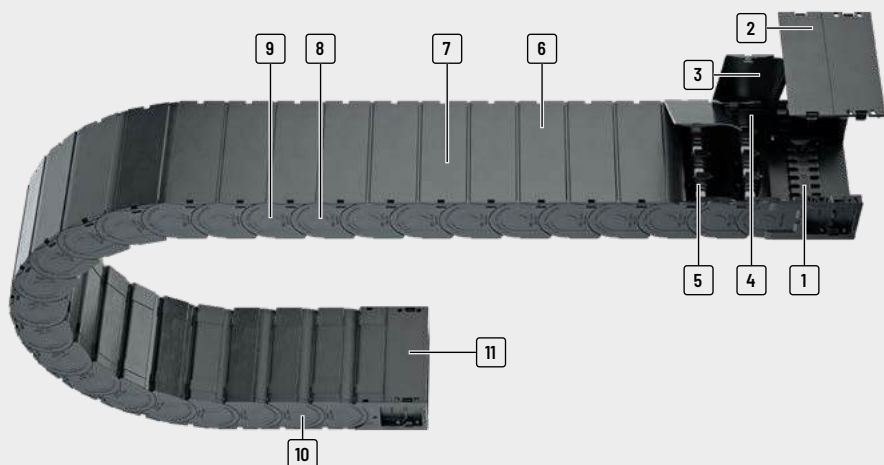


# UAT series

Extreme cable protection in harsh  
environmental conditions

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- |                                                 |                                                                         |                                                                                                |                                                                |
|-------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>1</b> Connectors with optional strain relief | <b>4</b> Gentle on the cables – interior space without projecting edges | <b>7</b> Secure hold of the covers also under heavy load (e.g. by the use of hydraulic cables) | <b>10</b> Very quiet thanks to integrated noise damping system |
| <b>2</b> Completely detachable covers           | <b>5</b> Dividers and height separations for cable separation           | <b>8</b> Chain links made of plastic                                                           | <b>11</b> Cover system also in the connection                  |
| <b>3</b> Easy and quick to open                 | <b>6</b> Designs with outward opening covers                            | <b>9</b> Extensive unsupported length                                                          |                                                                |

## Features

- » outstanding protection for the cables
- » quick cable laying – outside opening designs
- » very quiet thanks to internal noise damping system
- » large unsupported length
- » high-quality visual design
- » for unsupported and gliding arrangements
- » sliding surfaces with wear volume integrated in the inner cover



Simply unlock cover with a screwdriver



Detach the cover from the chain link



Divider system TS1



Optional strain relief comb – also placed on top of one another

PROTUM®  
series

K  
series

UNIFLEX  
Advanced  
series

M  
series

TKIP  
series

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series

| PROTUN® series          | Type    | Opening variant | Stay variant | $h_i$<br>[mm] | $h_G$<br>[mm] | $B_i$<br>[mm] | $B_k$<br>[mm] | $B_i$ -<br>grid<br>[mm] | t<br>[mm] | KR<br>[mm] | Additional<br>load<br>≤ [kg/m] | Cable-<br>d <sub>max</sub><br>[mm] |
|-------------------------|---------|-----------------|--------------|---------------|---------------|---------------|---------------|-------------------------|-----------|------------|--------------------------------|------------------------------------|
|                         |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| K series                | UAT1555 |                 |              |               |               |               |               |                         |           |            |                                |                                    |
|                         |         |                 | 080          | 50            | 69            | 75 - 175      | Bi + 21       | -                       | 55.5      | 100 - 300  | 15                             | 40                                 |
| UNIFLEX Advanced series |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| M series                |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| TKHP series             |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| XL series               |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| QUANTUM® series         |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| TKR series              |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |
| TKA series              |         |                 |              |               |               |               |               |                         |           |            |                                |                                    |

| Unsupported arrangement                                                          |                                                                                   |                                                                                   | Gliding arrangement                                                               |                                                                                   |                                                                                   | Inner Distribution                                                                |                                                                                   |                                                                                   |                                                                                   | Movement                                                                          |                                                                                   |                                                                                   | Page |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Travel length<br>≤ [m]                                                           | $v_{max}$<br>≤ [m/s]                                                              | $a_{max}$<br>≤ [m/s <sup>2</sup> ]                                                | Travel length<br>≤ [m]                                                            | $v_{max}$<br>≤ [m/s]                                                              | $a_{max}$<br>≤ [m/s <sup>2</sup> ]                                                | TS0                                                                               | TS1                                                                               | TS2                                                                               | TS3                                                                               | vertical hanging<br>or standing                                                   | lying on the side                                                                 | rotating<br>arrangement                                                           |      |
|  |  |  |  |  |  |  |  |  |  |  |  |  |      |

|     |   |    |     |   |    |   |   |   |   |   |   |   |     |
|-----|---|----|-----|---|----|---|---|---|---|---|---|---|-----|
| 6.5 | 8 | 40 | 150 | 3 | 15 | • | • | - | - | • | • | - | 622 |
|     |   |    |     |   |    |   |   |   |   |   |   |   |     |
|     |   |    |     |   |    |   |   |   |   |   |   |   |     |
|     |   |    |     |   |    |   |   |   |   |   |   |   |     |

|                               |
|-------------------------------|
| PROTUM®<br>series             |
| K<br>series                   |
| UNIFLEX<br>Advanced<br>series |
| M<br>series                   |
| TKIP<br>series                |
| XL<br>series                  |
| QUANTUM®<br>series            |
| TKR<br>series                 |
| TKA<br>series                 |

# UAT1555



**Pitch**  
55.5 mm



**Inner height**  
50 mm



**Inner widths**  
75 – 175 mm



**Bending radii**  
100 – 300 mm

## Stay variants

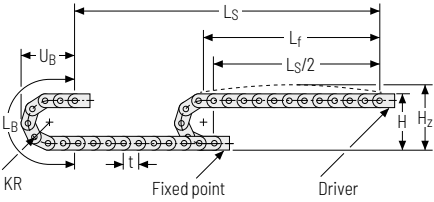


**Design 080** ..... page 624

### Covered on both sides with outside detachable cover

- » Plastic cover for rough environmental conditions with dirt, chips and dust.
- » Fully detachable on one side in any position.
- » **Inside:** very quick release.

Unsupported arrangement

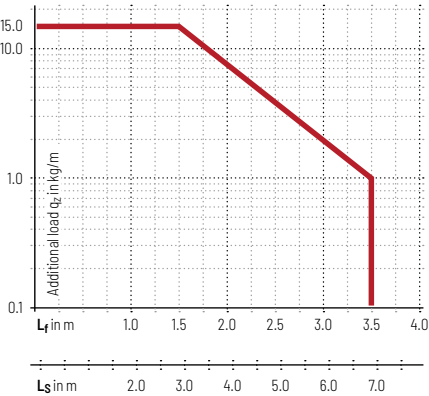


| KR<br>[mm] | H<br>[mm] | H <sub>z</sub><br>[mm] | L <sub>B</sub><br>[mm] | U <sub>B</sub><br>[mm] |
|------------|-----------|------------------------|------------------------|------------------------|
| 100        | 268       | 298                    | 425                    | 190                    |
| 125        | 318       | 348                    | 504                    | 215                    |
| 150        | 368       | 398                    | 582                    | 240                    |
| 175        | 418       | 448                    | 661                    | 265                    |
| 200        | 468       | 498                    | 739                    | 290                    |
| 225        | 518       | 548                    | 818                    | 315                    |
| 250        | 568       | 598                    | 896                    | 340                    |
| 300        | 668       | 698                    | 1053                   | 390                    |

Load diagram for unsupported length depending on the additional load.

Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.

Intrinsic cable carrier weight  $q_k = 2.9 \text{ kg/m}$  at B<sub>i</sub> 125 mm. For other inner widths, the maximum additional load changes.



**Speed**  
up to 8 m/s



**Acceleration**  
up to 40 m/s<sup>2</sup>

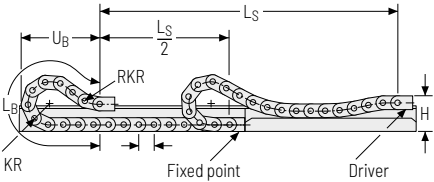


**Travel length**  
up to 6.5 m



**Additional load**  
up to 15 kg/m

Gliding arrangement



**Speed**  
up to 3 m/s



**Acceleration**  
up to 15 m/s<sup>2</sup>



**Travel length**  
up to 150 m



**Additional load**  
up to 15 kg/m



The gliding cable carrier has to be routed in a channel. See p. 866.

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series

K  
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M  
series

TKIP  
series

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series

Stay variant 080 – covered on both sides with inside detachable cover

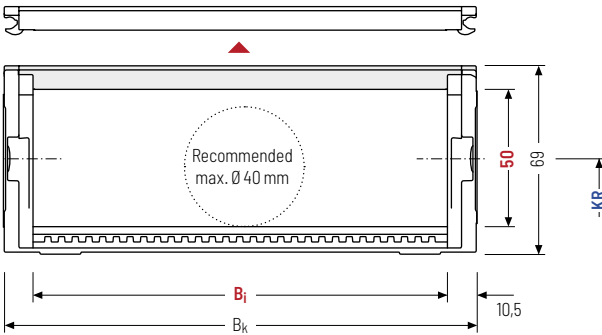
- » Plastic cover for rough environmental conditions with dirt and chips.
- » Fully detachable on one side in any position.
- » **Inside:** very quick release.



Stay arrangement on each chain link (**VS: fully-stayed**)



B<sub>i</sub> 75 – 175 mm



The maximum cable diameter strongly depends on the bending radius and the desired cable type. Please contact us.

Calculating the cable carrier length

Cable carrier length L<sub>k</sub>

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L<sub>k</sub> rounded to pitch t

| h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] | B <sub>i</sub><br>[mm] |     |     | B <sub>k</sub><br>[mm] | KR<br>[mm] |     |     |     | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|------------------------|-----|-----|------------------------|------------|-----|-----|-----|--------------------------|
| 50                     | 69                     | 75                     | 125 | 175 | B <sub>i</sub> + 21    | 100        | 125 | 150 | 175 | 2,43                     |
|                        |                        |                        |     |     |                        | 200        | 225 | 250 | 300 | 3,44                     |

Order example



UAT1555

Type

080

Stay variant

175

B<sub>i</sub> [mm]

225

KR [mm]

2553

L<sub>k</sub> [mm]

VS

Stay arrangement

Divider systems

As a standard, the divider system is mounted on every 2<sup>nd</sup> chain link.

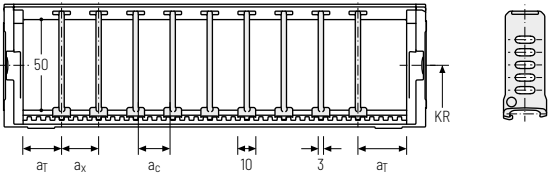
The dividers are easily attached to the stay for applications with transverse accelerations and for applications laying on the side by simply turning them.

As a standard, dividers or the complete divider system (dividers with height separations) are movable in the cross section (**version A**).

The locking cams click into place in the locking grids in the covers (**version B**).

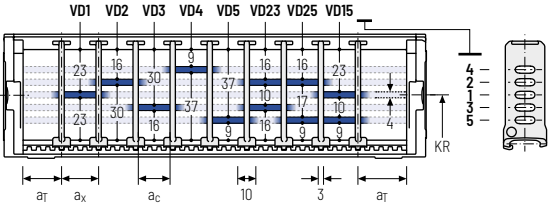
Divider system TS0 without height separation

| Vers. | a <sub>T</sub> min<br>[mm] | a <sub>x</sub> min<br>[mm] | a <sub>c</sub> min<br>[mm] | a <sub>x</sub> Grid<br>[mm] | n <sub>T</sub><br>min |
|-------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------|
| A     | 5                          | 10                         | 7                          | -                           | -                     |
| B     | 7.5                        | 10                         | 7                          | 5                           | -                     |



Divider system TS1 with continuous height separation

| Vers. | a <sub>T</sub> min<br>[mm] | a <sub>x</sub> min<br>[mm] | a <sub>c</sub> min<br>[mm] | a <sub>x</sub> Grid<br>[mm] | n <sub>T</sub><br>min |
|-------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------|
| A     | 5                          | 10                         | 7                          | -                           | 2                     |
| B     | 7.5                        | 10                         | 7                          | 5                           | 2                     |



Order example

TS1

.

A

.

3

-

VD0

⋮

VD1

Divider system

Version

n<sub>T</sub>

Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n<sub>T</sub>].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.

PROTUM®  
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M  
series

TKiP  
series

XL  
series

QUANTUM®  
series

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series

TKA  
series

UAT  
series

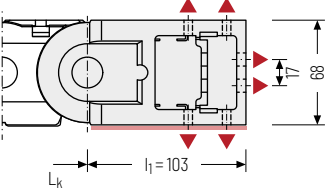
|            |            |            |                 |           |             |          |                         |          |                |
|------------|------------|------------|-----------------|-----------|-------------|----------|-------------------------|----------|----------------|
| UAT series | TKA series | TKR series | QUANTUM® series | XL series | TKHP series | M series | UNIFLEX Advanced series | K series | PROTUM® series |
|------------|------------|------------|-----------------|-----------|-------------|----------|-------------------------|----------|----------------|



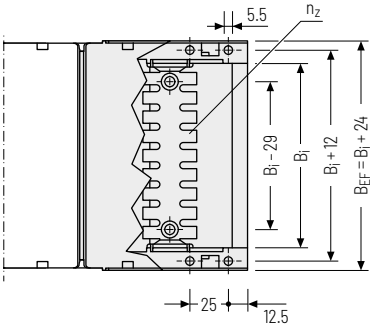
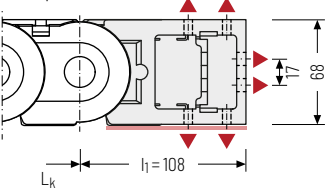
Universal end connectors UMB – plastic (standard)

The universal end connectors (UMB) are made from plastic and can be mounted from the top, from the bottom, or face on.

Driver



Fixed point

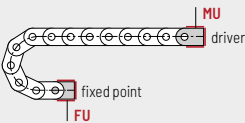


▲ Assembly options

| B <sub>1</sub><br>[mm] | B <sub>EF</sub><br>[mm] | n <sub>2</sub> |
|------------------------|-------------------------|----------------|
| 75                     | 99                      | 2 x 5          |
| 125                    | 149                     | 2 x 9          |
| 175                    | 199                     | 2 x 13         |



Recommended tightening torque:  
5 Nm for cheese-head screws ISO 4762 - M5 x 8.8



Connection point

F – fixed point  
M – driver

Connection type

U – Universal mounting bracket

Order example



|               |                  |                 |
|---------------|------------------|-----------------|
| UMB           | F                | U               |
| UMB           | M                | U               |
| End connector | Connection point | Connection type |

PROTUM®  
series

K  
series

UNIFLEX  
Advanced  
series

M  
series

TKUP  
series

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series