UNIFLEX Advanced series

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





JA1455



Pitch 45.5 mm



Height 26 mm



Width 25 - 130 mm



Bending radius 52 - 225 mm

Stay variants

Design 020



Closed frame

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

Opening options

inside/outside: Cannot be opened.



Design 030



Frame with externally detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable on both sides in any position.

Opening options

outside: Swivable and detachable.



Design 040



Frame with internally detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable on both sides in any position.

Opening options

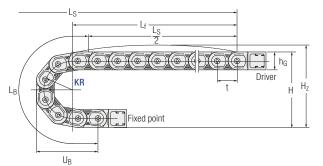
inside: Swivable and detachable.



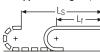
Order key on page 32



Unsupported arrangement



Unsupported length Lf



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

Dynamics of unsup	t					
v _{max} [m/s]	v_{max} [m/s] a_{max} [m/s ²]					
10	50	45.5				

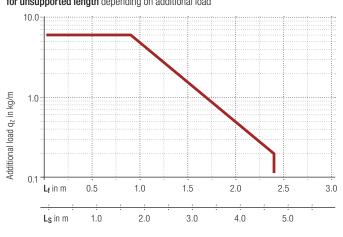
Installation dimensions unsupported

KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
52	140	165	255	116
65	166	191	296	129
95	226	251	390	159
125	286	211	484	189

KR	Н	H_z	L_{B}	U_B
[mm]	[mm]	[mm]	[mm]	[mm]
150	336	361	563	214
180	396	421	657	244
200	436	461	720	264
225	486	511	798	289

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 Lk rounded to pitch t

Unsupported length Lf

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

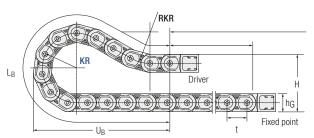
Fixed point offset L_v:

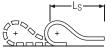
For off-center fixed point connections please contact us.

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

UA1455 I Installation Dimensions I Gliding

Gliding arrangement









Inner widths



Only designs 020 and 030 may be used for gliding arrangements.

Dynamics of glid	t				
v _{max} [m/s]	v_{max} [m/s] a_{max} [m/s ²]				
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 Lk

$$L_{k} \approx \frac{L_{S}}{2} + L_{B}$$

Cable carrier length L_k rounded to pitch t



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. We will be happy to help you.

Configure your cable carrier: onlineengineer.de

Stay variant 020 - closed frame

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



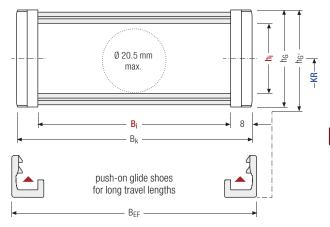


Stay arrangement on every chain link (VS)



 B_i from 25 – 130 mm

technik@kabelschlepp.de Technical support:



Calculating the cable carrier width

Outer width B_k

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

Total width BFF

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



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



Replaceable glide shoes

Subject to change.



online-engineer.de

UA1455.020 | Dimensions · Technical Data

Pitch, inner height and chain link height

t	h i	h_G	h_{G'}
[mm]	[mm]	[mm]	[mm]
45.5	26	36	38.5

Bend radii

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

Inner/outer width and intrinsic cable carrier weight

B_i [mm]	B _k [mm]	B _{EF} [mm]	q k [kg/m]
25	41	44	0.71
38	54	57	0.75
58	74	77	0.80
78	94	97	0.88
103	119	122	1.00
130*	146	147	1.12

Order example

	UA1455	. 020 .	78 .	150 -	1,456
00	Type	Stay variant	B _i [mm]	KR [mm]	L _K [mm]



UA1455.030 | Overview

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 on one side in any position.
- Opening options outside: Swivable and detachable.





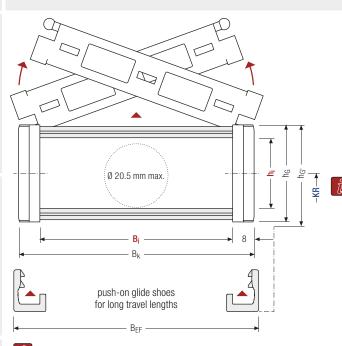
Stay arrangement on every chain link (VS)



 B_i from 25 – 130 mm

technik@kabelschlepp.de Technical support:

online-engineer.de



Calculating the cable carrier width

Outer width Bk

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

Total width BFF

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

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

Please contact us.



Replaceable glide shoes



UA1455.020 | Dimensions · Technical Data

Pitch, inner height and chain link height

t	h _i	h G	h g _'
[mm]	[mm]	[mm]	[mm]
45.5	26	36	38.5

Bend radii

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

Inner/outer width and intrinsic cable carrier weight

B_i [mm]	B _k [mm]	B _{EF} [mm]	q_k [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

Order example

	UA1455	. 030 .	78 .	150 -	1,456
0 0	Туре	Stay variant	B _i [mm]	KR [mm]	L _K [mm]



UA1455.040 | Overview

Stay variant 040 – with inside opening and detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable on one side in any position.
- Opening options inside: Swivable and detachable.



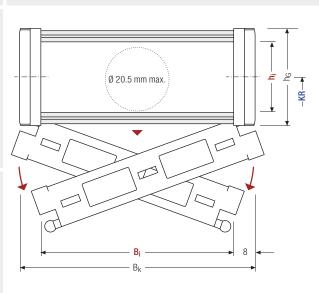
Configure your cable carrier: onlineengineer.de

Stay arrangement on every chain link (VS)



technik@kabelschlepp.de Technical support:

online-engineer.de



Calculating the cable carrier width

Outer width Bk

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

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.

UA1455.040 | Dimensions · Technical Data

Pitch, inner height and chain link height

t	h i	h_G
[mm]	[mm]	[mm]
45.5	26	36

Bend radii

			K	R [mn	n]			
52	65	95	125		150	180	200	225*

Inner/outer width and intrinsic cable carrier weight

B i [mm]	B_k [mm]	q_k [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

Order example

	UA1455	. 040 .	78	. 150 -	1,456
00	Type	Stay variant	B _i [mm]	KR [mm]	L _K [mm]



UA1455 | Inner Distribution | TS0

Divider systems

As standard, the divider system is assembled at each $2^{\rm nd}$ chain link.

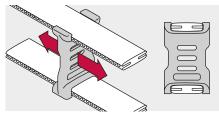
As standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (version A).

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).

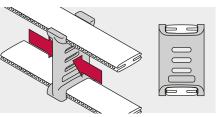
Movable divider

Version A (Standard)



Fixable divider (2.5 mm grid)

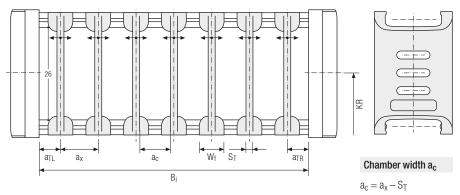
Version B



Divider system TS0 without height separation

	Ver	sion A				Versio	1 B*	
S _T W _f n _{T max} [mm] [mm] design 020	a _{TL} /a _{TR min} [mm]	a _{x min} [mm]	a _{c min} [mm]		atr min nm]	a _{x min} [mm]	a _{c min} [mm]	a _{x grid} [mm]
2 7 🕴	3.5	7	5		†	7.5	5.5	2.5
B _i [mm]	25	38		58	78	1	103	130
• a _{TL} /a _{TR min} [mm]	5	4	····· i	4	4		4	5
• n _{T max} design 020	0	2		5	7		11	15

^{*} not design 020



Inner heights

26

Inner widths 25

130

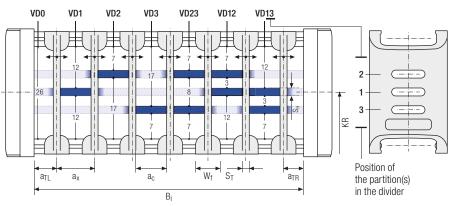
Key for abbreviations

UA1455 | Inner Distribution

Divider system TS1 with continuous height separation*

					,	Version A	4			Vers	sion B	
S _T [mm]	W _f [mm]	S _H [mm]	n _{T min}	a _{T max} [mm]	a _{T min} [mm]	a _{x min} [mm]	a _{c min} [mm]		T min mm]	a _{x min} [mm]	a _{c min} [mm]	a _{x grid} [mm]
2	7	2	2	20	3.5	7	5		Ť	7.5	5.5	2.5
	B _i [m	m]	2	5	38	58	}	78		103		130
-	a _{TL} /a _{TR m}	in [mm]	5)	4	4		4		4		5

^{*} not design 020



Standard height separation with aluminum profile 9 × 2 mm.

Chamber width ac

$$a_c = a_x - S_T$$

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

More product information online



Assembly instructions etc.: Receive additional info via your smartphone or check online at kabelschlepp.de/support



Configure your custom cable carrier: onlineengineer.de





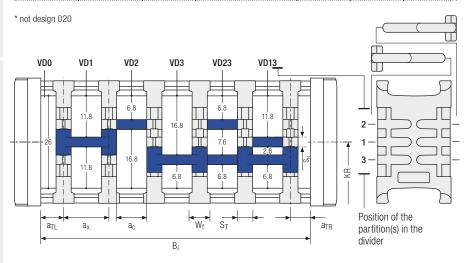
Configure your cable carrier:

onlineengineer.de

UA1455 | Inner Distribution | TS3

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

Version A S_T Wf S_H atL/atR min a_{x min} a_{c min} n_{T min} [mm] [mm] [mm] [mm] [mm] [mm] 5 7 2.4 3.5 15 10 2



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

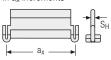
Chamber width ac

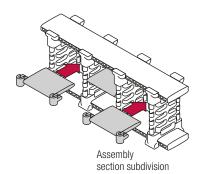
 $a_c = a_x - S_T$

	a _x (center distance of dividers) [mm]								
	ax (contact another or arrival of) []								
			a (nomin	al width of	innar chaml	or\ [mm]			
	${\sf a_c}$ (nominal width of inner chamber) [mm]								
15	20	25	30	25	40	45	55	GE.	75
10	20	20	3 0	งง	40	40	55	บบ	70
10	15	20	25	30	35	40	50	60	70
10	10	20	20	00		70			10

technik@kabelschlepp.de Technical support:

Plastic section subdivisions in ax increments

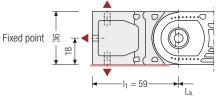


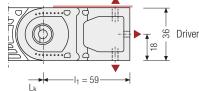


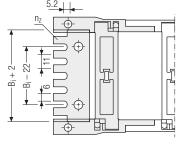
online-engineer.de

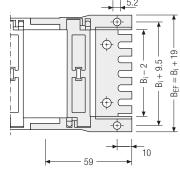
Universal end connectors UMB – plastic (standard)

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





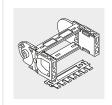




▲ Assembly options

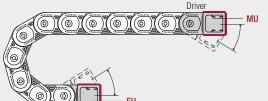
B i [mm]	B _{EF} [mm]	n _z
25	44	2
38	57	3
58	77	5
78	97	7
103	122	9
130	149	11

Recommended tightening torque: 5 Nm for screws M5 - 8.8



The end connectors are optionally also available without strain relief comb (1 per side). Please state when orderina.

Connection variants



Connection point

F – fixed point

M – driver

Connection type

U – universal mounting bracket

Order example



UMB		F U
UMB	.	M U

Inner heights



Inner widths

25 130

Key for abbreviations

kabelschlepp.de/assembly Assembly instructions on

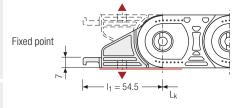
Order key

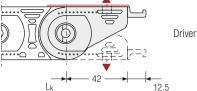


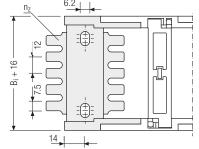
UA1455 | End Connectors | End Connectors

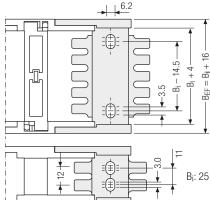
One part end connectors - plastic

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









Recommended tightening torque: 6 Nm for screws M6 - 8.8

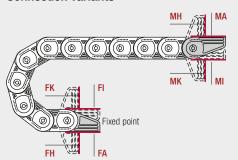
Assembly options

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

Driver

Connection type

A – threaded joint outside (standard)

I – threaded joint inside

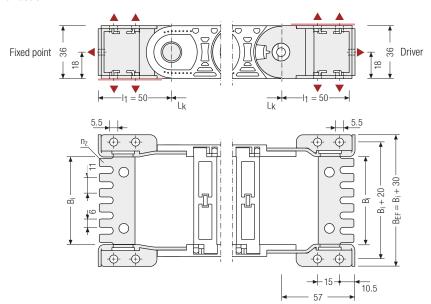
H - threaded joint outside rotated by 90°

K – threaded joint inside rotated by 90°

UA1455 | End connectors | UMB-St

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]	n _z
25	55	2
38	68	3
58	88	5
78	108	7
103	133	9
130	160	11

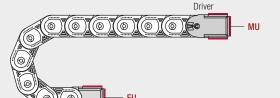
The end connectors are also available as an option without strain relief comb. Please state when ordering.

Order example

5—
ر ت

UMB-St] . [F	U	
UMB-St	.[М	U	

Connection variants



Connection point

F – fixed point

M – driver

Connection type

U – universal mounting bracket

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

Inner heights



Inner widths



Key for abbreviations

kabelschlepp.de/assembly Assembly instructions on

Order key





Order

Cable carrier

kabelschlepp.de/ uniflex-advanced

Configure your cable carrier: onlineengineer.de

technik@kabelschlepp.de Technical support:

Туре	Stay variant	B _i [mm]	KR [mm]	L _K [mm]
			52	
			65	
		25	95	
		38	125	
		58	150	
	020	78	180	
	030	103	200	
UA1455	040	130	225	
V UA1455 Type	. 030 Stay variant	78 B _i [mm]	. 150 KR [mm]	1,456 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.

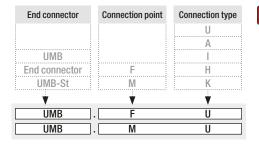
Divider system

Divider system	Version	n _T	Chamber	a _x [mm]	Height separation (not for TS0)
TS0			K1		VD0
TS1	Α	min. 2	K2	min. 7.0	VD1
TS3	В				
	V	•			
TS3	A	3.	K1	. 35 -	VD1
				:	
Divider system	Version	n _T	K5 Chamber	Assembly distance	VD3 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. You are welcome to add a sketch to your order.

Connection variant



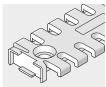
Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

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 she

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





Key for abbreviations on page 72

Outer dampers

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





Key fo

Quick opening tool

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





Assembly instructions on kabelschlepp.de/assembly

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 32

Support trays

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



