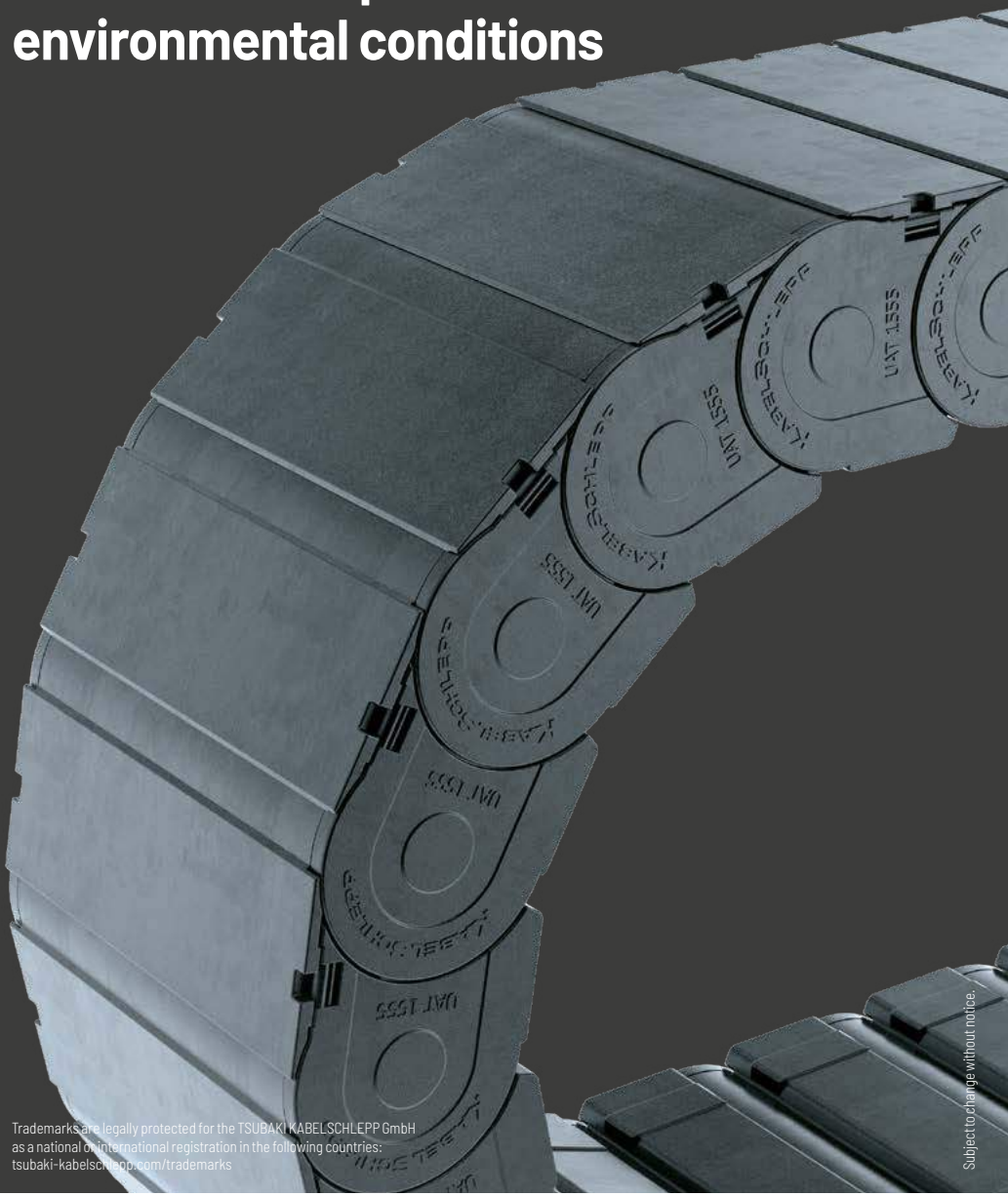
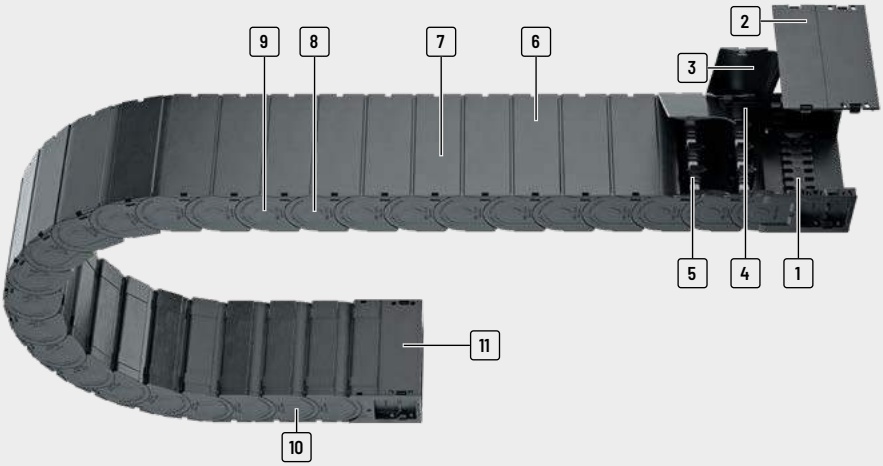
UAT series

Extreme cable protection in harsh environmental conditions

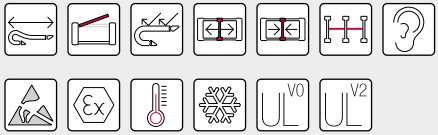




1 Connectors with optional strain relief
2 Completely detachable covers
3 Easy and quick to open
4 Gentle on the cables – interior space without projecting edges
5 Dividers and height separations for cable separation
6 Designs with outward opening covers
7 Secure hold of the covers also under heavy load (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

UAT series | Overview

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

UAT series | Overview

Unsupported arrangement			Gliding arrangement			Inner Distribution				Movement			Page
Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	Travel length ≤ [m]	v_{max} ≤ [m/s]	a_{max} ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
6.5	8	40	150	3	15	•	•	–	–	•	•	–	604

UAT1555

Pitch
55.5 mm

Inner height
50 mm

Inner widths
75 – 175 mm

Bending radii
100 – 300 mm

Stay variants

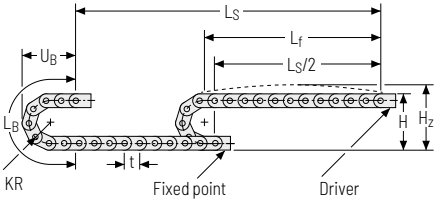
Design 080 ..... page **606**

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.

UAT1555 | Installation dim. | Unsupported · Gliding

Unsupported arrangement

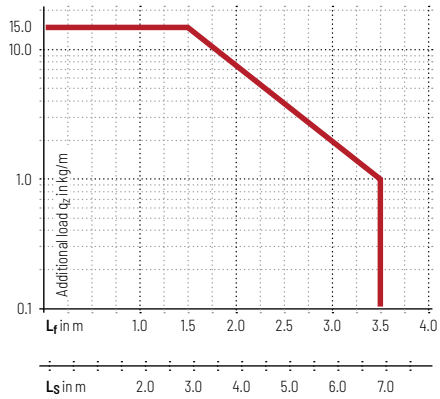


KR [mm]	H [mm]	H_z [mm]	L_B [mm]	U_B [mm]
100	268	298	425	190
125	318	348	504	215
150	368	398	582	240
175	418	448	661	265
200	468	498	739	290
225	518	548	818	315
250	568	598	896	340
300	668	698	1053	390

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 kg/m at B_i 125 mm. For other inner widths, the maximum additional load changes.



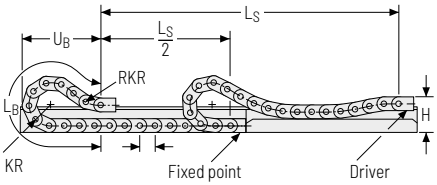
Speed
up to 8 m/s

Acceleration
up to 40 m/s²

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/s²

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. 842.

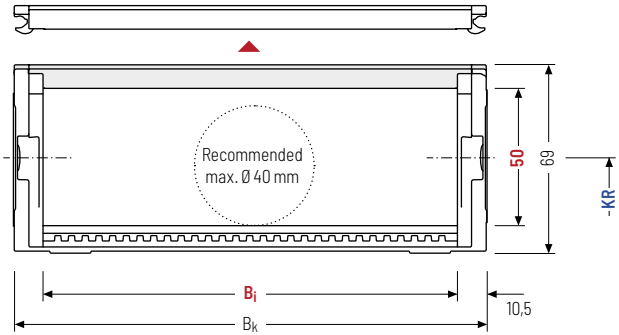
UAT1555.080 | Dimensions · Technical data

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 – 3.44
						200	225	250	300	

Order example

UAT1555	.	080	.	175	.	225	-	2553		VS
Type		Stay variant		B_i [mm]		KR [mm]		L_k [mm]		Stay arrangement

UAT1555 | Inner distribution | TS3

Divider systems

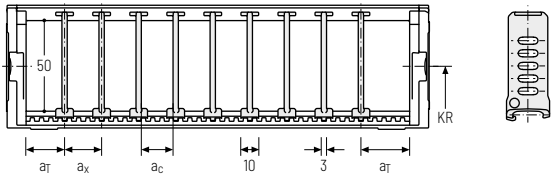
As a standard, the divider system is mounted on every 2nd chain link.

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

The dividers are easily attached to the stay for applications with transverse accelerations and for applications laying on the side by simply turning them.
The locking cams click into place in the locking grids in the covers **(version B)**.

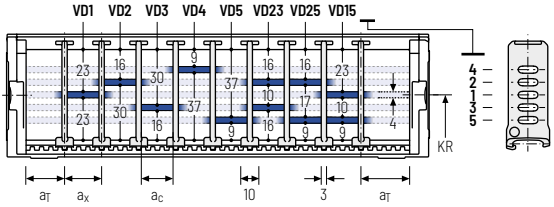
Divider system TS0 without height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x Grid [mm]	n_T min
A	5	10	7	–	–
B	7.5	10	7	5	–

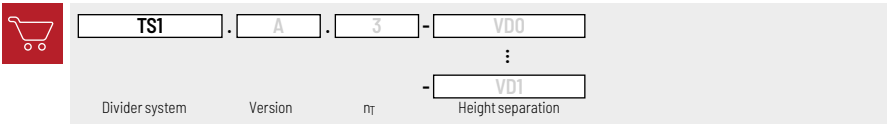


Divider system TS1 with continuous height separation

Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	a_x Grid [mm]	n_T min
A	5	10	7	–	2
B	7.5	10	7	5	2

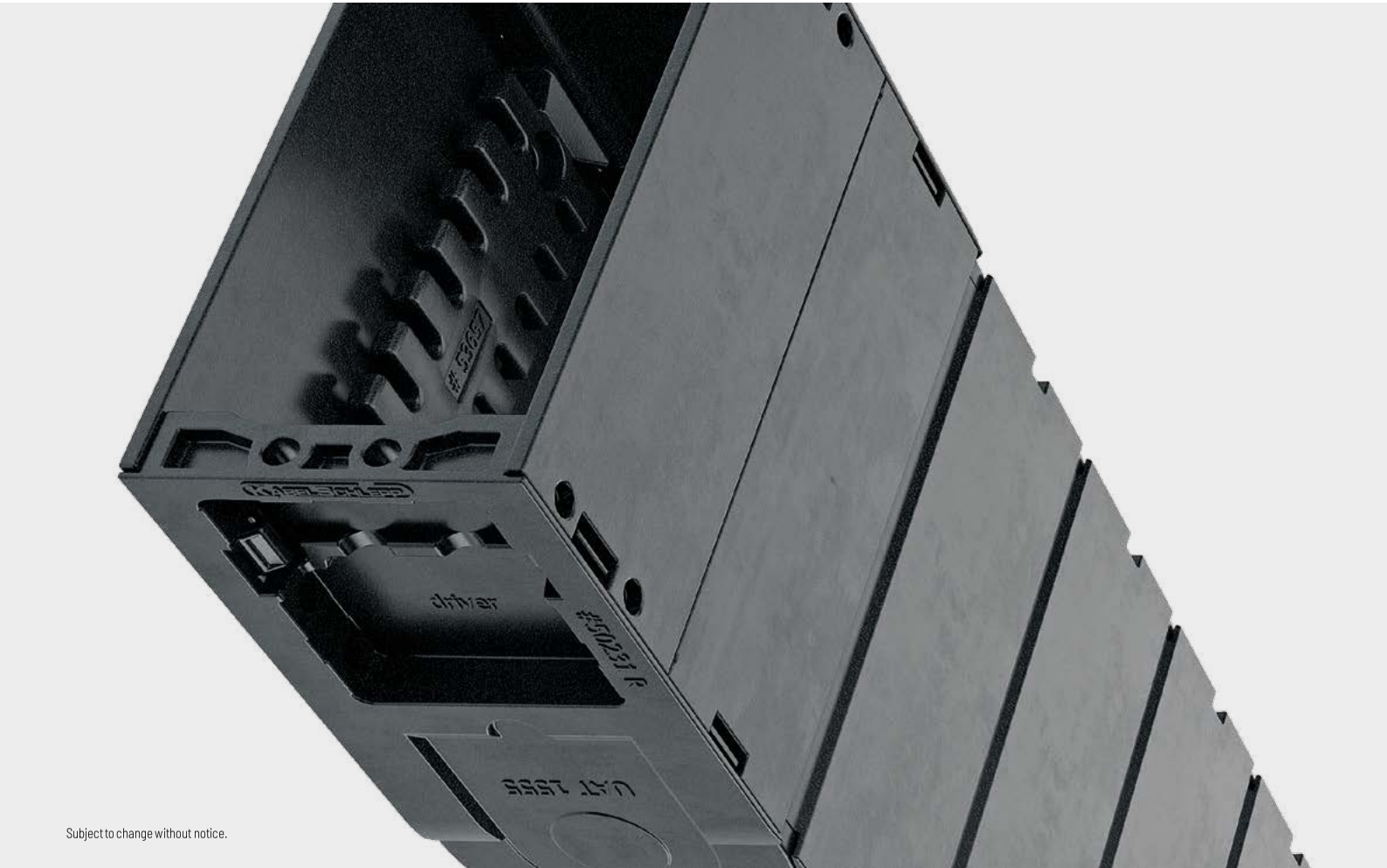


Order example



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

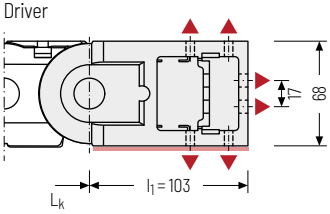
If using divider systems with height separation **(TS1)** please also state the positions [e.g. VD1] viewed from the left driver belt. You are welcome to add a sketch to your order.



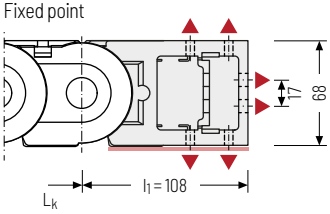
Universal end connectors UMB – plastic (standard)

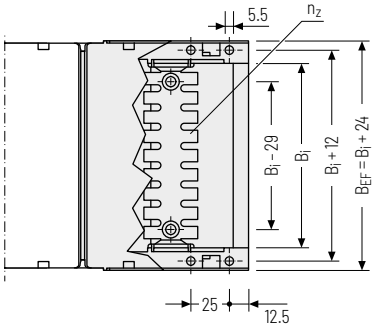
The universal end connectors (UMB) are made from plastic and can **be mounted from the top, from the bottom, or face on**.

Driver



Fixed point

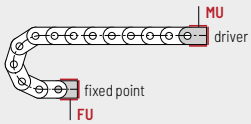




▲ Assembly options

B_i [mm]	B_{EF} [mm]	n_z
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