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

Connectors with strain relief comb

Very long life — no hinges and hence no hinge wear

Very good ratio of useful space to outer dimensions

Solid plastic cable carrier

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.

Specifications are subject to change without notice.
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KSA-L15015-GC

Self-Supporting Lengths

Total Machine Travel \( (L_s) \)

Extended

Moving End

Retracted

Fixed End

\( t = \) Link Pitch

\( L_B = 3.14 \times KR + (2 \times t \text{ safety factor}) \)

\( L_K = \text{chain length required} \)

\( L_s = \frac{LS}{2} + \text{length of the curve} (L_B) \)

* Assumes the Fixed Point is located at the Center of the Total Machine Travel.

How To Order
1-800-443-4216

Number of Systems Req. \( \times \) Carrier Type \( \times \) Cavity Width \( (B_i) \) \( \times \) Bend Radius \( \times \) # of Links Length \( \times \) Type & Position Brackets \( \times \) Dividers (\#vert / \#horz)

3 \( \times \) P0160 \( \times \) 15 mm KR 28 \( \times \) 24 Links + FA/MI + not available for PROTUM

Technical Data

Series P 0160

<table>
<thead>
<tr>
<th>Option</th>
<th>Mounting Height</th>
<th>Bend Radius</th>
<th>Depot</th>
<th>Loop Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3.00 ( (76) )</td>
<td>0.71 ( (18) )</td>
<td>2.68 ( (68) )</td>
<td>3.49 ( (89) )</td>
</tr>
<tr>
<td>B</td>
<td>3.78 ( (96) )</td>
<td>1.10 ( (28) )</td>
<td>3.07 ( (78) )</td>
<td>4.72 ( (120) )</td>
</tr>
<tr>
<td>C</td>
<td>4.57 ( (116) )</td>
<td>1.50 ( (38) )</td>
<td>3.46 ( (88) )</td>
<td>5.96 ( (151) )</td>
</tr>
<tr>
<td>D</td>
<td>5.36 ( (136) )</td>
<td>1.89 ( (48) )</td>
<td>3.86 ( (98) )</td>
<td>7.19 ( (1.83) )</td>
</tr>
</tbody>
</table>

How To Order
1-800-443-4216

Dimensions in inches (mm)

Permissible sag:
In the case of longer travel lengths, sag of the cable carrier system is technically permissible depending on the application. Consult factory for more information.

Download 3D CAD files, videos, updated product info & much more at: www.kabelschlepp.com/protum.htm
Press-In Cable & Hose Installation Links - available widths

Series P 0160

- **P 0160.15**
  - Chain Weight: 0.09 lbs/ft (0.14 kg/m)
  - Connection dimensions:
    - \( l_1 \): 0.75 (19)
    - \( l_2 \): 0.98 (25)
    - \( l_3 \): 0.59 (15)

- **P 0160.20**
  - Chain Weight: 0.11 lbs/ft (0.16 kg/m)
  - Connection dimensions:
    - \( l_1 \): 0.94 (24)
    - \( l_2 \): 0.79 (20)
    - \( l_3 \): 0.59 (15)

- **P 0160.30**
  - Chain Weight: 0.14 lbs/ft (0.21 kg/m)
  - Connection dimensions:
    - \( l_1 \): 1.34 (34)
    - \( l_2 \): 1.18 (30)
    - \( l_3 \): 0.75 (19)

**Series P 0160 Strain Relief Mounting Brackets for mounting to surface on the I.D.**

- **Bracket Dimensions**
<table>
<thead>
<tr>
<th>Size</th>
<th>( B_i )</th>
<th>( B_k )</th>
<th>( B_a )</th>
<th>( d )</th>
<th>( l_1 )</th>
<th>( l_2 )</th>
<th>( l_3 )</th>
<th>( h_z )</th>
<th>( h_G )</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 0160.15</td>
<td>0.59 (15)</td>
<td>0.75 (19)</td>
<td>0.43 (11)</td>
<td>0.17 (4.2)</td>
<td>0.91 (23)</td>
<td>0.30 (7.5)</td>
<td>0.30 (7.5)</td>
<td>0.31 (8)</td>
<td>0.98 (25)</td>
</tr>
<tr>
<td>P 0160.20</td>
<td>0.79 (20)</td>
<td>0.94 (24)</td>
<td>0.55 (14)</td>
<td>0.17 (4.2)</td>
<td>0.91 (23)</td>
<td>0.30 (7.5)</td>
<td>0.30 (7.5)</td>
<td>0.31 (8)</td>
<td>0.98 (25)</td>
</tr>
<tr>
<td>P 0160.30</td>
<td>1.18 (30)</td>
<td>1.34 (34)</td>
<td>0.87 (22)</td>
<td>0.17 (4.2)</td>
<td>0.91 (23)</td>
<td>0.30 (7.5)</td>
<td>0.30 (7.5)</td>
<td>0.31 (8)</td>
<td>0.98 (25)</td>
</tr>
</tbody>
</table>

- **Bracket Dimensions**
  - Moving End
  - Fixed End

- **Cable and hose installation is quick and easy thanks to PROTUM's innovative press-in design feature.**

- **Specifications are subject to change without notice.**

Need help? 1-800-443-4216 or www.kabelschlepp.com
A product group’s EVA score is a general indicator that allows a customer to quickly and easily compare a product group’s basic price, features, capabilities and value relative to other comparably sized products within the KS product range.

Download 3D CAD files, videos, updated product info & much more at: www.kabelschlepp.com/protum.htm

### GENERAL DATA

| ECONOMIC VALUE ADDED | 3 |

Dimensions in inches (mm)

### Technical Data

#### Series

**P 0240**

<table>
<thead>
<tr>
<th>Mounting Height</th>
<th>Bend Radius</th>
<th>Depot</th>
<th>Loop Length</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H</strong></td>
<td><strong>KR</strong></td>
<td><strong>UB</strong></td>
<td><strong>LB</strong></td>
</tr>
<tr>
<td><strong>Option A</strong></td>
<td>4.15</td>
<td>1.06</td>
<td>3.86</td>
</tr>
<tr>
<td></td>
<td>(106)</td>
<td>(27)</td>
<td>(98)</td>
</tr>
<tr>
<td><strong>Option B</strong></td>
<td>5.33</td>
<td>1.65</td>
<td>4.45</td>
</tr>
<tr>
<td></td>
<td>(136)</td>
<td>(42)</td>
<td>(113)</td>
</tr>
<tr>
<td><strong>Option C</strong></td>
<td>6.52</td>
<td>2.24</td>
<td>5.04</td>
</tr>
<tr>
<td></td>
<td>(166)</td>
<td>(57)</td>
<td>(128)</td>
</tr>
<tr>
<td><strong>Option D</strong></td>
<td>7.70</td>
<td>2.83</td>
<td>5.63</td>
</tr>
<tr>
<td></td>
<td>(196)</td>
<td>(72)</td>
<td>(143)</td>
</tr>
</tbody>
</table>

**Self-Supporting Lengths**

<table>
<thead>
<tr>
<th>Additional Load</th>
<th>Unsupported Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>lbs ft</td>
<td>m</td>
</tr>
<tr>
<td>0.67</td>
<td>2.00</td>
</tr>
<tr>
<td>1.0</td>
<td>3.00</td>
</tr>
<tr>
<td>0.54</td>
<td>1.70</td>
</tr>
<tr>
<td>0.50</td>
<td>1.57</td>
</tr>
<tr>
<td>0.27</td>
<td>0.85</td>
</tr>
<tr>
<td>0.26</td>
<td>0.82</td>
</tr>
<tr>
<td>0.13</td>
<td>0.40</td>
</tr>
<tr>
<td>0.12</td>
<td>0.39</td>
</tr>
</tbody>
</table>

**Type P 0240**

**Permissible sag:**

In the case of longer travel lengths, sag of the cable carrier system is technically permissible depending on the application. Consult factory for more information.

**How To Order**

1-800-443-4216

<table>
<thead>
<tr>
<th>Number of Systems Req.</th>
<th>Carrier Type</th>
<th>Cavity Width</th>
<th>Bend Radius</th>
<th># of Links</th>
<th>Type &amp; Position Brackets</th>
<th>Dividers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>P0240</td>
<td>40 mm</td>
<td>KR 57</td>
<td>15 Links</td>
<td>FA/MA</td>
<td>not available for PROTUM</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Press-In Cable & Hose Installation Links - available widths

Series P 0240

**P 0240.20**
Chain Weight: 0.12 lbs/ft (0.18 kg/m)

**P 0240.30**
Chain Weight: 0.15 lbs/ft (0.22 kg/m)

**P 0240.40**
Chain Weight: 0.18 lbs/ft (0.27 kg/m)

Cable and hose installation is quick and easy thanks to PROTUM's innovative press-in cable installation design feature.

### Bracket Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>B₁</th>
<th>B₂</th>
<th>bₐ</th>
<th>d</th>
<th>l₁</th>
<th>l₂</th>
<th>l₃</th>
<th>h₂</th>
<th>h₃</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 0240.20</td>
<td>0.79 (20)</td>
<td>0.98 (25)</td>
<td>0.56 (14)</td>
<td>0.17 (4.2)</td>
<td>0.91 (23)</td>
<td>0.30 (7.5)</td>
<td>0.30 (7.5)</td>
<td>0.31 (8)</td>
<td>1.22 (31)</td>
</tr>
<tr>
<td>P 0240.30</td>
<td>1.18 (30)</td>
<td>1.38 (35)</td>
<td>0.87 (22)</td>
<td>0.17 (4.2)</td>
<td>0.91 (23)</td>
<td>0.30 (7.5)</td>
<td>0.30 (7.5)</td>
<td>0.31 (8)</td>
<td>1.22 (31)</td>
</tr>
<tr>
<td>P 0240.40</td>
<td>1.57 (40)</td>
<td>1.77 (45)</td>
<td>1.26 (32)</td>
<td>0.17 (4.2)</td>
<td>0.91 (23)</td>
<td>0.30 (7.5)</td>
<td>0.30 (7.5)</td>
<td>0.31 (8)</td>
<td>1.22 (31)</td>
</tr>
</tbody>
</table>

Connection dimensions for B₁ = 20

Connection dimensions for B₁ = 30 & 40

Bracket Dimensions

**PROTUM O.D. Mounting Bracket with integral strain relief**

M = Moving End  
F = Fixed End  
I = I.D. Mount  
A = O.D. Mount  
= Mounting Surface
The PROTUM OFFICE P 0240 GS cable management system is the ideal solution for cleaning up the tangled mess typically found behind office work stations. Both aesthetically striking and highly functional, PROTUM office is easy to install and maintain. Simply press cables into the system cavity.

### Mounting Bracket Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>hi</th>
<th>hG</th>
<th>B_i</th>
<th>B_k</th>
<th>For Cable Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 0240 GS</td>
<td>0.39 (10)</td>
<td>0.91 (23)</td>
<td>1.97 (50)</td>
<td>2.13 (54)</td>
<td>0.12 to 0.35 (3 to 9)</td>
</tr>
</tbody>
</table>

0.00 = inches

(00.00) = (mm)
By alternating the position of frame-stays, Office PROTUM can be configured to manage cables on both the inside and outside radius of the carrier system.

With simple press-in of cables into the link cavity, installation is both quick and easy.