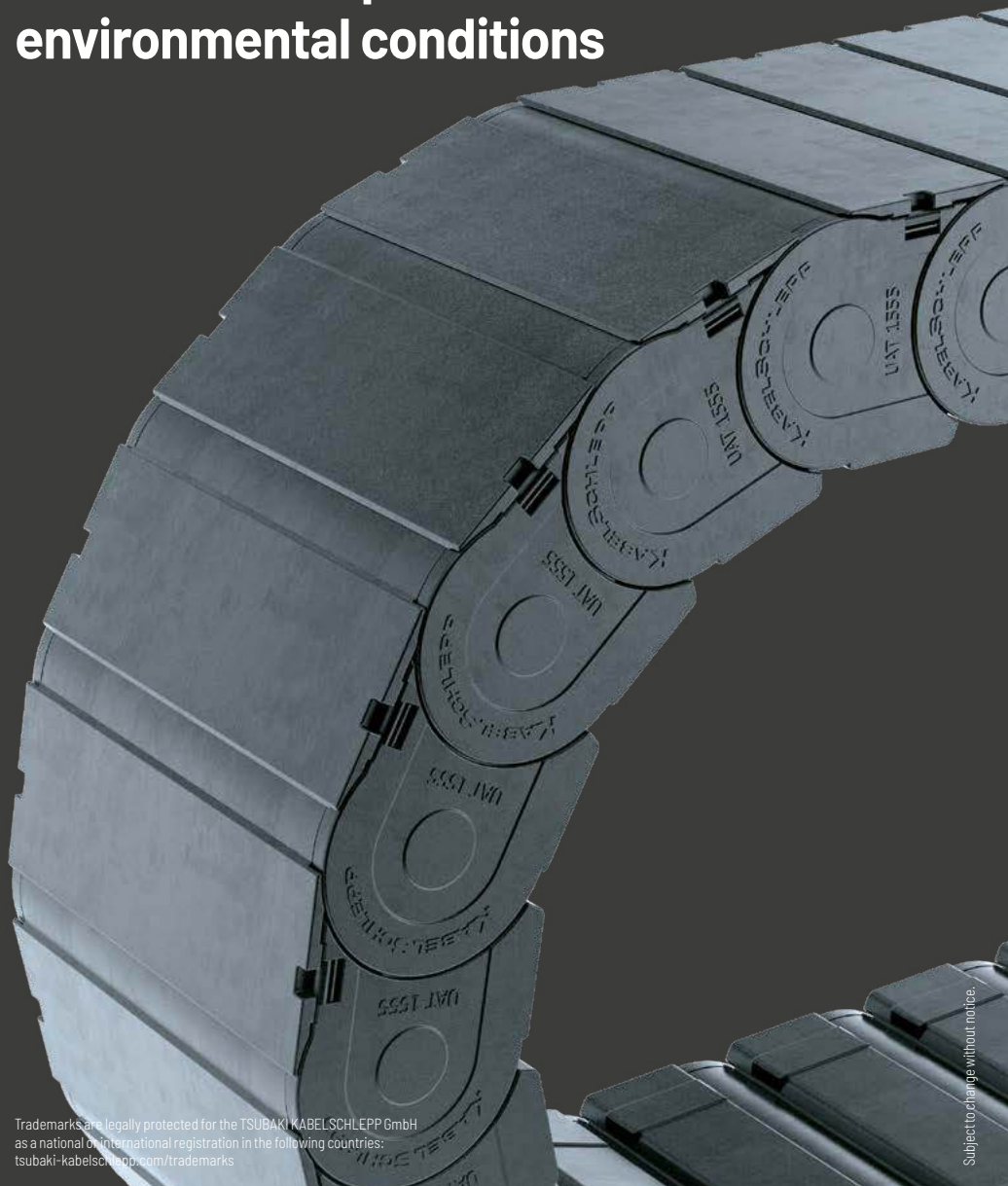


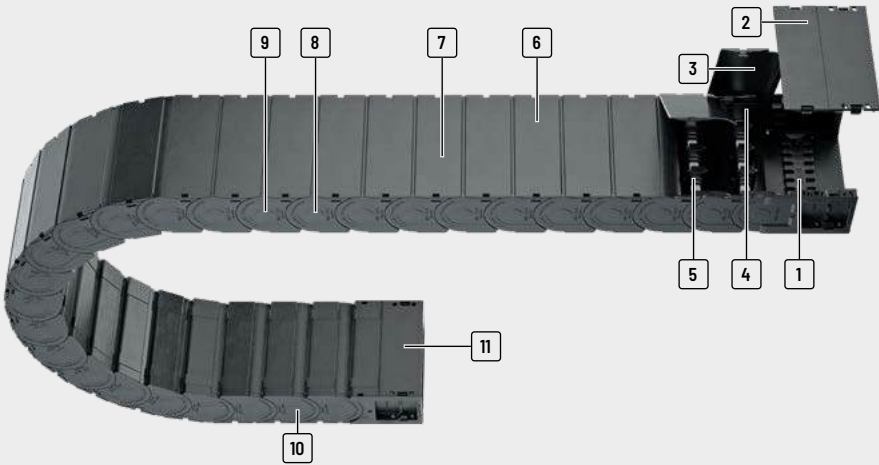
# UAT series

Extreme cable protection in harsh environmental conditions



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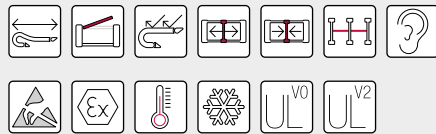
Subject to change without notice.



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

## 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

XL  
series

QUANTUM®  
series

TKR  
series

TKA  
series

UAT  
series

Type	Opening variant	Stay variant	$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]	$B_k$ [mm]	$B_i$ - grid [mm]	t [mm]	KR [mm]	Additional load $\leq$ [kg/m]	Cable- $d_{max}$ [mm]
<b>UAT1555</b>											
		080	50	69	75 - 175	Bi + 21	-	55.5	100 - 300	15	40

PROTUM®  
seriesK  
seriesUNIFLEX  
Advanced  
seriesM  
seriesXL  
seriesQUANTUM®  
seriesTKR  
seriesTKA  
seriesUAT  
series

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

6.5	8	40	150	3	15	•	•	-	-	•	•	-	578
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PROTUM® series

K series

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M series

XL series

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TKR series

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# UAT1555



**Pitch**  
55.5 mm



**Inner height**  
50 mm



**Inner widths**  
75 – 175 mm



**Bending radii**  
100 – 300 mm

## Stay variants

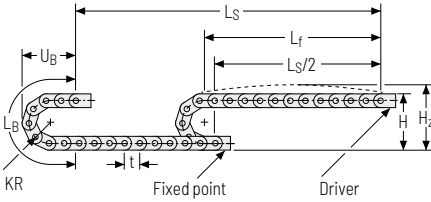


**Design 080** ..... page **580**

### 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

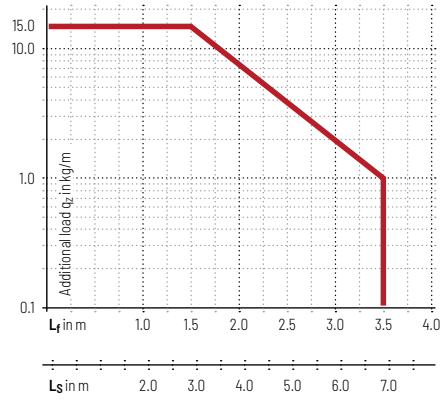






KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
100	268	298	425	190
125	318	348	504	215
150	368	398	582	240
175	418	448	661	265
200	468	498	739	290
225	518	548	818	315
250	568	598	896	340
300	668	698	1053	390

Load diagram for unsupported length depending on the additional load.

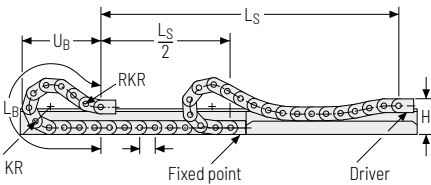
Sagging of the cable carrier is technically permitted for extended travel lengths, depending on the specific application.





Intrinsic cable carrier weight  $q_k = 2.9 \text{ kg/m}$  at  $B_i 125 \text{ mm}$ . 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. 844.

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

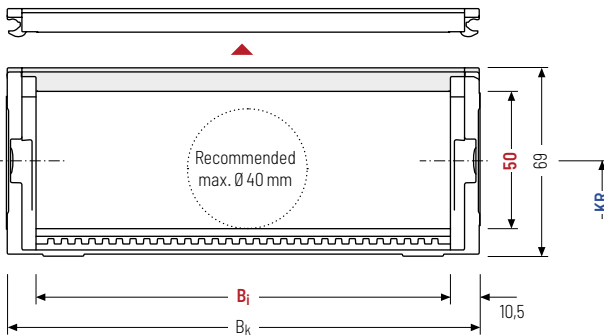
- » Plastic cover for rough environmental conditions with dirt and chips.
- » Fully detachable on one side in any position.
- » **Inside:** very quick release.



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



$B_i$  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 $L_k$

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

Cable carrier length  $L_k$  rounded to pitch  $t$

$h_i$ [mm]	$h_G$ [mm]	$B_i$ [mm]			$B_k$ [mm]	KR [mm]				$q_k$ [kg/m]
50	69	75	125	175	$B_i + 21$	100	125	150	175	2.43
						200	225	250	300	3.44

### Order example



UAT1555

Type

080

Stay variant

175

$B_i$  [mm]

225

KR [mm]

2553

$L_k$  [mm]

VS

Stay arrangement

**Divider systems**

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

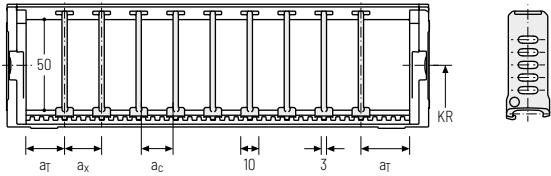
The dividers are easily attached to the stay for applications with transverse accelerations and for applications laying on the side by simply turning them.

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**).

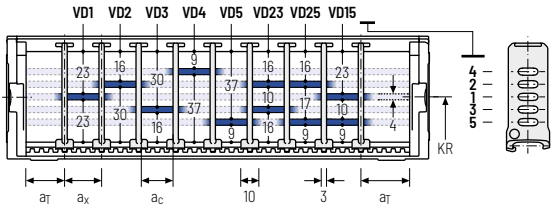
**Divider system TS0 without height separation**

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	a <sub>X</sub> Grid [mm]	nr min
A	5	10	7	-	-
B	7.5	10	7	5	-



**Divider system TS1 with continuous height separation**

Vers.	a <sub>T</sub> min [mm]	a <sub>X</sub> min [mm]	a <sub>C</sub> min [mm]	a <sub>X</sub> Grid [mm]	nr min
A	5	10	7	-	2
B	7.5	10	7	5	2



**Order example**

🛒

TS1

A

3

VD0

⋮

VD1

Divider system

Version

nr

Height separation

Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [nr].

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® series
K series
UNIFLEX Advanced series
M series
XL series
QUANTUM® series
TKR series
TKA series

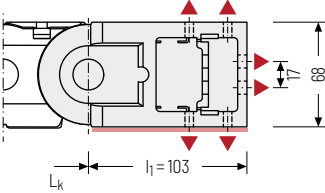


UAT  
seriesTKA  
seriesTKR  
seriesQUANTUM®  
seriesXL  
seriesM  
seriesUNIFLEX  
Advanced  
seriesK  
seriesPROTUM®  
series

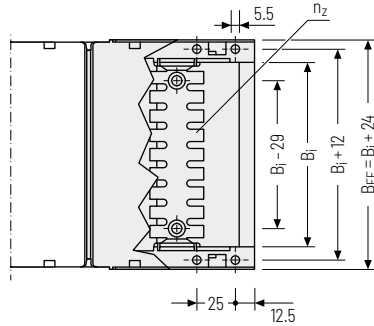
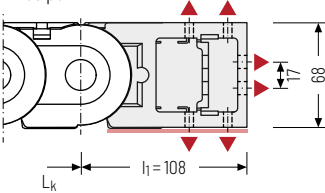
**Universal end connectors UMB – plastic (standard)**

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

Driver




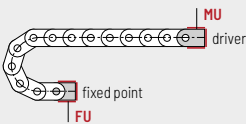
Fixed point



▲ Assembly options

$B_1$ [mm]	$B_{EF}$ [mm]	$n_2$
75	99	2 x 5
125	149	2 x 9
175	199	2 x 13

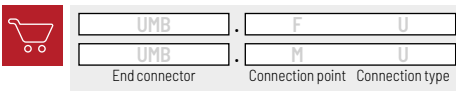
 Recommended tightening torque:  
5 Nm for cheese-head screws ISO 4762 - M5 x 8.8



**Connection point**  
F - fixed point  
M - driver

**Connection type**  
U - Universal mounting bracket

**Order example**



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K series
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M series
XL series
QUANTUM® series
TKR series
TKA series