bias
- 1 PA full-ridged without bias
- 9 Custom version

Version:

- 0 Standard (PA/black)
- 9 Custom version

Sample order:

0430 062 125 0000

Internal width = 62 mm Radius = 125 mm Ridge version = 0 Version = 0

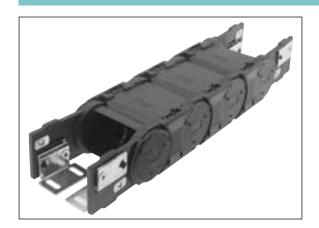
Ideal operating conditions:

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

Alternative chain type:

- MP 44 open version
- MP 36 G/MP 65 G Flange connection

Features





Chain bracket with variably positionable metal angle



Radii with or without bias (RK/RV)



Strain relief plate ZL



Frame bridge/cover can be removed from inside and outside flexure curve

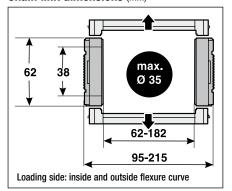


Plug-in shelf system for reliable cable guidance



Technical data

Chain link dimensions (mm)



Material characteristics standard (PA/black)

Service temperature: -30 to 120° C

Gliding friction factor: 0.30 Static friction factor: 0.45

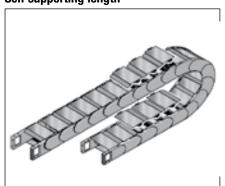
Fire classification: Based on UL94 HB

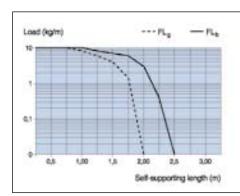
Other material properties on request

Technical specifications

Travel distance, gliding, La: 50 m Travel distance, self supporting, $L_{\mbox{\tiny f}}$: see diagram Travel distance, vertical, hanging, L_{vh}: 40 m Travel distance, vertical, upright, L_{vs} : 3 m Rotated 90°, self supporting, L_{onf}: 1 m Speed, gliding, V_q : 5 m/s Speed, self supporting, V_f: 15 m/s Acceleration, gliding, a_a: 15 m/s² Acceleration, self supporting, a,: 20 m/s²

Self supporting length





FL

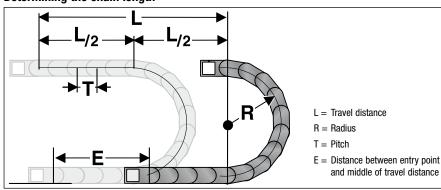
Ideal installation situation for high stresses at the limit of the max. travel parameters. In this range the chain upper run is still biased, straight or has a max. sag of 10-50~mm depending on the type of chain.

FL_b:

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 certainly less than the max. sag.

If the sag is greater than ${\rm FL_{\rm p}}$, the arrangement is unsuitable and should be avoided. Please choose a more stable Murrplastik cable drag chain.

Determining the chain length



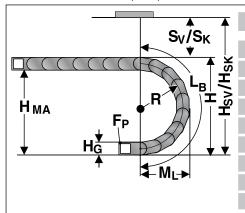
Determining the chain length

Length = $\frac{L}{2}$ + π x R + E

 \approx 1 m chain = 13 x 75.5 mm link

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.

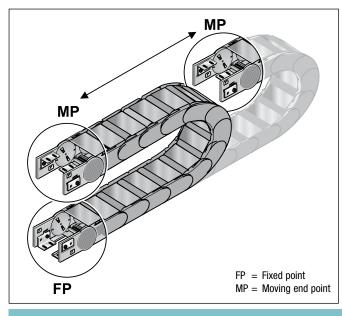
Installation dimensions (in mm)



Radius R	125	150	200	250	
Outside height of chain link (H _g)	62	62	62	62	
Height of bend (H)	312	362	462	562	
Height of moving end connection (H _{MA})	250	300	400	500	
Safety margin with bias (S _v)	38	38	38	38	
Installation height with bias (H _{sv})	350	400	500	600	
Safety margin without bias (S _k)	13	13	13	13	
Installation height without bias (H _{sk})	325	375	475	575	
Arc projection (M _L)	232	256	306	356	
Bend length (L _B)	565	644	801	958	



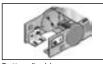
Chain bracket



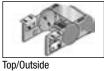
Chain bracket



Bottom/Outside



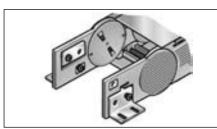
Bottom/Inside





Top/Inside

Chain bracket

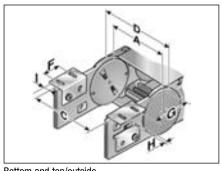


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Туре	Order no.	Material	Pack qty.
KA 44	0440000050	Sheet steel	1
KA 44	0440000052	Stainless steel 1.4301	1

There are several options regarding the chain bracket. The fixed-point bracket (inside/bottom) and the moving end bracket (inside/top) are supplied as standard. However, any other combination can be supplied upon request. The chain bracket is fastened at the end like a side link. This enables the chain to move right up to the bracket. Each chain requires two chain brackets. The brackets should be fastened with M6 screws.

Chain bracket

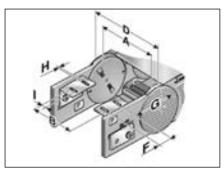


Bottom and top/outside

Туре	Α	C	D	F	G	ΗØ	I	
	mm	mm	mm	mm	mm	mm	mm	
KA 44	62.0	100.5	96.0	32.0	43.2	6.5	12.5	
KA 44	84.0	122.5	118.0	32.0	43.2	6.5	12.5	
KA 44	105.0	143.5	139.0	32.0	43.2	6.5	12.5	
KA 44	144.0	182.5	177.0	32.0	43.2	6.5	12.5	
KA 44	182.0	220.5	215.0	32.0	43.2	6.5	12.5	



Chain bracket



Туре	A	В	D	F	G	ΗØ	ı	
	mm	mm	mm	mm	mm	mm	mm	
KA 44	62.0	47.5	96.0	32.0	43.2	6.5	12.5	
KA 44	84.0	69.5	118.0	32.0	43.2	6.5	12.5	
KA 44	105.0	90.5	139.0	32.0	43.2	6.5	12.5	
KA 44	144.0	129.5	177.0	32.0	43.2	6.5	12.5	
KA 44	182.0	167.5	215.0	32.0	43.2	6.5	12.5	

Bottom and top/inside

Separator



Separator

Туре	Order no.	Designation	Pitch mm	Pack qty.
TF 43	0430000090	Separator	1.6	1

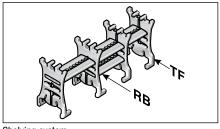
We recommend that moveable separators are used if multiple round cables or conduits with differing diameters are to be installed. An offset configuration of the separators is advisable. When the frame bridge is opened, the separator is guaranteed to remain solidly mounted on one side.



Separator

Туре	TI	Н	H1	H2	Н3	HI		
	mm	mm	mm	mm	mm	mm		
TF 43	4.0	4.3	12.3	19.5	26.5	38.0		

Shelving system



Shelving system

Туре	Order no.	Designation	Width	Pitch	Pack
			mm	mm	qty.
RB 031	100000003100	RB 031 Shelf	31	1.6	1
RB 048	100000004800	RB 048 Shelf	48	1.6	1
RB 070	100000007000	RB 070 Shelf	70	1.6	1
RB 092	100000009200	RB 092 Shelf	92	1.6	1
RB 128	100000012800	RB 128 Shelf	128	1.6	1
RB 167	100000016700	RB 167 Shelf	167	1.6	1

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 43 G - Accessories

Assembly

Dismantling

