# **TKA** series

# Chip-tight right to the end









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

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#### TKA series Overview



### **Features**

- Excellent cable protection in the connector area
- Chip and dirt resistant due to smooth surfaces
- Extensive unsupported length
- High torsional rigidity
- Low noise emission
- Optional: On request, special material with protection against hot chips up to 850 °C
- Numerous custom material types for custom applications available

- Easy-to-open cover with simultaneously high retention force on the chain link during operation
- Measurement scale for easy alignment of the dividers
- TKA55: IP54 tested and certified\*







Easy-open covers from any position offer secure fastening



Triple-stroke system for extensive unsupported length



Universal end connector with option for integrating strain relief elements

## TKA series | Overview

Type	Opening variant	Stay variant	hi [mm]	~	<mark>B</mark> i [mm]		[mm]	<b>t</b> [mm]	[mm]	Addi- tional load ≤ [kg/m]		
ТКА30	0p				$[\longleftrightarrow]$		X mm		Ķ	Ĝ	Ø	
		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							6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
		060	26	36	25-130	41 – 146	_	38.5	70–230	5	20	
	Ē	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	
	Ē	080	45	64	50-250	70–270	-	55.5	100-300	15	36	

**TKA** series

Key for abbreviations on page 16

Design guidelines from page 62



#### Technical manual

Do you need additional information on the TKA series? Our technical manual at **tsubaki-kabelschlepp.com/download** contains all information for selecting your cable carrier.

## TKA series | Overview

Unsuppo	rted arra	ngement		g arrange	ement		Inner dis	stribution	1		ation va		Page
Travel length ≤ [m]	<b>v<sub>max</sub></b> ≤ [m/s]	<b>a<sub>max</sub></b> ≤ [m/s²]	Travel length ≤ [m]	<b>v<sub>max</sub></b> ≤ [m/s]	<b>a<sub>max</sub></b> ≤ [m/s²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	P
	æ		¢	æ						vertica	lyi	arra	
3.5	10	50	80	2.5	25	•	•	-	-	•	•	-	492
3.5	10	50	80	2.5	25	•	•	-	-	•	•	-	493
3.9	10	50	120	2.5	20	•	•	_	-	•	•	_	498
3.9	10	50	120	2.5	20	•	•	-	-	•	•	-	499
4.7	9	45	125	3	20	•		_	•				504
4.7	9	45	125	3	20	•	•	_	•	•	•	_	505
				-									
6.5	8	40	150	3	15	•	•	-	•	•	•	-	512
6.5	8	40	150	3	15	•	•	-	•	•	•	-	513

TKA series

Inner heights 20.5 45

Inner widths 15 250 ◀

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## TKA30 | Stay variants | Overview



Key for abbreviations on page 16

**Design guidelines** 

from page 62

Pitch 30.5 mm



height nm ► Inner widths 15 – 65 mm



## Stay variants





#### Design 060 page 492

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 493

#### 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.

Cable Carrier Configurator

## 

#### 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.

## TKA30 | Installation dim. | Unsupported · Gliding

#### Unsupported arrangement



н KR H<sub>7</sub> LB UB [mm] [mm] [mm] [mm] [mm] 139 164 234 100 55 75 179 204 297 120 95 219 244 140 359 125 279 304 454 170 145 319 344 516 190 389 225 180 414 626

Inner widths 15 65 ↔

TKA seri<u>es</u>

Inner heights

20.5

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 $\label{eq:logith} \begin{array}{l} \mbox{Load diagram for unsupported length} \ \mbox{depending on} \\ \mbox{the additional load}. \end{array}$ 

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

Intrinsic cable carrier weight  $q_k = 0.67$  kg/m at  $B_i$  50 mm. For other inner widths, the maximum additional load changes.





#### **Gliding arrangement**



## **TKA30.060** | Dimensions · Technical data

**TKA** series

# Key for abbreviations on page 16



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







B<sub>i</sub> 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 Lk

 $L_k \approx \frac{L_S}{2} + L_B$ Cable carrier length Lk rounded to pitch t



Order example

57	TKA30	. 060 .	50	125	- 915	VS
$\sim$	Туре	Stay variant	B <sub>i</sub> [mm]	KR [mm]	L <sub>k</sub> [mm]	Stay arrangement

## TKA30.080 | Dimensions · Technical data

## 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



65

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





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 Lk

 $\begin{array}{l} L_k \approx \frac{L_S}{2} + L_B \\ \mbox{Cable carrier length } L_k \\ \mbox{rounded to pitch t} \end{array}$ 



#### Order example



## TKA30 | Inner distribution | TS0 · TS1

#### **Divider systems**

As a standard, the divider system is mounted on every  $2^{\mbox{nd}}$  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 TSO without height separation

Vers.			<b>a<sub>c min</sub></b> [mm]	<b>a<sub>x grid [mm]</sub></b>	n <sub>T</sub> min
Α	3.5	7	5	-	-
В	ţ	8	6	2	-
				,	
B <sub>i</sub> [	mm]	15 20	) 25	38 50	65
• a <sub>T mir</sub>	n [mm]	7.5 8	8.5	99	8.5



#### Divider system TS1 with continuous height separation



#### Order example



Please state the designation of the divider system (TS0, TS1  $\dots$ ), 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.

Technical support: technik@kabelschlepp.de

**Design guidelines** 

from page 62

## TKA30 | End connectors | UMB

#### 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.



## TKA38 | Stay variants | Overview



**Design guidelines** 

from page 62

38.5 mm		Pitch 38.5 mm
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	Inner	wid	lths
$\longleftrightarrow$	25 –	130	mm



## Stay variants





#### Design 060 ...... page 498

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 499

#### 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.

Cable Carrier Configurator

## 

#### 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.

## TKA38 | Installation dim. | Unsupported · Gliding

5.0

1.0

0.5

0.1

Ls in m

1.0

2.0

#### Unsupported arrangement



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  $q_k = 1.13$  kg/m at Bi 78 mm. For other inner widths, the maximum additional load changes.







TKA seri<u>es</u>



4.0



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#### **Gliding arrangement**



## **TKA38.060** | Dimensions · Technical data

**TKA** series



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







B<sub>i</sub> 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 Lk

 $L_k \approx \frac{L_S}{2} + L_B$ Cable carrier length Lk rounded to pitch t

KR hi h<sub>G</sub> B Bk q<sub>k</sub> [mm] [mm] [mm] [kg/m][mm] [mm] **38 58 78 103 130** B<sub>i</sub> + 16 **120 145 170 195 230** 0.77 - 1.47 26 36.75 25 70 95

Order example

_	[	,,,,,,,,				
$\overline{}$	TKA38	. 060 .	78	. 145 -		VS
<u> </u>	Туре	Stay variant	B <sub>i</sub> [mm]	KR [mm]	L <sub>k</sub> [mm]	Stay arrangement

Subject to change.

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Technical support:

## TKA38.080 | Dimensions · Technical data

## 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.





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





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

Inner heights

26

Inner widths 25 130

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#### Calculating the cable carrier length

#### Cable carrier length Lk

 $\begin{array}{l} L_k \approx \frac{L_S}{2} + L_B \\ \mbox{Cable carrier length } L_k \\ \mbox{rounded to pitch t} \end{array}$ 

h	h	D	D	VD	~
ni [mm]	IIG [mm]	Di [mm]	Pk [mm]	[mm]	<b>4k</b> [ka/m]
				70 95 120 145 170 195 230	

#### Order example



## TKA38 | Inner distribution | TS0 · TS1

#### **Divider systems**

As a standard, the divider system is mounted on every  $2^{\mbox{nd}}$  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 TSO without height separation

Vers.				<b>a<sub>x grid</sub></b> [mm]	n <sub>T</sub> min
Α	3.5	7	5	-	-
В	t	8	6	2	-
B <sub>i</sub> [	mm]	25 38	3 58	78 103	130
• a <sub>T mir</sub>	<b>n</b> [mm]	8.5 9	9	9 7.5	9



#### Divider system TS1 with continuous height separation



#### Order example



Please state the designation of the divider system (TS0, TS1  $\dots$ ), 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.

Technical support: technik@kabelschlepp.de

## TKA38 | End connectors | UMB

#### 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

**TKA** series



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▲ Assembly options

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

Bi [mm]	B <sub>EF</sub> [mm]	nz
25	43	2
38	56	3
58	76	5
78	96	7
103	121	9
130	148	13



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



## **Connection point** $\mathbf{F}$ – fixed point

M – driver

#### Connection type U – universal end connector

#### Order example

	UMB	].	F	U
00	UMB	٦.	M	U
	End connector	-	Connection point	Connection type

## TKA45 | Stay variants | Overview

	Pitch
$\overleftrightarrow$	45.5 mm



	Inner widths
$\left[ \longleftrightarrow \right]$	50 – 150 mm



## Stay variants







#### Design 060 ...... page 504

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 505

#### 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.

#### 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.

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## TKA45 | Installation dim. | Unsupported · Gliding

#### **Unsupported arrangement**



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







Inner heights









## TKA45.060 | Dimensions · Technical data

**Design guidelines** 

Technical support:

**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.







B<sub>i</sub> 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 Lk

 $\begin{array}{l} L_k \approx \frac{L_S}{2} + L_B \\ \mbox{Cable carrier length } L_k \\ \mbox{rounded to pitch t} \end{array}$ 

Bk KR hi h<sub>G</sub> Bi qk [mm] [mm] [mm] [kg/m] [mm] [mm] 36 51 50 75 100 125 150  $B_i + 16$ 82 95 125 145 170 200 230 1.34 - 2.29

#### Order example

	TKA45	. 060 .	125	. 170 -	1456	VS
<u> </u>	Туре	Stay variant	B <sub>i</sub> [mm]	KR [mm]	L <sub>k</sub> [mm]	Stay arrangement

Subject to change.

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## TKA45.080 | Dimensions · Technical data

## 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.





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





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 Lk

 $\begin{array}{l} L_k \approx \frac{L_S}{2} \ + L_B \\ \mbox{Cable carrier length } L_k \\ \mbox{rounded to pitch } t \end{array}$ 

hi	hG	Bi	Bk	KR	q <sub>k</sub>
[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]
36	51	50 75 100 125 150	B <sub>i</sub> + 16	82 95 125 145 170 200 230	1.34 – 2.29

#### Order example



**TKA** series

Inner heights

36

Inner widths 50 150

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## TKA45 | Inner distribution | TS0 · TS1

#### **Divider systems**

The divider system is mounted on every  $2^{nd}$  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).

#### Divider system TSO without height separation

Vers.			a <sub>c min</sub> [mm]	<b>a<sub>x grid</sub></b> [mm]	n <sub>T</sub> min	
Α	4	8	5.5	-	-	
В	1 8		5.5	2	-	
Bi	[mm]	50	75 10	0 125	150	
• a <sub>T mi</sub>	<b>n</b> [mm]	11 1	1.5 12	2 12.5	11	



#### Divider system TS1 with continuous height separation



#### 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.

## TKA45 | Inner distribution | TS3

#### Divider system TS3 with height separation consisting of plastic partitions

End divider

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).

#### Divider version A



Vers.	<b>a<sub>T min</sub></b> [mm]	<b>a<sub>x min</sub></b> [mm]	a <sub>c min</sub> [mm]	n <sub>T</sub> min
Α	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.



	VR0	VR1	VR2	VR3	VR23	VR21	VR <u>13</u>				
	·36	16.75 16.75	10.25 23.25	23.25	10.25 10.5 10.25	10.25	16.75	2.5	$\frac{2}{1} = \begin{pmatrix} 2 \\ 1 \\ 3 \\ 3 \\ - \end{pmatrix}$		Alley
U		<u>▶़∔</u> •							KR		
	aT	a <sub>x</sub>		ac	. (	5 4	4	a <sub>T</sub>	End div	ider	

	$a_c$ (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	

a (contor distance of dividere) [mm]

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

#### Order example



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.







## TKA45 | End connectors | UMB

#### 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 50 150

▲ Assembly options

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

Bi [mm]	B <sub>EF</sub> [mm]	nz
50	70	2 x 3
75	95	2x5
100	120	2 x 7
125	145	2x9
150	170	2 x 11



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

$\overline{}$	UMB	].	F	U
<u> </u>	UMB	].	M	U
	End connector		Connection point	Connection type

## **TKA55** | Stay variants | Overview



Key for abbreviations on page 16

	Pitch
$\stackrel{\frown}{\rightrightarrows}$	55.5 mm



	Inner widths
$[\longleftrightarrow]$	50 – 250 mm



Bending radii 100 - 300 mm

## Stay variants





#### Design 060 page 512

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 guick release.

#### 

#### 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.

NB

#### 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.

**Design guidelines** 

from page 62

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## TKA55 | Installation dim. | Unsupported · Gliding

#### Unsupported arrangement



KR н Hz LR UB [mm] [mm] [mm] [mm] [mm] 





**TKA** series

Inner heights

Inner

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



#### Gliding arrangement



## **TKA55.060** | Dimensions · Technical data

- 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







B<sub>i</sub> 50 – 250 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 Lk

 $L_k \approx \frac{L_S}{2} + L_B$ Cable carrier length Lk rounded to pitch t

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]			B <sub>k</sub> [mm]	KR [mm]			<b>q<sub>k</sub></b> [kg/m]			
45	65	50	75	100		150		100	120	140	170	1.95
40	00	175	200	225	:		D <sub>j</sub> + 20	195	225	250	300	4.28

Order example

_								0770		VC
	7	TKA55	. 060 .	. 200	_ • L	225	[	2553	L	V3
00		Туре	Stay variant	B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]		Stay arrangement

**TKA** series

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## TKA55.080 | Dimensions · Technical data

## 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.











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





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 Lk

 $\begin{array}{l} L_k \approx \frac{L_S}{2} + L_B \\ \mbox{Cable carrier length } L_k \\ \mbox{rounded to pitch t} \end{array}$ 

h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	B <sub>i</sub> [mm]			B <sub>k</sub> [mm]	KR [mm]			<b>q<sub>k</sub></b> [kg/m]			
45	65	50	75	100	125	150	Bi + 20	100	120	140	170	1.95
40	00	175	200	225	250		D <sub>j</sub> + 20	195	225	250	300	4.28

#### Order example



## TKA55 | Inner distribution | TS0 · TS1

#### **Divider systems**

As a standard, the divider system is mounted on every  $2^{\mbox{nd}}$  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 TSO without height separation

٧	lers.		a <sub>x min</sub> a <sub>c mi</sub> [mm] [mm]			<b>l<sub>x grid [mm]</sub></b>	n <sub>T</sub> min
	Α	5	10	7		-	-
	B †		10	7		2	-
Г							
	Bi	[mm]	50	75	100	125	150
ŀ	a <sub>T m</sub>	in [mm]	13 1	1.5	12	12.5	13
	Bi	[mm]	175 2	200	225	250	
L	2-	in [mm]	11 5	10	125	10	



#### Divider system TS1 with continuous height separation

Vers.	<b>a<sub>T min</sub></b> [mm]	<b>a<sub>x min</sub></b> [mm]			<b>a<sub>x grid [mm]</sub></b>	n <sub>T</sub> min
Α	5	10	7	'	-	2
В	ſ	10	7	7	2	2
Bi	[mm]	50	75	100	) 125	150
	(mm) in (mm)					
-• a <sub>⊺ m</sub>		13	11.5	12		



#### 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.

## TKA55 | Inner distribution | TS3

#### Divider system TS3 with height separation consisting of plastic partitions

End divider

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).

#### Divider version A



Vers.	<b>a<sub>T min</sub></b> [mm]	<b>a<sub>x min</sub></b> [mm]	<b>a<sub>c min</sub></b> [mm]	n <sub>T</sub> min
Α	4/2*	14	10	2
+ Ess Ess	at data a	••••••		•••••

\* For End divider

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



_	VR0	VR1	VR2	VR3	VR23	VR21	VR13	τ			
		21.25	12.25	30.25	12.25 15.5 12.25	12.25	21.25	↓ ↓ 2.5	2 - 1 - 3 - KR	J. H. H.	71
		<ul> <li>a<sub>x</sub> ►</li> </ul>		<b>a</b> c	- <b>&gt;</b>  _{{	₃  ⊶→	_  <b></b> ₄		End div	ider	



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

#### Order example



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.







## TKA55 | End connectors | UMB

#### 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





▲ Assembly options

0	Recommended tightening torque: 5 Nm for
$\overline{\Pi}$	
G	Recommended tightening torque: 5 Nm for cheese-head screws ISO 4762 - M5 x 8.8

Bi [mm]	B <sub>EF</sub> [mm]	nz
50	74	2 x 3
75	99	2x5
100	124	2x7
125	149	2x9
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.



 $\begin{array}{l} \text{Connection point} \\ \text{F} & - \text{ fixed point} \\ \text{M} & - \text{ driver} \end{array}$ 

#### Connection type U – universal end connector

#### Order example

	UMB	].	F	U
<u> </u>	UMB	].	M	U
	End connector	-	Connection point	Connection type