

PROTUM

Small, light cable carrier for unsupported applications

- Low vibration and quiet operation
- Optimal for short travel lengths and high travel speeds
- Gentle on the cables, since there is almost no polygon effect

Very long life –
no hinges and hence
no hinge wear

Solid plastic cable carrier

Connectors
with strain relief comb



Very good ratio of useful space
to outer dimensions

Simple insertion
of the cables



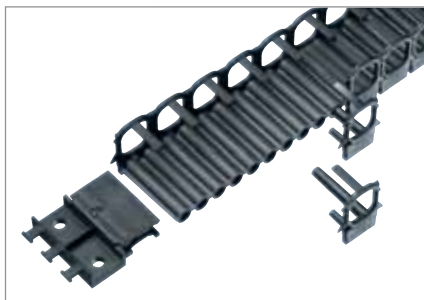
Less expense –
lower costs thanks
to simple cable laying

Even pre-assembled cables can simply be inserted. The cables can easily be changed during service and maintenance work. For you this means lower costs.

The basic construction

The basis of the PROTUM cable carrier system is an extruded band onto which lightweight side parts are attached.

It can easily be extended by attaching additional bands and corresponding side parts and shortened simply by cutting through the band with a knife.



PROTUM OFFICE – P 0240 GS

Based upon the PROTUM cable carrier system, this variant has been adapted for use in office areas.

The inner width and the possibility of double occupancy provide sufficient space for cables in office areas, i.e. for telecommunications, energy and data cables.

The link-free construction also serves as a design feature, with silver-grey, elegant-looking side walls.



Inside heights
15
20

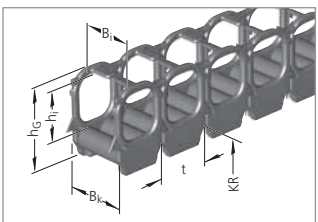
Inside widths
15
40

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Types P 0160 and P 0240



Dimensions and intrinsic chain weight

Type	h _i	h _G	Inside widths B _i Intrinsic chain weight			B _k	For cable-Ø
P 0160	15	25	15 0.14	20 0.16	30 0.21	B _i + 4	10
P 0240	20	31	20 0.18	30 0.22	40 0.27	B _i + 5	15

Dimensions in mm/Weights in kg/m

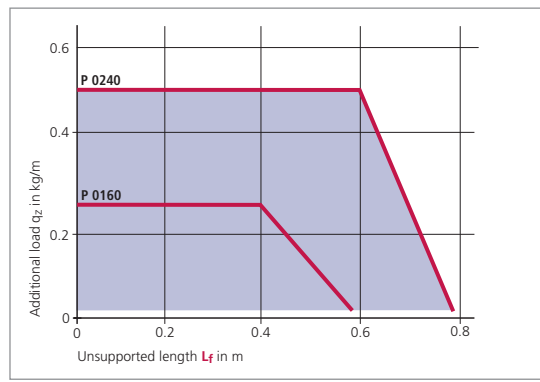
Bend radius and pitch

Type	Bend radii KR mm			
P 0160	18	28	38	48
P 0240	27	42	57	72

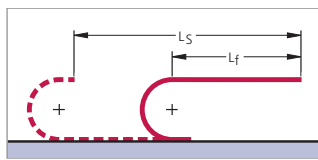
Pitch:
P 0160: t = 16 mm
P 0240: t = 24 mm

Load diagram

for unsupported length L_f depending on the additional load



Unsupported length L_f



In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application. We are at your service to advise on these applications.

Example of ordering

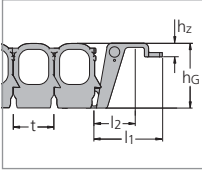
Cable carrier					Connection
P 0240	010	30	42	380	FA/MA
Type	Design*	Inside width Bi in mm	Bend radius KR in mm	Chain length Lk in mm (without connection)	Connection Fixed point/Driver

* Design 010 (simple insertion of the cables)

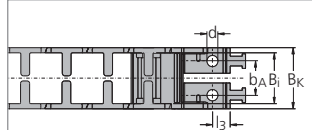
Types P 0160 and P 0240

Plastic connectors with integrated strain relief

Connection dimensions – connection on the outside

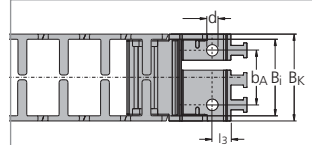


The dimensions of the fixed point and driver connections are identical.



For Type

P 0160: $B_i = 15, 20$ P 0240: $B_i = 20$



For Type

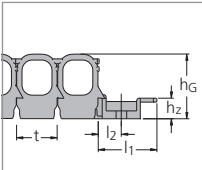
P 0160: $B_i = 30$ P 0240: $B_i = 30, 40$

Type	B_i	B_k	b_A	d	l_1	l_2	l_3	h_z	h_G
P 0160	15	$B_i + 4$	11	4.2	33.6	19.5	7.5	6.5	25
	20		14						
	30		22						
P 0240	20	$B_i + 5$	14	4.2	33.6	19.5	7.5	6.5	31
	30		22						
	40		32						

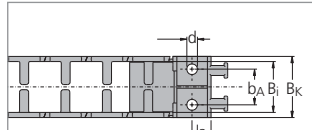
Plastic connecting elements with strain relief combs

Dimensions in mm

Connection dimensions – connection on the inside

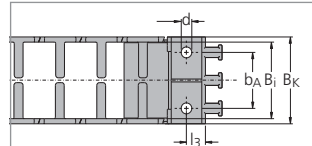


The dimensions of the fixed point and driver connections are identical.



For Type

P 0160: $B_i = 15, 20$ P 0240: $B_i = 20$



For Type

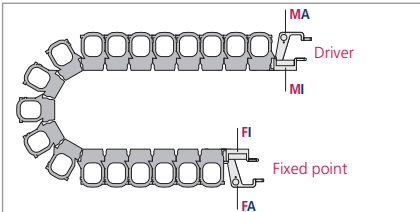
P 0160: $B_i = 30$ P 0240: $B_i = 30, 40$

Type	B_i	B_k	b_A	d	l_1	l_2	l_3	h_z	h_G
P 0160	15	$B_i + 4$	11	4.2	23	7.5	7.5	8	25
	20		14						
	30		22						
P 0240	20	$B_i + 5$	11	4.2	23	7.5	7.5	8	31
	30		22						
	40		32						

Plastic connecting elements with strain relief combs

Dimensions in mm

Connection variants



Connection point

- M – Driver
- F – Fixed point

Connection type

- I – Threaded joint, inside
- A – Threaded joint, outside

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Inside heights



Inside widths

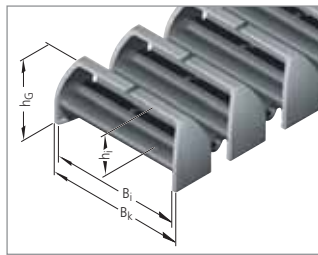


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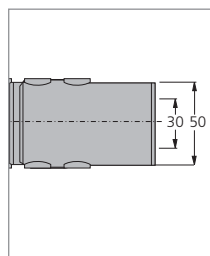
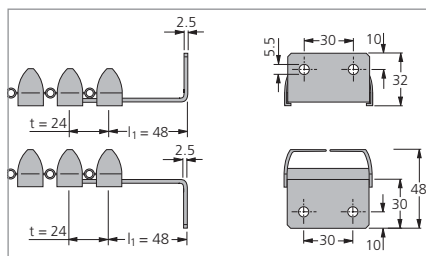
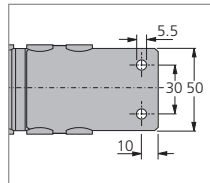
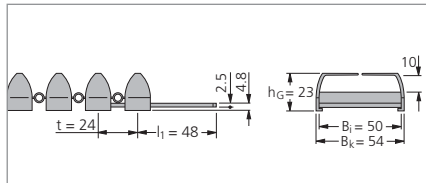
Dimensions and intrinsic chain weight

Type	h_i	h_G	B_i	B_k	For cable-Ø
P 0240 GS	10	23	50	54	3 – 9

Dimensions in mm



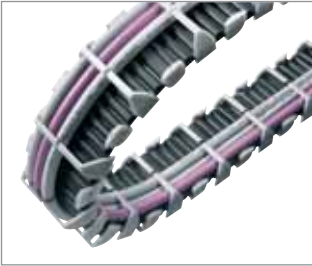
Connectors



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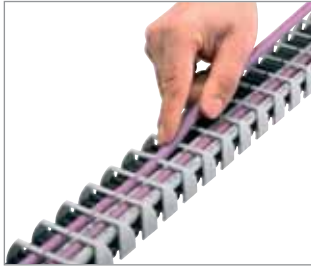
PROTUM OFFICE – P 0240 GS

Laying on both sides



- Where more of space is needed, the take-up capacity can be doubled by laying the cables on both sides. In this case every second side-part is simply attached the other way round.

Fast laying



- Simple insertion of the cables.

Application examples



- Photographs: Haworth Büroeinrichtungen GmbH