

# KABELSCHLEPP

**UNIFLEX** Advanced series



PLASTIC CABLE CARRIERS  
UNIVERSAL AND WITH MANY VARIANTS  
WITH BALL JOINT

# UNIFLEX *Advanced* series

Light, quiet all-rounder  
with a wide range of applications\*



\* Some features can be  
different for certain types for  
design reasons.

Subject to change.



**Inner heights**  
20 – 44 mm



**Inner widths**  
15 – 25 mm



**Pitch**  
32.0 – 66.5 mm



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



**Travel length unsupported**  
up to 7 m



**Travel length gliding**  
up to 150 m



**Travel speed**  
up to 10 m/s



**Travel acceleration**  
up to 50 m/s<sup>2</sup>

All technical data and features depend on application and type. Let us know your requirements – we are here to help!

Fon: +49 2762 4003-0 or

E-mail: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

kabelschlepp.de

Configure your cable carrier:  
onlineengineer.de



Technical support:  
technik@kabelschlepp.de

## Features

- Universal connection options
- Extensive unsupported lengths
- High torsional rigidity
- Good ratio of inner to outer width
- Low noise emissions
- Numerous custom material types for custom applications available
- Easy assembly
- Fast cable laying
- Assembly tools available
- Stays with ball joint, opening on both sides
- Strain relief integrated into the end connector
- Many possibilities for internal subdivision
- Optionally with C-rail integrated in the end connector
- Wear surfaces for gliding applications involving long travel lengths
- Fixable dividers

**OnlineEngineer.de**  
Cable Carrier Configurator



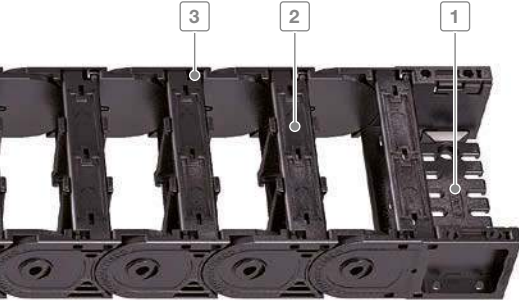
Fixable dividers for arrangement laying on its side and applications with high lateral Travel accelerations – no additional spacers required



Lateral wear surfaces – for long service life for applications where the carrier is rotated through 90°



Simple fixing of strain relief comb or C-Rail in the connector



Example of inner distribution

- 1 Universal Mounting Bracket (UMB) with integratable strain relief comb
- 2 Designs with inward or outward opening crossbars
- 3 Extremely fast and easy to open due to ball joint mechanism
- 4 Frame stay
- 5 Single-part links (design 020)
- 6 Favorable ratio of inner to outer width
- 7 Many separation options for the cables
- 8 Robust, double stroke system for long unsupported lengths
- 9 Easy divider fixing
- 10 Extremely low noise due to internal noise damping
- 11 Lateral wear surfaces
- 12 Single-part end connectors with integratable strain relief comb

Inner heights



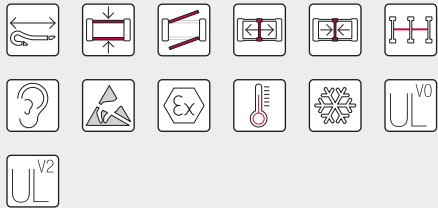
Inner widths



Key for abbreviations on page 72

## Selection criteria for UNIFLEX *Advanced*

- If easy, single-sided opening of the crossbars from inside or outside is required
- If cables have to be assembled quickly
- If an optional divider fixing should be available (e.g. for cable carrier laying on its side)
- If a gliding arrangement should be optionally available
- If additional loads up to 10 kg/m are required
- If a plastic crossbar is required
- If an integrated strain relief is required
- If horizontal cable partitioning is desired



- If a frame stay is required (e.g. for large hose diameters)

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Type	h <sub>i</sub> [mm]	B <sub>i</sub> [mm]	t [mm]	Page
UA1320	20	15 – 65	32.0	6
UA1455	26	25 – 103	45.5	16
UA1555	38	50 – 200	55.5	34
UA1665	44	50 – 250	66.5	52

# UA1320

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uniflex-advanced



Pitch  
32 mm



Height  
20 mm



Width  
15 - 65 mm



Bending radius  
28 - 125 mm

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onlineengineer.de

## Stay variants

### Design 020



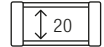
From page 8

#### Closed frame

- Weight-optimized, closed plastic frame with particularly high torsional rigidity.

#### Opening options

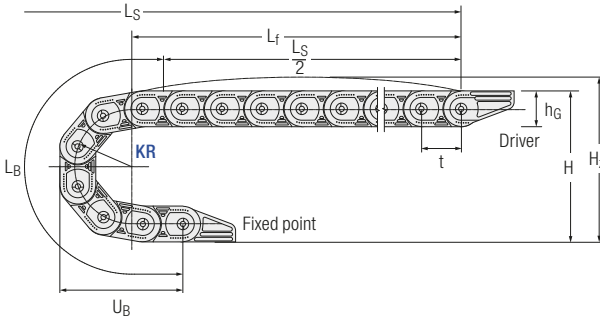
outside/inside: Closed.



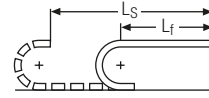
Technical support:  
technik@kabelschlepp.de



## Unsupported arrangement



### Unsupported length $L_f$



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

Inner heights



Inner widths



Dynamics of unsupported arrangement		t
$v_{max}$ [m/s]	$a_{max}$ [m/s <sup>2</sup> ]	[mm]
10	50	32

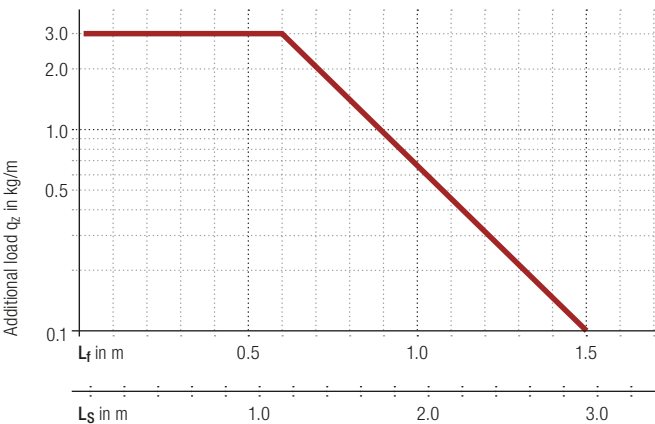
## Installation dimensions unsupported

KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
28	81.5	98.5	152	73
38	101.5	118.5	184	83
48	121.5	138.5	215	93
75	175.5	192.5	300	120
100	225.5	242.5	379	145
125	275.5	292.5	457	170

Key for abbreviations on page 72

## Load diagram

for unsupported length depending on additional load



### 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  $t$

Unsupported length  $L_f$

$$L_f = \frac{L_s}{2} + t$$

**Fixed point offset  $L_f$ :**  
For off-center fixed point connections please contact us.

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key on page 14



Stay variant 020 – closed frame

- Weight-optimized, closed plastic frame with particularly high torsional rigidity.
- Opening options **outside/inside**: Cannot be opened.

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

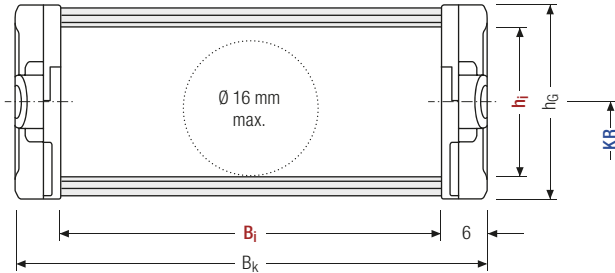


Stay arrangement on every chain link (VS)



$B_i$  from 15 – 65 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

$$B_k = B_i + 12 \text{ mm}$$



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

online-engineer.de  
Cable Carrier Configurator



QuickTrax® | EasyTrax®

For openable cable carriers with inner height 18 – 20 mm we recommend the series QuickTrax® 0320 or EasyTrax® 0320 QT0320 from page 8 and ET0320 from page 24.



Information on the inner distribution of the cable carrier can be found on page 10 f.



## Pitch, inner height and chain link height

t [mm]	$h_i$ [mm]	$h_G$ [mm]
32	20	25.5

Inner heights



## Bend radii

KR [mm]					
28	38	48	75	100	125

Inner widths



## Inner/outer width and intrinsic cable carrier weight

$B_i$ [mm]	$B_k$ [mm]	$q_k$ [kg/m]
15	27	0.36
25	37	0.39
38	50	0.42
50	62	0.44
65	77	0.48

Key for abbreviations  
on page 72

## Order example



UA1320	·	020	·	50	·	100	·	960
Type		Stay variant		$B_i$ [mm]		KR [mm]		$L_k$ [mm]

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key  
on page 14



## Divider systems

As standard, the divider system is assembled at each 2<sup>nd</sup> chain link.

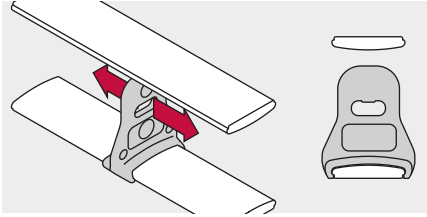
As standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (**version A**).

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

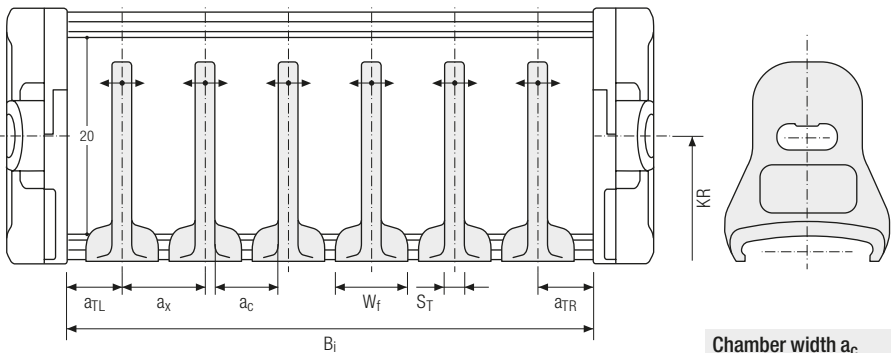
### Movable divider

Version A



### Divider system TSO without height separation

Version A				
$S_T$ [mm]	$W_f$ [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]
2	8	4	8	6



Chamber width  $a_c$

$$a_c = a_x - S_T$$

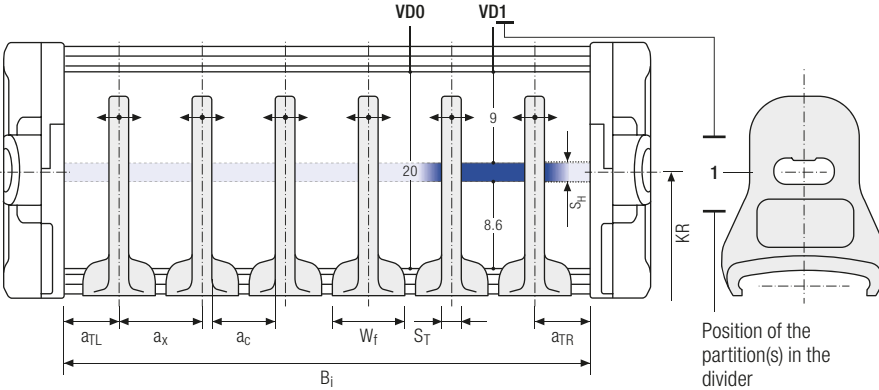
Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



Divider system TS1 with continuous height separation

Version A						
$S_T$ [mm]	$W_f$ [mm]	$S_H$ [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$n_T$ min
2	8	2.4	4	8	6	2



Inner heights  
20

Inner widths  
15  
65

Key for abbreviations  
on page 72

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 14




Standard height separation with **aluminum profile 9 x 2 mm**.  
The dividers can be moved in the cross section.

Chamber width  $a_c$

$$a_c = a_x - S_T$$



**TOTALTRAX® complete systems**  
Benefit from the advantages of a TOTALTRAX® complete system. Complete delivery from a single source – with a guarantee certificate on request! Learn more at [kabelschlepp.de/totaltrax](http://kabelschlepp.de/totaltrax)



**TRAXLINE® cables in motion**  
Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

**More product information online**



Assembly instructions etc.:  
Receive additional info via your smartphone or check online at [kabelschlepp.de/support](http://kabelschlepp.de/support)



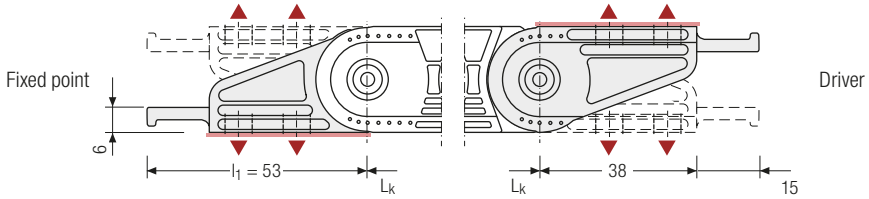
Configure your custom cable carrier:  
[onlineengineer.de](http://onlineengineer.de)

Information on the connection dimensions for the cable carrier can be found from page 12.

# UA1320 | End Connectors | End Connectors

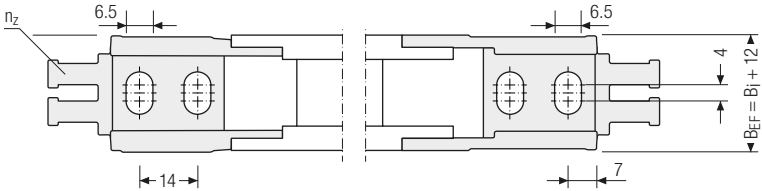
kabelschlepp.de/  
uniflex-advanced

The plastic end connectors can be **connected from above or below**. The connection type can be changed by turning the end connector.

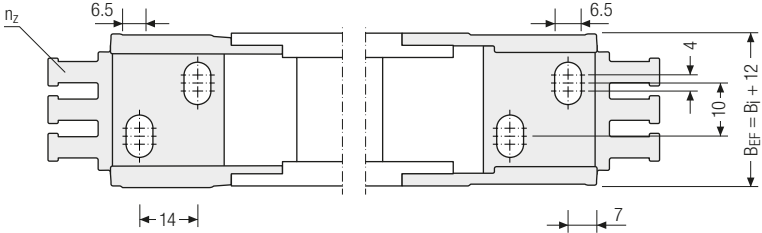


Configure your cable carrier:  
onlineengineer.de

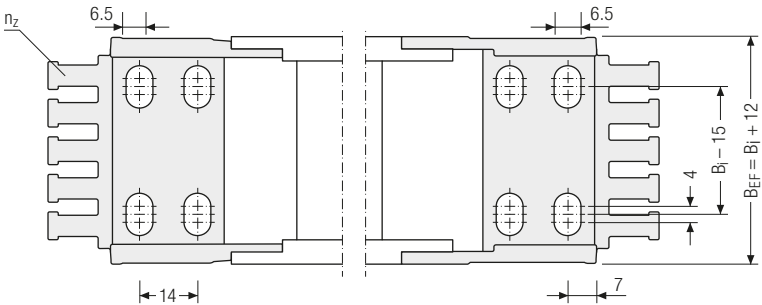
Bi: 15



Bi: 25



Bi: 38/50/65




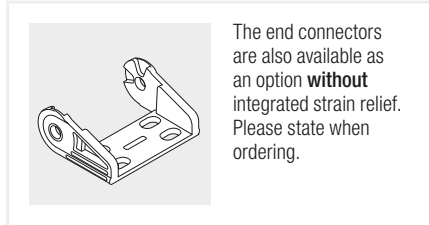
Technical support:  
technik@kabelschlepp.de

▲ Assembly options

## One part end connectors – plastic (with integrated strain relief)

$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
15	27	2
25	37	3
38	50	4
50	62	5
65	77	6

 The end connectors cannot be swiveled.



The end connectors are also available as an option **without** integrated strain relief. Please state when ordering.

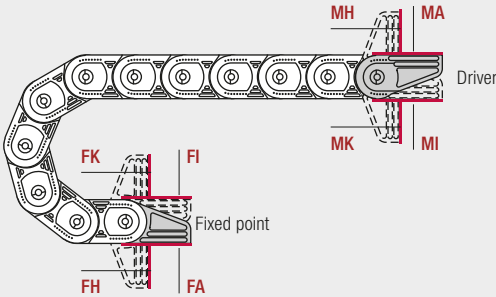
Inner heights



Inner widths



## Connection variants



### Connection point

**F** – fixed point  
**M** – driver

### Connection type

**A** – threaded joint outside (standard)  
**I** – threaded joint inside  
**H** – threaded joint, rotated through 90° to the outside  
**K** – threaded joint, rotated through 90° to the inside

Key for abbreviations on page 72

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key on page 14

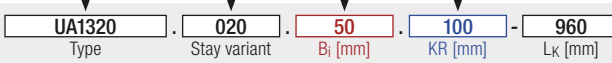


## Order

kabelschlepp.de/  
uniflex-advanced

### Cable carrier

Type	Stay variant	$B_i$ [mm]	KR [mm]	$L_K$ [mm]
UA1320	020	15	28	960
		25	38	
		38	48	
		50	75	
		50	100	
		65	125	



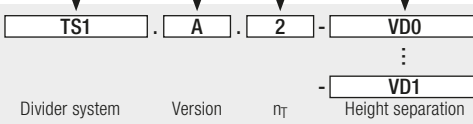
#### International order specification INTOK:

Information about the International Order Key can be found in the chapter "International Order Key" from page 1.

Configure your cable carrier:  
onlineengineer.de

### Divider system

Divider system	Version	$n_T$	Height separation (not for TS0)
TS0		min. 2	VD0
TS1	A	...	VD1



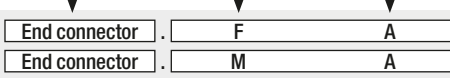
Please state the designation of the divider system (**TS0**, **TS1**), version and number of dividers per cross section [ $n_T$ ].

If using divider systems with height separation (**TS1**) please also state the positions [e.g. VD23] viewed from the left driver belt.

Technical support:  
technik@kabelschlepp.de

### Connection variant

End connector	Connection point	Connection type
End connector	F	A
		I
		H
End connector	M	A
		A

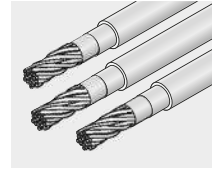


Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

## Accessories

### TRAXLINE® cables in motion

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers.



Inner heights

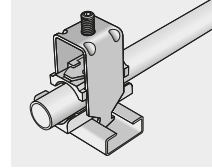


Inner widths



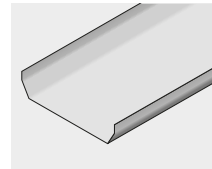
### LineFix® clamps

LineFix® clamps are fixed to the C-rail. They serve as a separate strain relief or separate attachment of the cables outside the cable carrier.



### Support trays

An even surface is required for safe unrolling of the cable carrier. This is ensured by a support tray.



Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key  
on page 14



### TOTALTRAX® complete systems

Benefit from the advantages of a TOTALTRAX® complete system. Complete delivery from a single source – with a guarantee certificate on request! Learn more at [kabelschlepp.de/totaltrax](http://kabelschlepp.de/totaltrax)

### More product information online



Assembly instructions etc.:  
Receive additional info via your  
smartphone or check online at  
[kabelschlepp.de/support](http://kabelschlepp.de/support)



Configure your  
custom cable carrier:  
[onlineengineer.de](http://onlineengineer.de)

# UA1455

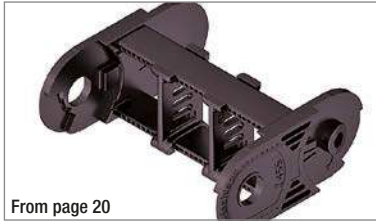
kabelschlepp.de/  
uniflex-advanced



Configure your cable carrier:  
onlineengineer.de

## Stay variants

### Design 020



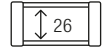
From page 20

#### Closed frame

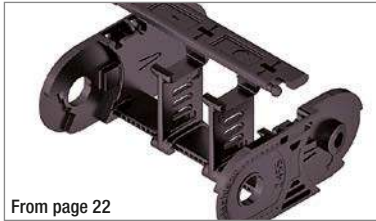
- Weight-optimized, closed plastic frame with particularly high torsional rigidity.

#### Opening options

**inside/outside:** Cannot be opened.



### Design 030



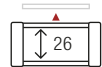
From page 22

#### Frame with externally detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.

#### Opening options

**outside:** Swivable and detachable.



### Design 040



From page 24

#### Frame with internally detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.

#### Opening options

**inside:** Swivable and detachable.



Technical support:  
technik@kabelschlepp.de





Inner heights



Inner widths



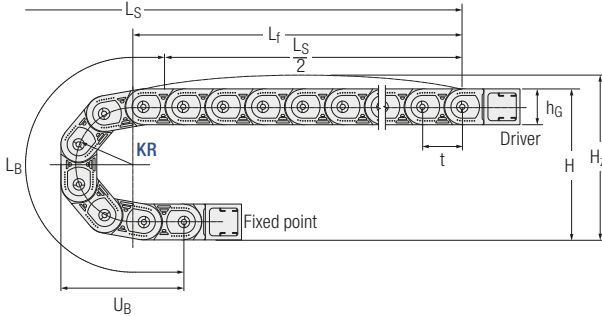
Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

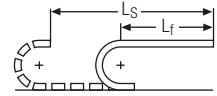
Order key  
on page 32



## Unsupported arrangement



### Unsupported length $L_f$



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

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uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

Dynamics of unsupported arrangement		t
$v_{max}$ [m/s]	$a_{max}$ [m/s <sup>2</sup> ]	[mm]
10	50	45.5

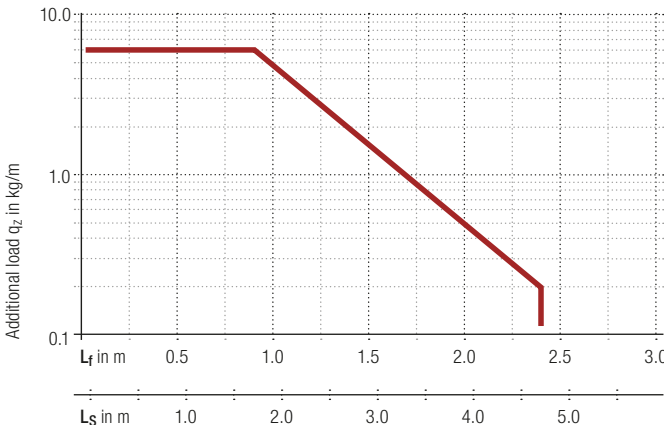
## Installation dimensions unsupported

KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]	KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
52	140	165	255	116	150	336	361	563	214
65	166	191	296	129	180	396	421	657	244
95	226	251	390	159	200	436	461	720	264
125	286	311	484	189	225	486	511	798	289

Technical support:  
technik@kabelschlepp.de

## Load diagram

for unsupported length depending on additional load



### 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  $t$

#### Unsupported length $L_f$

$$L_f = \frac{L_S}{2} + t$$



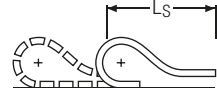
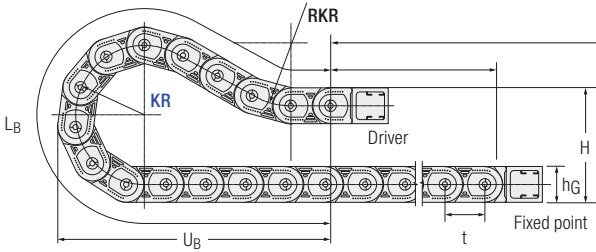
#### Fixed point offset $L_f$ :


For off-center fixed point connections please contact us.



Intrinsic cable carrier weight  $q_k = 0.75$  kg/m with  $B_i$  38 mm.  
For other inner widths the maximum additional load changes.

## Gliding arrangement




 For more information on gliding arrangement please contact us.

Inner heights


26

Inner widths

25  
130

 Only designs O20 and O30 may be used for gliding arrangements.

Dynamics of gliding arrangement		t
v <sub>max</sub> [m/s]	a <sub>max</sub> [m/s <sup>2</sup> ]	[mm]
2.5	20	45.5

 The gliding cable carrier has to be routed in a channel. Our engineers will be happy to help with project planning – 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  $t$

Key for abbreviations on page 72

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key on page 32



### TSUBAKI KABELSCHLEPP Technical Support

If you have any questions about determining gliding cable carriers or other technical details please contact our technical support service at [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de). We will be happy to help you.



Stay variant 020 – closed frame

- Weight-optimized, closed plastic frame with particularly high torsional rigidity.
- Opening options **outside/inside**: Cannot be opened.

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

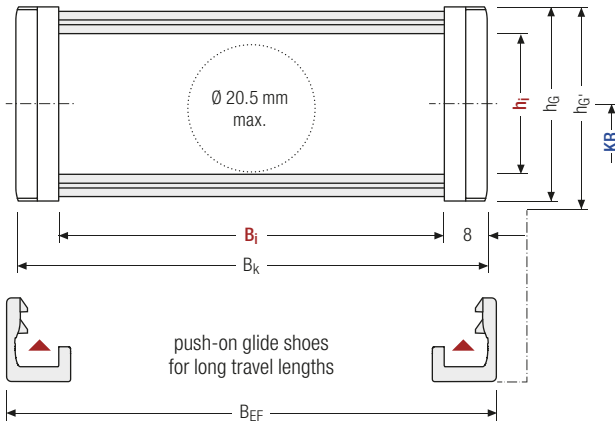


Stay arrangement on every chain link (VS)



$B_i$  from 25 – 130 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

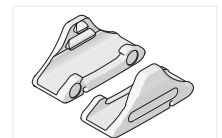
$$B_k = B_i + 16 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 19 \text{ mm}$$



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



Replaceable glide shoes



Information on the inner distribution of the cable carrier can be found on page 26.

## Pitch, inner height and chain link height

t [mm]	<b>h<sub>i</sub></b> [mm]	h <sub>G</sub> [mm]	h <sub>G</sub> <sup>*</sup> [mm]
45.5	<b>26</b>	36	38.5

Inner heights



## Bend radii

KR [mm]							
52	65	95	125	150	180	200	225*

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	q <sub>k</sub> [kg/m]
<b>25</b>	41	44	0.71
<b>38</b>	54	57	0.75
<b>58</b>	74	77	0.80
<b>78</b>	94	97	0.88
<b>103</b>	119	122	1.00
<b>130*</b>	146	147	1.12

Key for abbreviations  
on page 72

## Order example



UA1455	·	020	·	78	·	150	·	1,456
Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 32



Stay variant 030 – with outside opening and detachable crossbars

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.
- **Opening options outside:** Swivable and detachable.

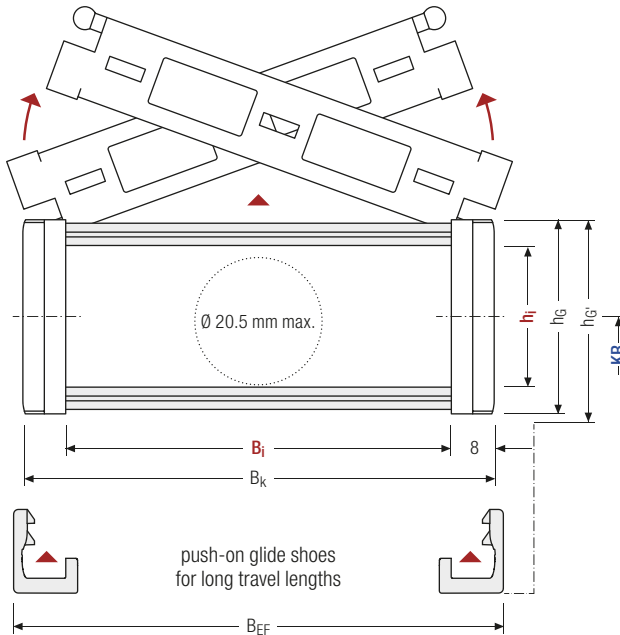


Stay arrangement on every chain link (VS)



$B_i$  from 25 – 130 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

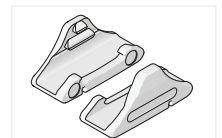
$$B_k = B_i + 16 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 19 \text{ mm}$$



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



Replaceable glide shoes



Information on the inner distribution of the cable carrier can be found on page 26.

## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G</sub> <sup>*</sup> [mm]
45.5	26	36	38.5

Inner heights



## Bend radii

KR [mm]							
52	65	95	125	150	180	200	225*

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	q <sub>k</sub> [kg/m]
25	41	44	0.73
38	54	57	0.75
58	74	77	0.80
78	94	97	0.88
103	119	122	0.98
130*	146	147	1.10

Key for abbreviations  
on page 72

## Order example

	UA1455	·	030	·	78	·	150	·	1,456
	Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 32



Stay variant 040 – with inside opening and detachable crossbars

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.
- **Opening options**  
inside: Swivable and detachable.

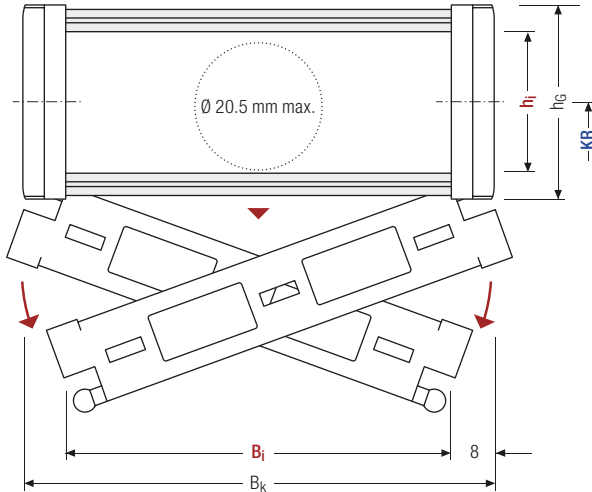


Stay arrangement on every chain link (VS)



$B_i$  from 25 – 130 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

Outer width  $B_k$

$$B_k = B_i + 16 \text{ mm}$$



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



Design 040 is not suitable for gliding arrangement.





## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]
45.5	26	36

Inner heights



## Bend radii

KR [mm]							
52	65	95	125	150	180	200	225*

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	q <sub>k</sub> [kg/m]
25	41	0.73
38	54	0.75
58	74	0.80
78	94	0.88
103	119	0.98
130*	146	1.10

Key for abbreviations  
on page 72

## Order example

	<b>UA1455</b> Type	·	<b>040</b> Stay variant	·	<b>78</b> B <sub>i</sub> [mm]	·	<b>150</b> KR [mm]	·	<b>1,456</b> L <sub>k</sub> [mm]
--	-----------------------	---	----------------------------	---	----------------------------------	---	-----------------------	---	-------------------------------------

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 32



## Divider systems

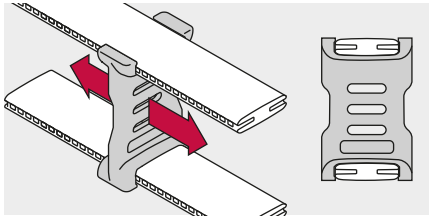
As standard, the divider system is assembled at each 2<sup>nd</sup> chain link.

As standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (**version A**).

The dividers are easily attached to the stay for applications with transverse acceleration and for laterally recumbent applications by simply turning them. The locking cams click into place in the locking grids in the crossbars (**version B**).

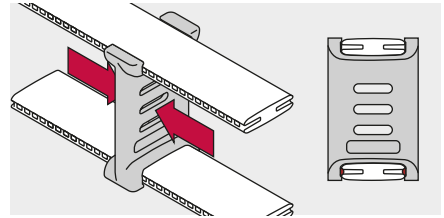
### Movable divider

#### Version A (Standard)



### Fixable divider (2.5 mm grid)

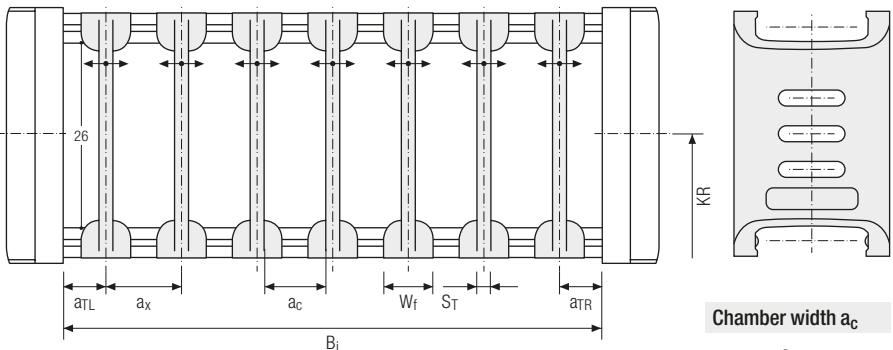
#### Version B



## Divider system TSO without height separation

$S_T$ [mm]	$W_f$ [mm]	$n_T$ max design 020	Version A			Version B*																								
			$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]																					
2	7		3.5	7	5		7.5	5.5	2.5																					
<table border="1"> <thead> <tr> <th><math>B_i</math> [mm]</th> <th>25</th> <th>38</th> <th>58</th> <th>78</th> <th>103</th> <th>130</th> </tr> </thead> <tbody> <tr> <td><math>a_{TL}/a_{TR}</math> min [mm]</td> <td>5</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>5</td> </tr> <tr> <td><math>n_T</math> max design 020</td> <td>0</td> <td>2</td> <td>5</td> <td>7</td> <td>11</td> <td>15</td> </tr> </tbody> </table>			$B_i$ [mm]	25	38	58	78	103	130	$a_{TL}/a_{TR}$ min [mm]	5	4	4	4	4	5	$n_T$ max design 020	0	2	5	7	11	15							
$B_i$ [mm]	25	38	58	78	103	130																								
$a_{TL}/a_{TR}$ min [mm]	5	4	4	4	4	5																								
$n_T$ max design 020	0	2	5	7	11	15																								

\* not design 020

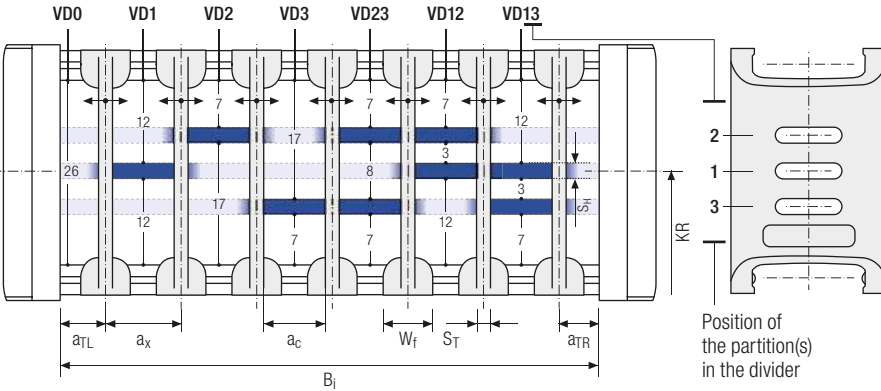


Chamber width  $a_c$   
 $a_c = a_x - S_T$

## Divider system TS1 with continuous height separation\*

$S_T$ [mm]	$W_f$ [mm]	$S_H$ [mm]	$n_T$ min	$a_T$ max [mm]	Version A			Version B																	
					$a_T$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_T$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]														
2	7	2	2	20	3.5	7	5		7.5	5.5	2.5														
					<table border="1"> <thead> <tr> <th><math>B_i</math> [mm]</th> <th>25</th> <th>38</th> <th>58</th> <th>78</th> <th>103</th> <th>130</th> </tr> </thead> <tbody> <tr> <td><math>a_{TL}/a_{TR}</math> min [mm]</td> <td>5</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>5</td> </tr> </tbody> </table>							$B_i$ [mm]	25	38	58	78	103	130	$a_{TL}/a_{TR}$ min [mm]	5	4	4	4	4	5
$B_i$ [mm]	25	38	58	78	103	130																			
$a_{TL}/a_{TR}$ min [mm]	5	4	4	4	4	5																			

\* not design 020



Position of the partition(s) in the divider

Inner heights  
26

Inner widths  
25  
130

Key for abbreviations on page 72

Standard height separation with aluminum profile 9 x 2 mm.

**Chamber width  $a_c$**

$$a_c = a_x - S_T$$

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)



### TRAXLINE® cables in motion

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

### More product information online



Assembly instructions etc.:  
Receive additional info via your smartphone or check online at [kabelschlepp.de/support](http://kabelschlepp.de/support)



Configure your custom cable carrier:  
[onlineengineer.de](http://onlineengineer.de)

Order key on page 32



# UA1455 | Inner Distribution | TS3

Divider system TS3 with height separation made of plastic section subdivisions\*

kabelschlepp.de/  
uniflex-advanced

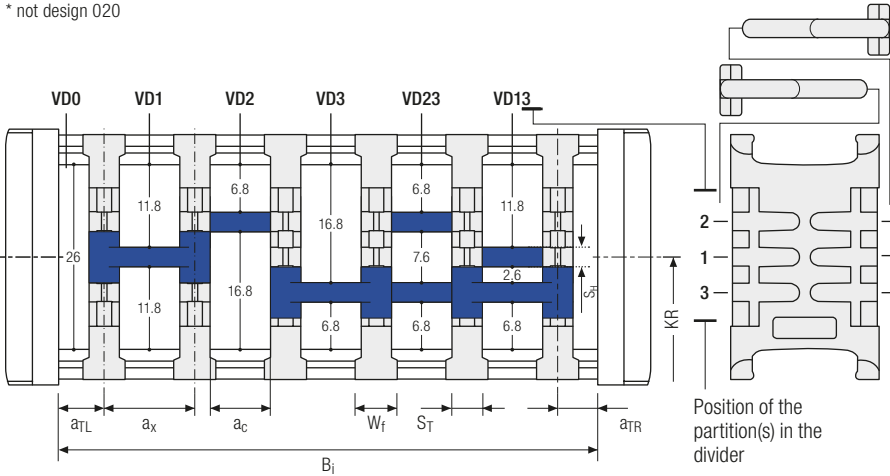
Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

Version A						
$S_T$ [mm]	$W_f$ [mm]	$S_H$ [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$n_T$ min
5	7	2.4	3.5	15	10	2

\* not design 020



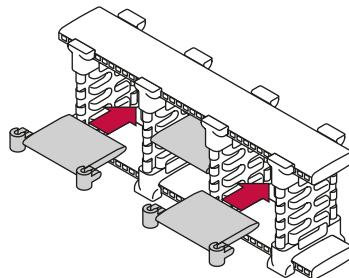
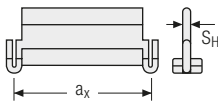
The dividers are fixed by the partitions, the complete divider system is movable in the cross section.

**Chamber width  $a_c$**

$$a_c = a_x - S_T$$

$a_x$ (center distance of dividers) [mm]									
$a_c$ (nominal width of inner chamber) [mm]									
15	20	25	30	35	40	45	55	65	75
10	15	20	25	30	35	40	50	60	70

Plastic section subdivisions in  $a_x$  increments

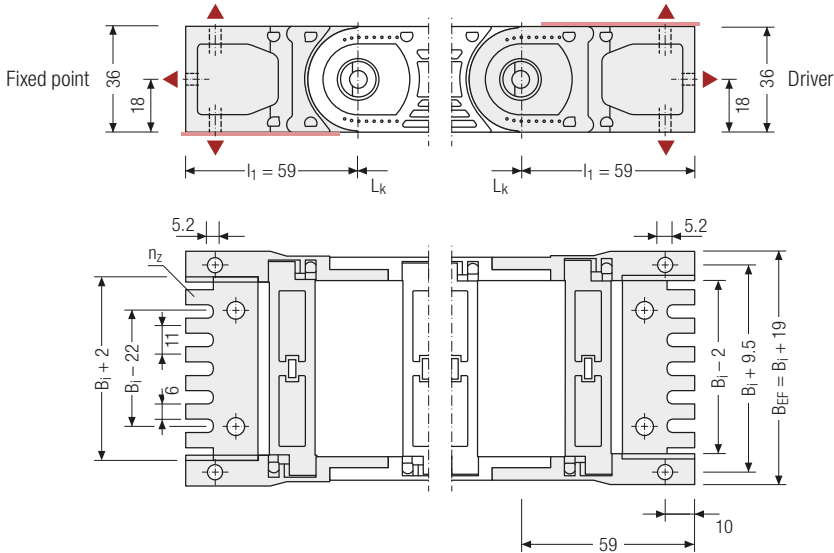


Assembly section subdivision

Information on the connection dimensions for the cable carrier can be found on page 29.

## Universal end connectors UMB – plastic (standard)

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



Inner heights



Inner widths

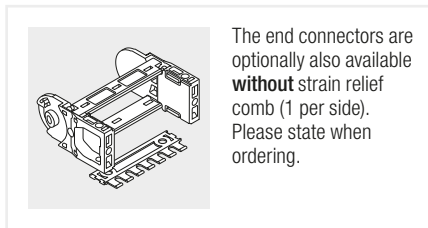


Key for abbreviations on page 72

### ▲ Assembly options

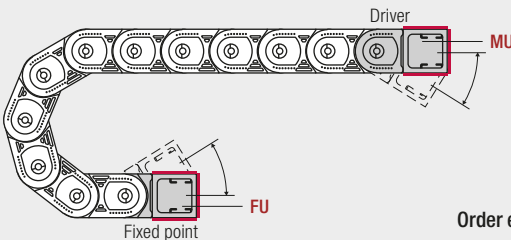
$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
25	44	2
38	57	3
58	77	5
78	97	7
103	122	9
130	149	11

**i** Recommended tightening torque:  
5 Nm for screws M5 - 8.8



Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

## Connection variants



### Connection point

**F** – fixed point  
**M** – driver

### Connection type

**U** – universal mounting bracket

### Order example

	UMB	.	F U
	UMB	.	M U

**i** The universal end connectors UMB can be swiveled in KR direction.

Order key on page 32



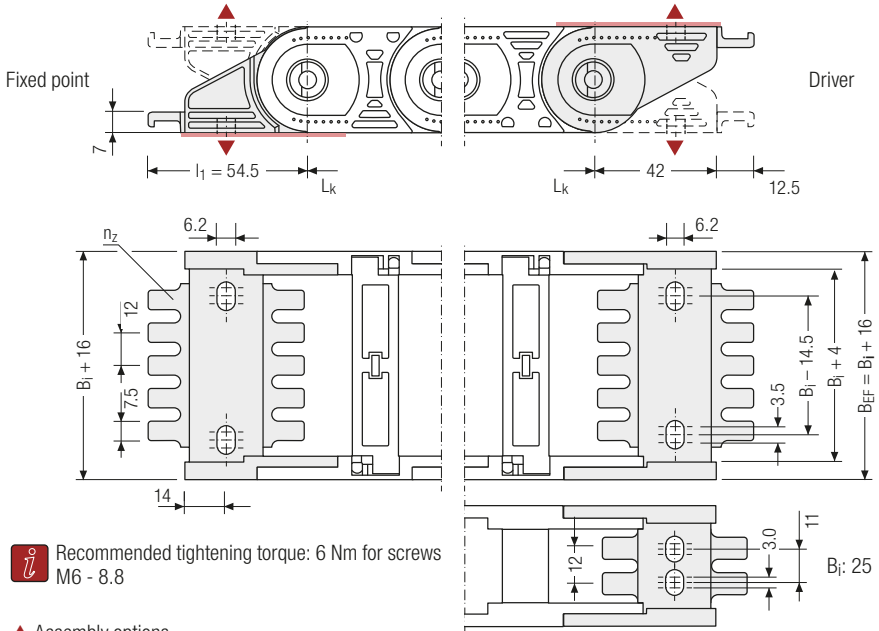
## One part end connectors – plastic

The plastic end connectors can be **connected from above and below**. The connection type can be changed by reconnecting the end connector.

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

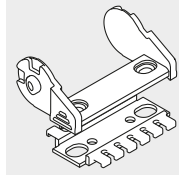
Technical support:  
technik@kabelschlepp.de



Recommended tightening torque: 6 Nm for screws M6 - 8.8

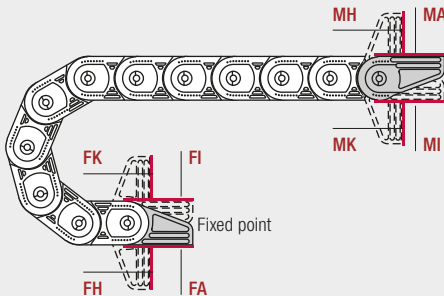
### ▲ Assembly options

$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
25	41	2 x 2
38	54	2 x 3
58	74	2 x 4
78	94	2 x 6
103	117	2 x 8
130	146	2 x 10



The end connectors are optionally also available **without** strain relief comb (except  $B_i$  25). Please state when ordering.

## Connection variants



### Connection point

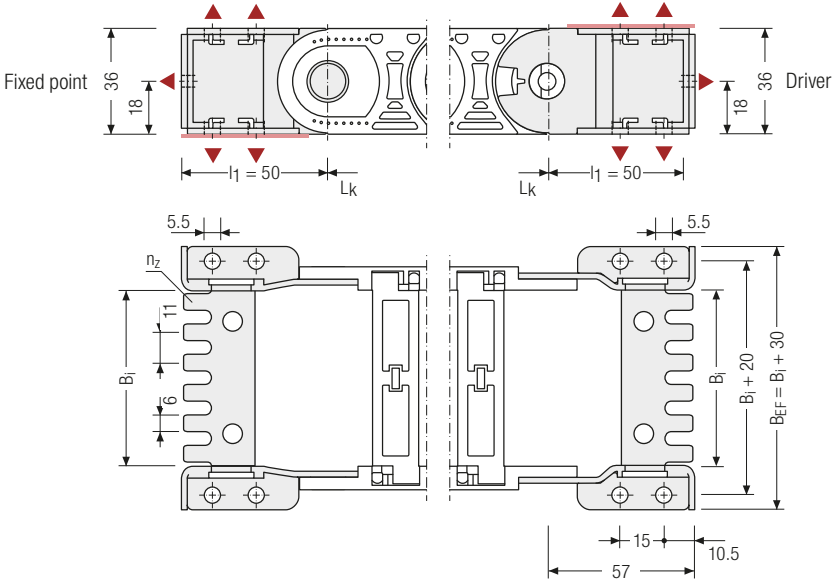
- F** – fixed point
- M** – driver

### Connection type

- A** – threaded joint outside (standard)
- I** – threaded joint inside
- H** – threaded joint outside rotated by 90°
- K** – threaded joint inside rotated by 90°

Universal end connectors UMB-St – steel

The universal mounting brackets (UMB) are made from steel and can be mounted from the top, from the bottom or face on.



Inner heights



Inner widths



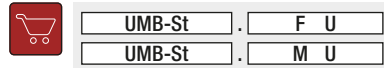
Key for abbreviations on page 72

▲ Assembly options

$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
25	55	2
38	68	3
58	88	5
78	108	7
103	133	9
130	160	11

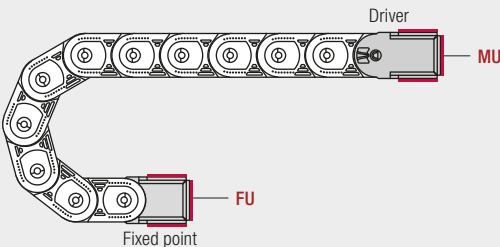
The end connectors are also available as an option **without** strain relief comb. Please state when ordering.

Order example



Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Connection variants



Connection point

- F – fixed point
- M – driver

Connection type

- U – universal mounting bracket

Order key on page 32



Subject to change.

Note: The end connectors UMB-St offer the same connection dimensions as the previous universal end connectors UMB from UNIFLEX 0455.

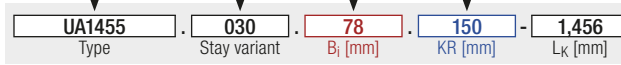
# UA1455 | Order Key

## Order

kabelschlepp.de/  
uniflex-advanced

### Cable carrier

Type	Stay variant	$B_i$ [mm]	KR [mm]	$L_K$ [mm]
UA1455	030	25	52	1,456
		38	65	
		58	95	
		78	125	
		103	150	
		130	180	
		040	200	
		225		

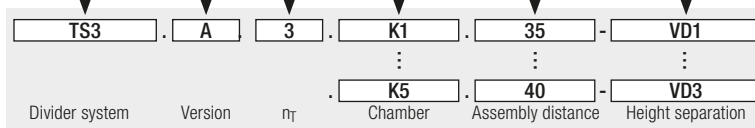


Configure your cable carrier:  
onlineengineer.de

**International order specification INTOK:**  
Information about the International Order Key can be found in the chapter "International Order Key" from page 1.

### Divider system

Divider system	Version	$n_T$	Chamber	$a_x$ [mm]	Height separation (not for TS0)
TS0			K1		VD0
TS1	A	min. 2	K2	min. 7.0	VD1
TS3	B	...	...	...	...

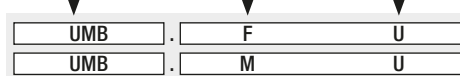


Technical support:  
technik@kabelschlepp.de

Please state the designation of the divider system (TS0, TS1 ...), version and number of dividers per cross section [ $n_T$ ]. Additionally, please enter the chambers [K] from left to right (driver view).  
If using divider systems with height separation (TS1 and TS3), please also state the positions [e.g. VD23] as viewed from the driver. You are welcome to add a sketch to your order.

### Connection variant

End connector	Connection point	Connection type
UMB	F	U
		A
		I
UMB-St	M	H
		K



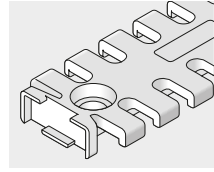
Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.



## Accessories

### Single-sided strain relief combs

The optional plastic strain relief combs are assembled between the UMB end connectors and require no separate screw fixing.



Inner heights

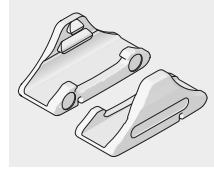


Inner widths



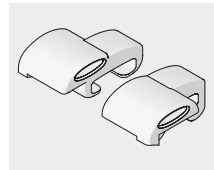
### Gliding elements

The optional glide shoes ensure a substantially longer service life of the cable carrier in gliding operation.



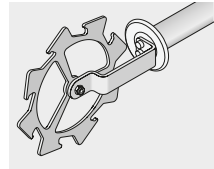
### Outer dampers

The use of outer dampers effectively reduces uncoiling noise. Particularly recommended for support trays and guide channels.



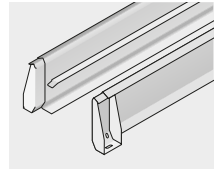
### Quick opening tool

Opening tools can be used to open cable carriers quickly and gently for installation and inspection of cables and hoses.



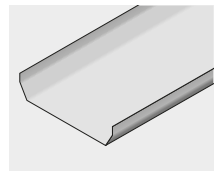
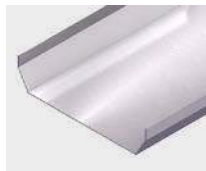
### Guide channels

The cable carrier always has to be guided in a channel for gliding applications. This prevents the upper and lower run from slipping.



### Support trays

An even surface is required for safe unrolling of the cable carrier. This is ensured by a support tray.



Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key  
on page 32



# UA1555

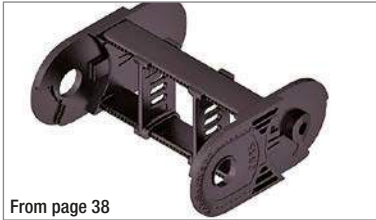
kabelschlepp.de/  
uniflex-advanced



Configure your cable carrier:  
onlineengineer.de

## Stay variants

### Design 020



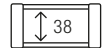
From page 38

#### Closed frame

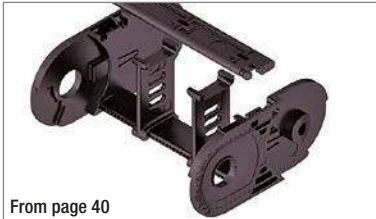
- Weight-optimized, closed plastic frame with particularly high torsional rigidity.

#### Opening options

**outside/inside:** Cannot be opened.



### Design 030



From page 40

#### Frame with externally detachable crossbars

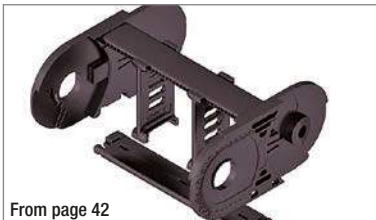
- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.

#### Opening options

**outside:** Swivable and detachable.



### Design 040



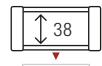
From page 42

#### Frame with internally detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.

#### Opening options

**inside:** Swivable and detachable.



Technical support:  
technik@kabelschlepp.de



Inner heights



Inner widths



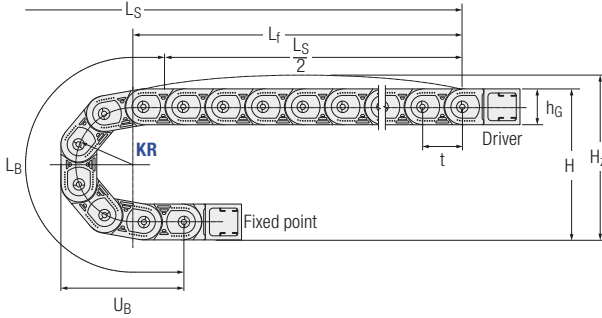
Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

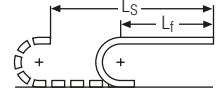
Order key  
on page 50



Unsupported arrangement



Unsupported length L<sub>f</sub>



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

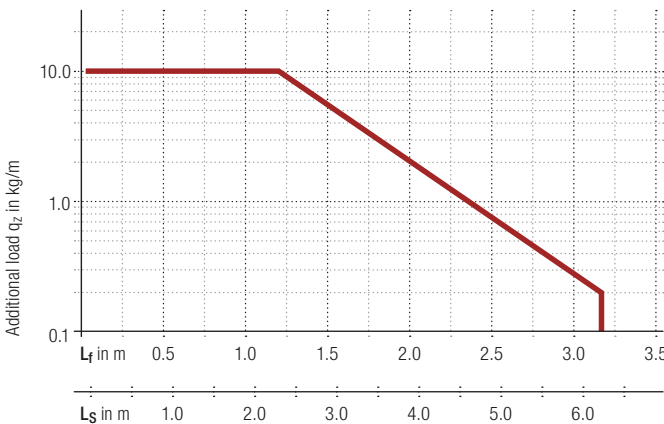
Dynamics of unsupported arrangement		t
v <sub>max</sub> [m/s]	a <sub>max</sub> [m/s <sup>2</sup> ]	[mm]
9	45	55.5

Installation dimensions unsupported

KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
63	176	216	309	145
80	210	240	362	165
100	250	280	425	185
125	300	330	504	210
160	370	400	614	245
200	450	480	740	285
230	510	540	834	315

Load diagram

for unsupported length depending on additional load



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

Unsupported length L<sub>f</sub>

$$L_f = \frac{L_S}{2} + t$$



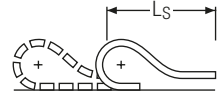
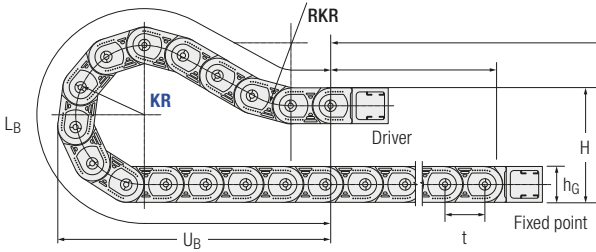
Fixed point offset L<sub>f</sub>:

For off-center fixed point connections please contact us.



Intrinsic cable carrier weight q<sub>k</sub> = 1.32 kg/m with B<sub>i</sub> 100 mm. For other inner widths the maximum additional load changes.

## Gliding arrangement



**i** For more information on gliding arrangement please contact us.

Inner heights  
**38**

Inner widths  
**50**  
**150**

**i** Only designs O20 and O30 may be used for gliding arrangements.

Dynamics of gliding arrangement		t
v <sub>max</sub> [m/s]	a <sub>max</sub> [m/s <sup>2</sup> ]	[mm]
3	20	55.5

## Installation dimensions gliding with RKR links

KR [mm]	H [mm]	n <sub>RKR</sub>	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
63	150	2	582	280
80	150	3	709	330
100	150	3	864	388
125	150	4	1,064	465
160	150	5	1,349	565
200	150	6	1,676	685
230	150	7	1,923	775

**i** Connection height H is standard. Please contact us if you require other connection heights H. We will be happy to advise you. Optionally, the OnlineEngineer is always available for the calculation.

The gliding cable carrier has to be routed in a channel. Our engineers will be happy to help with project planning – 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

**i** **Fixed point offset L<sub>f</sub>:**  
For off-center fixed point connections please contact us.

Key for abbreviations on page 72

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key on page 50



Stay variant 020 – closed frame

- Weight-optimized, closed plastic frame with particularly high torsional rigidity.
- Opening options  
**outside/inside:** Cannot be opened.

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

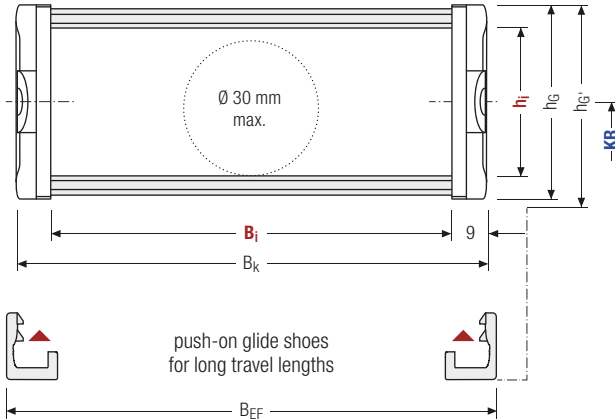


Stay arrangement on every chain link (VS)



$B_i$  from 50 – 150 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

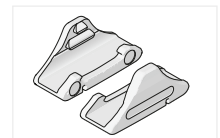
$$B_k = B_i + 18 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 22 \text{ mm}$$



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



Replaceable glide shoes



Information on the inner distribution of the cable carrier can be found on page 44 f.

## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G</sub> * [mm]
55.5	38	50	53

Inner heights



## Bend radii

KR [mm]						
63	80	100	125	160	200	230*

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	q <sub>k</sub> [kg/m]
50	68	72	1.13
75	93	97	1.23
100	118	122	1.33
125	143	147	1.42
150	168	172	1.52

Key for abbreviations  
on page 72

## Order example

	UA1555	·	020	·	125	·	160	·	1,887
	Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 50



Stay variant 030 – with outside opening and detachable crossbars

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.
- **Opening options outside:** Swivable and detachable.

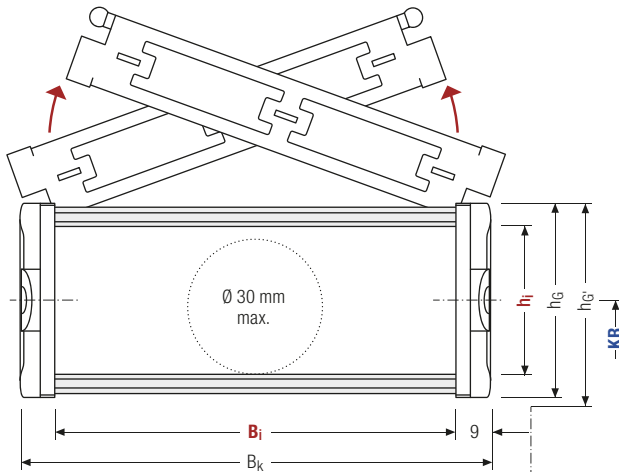


Stay arrangement on every chain link (VS)

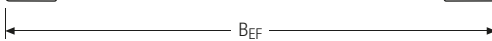


$B_i$  from 50 – 150 mm

Technical support:  
technik@kabelschlepp.de



push-on glide shoes for long travel lengths



Calculating the cable carrier width

**Outer width  $B_k$**

$$B_k = B_i + 18 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 22 \text{ mm}$$



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



Replaceable glide shoes



Information on the inner distribution of the cable carrier can be found on page 44 f.



## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G</sub> <sup>*</sup> [mm]
55.5	38	50	53

Inner heights



## Bend radii

KR [mm]						
63	80	100	125	160	200	230*

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	q <sub>k</sub> [kg/m]
50	68	72	1.13
75	93	97	1.23
90**	108	112	1.30
100	118	122	1.32
125	143	147	1.42
150	168	172	1.51

Key for abbreviations  
on page 72

## Order example



UA1555	030	125	160	1,887
Type	Stay variant	B <sub>i</sub> [mm]	KR [mm]	L <sub>K</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 50



Stay variant 040 – with inside opening and detachable crossbars

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.
- **Opening options**  
inside: Swivable and detachable.

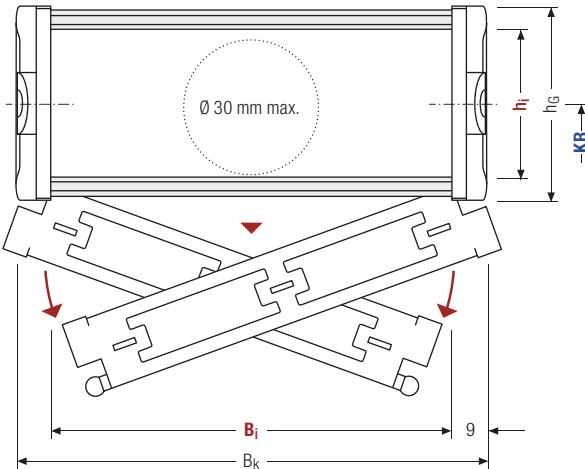


Stay arrangement on every chain link (VS)



$B_i$  from 50 – 150 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

Outer width  $B_k$

$$B_k = B_i + 18 \text{ mm}$$



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



Design 040 is not suitable for gliding arrangement.



## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]
55.5	38	50

Inner heights



## Bend radii

KR [mm]						
63	80	100	125	160	200	230*

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	q <sub>k</sub> [kg/m]
50	68	1.13
75	93	1.23
100	118	1.32
125	143	1.42
150	168	1.52

Key for abbreviations  
on page 72

## Order example

	UA1555	.	040	.	125	.	160	.	1,887
	Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 50



## Divider systems

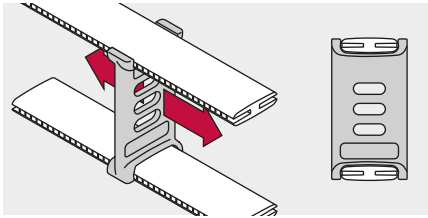
As standard, the divider system is assembled at each 2<sup>nd</sup> chain link.

As standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (**version A**).

The dividers are easily attached to the stay for applications with transverse acceleration and for laterally recumbent applications by simply turning them. The locking cams click into place in the locking grids in the crossbars (**version B**).

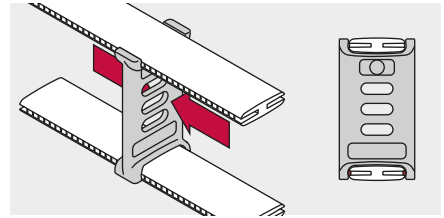
### Movable divider

#### Version A (Standard)



### Fixable divider (2.5 mm grid)

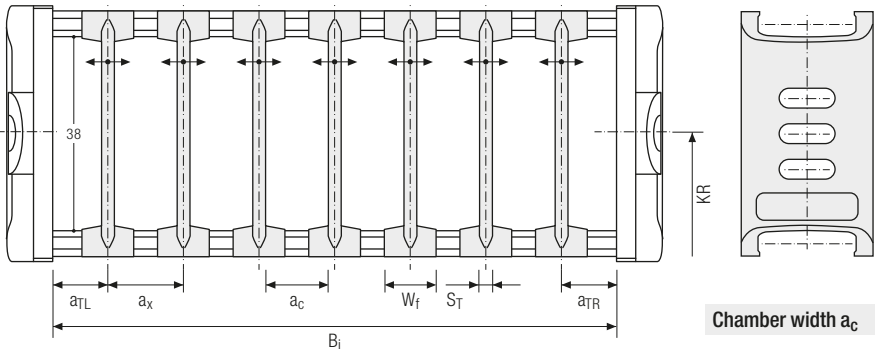
#### Version B



## Divider system TSO without height separation

$S_T$ [mm]	$W_f$ [mm]	$n_T$ max design 020	Version A			Version B*																	
			$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]														
2.5	10		5	10	7.5	5	10	7.5	2.5														
<table border="1"> <thead> <tr> <th><math>B_i</math> [mm]</th> <th>50</th> <th>75</th> <th>90</th> <th>100</th> <th>125</th> <th>150</th> </tr> </thead> <tbody> <tr> <td><math>n_T</math> max design 020</td> <td>2</td> <td>4</td> <td>6</td> <td>7</td> <td>9</td> <td>12</td> </tr> </tbody> </table>			$B_i$ [mm]	50	75	90	100	125	150	$n_T$ max design 020	2	4	6	7	9	12							
$B_i$ [mm]	50	75	90	100	125	150																	
$n_T$ max design 020	2	4	6	7	9	12																	

\* not design 020



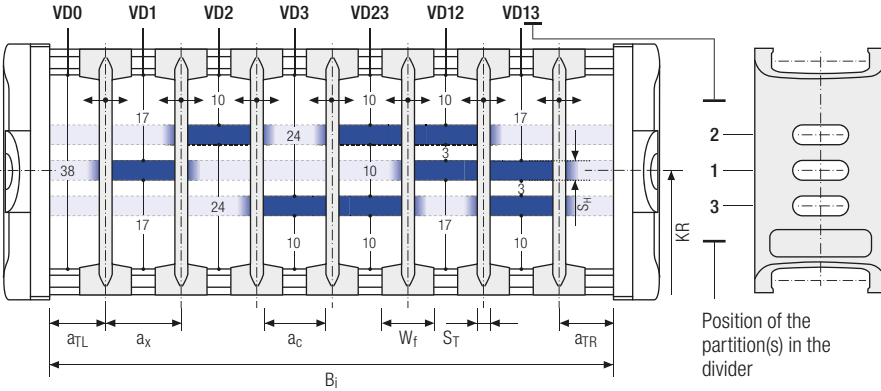
Chamber width  $a_c$

$$a_c = a_x - S_T$$

## Divider system TS1 with continuous height separation\*

S <sub>T</sub> [mm]	W <sub>f</sub> [mm]	S <sub>H</sub> [mm]	n <sub>T</sub> min	a <sub>T</sub> max [mm]	Version A			Version B			
					a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>T</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	a <sub>x</sub> grid [mm]
2.5	10	4	2	20	5	10	8	5	10	8	2.5

\* not design 020



Standard height separation with aluminum profile 11 × 4 mm.

**Chamber width a<sub>c</sub>**

$$a_c = a_x - S_T$$

Inner heights



Inner widths



Key for abbreviations  
on page 72

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 50



### TOTALTRAX® complete systems

Benefit from the advantages of a TOTALTRAX® complete system. Complete delivery from a single source – with a guarantee certificate on request! Learn more at [kabelschlepp.de/totaltrax](http://kabelschlepp.de/totaltrax)



### TRAXLINE® cables in motion

Hi-flex electric cables which were especially developed, optimized and tested for use in cable carriers can be found at [traxline.de](http://traxline.de)

### More product information online



Assembly instructions etc.:  
Receive additional info via your smartphone or check online at [kabelschlepp.de/support](http://kabelschlepp.de/support)



Configure your custom cable carrier:  
[onlineengineer.de](http://onlineengineer.de)

# UA1555 | Inner Distribution | TS3

Divider system TS3 with height separation made of plastic section subdivisions\*

kabelschlepp.de/  
uniflex-advanced

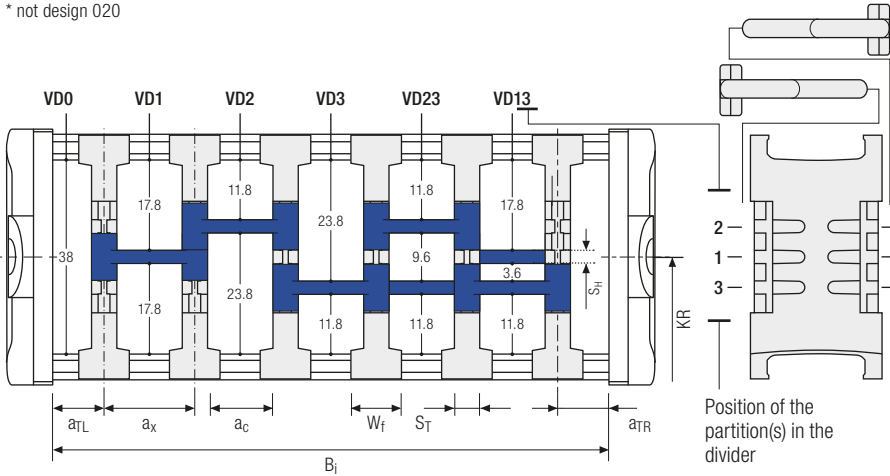
Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

Version A						
$S_T$ [mm]	$W_f$ [mm]	$S_H$ [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$n_T$ min
5	10	2.4	3.5	15	10	2

\* not design 020



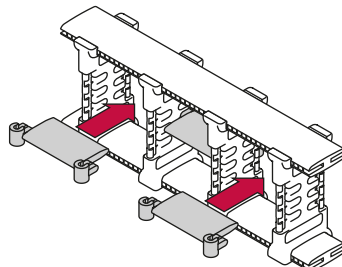
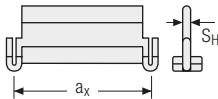
The dividers are fixed by the partitions, the complete divider system is movable in the cross section.

**Chamber width  $a_c$**

$$a_c = a_x - S_T$$

$a_x$ (center distance of dividers) [mm]									
$a_c$ (nominal width of inner chamber) [mm]									
15	20	25	30	35	40	45	55	65	75
10	15	20	25	30	35	40	50	60	70

Plastic section subdivisions in  $a_x$  increments

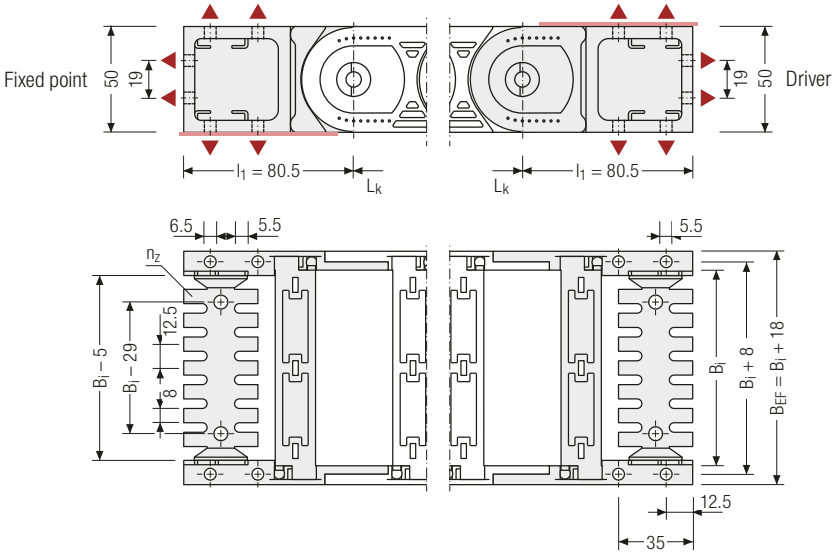


Assembly section subdivision

Information on the connection dimensions for the cable carrier can be found on page 47.

Universal end connectors UMB – plastic (standard)

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



Inner heights



Inner widths



Key for abbreviations on page 72

▲ Assembly options

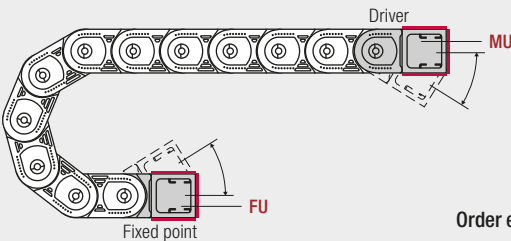
$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
50	68	2 × 3
75	93	2 × 5
90	108	2 × 6
100	118	2 × 7
125	143	2 × 9
150	168	2 × 11

Recommended tightening torque:  
5 Nm for screws M5 - 8.8

The end connectors are optionally also available **without** strain relief comb or **with** C-rail (1 per side) for clamps. Please state when ordering.

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Connection variants



Connection point

- F – fixed point
- M – driver

Connection type

- U – universal mounting bracket

Order example

	UMB	.	F U
	UMB	.	M U

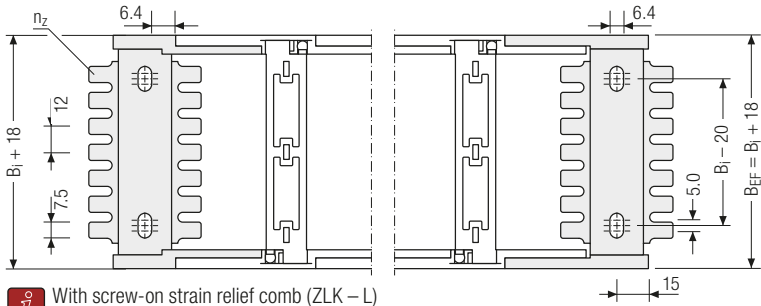
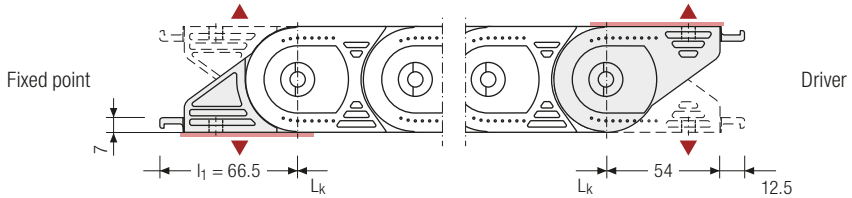
Order key on page 50



The universal end connectors UMB can be swiveled in KR direction.

## One part end connectors – plastic

The plastic end connectors can be **connected from above and below**. The connection type can be changed by reconnecting the end connector.



 With screw-on strain relief comb (ZLK - L)


kabelschlepp.de/  
uniflex-advanced

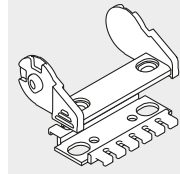
Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

### ▲ Assembly options

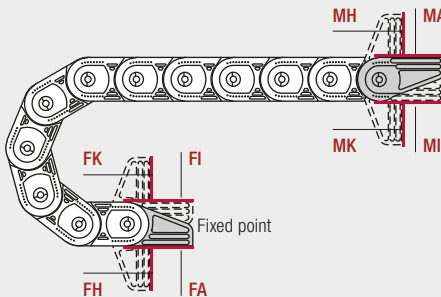
$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
50	68	2 x 4
75	93	2 x 6
100	118	2 x 8
125	143	2 x 10
150	168	2 x 12

 Recommended tightening torque:  
6 Nm for screws M6 - 8.8



The end connectors are also available as an option **without** strain relief comb. Please state when ordering.

## Connection variants



### Connection point

**F** – fixed point  
**M** – driver

Driver

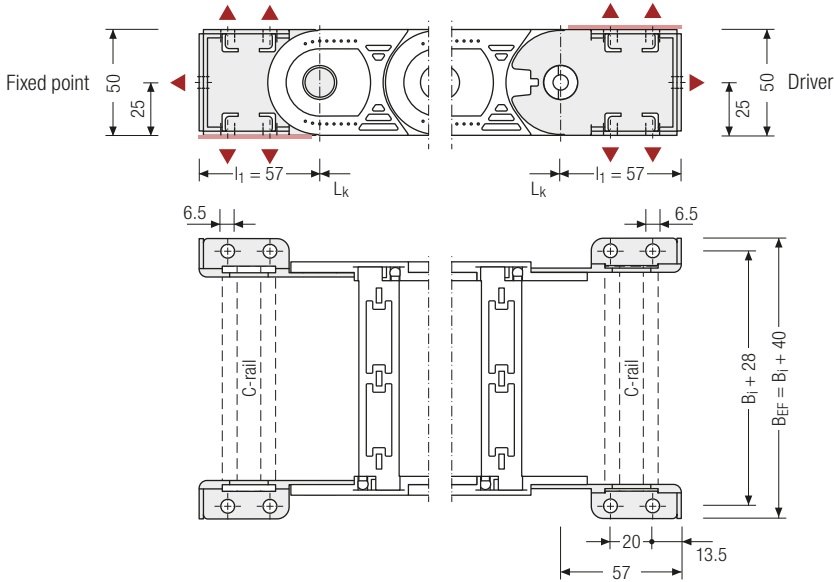
### Connection type

**A** – threaded joint outside (standard)  
**I** – threaded joint inside  
**H** – threaded joint, rotated through 90° to the outside  
**K** – threaded joint, rotated through 90° to the inside



## Universal end connectors UMB-St – steel

The universal mounting brackets (UMB) are made from steel and can be mounted from the top, from the bottom or face on.



### ▲ Assembly options

$B_i$ [mm]	$B_{EF}$ [mm]
50	90
75	115
90	130
100	140
125	165
150	190
200	240

The end connectors are also available as an option **with C-rail** for clamps. Please state when ordering.

### Order example



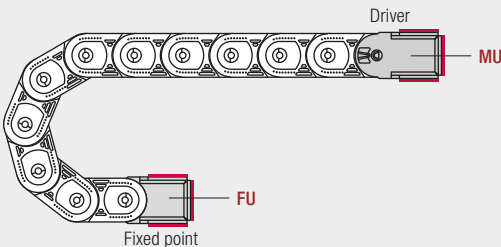
UMB-St

F U

UMB-St

M U

## Connection variants



### Connection point

**F** – fixed point

**M** – driver

### Connection type

**U** – universal mounting bracket

Inner heights



Inner widths



Key for abbreviations  
on page 72

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 50



Note: The end connectors UMB-St offer the same connection dimensions as the previous universal end connectors UMB from UNIFLEX 0555.

# UA1555 | Order Key

## Order

### Cable carrier

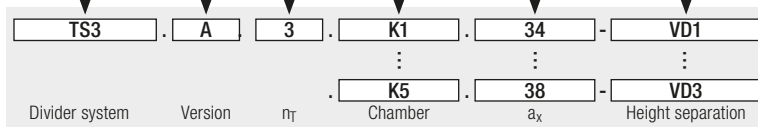
Type	Stay variant	$B_i$ [mm]	KR [mm]	$L_K$ [mm]
UA1555	020 030 040	50	63	1,887
		75	80	
		90	100	
		100	125	
		125	160	
		150	200	
		150	230	



**International order specification INTOK:**  
Information about the International Order Key can be found in the chapter "International Order Key" from page 1.

### Divider system

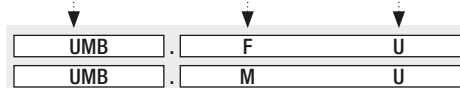
Divider system	Version	$n_T$	Chamber	$a_x$ [mm]	Height separation (not for TS0)
TS0			K1		VD0
TS1	A	min. 2	K2	min. 7.0	VD1
TS3	B	...	...	...	...



Please state the designation of the divider system (**TS0, TS1 ...**), version and number of dividers per cross section [ $n_T$ ]. Additionally, please enter the chambers [K] from left to right (driver view).  
If using divider systems with height separation (**TS1 and TS3**), please also state the positions [e.g. VD23] as viewed from the driver. You are welcome to add a sketch to your order.

### Connection variant

End connector	Connection point	Connection type
UMB End connector	F M	U
		A
		I
UMB-St		H
		K

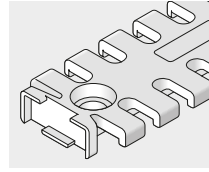


Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

## Accessories

### Single-sided strain relief combs

The optional plastic strain relief combs are assembled between the UMB end connectors and require no separate screw fixing.



Inner heights

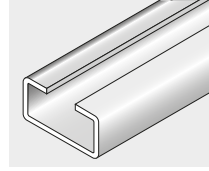


Inner widths



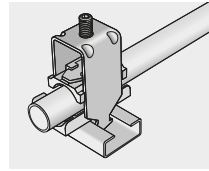
### C-rails for strain relief elements

The optional C-rails are secured by the UMB end connectors and do not require separate screw connections.



### LineFix® clamps

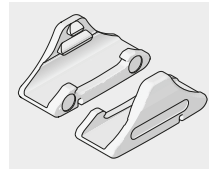
LineFix® clamps are fixed to the C-rail. They serve as a separate strain relief or separate attachment of the cables outside the cable carrier.



Key for abbreviations  
on page 72

### Gliding elements

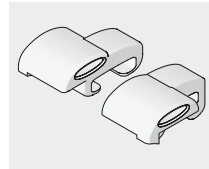
The optional glide shoes ensure a substantially longer service life of the cable carrier in gliding operation.



Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

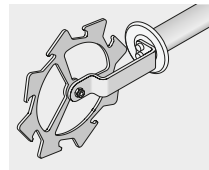
### Outer dampers

The use of outer dampers effectively reduces uncoiling noise. Particularly recommended for support trays and guide channels.



### Quick opening tool

Opening tools can be used to open cable carriers quickly and gently for installation and inspection of cables and hoses.



Order key  
on page 50



# UA1665

## Stay variants

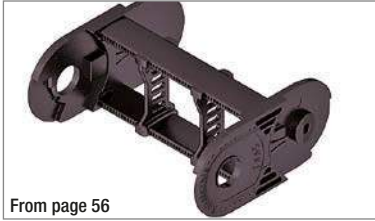
kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

### Design 020



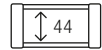
From page 56

#### Closed frame

- Weight-optimized, closed plastic frame with particularly high torsional rigidity.

#### Opening options

**inside/outside:** Cannot be opened.



### Design 030



From page 58

#### Frame with externally detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.

#### Opening options

**outside:** Swivable and detachable.



### Design 040



From page 60

#### Frame with internally detachable crossbars

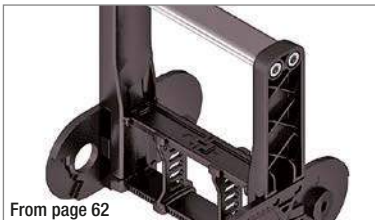
- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.

#### Opening options

**inside:** Swivable and detachable.



### Design RMA



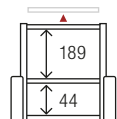
From page 62

#### Mounting frame stay

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Plastic crossbars and aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.

#### Opening options

**outside or inside:** Screw connection of the aluminum profile bars is easy to release.





**Pitch**  
66.5 mm



**Height**  
44 mm



**Width**  
50 – 250 mm



**Bending radius**  
75 – 300 mm



Inner heights



Inner widths



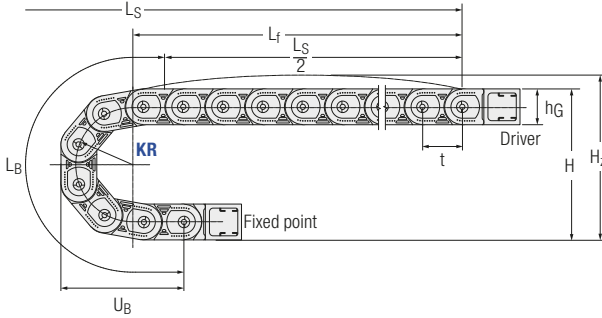
Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

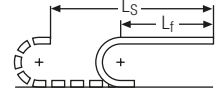
Order key  
on page 70



## Unsupported arrangement



### Unsupported length $L_f$



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

### Dynamics of unsupported arrangement

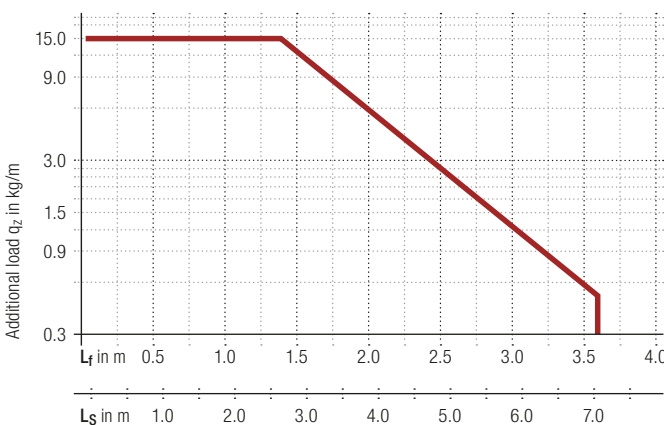
$v_{max}$ [m/s]	$a_{max}$ [m/s <sup>2</sup> ]	$t$ [mm]
8	40	66.5

## Installation dimensions unsupported

KR [mm]	H [mm]	H <sub>z</sub> [mm]	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
75	210	245	369	172
100	260	295	448	197
120	300	335	511	217
140	340	375	574	237
200	460	495	762	297
250	560	595	919	347
300	660	695	1,076	397

## Load diagram

for unsupported length depending on additional load



### 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  $t$

#### Unsupported length $L_f$

$$L_f = \frac{L_s}{2} + t$$



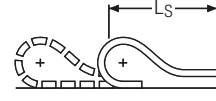
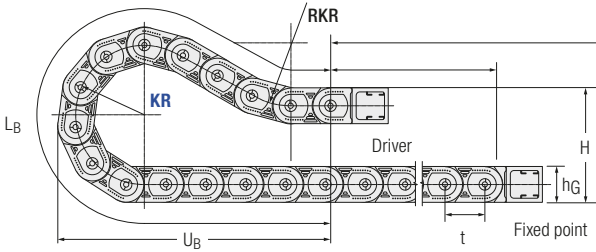
#### Fixed point offset $L_v$ :

For off-center fixed point connections please contact us.



Intrinsic cable carrier weight  $q_k = 2.43$  kg/m with  $B_i$  200 mm. For other inner widths the maximum additional load changes.

## Gliding arrangement



**i** For more information on gliding arrangement please contact us.

Inner heights

44

Inner widths

50  
250

**i** Only designs O20, O30 and RMA may be used for gliding arrangements.

Dynamics of gliding arrangement		t
v <sub>max</sub> [m/s]	a <sub>max</sub> [m/s <sup>2</sup> ]	[mm]
3	15	66.5

## Installation dimensions gliding with RKR links

KR [mm]	H [mm]	n <sub>RKR</sub>	L <sub>B</sub> [mm]	U <sub>B</sub> [mm]
75	180	2	694	333
100	180	2	881	405
120	180	3	1,038	464
140	180	3	1,197	523
200	180	4	1,684	701
250	180	6	2,094	850
300	180	7	2,506	1,000

**i** Connection height H is standard. Please contact us if you require other connection heights H. We will be happy to advise you. Optionally, the OnlineEngineer is always available for the calculation.

The gliding cable carrier has to be routed in a channel. Our engineers will be happy to help with project planning – 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

**i** **Fixed point offset L<sub>y</sub>:**  
For off-center fixed point connections please contact us.

Key for abbreviations on page 72

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key on page 70



Stay variant 020 – closed frame

- Weight-optimized, closed plastic frame with particularly high torsional rigidity.
- Opening options **outside/inside**: Cannot be opened.

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uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

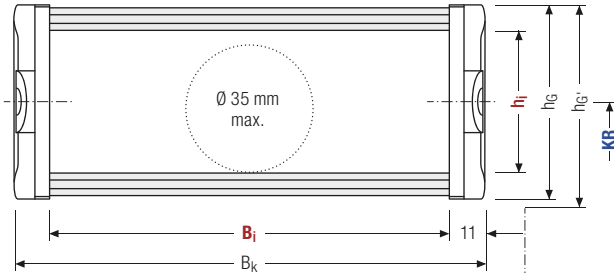


Stay arrangement on every chain link (VS)



$B_i$  from 50 – 250 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

$$B_k = B_i + 22 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 27 \text{ mm}$$



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



push-on glide shoes for long travel lengths



$B_{EF}$



Replaceable glide shoes



Information on the inner distribution of the cable carrier can be found on page 64 f.



## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]
66.5	44	60	63

Inner heights



## Bend radii

KR [mm]						
75	100	120	140	200	250	300

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	q <sub>k</sub> [kg/m]
50	72	77	1.67
75	97	102	1.82
100	122	127	1.95
125	147	152	2.09
150	172	177	2.22
175	197	202	2.36
200	222	227	2.49
225	247	252	2.63
250	272	277	2.76

Key for abbreviations  
on page 72

## Order example

	UA1665	·	020	·	125	·	140	·	2,660
	Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 70



Stay variant 030 – with outside opening and detachable crossbars

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.
- **Opening options**  
**outside:** Swivable and detachable.

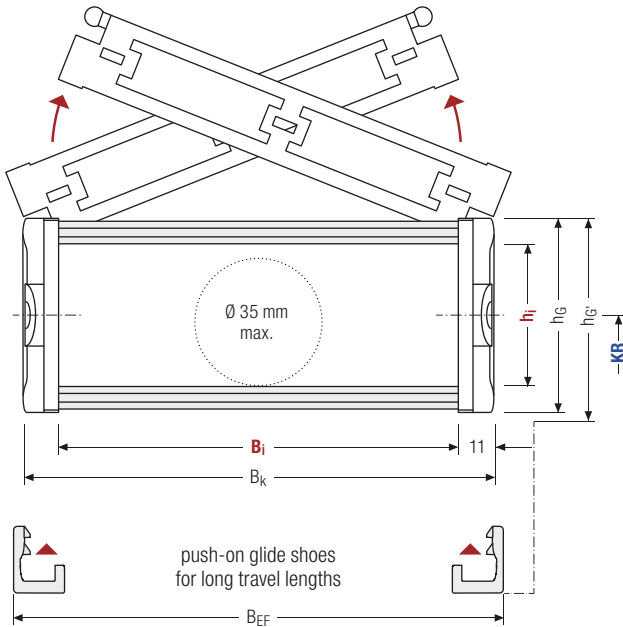


Stay arrangement on every chain link (VS)



$B_i$  from 50 – 250 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

$$B_k = B_i + 22 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 27 \text{ mm}$$



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



Replaceable glide shoes



Information on the inner distribution of the cable carrier can be found on page 64 f.

# UA1665.030 | Dimensions · Technical Data

## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]	h <sub>G'</sub> [mm]
66.5	44	60	63

Inner heights



## Bend radii

KR [mm]						
75	100	120	140	200	250	300

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	B <sub>EF</sub> [mm]	q <sub>k</sub> [kg/m]
50	72	77	1.67
75	97	102	1.80
100	122	127	1.92
125	147	152	2.06
150	172	177	2.18
175	197	202	2.31
200	222	227	2.43
225	247	252	2.57
250	272	277	2.70

Key for abbreviations  
on page 72

## Order example

	UA1665	·	030	·	125	·	140	·	2,660
	Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 70



Stay variant 040 – with inside opening and detachable crossbars

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable left or right in any position.
- **Opening options**  
inside: Swivable and detachable.

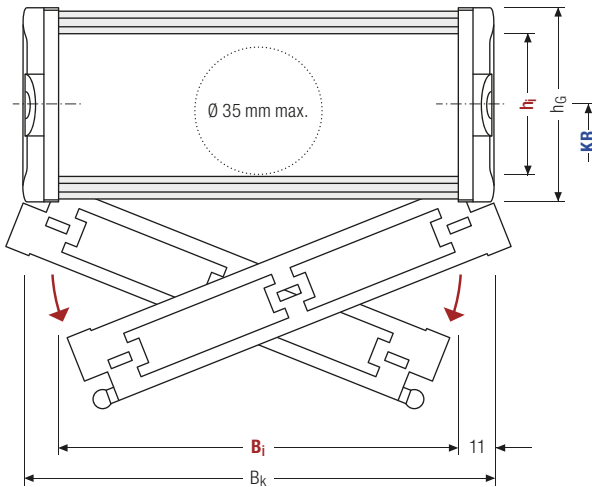


Stay arrangement on every chain link (VS)



$B_i$  from 50 – 250 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

Outer width  $B_k$

$$B_k = B_i + 22 \text{ mm}$$



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



Design 040 is not suitable for gliding arrangement.



## Pitch, inner height and chain link height

t [mm]	h <sub>i</sub> [mm]	h <sub>G</sub> [mm]
66.5	44	60

Inner heights



## Bend radii

KR [mm]						
75	100	120	140	200	250	300

Inner widths



## Inner/outer width and intrinsic cable carrier weight

B <sub>i</sub> [mm]	B <sub>k</sub> [mm]	q <sub>k</sub> [kg/m]
50	72	1.67
75	97	1.80
100	122	1.92
125	147	2.06
150	172	2.18
175	197	2.31
200	222	2.43
225	247	2.57
250	272	2.70

Key for abbreviations  
on page 72

## Order example

	UA1665	·	040	·	125	·	140	·	2,660
	Type		Stay variant		B <sub>i</sub> [mm]		KR [mm]		L <sub>k</sub> [mm]

Assembly instructions on  
kabelschlepp.de/assembly

Order key  
on page 70



Stay variant RMA – mounting frame stay

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Plastic crossbars and aluminum profile bars with plastic mounting frame stays for guiding very large cable diameters.
- **Opening options outside or inside:** Screw connection of the aluminum profile bars is easy to release.



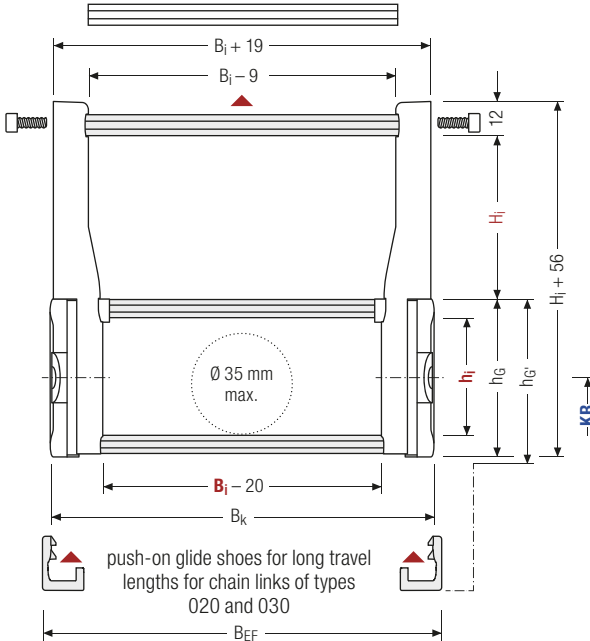
Stay arrangement on every chain link (VS)



$B_i$  from 125 – 200 mm

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



Calculating the cable carrier width

**Outer width  $B_k$**

$$B_k = B_i + 22 \text{ mm}$$

**Total width  $B_{EF}$**

$$B_{EF} = B_i + 27 \text{ mm}$$

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

Design 040 is not suitable for gliding arrangement.



Information on the inner distribution of the cable carrier can be found on page 64 f.

## Pitch, inner height and chain link height

t [mm]	$h_i$ [mm]	$h_G$ [mm]	$h_G'$ [mm]
66.5	44	60	63

Inner heights



## Bend radii

KR [mm]						
75	100	120	140	200	250	300

Inner widths



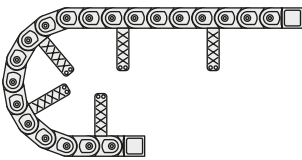
## Inner/outer width and intrinsic cable carrier weight

$B_i$ [mm]	$B_k$ [mm]	$B_{EF}$ [mm]	Locking bar [mm]	$H_i$ [mm]	$q_k$ (RVAI)* [kg/m]	$q_k$ (RVAO)* [kg/m]
125	147	152	100	114	3.10	3.58
150	172	177	125	139	3.38	3.94
175	197	202	150	164	3.67	4.30
200	222	227	???	189	3.95	4.66

\* indicated according to standard pitch

Key for abbreviations  
on page 72

## Assembly variants



### RVAI – assembly to the inside:

standard pitch, mounting frame stay on every 4<sup>th</sup> stay, no screw fixing.

Gliding application is not possible when using assembly version RVAI.

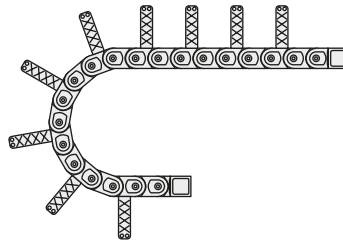
Observe minimum KR:

$H_i = 114$  mm:  $KR_{min} = 200$  mm

$H_i = 139$  mm:  $KR_{min} = 250$  mm

$H_i = 164$  mm:  $KR_{min} = 300$  mm

$H_i = 189$  mm:  $KR_{min} = 300$  mm



### RVAO – assembly to the outside:

standard pitch, mounting frame stay on every 2<sup>nd</sup> stay, no screw fixing.

The cable carrier has to rest on the side bands and not on the stays.

Guiding in a **channel is required** for support.

Please contact our technical support at [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de) to find the corresponding guide channel.

Please note the operating and installation height.

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key  
on page 70



## Divider systems

As standard, the divider system is assembled at every 2<sup>nd</sup> chain link.

As standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (**version A**).

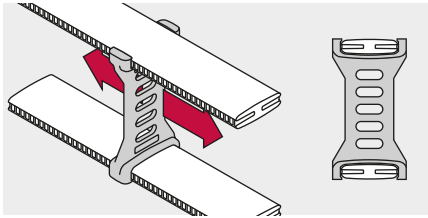
The dividers are easily attached to the stay for applications with transverse acceleration and for laterally recumbent applications by simply turning them. The locking cams click into place in the locking grids in the crossbars (**version B**).

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uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

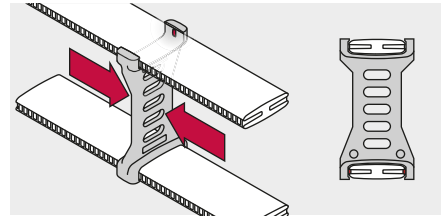
### Movable divider

#### Version A (Standard)



### Fixable divider (2.5 mm grid)

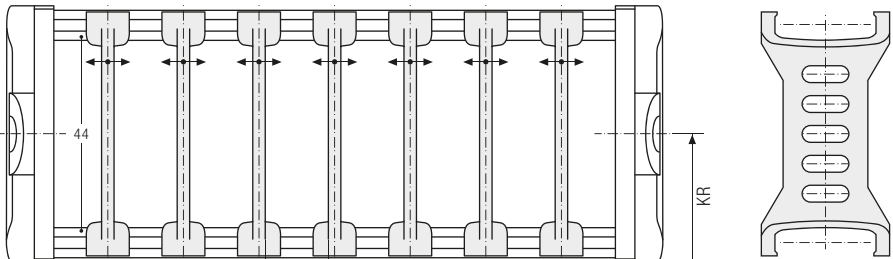
#### Version B



## Divider system TSO without height separation

$S_T$ [mm]	$W_f$ [mm]	$n_T$ max design 020	Version A			Version B**					
			$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_{TL}/a_{TR}$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]		
3	10		5	10	7	5	10	7	2.5		
$B_i$ [mm]			50	75	100	125	150	175	200	225	250
$n_T$ max design 020			0	4	6	9	11	14	16	19	21

\*\* not design 020



Chamber width  $a_c$

$$a_c = a_x - S_T$$

Technical support:  
technik@kabelschlepp.de

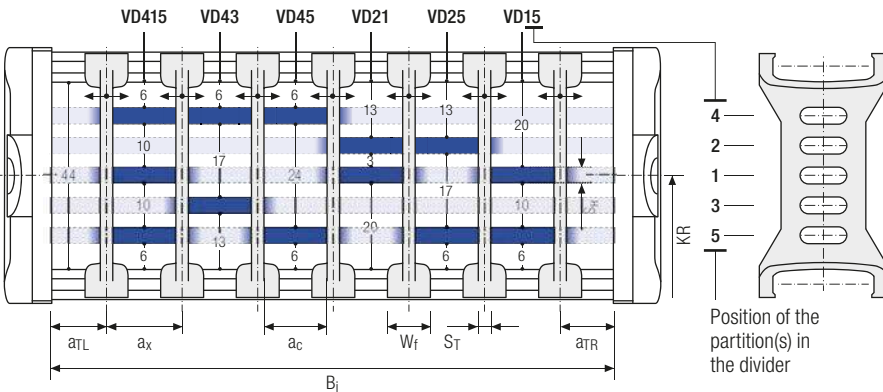
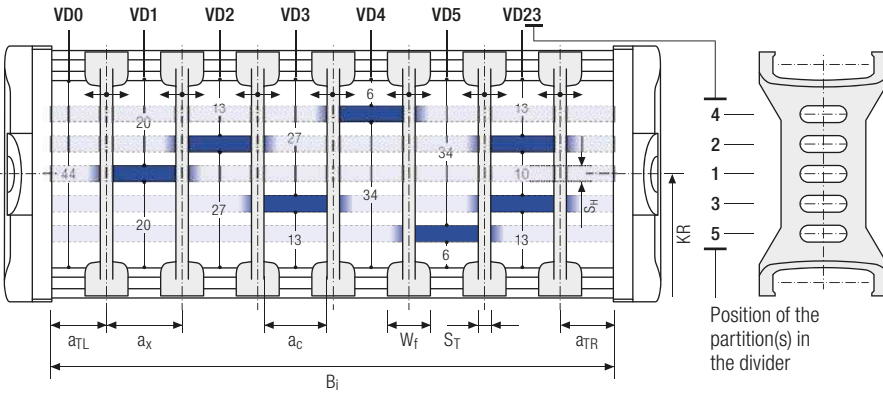




## Divider system TS1 with continuous height separation\*

$S_T$ [mm]	$W_f$ [mm]	$S_H$ [mm]	$n_T$ min	$a_T$ max [mm]	Version A			Version B			
					$a_T$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_T$ min [mm]	$a_x$ min [mm]	$a_c$ min [mm]	$a_x$ grid [mm]
3	10	4	2	20	5	10	10	5	10	7	2.5

\* not design 020



Inner heights  
44

Inner widths  
50  
250

Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Order key  
on page 70



Standard height separation with aluminum profile 11 × 4 mm.

**Chamber width  $a_c$**

$$a_c = a_x - S_T$$

# UA1665 | Inner Distribution | TS3

Divider system TS3 with height separation made of plastic section subdivisions\*

kabelschlepp.de/  
uniflex-advanced

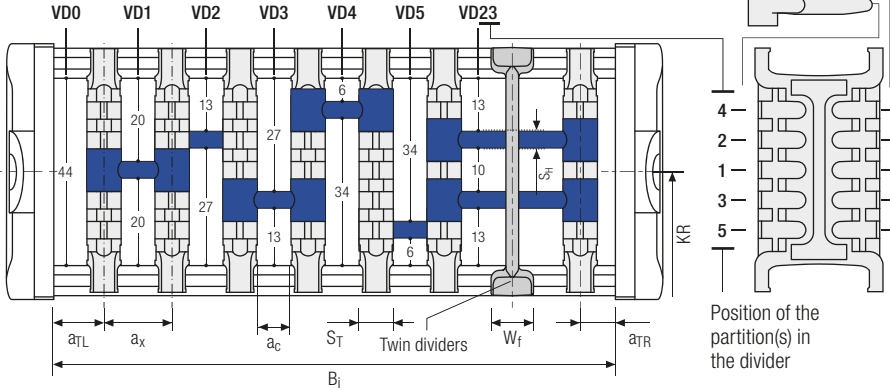
Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

Version A								
S <sub>T</sub> [mm]	S <sub>T</sub> twin divider [mm]	W <sub>f</sub> [mm]	W <sub>f</sub> twin divider [mm]	S <sub>H</sub> [mm]	a <sub>TL</sub> /a <sub>TR</sub> min [mm]	a <sub>x</sub> min [mm]	a <sub>c</sub> min [mm]	Π <sub>T</sub> min
8	3	8	10	4	4	16 / 40*	8	2

\* not design 020 \*\* For aluminum section subdivisions



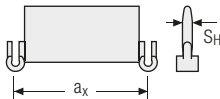
The dividers are fixed by the partitions, the complete divider system is movable in the cross section. Movable twin dividers are optionally available. Twin dividers are also suitable for retrofitting in the section subdivision system.

### Chamber width a<sub>c</sub>

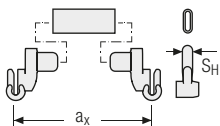
$$a_c = a_x - S_T$$

a <sub>x</sub> (center distance of dividers) [mm]														
a <sub>c</sub> (nominal width of inner chamber) [mm]														
16	18	23	28	32	33	38	43	48	58	64	68	78	80	88
8	10	15	20	24	25	30	35	40	50	56	60	70	72	80
96	112	128	144	160	176	192	208							
88	104	120	136	152	168	184	200							

Plastic section subdivisions in a<sub>x</sub> increments

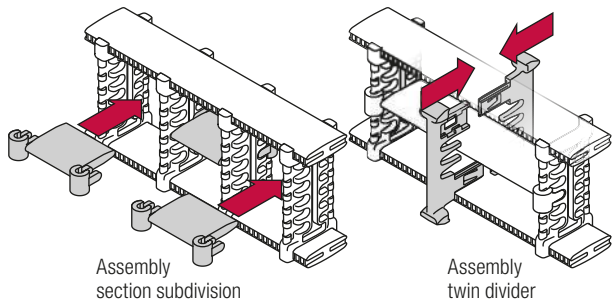


Aluminum section subdivisions with plastic adapters in 1 mm increments



When using section subdivisions with a<sub>x</sub> > 112 mm we recommend an additional center support with a twin divider.

When using twin dividers, the height separations VD4 and VD5 are not possible. Aluminum section subdivisions are only available with a<sub>x</sub> > 40 mm.

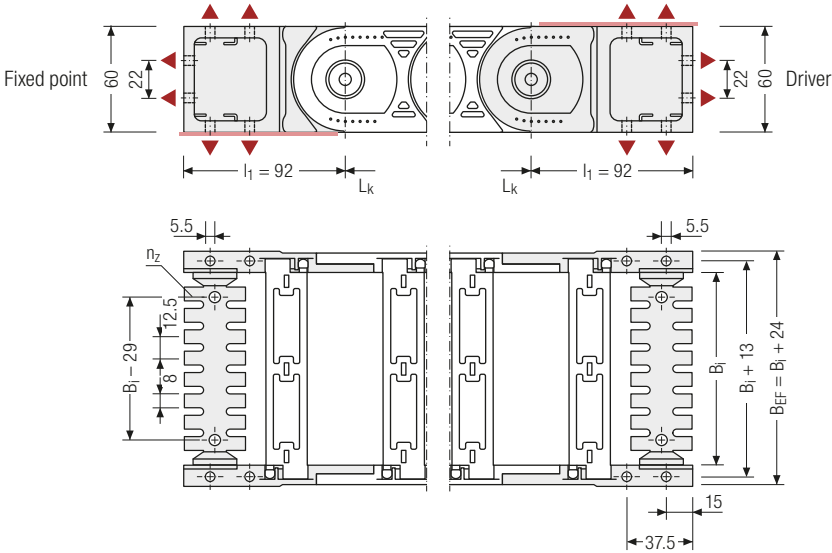


Assembly section subdivision

Assembly twin divider

## Universal end connectors UMB – plastic (standard)

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



Inner heights



Inner widths



Key for abbreviations on page 72

### ▲ Assembly options

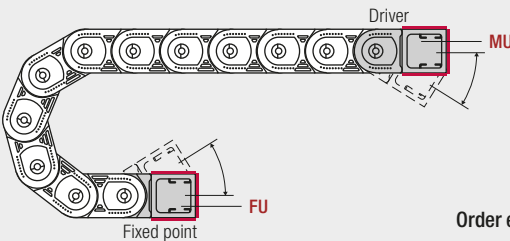
$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
50	74	2 x 3
75	99	2 x 5
100	124	2 x 7
125	149	2 x 9
150	174	2 x 11
175	199	2 x 13

Recommended tightening torque:  
5 Nm for screws M5 - 8.8

The end connectors are optionally also available **without** strain relief comb or **with** C-rail (1 per side) for clamps. Please state when ordering.

Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

## Connection variants



### Connection point

- F – fixed point
- M – driver

### Connection type

- U – universal mounting bracket

### Order example

	UMB	.	F U
	UMB	.	M U

Order key on page 70



The universal end connectors UMB can be swiveled in KR direction.

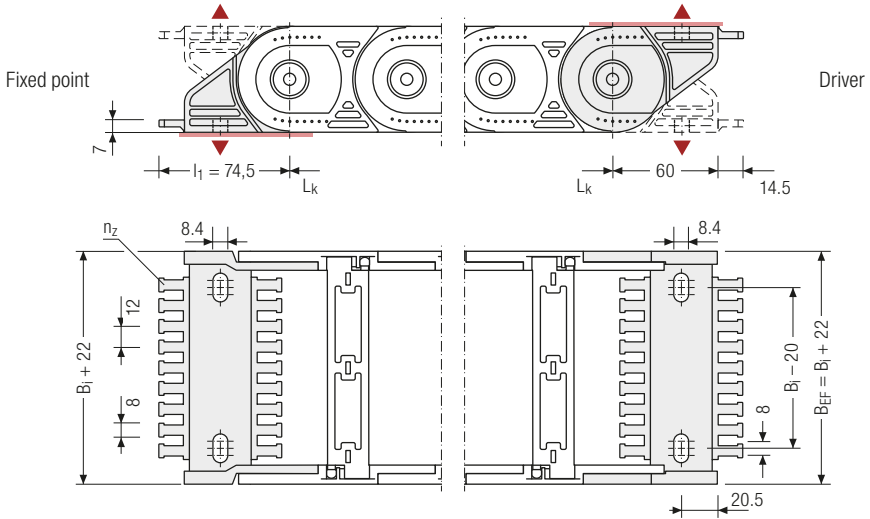
## One part end connectors – plastic

The plastic end connectors can be **connected from above and below**. The connection type can be changed by reconnecting the end connector.

kabelschlepp.de/  
uniflex-advanced


Configure your cable carrier:  
onlineengineer.de

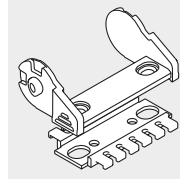
Technical support:  
technik@kabelschlepp.de



### ▲ Assembly options

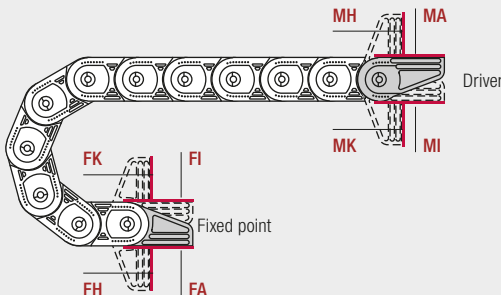
$B_i$ [mm]	$B_{EF}$ [mm]	$n_z$
50	72	2 x 4
75	97	2 x 6
100	122	2 x 8
125	147	2 x 10
150	172	2 x 12
175	197	2 x 14
200	222	2 x 16
225	247	2 x 18
250	272	2 x 20

 Recommended tightening torque:  
15 Nm for screws M8 - 8.8



The end connectors are also available as an option **without** strain relief comb. Please state when ordering.

## Connection variants



### Connection point

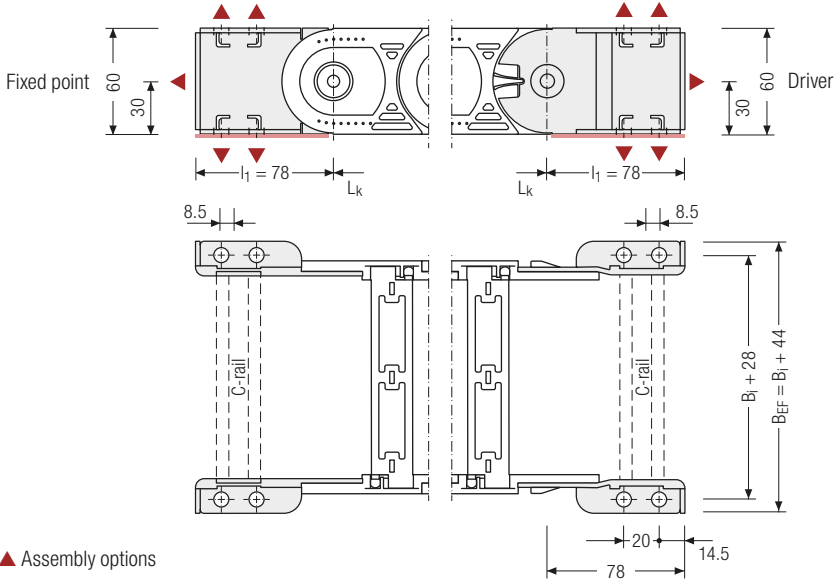
**F** – fixed point  
**M** – driver

### Connection type

**A** – threaded joint outside (standard)  
**I** – threaded joint inside  
**H** – threaded joint outside rotated by 90°  
**K** – threaded joint inside rotated by 90°

Universal end connectors UMB-St – steel

The universal mounting brackets (UMB) are made from steel and can be mounted from the top, from the bottom or face on.



Inner heights



Inner widths



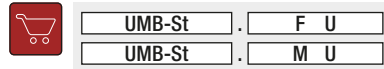
Key for abbreviations on page 72

▲ Assembly options

$B_i$ [mm]	$B_{EF}$ [mm]
50	94
75	119
100	144
125	169
150	194
175	219
200	244
225	269
250	294

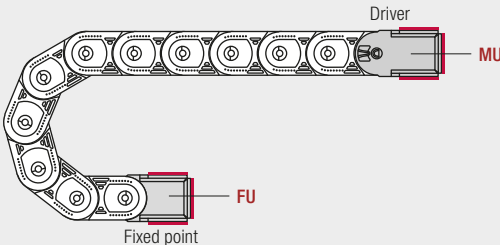
The end connectors are also available as an option with C-rail for clamps. Please state when ordering.

Order example



Assembly instructions on [kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

Connection variants



Connection point

- F – fixed point
- M – driver

Connection type

- U – universal mounting bracket

Order key on page 70



Subject to change.

➡ Note: The end connectors UMB-St offer the same connection dimensions as the previous universal end connectors UMB from UNIFLEX 0665.

# UA1665 | Order Key

## Order

### Cable carrier

Type	Stay variant	$B_i$ [mm]	KR [mm]	$L_K$ [mm]
		50	75	
		75		
		100		
		125		
		150		
		175		
020	175	140		
030	200	200		
030	225	250		
UA1665	RMA	250	300	

▼ ▼ ▼ ▼ ▼


UA1665	030	150	200	3,990
Type	Stay variant	$B_i$ [mm]	KR [mm]	$L_K$ [mm]

 **International order specification INTOK:** Information about the International Order Key can be found in the chapter "International Order Key" from page 1.

### Divider system


Divider system	Version	$n_T$	Chamber	$a_x$ [mm]	Height separation (not for TS0)
TS0			K1		VD0
TS1	A	min. 2	K2	min. 7.0	VD1
TS3	B	...	...	...	...
▼	▼	▼	▼	▼	▼
TS3	A	3	K1	34	VD1
			⋮	⋮	⋮
			K5	38	VD3
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 [ $n_T$ ]. Additionally, please enter the chambers [K] from left to right (driver view).

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

### Connection variant

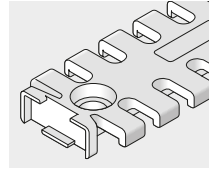
End connector	Connection point	Connection type
		U
		A
UMB		I
End connector	F	H
UMB-St	M	K
▼	▼	▼
UMB	F	U
UMB	M	U

 Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

## Accessories

### Single-sided strain relief combs

The optional plastic strain relief combs are assembled between the UMB end connectors and require no separate screw fixing.



Inner heights

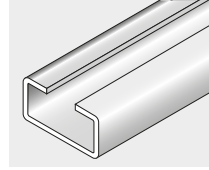


Inner widths



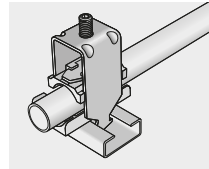
### C-rails for strain relief elements

The optional C-rails are secured by the UMB end connectors and do not require separate screw connections.



### LineFix® clamps

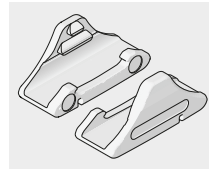
LineFix® clamps are fixed to the C-rail. They serve as a separate strain relief or separate attachment of the cables outside the cable carrier.



Key for abbreviations  
on page 72

### Gliding elements

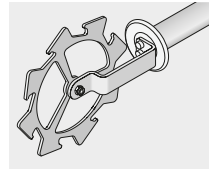
The optional glide shoes ensure a substantially longer service life of the cable carrier in gliding operation.



Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)

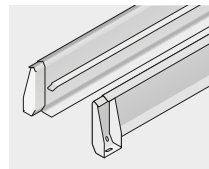
### Quick opening tool

Opening tools can be used to open cable carriers quickly and gently for installation and inspection of cables and hoses.



### Guide channels

The cable carrier always has to be guided in a channel for gliding applications. This prevents the upper and lower run from slipping.



Order key  
on page 70



**General abbreviations**

kabelschlepp.de/  
uniflex-advanced

Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de









































- a<sub>c</sub>** = nominal width inner chamber
- a<sub>max</sub>** = max. travel acceleration
- a<sub>TL</sub>** = distance lateral tabs inside to center of first divider
- a<sub>TR</sub>** = distance lateral tabs inside to center of last divider
- a<sub>x</sub>** = divider center to center distance
- b<sub>1</sub>** = inner width of guide channel
- b<sub>A</sub>** = distance between connection boreholes
- B<sub>EF</sub>** = overall width of cable carrier incl. attachments
- B<sub>i</sub>** = inner width
- B<sub>k</sub>** = outer width
- B<sub>KA</sub>** = outer width of guide channel
- B<sub>p</sub>** = width of hole stay inserts
- B<sub>St</sub>** = stay width
- c** = distance between hole stay bores
- d** = diameter
- D** = bore diameter
- d<sub>R</sub>** = pipe diameter
- H** = connection height
- H'** = reduced connection height
- h<sub>G</sub>** = chain link height
- h<sub>G'</sub>** = chain link height incl. glide shoe
- h<sub>i</sub>** = inner height
- H<sub>i</sub>** = inner height of frame stay assembly
- h<sub>KA</sub>** = outer height of guide channel
- HS** = half-stayed
- H<sub>z</sub>** = installation height
- KR** = bending radius
- l<sub>1</sub>** = connection length
- l<sub>2-5</sub>** = connection dimensions
- l<sub>A</sub>** = length of end connector
- L<sub>B</sub>** = length of carrier in bend
- L<sub>D</sub>** = length of permitted sag
- L<sub>f</sub>** = unsupported length
- L<sub>ES</sub>** = length of energy conduit
- L<sub>k</sub>** = cable carrier length without connection
- L<sub>S</sub>** = travel length
- L<sub>V</sub>** = fixed point offset
- n<sub>p</sub>** = number of hole stay inserts
- n<sub>RKR</sub>** = number of RKR links
- n<sub>T</sub>** = number of dividers
- n<sub>Z</sub>** = number of comb teeth for strain relief
- q<sub>k</sub>** = intrinsic cable carrier weight
- q<sub>z</sub>** = additional load
- RKR** = reverse bending radius
- s** = sheet metal thickness
- S<sub>H</sub>** = thickness of height separation
- S<sub>T</sub>** = thickness of divider
- t** = pitch
- U<sub>B</sub>** = loop overhang
- VD** = position of continuous height separations in divider
- VR** = position of partial height separations in divider
- v<sub>max</sub>** = max. travel speed
- VS** = fully-stayed
- W<sub>f</sub>** = base width of divider
- z** = pretension

**Definitions**

**Driver view** = view into the driver connection



## Pictographs

	inner height		stay arrangement on every 2 <sup>nd</sup> chain link		clean room suitable
	inner width		stay arrangement on every chain link		quiet running/low noise
	inner width (B <sub>i</sub> ) in x mm increments		cannot be opened		sold by the meter
	pitch		opens outward		ESD material
	bending radius		opens inward		suitable for explosive atmospheres
	long travel length		opens inward/outward		heat-resistant
	travel length unsupported		covered cable carrier		cold-resistant
	travel length gliding		sliding dividers		resistant to hot chips
	high additional load		fixable dividers		flame-resistant V0 (UL94)
	high travel acceleration		fixable dividers in x mm grid		flame-resistant V2 (UL94)
	high travel velocity		height separation possible		order code
			height separation in 1 mm increments		important information
			hole stay available		
			guide channel required		
			strain relief		

Inner heights

↑ 20  
↓ 44

Inner widths

15  
↔ 250

Key for abbreviations  
on page 72

Assembly instructions on  
[kabelschlepp.de/assembly](http://kabelschlepp.de/assembly)