

TKA series





Chip-tight right to the end



* Refers to type TKA55 with B; 50 – 175. More information on certification can be found at: tsubaki-kabelschlepp.com/tka-ip54

Trademarks are legally protected for the TSUBAKI KABELSCHLEPP GmbH as a national or international registration in the following countries: tsubaki-kabelschlepp.com/Trademarks

Key for abbreviations
on page 16Design guidelines
from page 64Technical support:
technik@kabelschlepp.de

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 ≤ [kg/m]	Cable- d_{max} [mm]
TKA30											
		060	20.5	28.5	15–65	28–78	–	30.5	55–180	3	16
		080	20.5	28.5	15–65	28–78	–	30.5	55–180	3	16
TKA38											
		060	26	36	25–130	41–146	–	38.5	70–230	5	20
		080	26	36	25–130	41–146	–	38.5	70–230	5	20
TKA45											
		060	36	50	50–150	66–166	–	45.5	82–230	6	28,5
		080	36	50	50–150	66–166	–	45.5	82–230	6	28,5
TKA55											
		060	45	64	50–250	70–270	–	55.5	100–300	15	36
		080	45	64	50–250	70–270	–	55.5	100–300	15	36

TKA series | Overview

Unsupported arrangement			Gliding arrangement			Inner distribution				Installation variants			Page
Travel length \leq [m]	v_{max} \leq [m/s]	a_{max} \leq [m/s ²]	Travel length \leq [m]	v_{max} \leq [m/s]	a_{max} \leq [m/s ²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
3.5	10	50	80	2.5	25	•	•	-	-	•	•	-	528
3.5	10	50	80	2.5	25	•	•	-	-	•	•	-	529
3.9	10	50	120	2.5	20	•	•	-	-	•	•	-	534
3.9	10	50	120	2.5	20	•	•	-	-	•	•	-	535
4.7	9	45	125	3	20	•	•	-	•	•	•	-	540
4.7	9	45	125	3	20	•	•	-	•	•	•	-	541
6.5	8	40	150	3	15	•	•	-	•	•	•	-	548
6.5	8	40	150	3	15	•	•	-	•	•	•	-	549

Inner heights



Inner widths



TKA30

Key for abbreviations
on page 16



Pitch
30.5 mm



Inner height
20.5 mm



Inner widths
15 – 65 mm



Bending radii
55 – 180 mm

Stay variants



Design 060 page 528

Covered on both sides with inside detachable cover

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



Design 080 page 529

Covered on both sides with outside detachable cover

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.

Design guidelines
from page 64

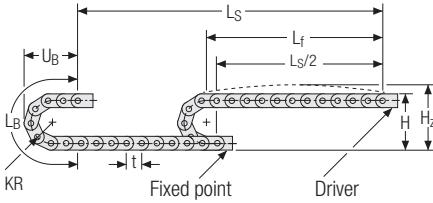
Technical support:
technik@kabelschlepp.de



Optional: protection against chips up to 850 °C

On request, we also produce all TKA types in designs for protection against hot chips. The special material used protects the cables from hot chips up to 850 °C. This practically excludes downtimes due to hot chips that could destroy the cables.

Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
55	139	164	234	100
75	179	204	297	120
95	219	244	359	140
125	279	304	454	170
145	319	344	516	190
180	389	414	626	225

Inner heights



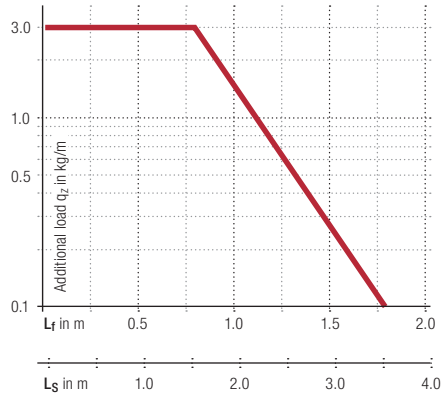
Inner widths



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 $q_k = 0.67 \text{ kg/m}$ at B₁ 50 mm. For other inner widths, the maximum additional load changes.



Speed
up to 10 m/s



Acceleration
up to 50 m/s²



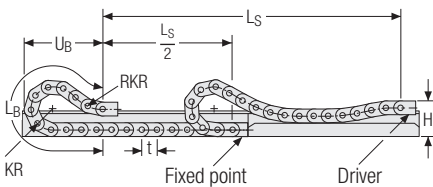
Travel length
up to 3.5 m



Additional load
up to 3 kg/m

tsubaki-kabelschlepp.com/tka

Gliding arrangement



Speed
up to 2.5 m/s



Acceleration
up to 25 m/s²



Travel length
up to 80 m



Additional load
up to 3 kg/m



The gliding cable carrier has to be routed in a channel. See p. 782.

Stay variant 060 – covered on both sides with inside detachable cover

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



Key for abbreviations
on page 16

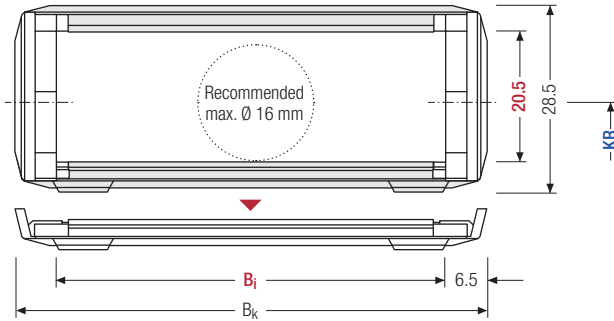


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 15 – 65 mm

Design guidelines
from page 64



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

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

h_i [mm]	h_G [mm]	B_i [mm]						B_k [mm]	KR [mm]						q_k [kg/m]
20.5	29.15	15	20	25	38	50	65	$B_i + 13$	55	75	95	125	145	180	0.48 – 0.76

Order example



TKA30

Type

060

Stay variant

50

 B_i [mm]

125

KR [mm]

915

 L_k [mm]

VS

Stay arrangement

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

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.




Inner heights

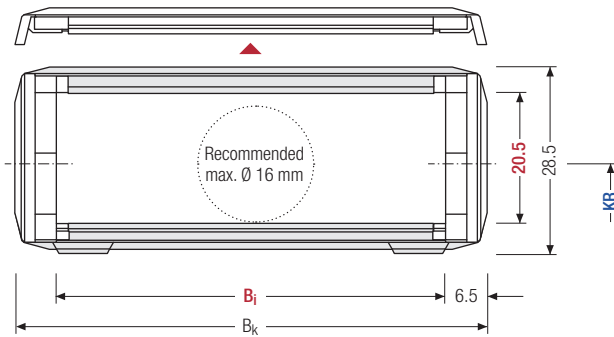



Inner widths



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

 B_i 15 – 65 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]						
20.5	29.15	15	20	25	38	50	65	$B_i + 13$	55	75	95	125	145	180	0.48 – 0.76

Order example


TKA30 ·
 080 ·
 50 ·
 125 ·
 915 ·
 VS

Type Stay variant B_i [mm] KR [mm] L_k [mm] Stay arrangement

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**).

Key for abbreviations
on page 16

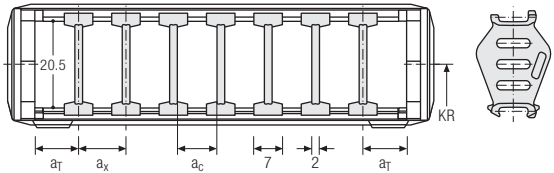
Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

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	3.5	7	5	—	—
B	3.5	8	6	2	—

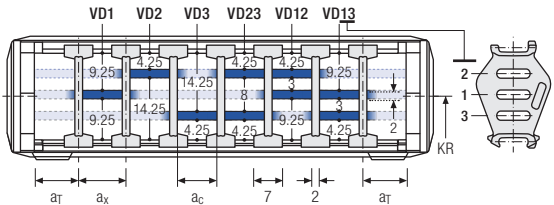
B _i [mm]	15	20	25	38	50	65
a _T min [mm]	7.5	8	8.5	9	9	8.5



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	3.5	7	5	—	2
B	3.5	8	6	2	2

B _i [mm]	15	20	25	38	50	65
a _T min [mm]	7.5	8	8.5	9	9	8.5



Order example



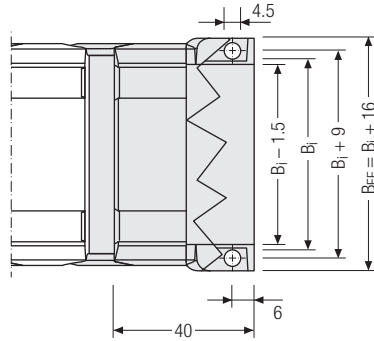
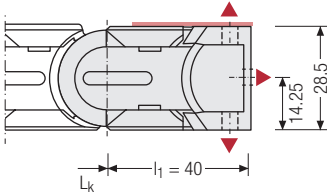
TS1	.	A	.	3	-	V00
						⋮
						V01
Divider system		Version		n _T		Height separation

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.

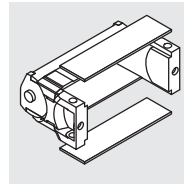
Universal end connectors UMB – plastic (standard)

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

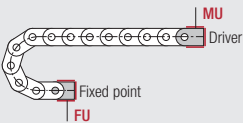


▲ Assembly options

 Recommended tightening torque: 3 Nm for cheese-head screws ISO 4762 - M4 x 12



The end connectors are also available as an option **without** cover sheets. Please state when ordering.




Connection point


F – fixed point
M – driver

Connection type

U – universal end connector

Order example

	UMB	.	F	U
	UMB	.	M	U
	End connector		Connection point	Connection type

 We recommend the use of strain reliefs before driver and fixed point. See from p. 834.



TKA38

Key for abbreviations
on page 16



Pitch
38.5 mm



Inner height
26 mm



Inner widths
25 – 130 mm



Bending radii
70 – 230 mm

Stay variants

Design guidelines
from page 64



Design 060 page 534

Covered on both sides with inside detachable cover

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



Design 080 page 535

Covered on both sides with outside detachable cover

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.

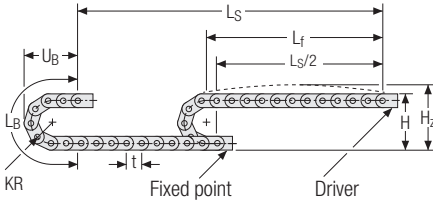
Technical support:
technik@kabelschlepp.de



Optional: protection against chips up to 850 °C

On request, we also produce all TKA types in designs for protection against hot chips. The special material used protects the cables from hot chips up to 850 °C. This practically excludes downtimes due to hot chips that could destroy the cables.

Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
70	176	201	297	127
95	226	251	375	152
120	276	301	454	177
145	326	351	532	202
170	376	401	611	227
195	426	451	689	252
230	496	521	799	287

Inner heights



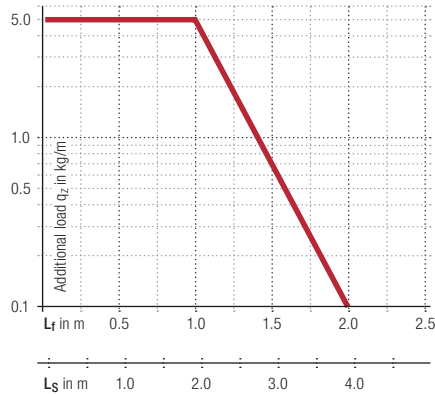
Inner widths



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 $q_k = 1.13 \text{ kg/m}$ at B₃ 78 mm. For other inner widths, the maximum additional load changes.



Speed
up to 10 m/s



Acceleration
up to 50 m/s²



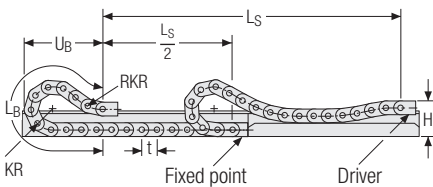
Travel length
up to 3.9 m



Additional load
up to 5 kg/m

tsubaki-kabelschlepp.com/tka

Gliding arrangement



Speed
up to 2.5 m/s



Acceleration
up to 20 m/s²



Travel length
up to 120 m



Additional load
up to 5 kg/m



The gliding cable carrier has to be routed in a channel. See p. 782.

Stay variant 060 – covered on both sides with inside detachable cover

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



Key for abbreviations
on page 16

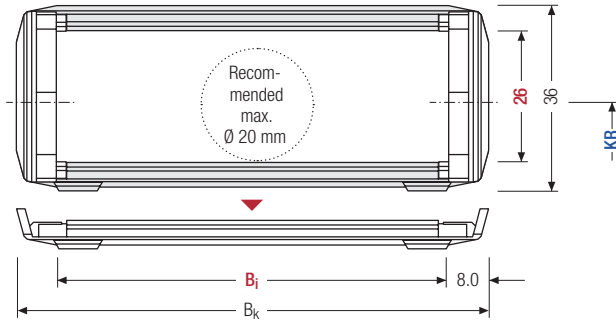


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 25 – 130 mm

Design guidelines
from page 64



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

Technical support:
technik@kabelschlepp.de

h_i [mm]	h_G [mm]	B_i [mm]						B_k [mm]	KR [mm]						q_k [kg/m]	
26	36.75	25	38	58	78	103	130	$B_i + 16$	70	95	120	145	170	195	230	0.77 – 1.47

Order example

	TKA38 Type	·	060 Stay variant	·	78 B_i [mm]	·	145 KR [mm]	·	1155 L_k [mm]	·	VS Stay arrangement
--	---------------	---	---------------------	---	------------------	---	------------------	---	--------------------	---	------------------------

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

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.



Inner heights

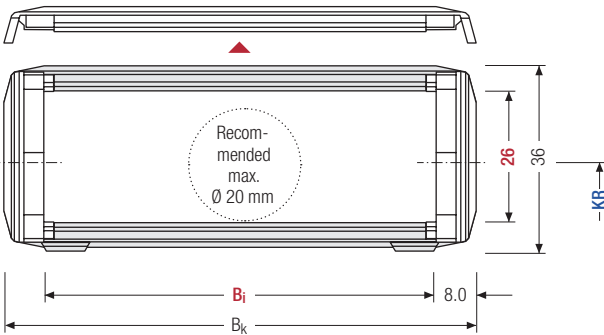


Inner widths



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

B_i 25 – 130 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]
26	36.75	25	38	58	78	103	130	$B_i + 16$	70	95	120	145	170	195	230	0.77 – 1.47				

Order example

TKA38 . **080** . **78** . **145** . **1155** . **VS**

Type Stay variant B_i [mm] KR [mm] L_k [mm] Stay arrangement

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**).

Key for abbreviations
on page 16

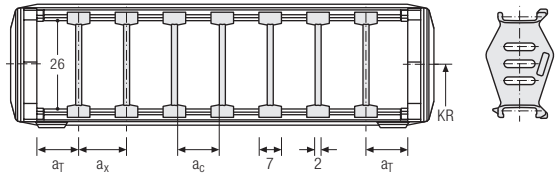
Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

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	3.5	7	5	—	—
B	8	8	6	2	—

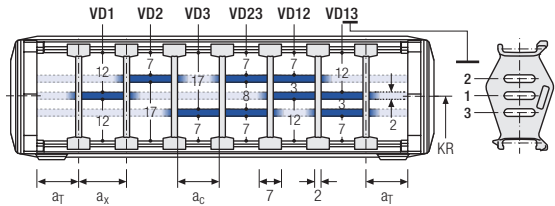
B _i [mm]	25	38	58	78	103	130
a _T min [mm]	8.5	9	9	9	7.5	9



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	3.5	7	5	—	2
B	8	8	6	2	2

B _i [mm]	25	38	58	78	103	130
a _T min [mm]	8.5	9	9	9	7.5	9



Order example



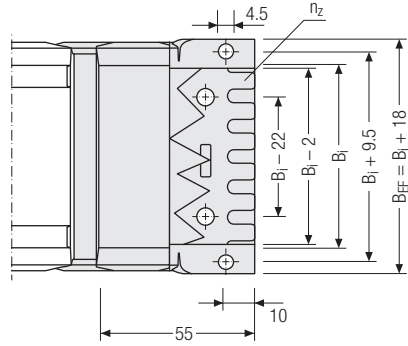
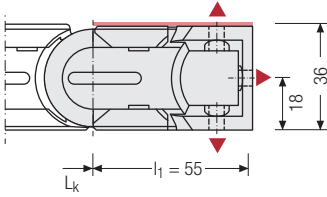
TS1	.	A	.	3	-	VD0
						⋮
						VD1
Divider system		Version		n _T		Height separation

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.



Inner heights



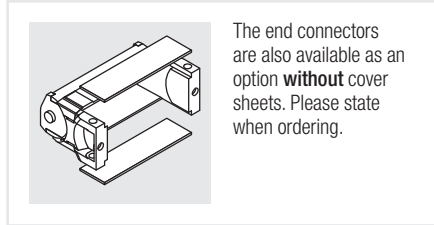
Inner widths



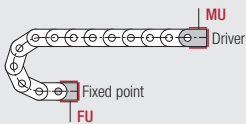
▲ Assembly options

Recommended tightening torque: 3 Nm for cheese-head screws ISO 4762 - M4 x 20

B_i [mm]	B_{EF} [mm]	n_z
25	43	2
38	56	3
58	76	5
78	96	7
103	121	9
130	148	11



tsubaki-kabelschlepp.com/тка



Connection point

F – fixed point
M – driver

Connection type

U – universal end connector

Order example



UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type

TKA45

Key for abbreviations
on page 16



Pitch
45.5 mm



Inner height
36 mm



Inner widths
50 – 150 mm



Bending radii
82 – 230 mm

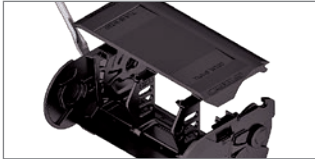
Stay variants



Design 060 page 540

Covered on both sides with inside detachable cover

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



Design 080 page 541

Covered on both sides with outside detachable cover

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.

Design guidelines
from page 64

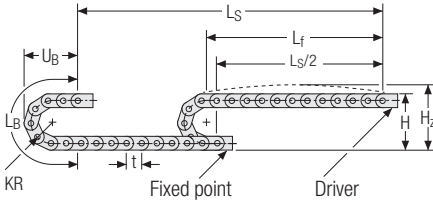
Technical support:
technik@kabelschlepp.de



Optional: protection against chips up to 850 °C

On request, we also produce all TKA types in designs for protection against hot chips. The special material used protects the cables from hot chips up to 850 °C. This practically excludes downtimes due to hot chips that could destroy the cables.

Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
82	214	249	348	153
95	240	275	389	166
125	300	335	483	196
145	340	375	546	216
170	390	425	625	241
200	450	485	719	271
230	520	555	814	301

Inner heights



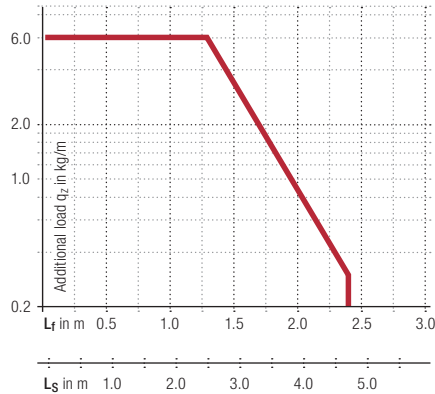
Inner widths



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 $q_k = 2.29 \text{ kg/m}$ at $B_i 150 \text{ mm}$. For other inner widths, the maximum additional load changes.



Speed
up to 9 m/s

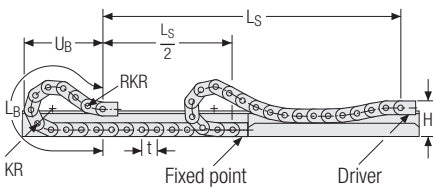
Acceleration
up to 45 m/s²

Travel length
up to 4.7 m

Additional load
up to 6 kg/m

tsubaki-kabelschlepp.com/TKA

Gliding arrangement



Speed
up to 3 m/s

Acceleration
up to 20 m/s²

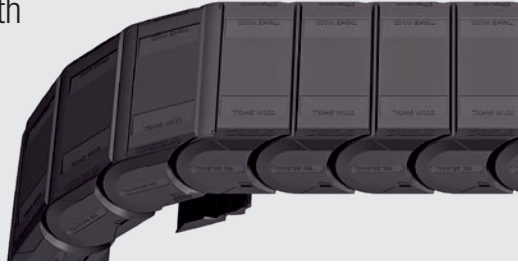
The gliding cable carrier has to be routed in a channel. See p. 782.

Travel length
up to 125 m

Additional load
up to 6 kg/m

Stay variant 060 – covered on both sides with inside detachable cover

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



Key for abbreviations
on page 16

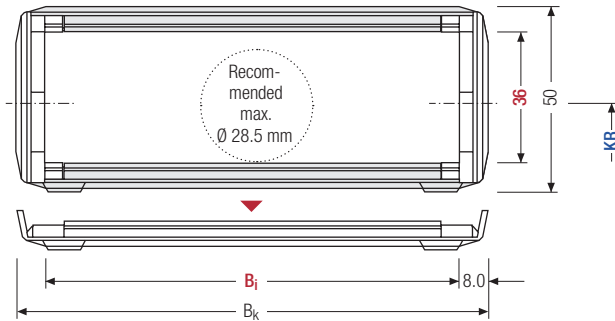


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 50 – 150 mm

Design guidelines
from page 64



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

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

h_i [mm]	h_G [mm]	B_i [mm]			B_k [mm]	KR [mm]					q_k [kg/m]				
36	51	50	75	100	125	150	$B_i + 16$	82	95	125	145	170	200	230	1.34 – 2.29

Order example

	TKA45 Type	·	060 Stay variant	·	125 B_i [mm]	·	170 KR [mm]	·	1456 L_k [mm]	–	VS Stay arrangement
--	---------------	---	---------------------	---	-------------------	---	------------------	---	--------------------	---	------------------------

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

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.



Inner heights

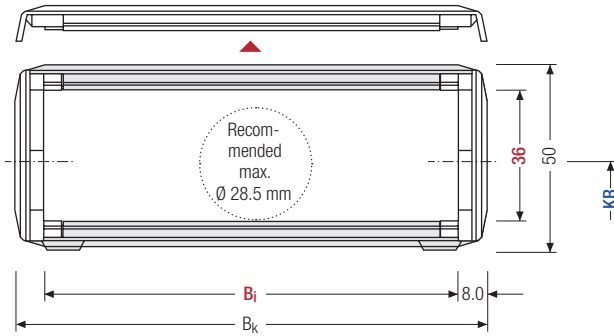


Inner widths



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

B_i 50 – 150 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]
36	51	50	75	100	125	150	$B_i + 16$	82	95	125	145	170	200	230	1.34 – 2.29

Order example

TKA45 . **080** . **125** . **170** . **1456** . **VS**

Type Stay variant B_i [mm] KR [mm] L_k [mm] Stay arrangement

Divider systems

The divider system is mounted on every 2nd chain link as a standard.

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**).

Key for abbreviations
on page 16

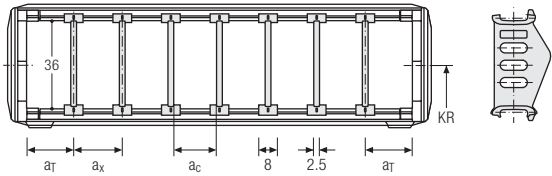
Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

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	4	8	5.5	—	—
B	↑	8	5.5	2	—

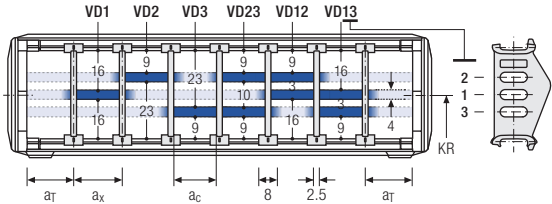
B _i [mm]	50	75	100	125	150
a _T min [mm]	11	11.5	12	12.5	11



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	4	8	5.5	—	2
B	↑	8	5.5	2	2

B _i [mm]	50	75	100	125	150
a _T min [mm]	11	11.5	12	12.5	11



Order example



TS1	.	A	.	3	-	V00
						⋮
						V01
Divider system		Version		n _T		Height separation

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.

Divider system TS3 with height separation consisting of plastic partitions

As a standard, the divider **A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within 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**).

Inner heights



Inner widths



Divider version A



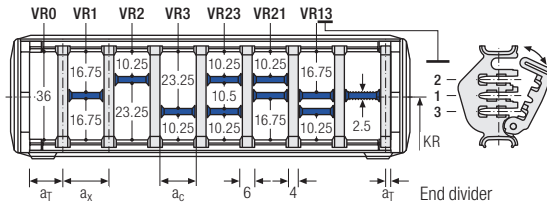
End divider



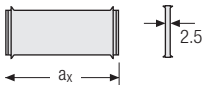
Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	4 / 2*	14	10	2

* For End divider

The dividers are fixed by the partitions. the complete divider system is movable in the cross section.



tsubaki-kabelschlepp.com/tka



a_x (center distance of dividers) [mm]																
a_c (nominal width of inner chamber) [mm]																
14	16	19	23	24	28	29	32	33	34	38	39	43	44	48	49	54
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	45	50
58	59	64	68	69	74	78	79	80	84	88	89	94	96	99	112	
54	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108	

When using partitions with $a_x > 49$ mm we recommended an additional preferential central support.

Order example

TS3 .
 A .
 3 .
 K1 .
 34 -
 VR1
 ⋮ ⋮ ⋮
K4 .
 38 -
 VR3

Divider system
Version
 n_T
Chamber
 a_x
Height separation

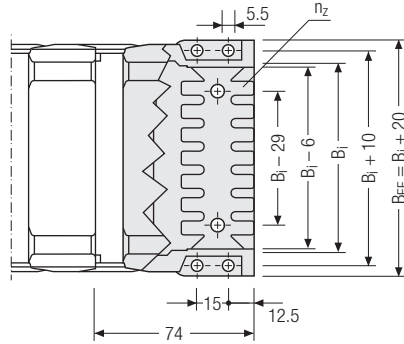
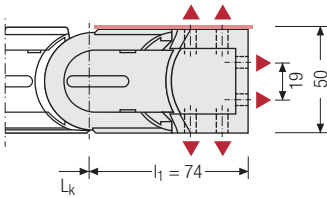
Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_x] (as seen from the driver).

If using divider systems with height separation (**TS1, TS3**) please also state the positions [e.g. VD23] viewed from the left driver belt. You are welcome to add a sketch to your order.




Universal end connectors UMB – plastic (standard)

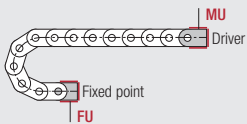
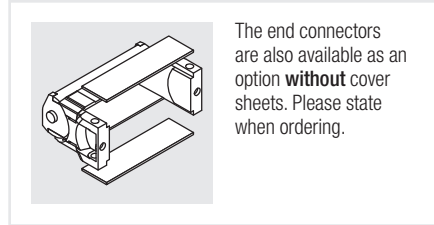
The universal end connectors (UMB) are made from plastic and can be mounted from the top, from the bottom, or face on.



▲ Assembly options

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

B_1 [mm]	B_{EFF} [mm]	n_z
50	70	2 x 3
75	95	2 x 5
100	120	2 x 7
125	145	2 x 9
150	170	2 x 11




Connection point

F – fixed point
M – driver

Connection type

U – universal end connector

Order example

	UMB	.	F	U
	UMB	.	M	U
	End connector		Connection point	Connection type

Inner heights



Inner widths



TKA55

Key for abbreviations
on page 16



Pitch
55.5 mm



Inner height
45 mm



Inner widths
50 – 250 mm



Bending radii
100 – 300 mm

Stay variants



Design 060 page 548

Covered on both sides with inside detachable cover

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



Design 080 page 549

Covered on both sides with outside detachable cover

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.

Design guidelines
from page 64

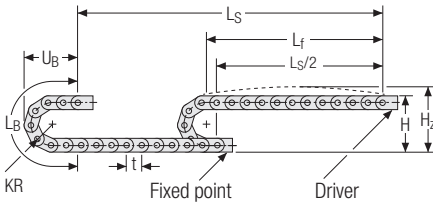
Technical support:
technik@kabelschlepp.de



Optional: protection against chips up to 850 °C

On request, we also produce all TKA types in designs for protection against hot chips. The special material used protects the cables from hot chips up to 850 °C. This practically excludes downtimes due to hot chips that could destroy the cables.

Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
100	264	304	425	188
120	304	344	488	208
140	344	384	551	228
170	404	454	645	258
195	454	494	725	283
225	514	554	818	313
250	564	604	896	338
300	664	704	1211	388

Inner heights



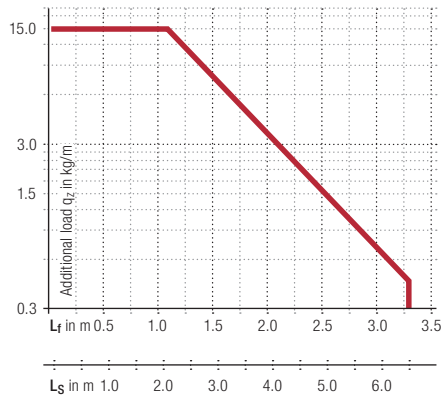
Inner widths



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 $q_k = 1.95 \text{ kg/m}$ at B_i 50 mm. For other inner widths, the maximum additional load changes.



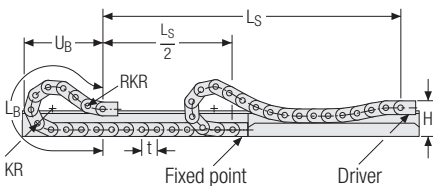
Speed
up to 8 m/s

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. 782.

Stay variant 060 – covered on both sides with inside detachable cover

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



Key for abbreviations
on page 16

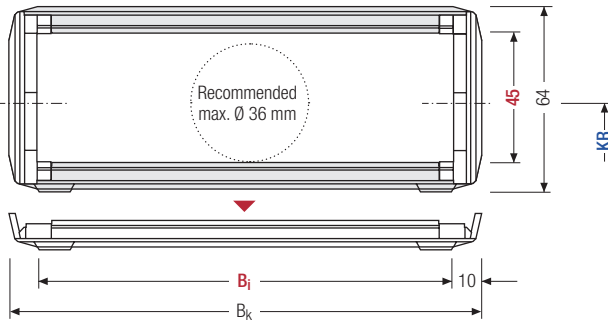


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 50 – 250 mm

Design guidelines
from page 64



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

Technical support:
technik@kabelschlepp.de

h_i [mm]	h_G [mm]	B_i [mm]					B_k [mm]	KR [mm]				q_k [kg/m]
45	65	50	75	100	125	150	$B_i + 20$	100	120	140	170	1.95
		175	200	225	250	195		225	250	300	4.28	

Order example

	TKA55 Type	·	060 Stay variant	·	200 B_i [mm]	·	225 KR [mm]	·	2553 L_k [mm]	·	VS Stay arrangement
--	---------------	---	---------------------	---	-------------------	---	------------------	---	--------------------	---	------------------------

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

- Plastic cover for rough environmental conditions with dirt, chips or spray water.
- Fully detachable on one side in any position.
- **Outside:** very quick release.



Inner heights



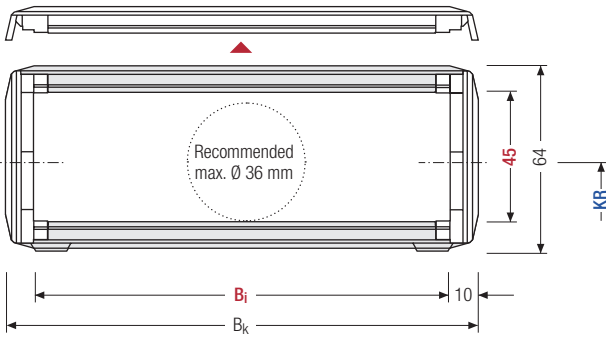
Inner widths



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



B_i 50 – 150 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]
45	65	50	75	100	125	150	$B_i + 20$	100	120	140	170	1.95
		175	200	225	250	195		225	250	300	4.28	

Order example

TKA55
080
200
225
2553
VS

Type · Stay variant · B_i [mm] · KR [mm] · L_k [mm] · Stay arrangement

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**).

Key for abbreviations
on page 16

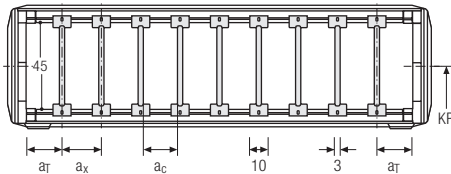
Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

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	⬇	10	7	2	—

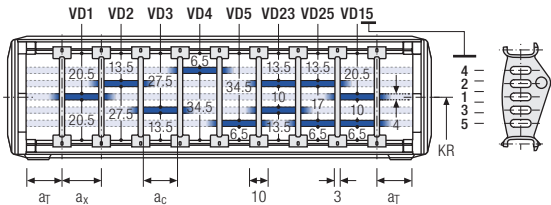
B_i [mm]	50	75	100	125	150
a_T min [mm]	13	11.5	12	12.5	13
B_i [mm]	175	200	225	250	
a_T min [mm]	11.5	12	12.5	13	



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	⬇	10	7	2	2

B_i [mm]	50	75	100	125	150
a_T min [mm]	13	11.5	12	12.5	13
B_i [mm]	175	200	225	250	
a_T min [mm]	11.5	12	12.5	13	



Order example



TS1	.	A	.	3	-	V00
						⋮
						V01
Divider system		Version		n_T		Height separation

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.

Divider system TS3 with height separation consisting of plastic partitions

As a standard, the divider **A** is used for vertical partitioning within the cable carrier. The complete divider system can be moved within 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**).

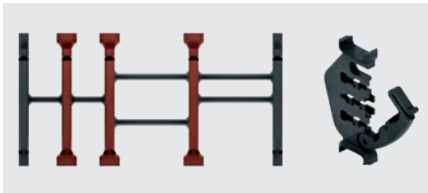
Inner heights



Inner widths



Divider version A



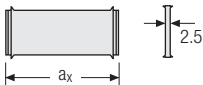
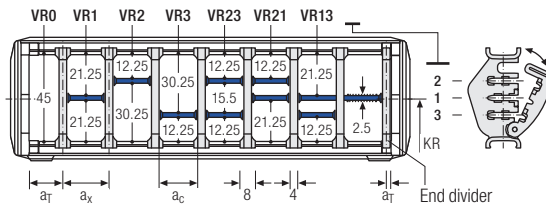
End divider



Vers.	a_T min [mm]	a_x min [mm]	a_c min [mm]	n_T min
A	4 / 2*	14	10	2

* For End divider

The dividers are fixed by the partitions. the complete divider system is movable in the cross section.



a_x (center distance of dividers) [mm]																
a_c (nominal width of inner chamber) [mm]																
14	16	19	23	24	28	29	32	33	34	38	39	43	44	48	49	54
10	12	15	19	20	24	25	28	29	30	34	35	39	40	44	45	50
58	59	64	68	69	74	78	79	80	84	88	89	94	96	99	112	
54	55	60	64	65	70	74	75	76	80	84	85	90	92	95	108	

When using partitions with $a_x > 49$ mm we recommended an additional preferential central support.

Order example

TS3 . A . 3 . K1 . 34 - VR1
⋮ ⋮ ⋮
K4 . 38 - VR3

Divider system Version n_T Chamber a_x Height separation

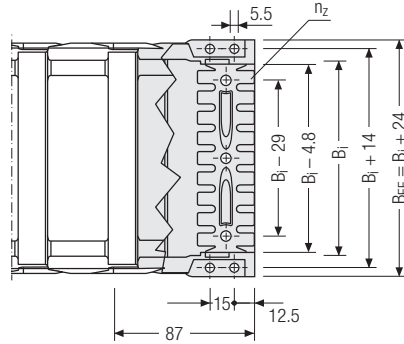
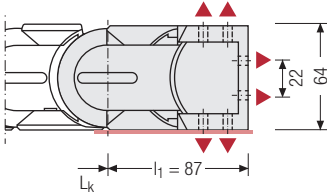
Please state the designation of the divider system (**TS0, TS1...**), version and number of dividers per cross section [n_T]. In addition, please also enter the chambers [K] from left to right, as well as the assembly distances [a_T/a_x] (as seen from the driver).

If using divider systems with height separation (**TS1, TS3**) please also state the positions [e.g. VD23] 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.



▲ Assembly options

Inner heights

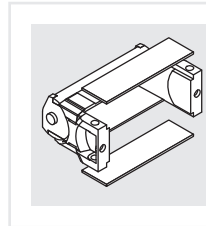


Inner widths

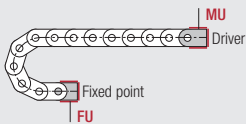


Recommended tightening torque: 5 Nm for cheese-head screws ISO 4762 - M5 x 8.8

B_i [mm]	B_{EF} [mm]	n_z
50	74	2 x 3
75	99	2 x 5
100	124	2 x 7
125	149	2 x 9
150	174	2 x 11
175	199	2 x 13
200	224	-
225	249	-
250	274	-



The end connectors are also available as an option **without** cover sheets. Please state when ordering.



Connection point

F – fixed point
M – driver

Connection type

U – universal end connector

Order example



UMB	.	F	U
UMB	.	M	U
End connector		Connection point	Connection type