

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 – 250 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/s²

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

UA1555



Pitch
55.5 mm



Height
38 mm



Width
50 – 150 mm



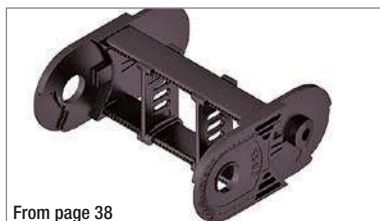
Bending radius
63 – 230 mm

kabelschlepp.de/
uniflex-advanced

Configure your cable carrier:
onlineengineer.de

Stay variants

Design 020



From page 38

Closed frame

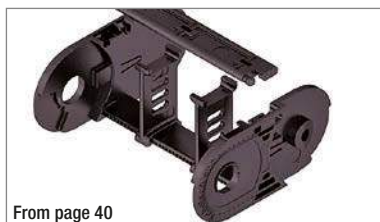
- Weight-optimized, closed plastic frame with particularly high torsional rigidity.

Opening options

outside/inside: Cannot be opened.



Design 030



From page 40

Frame with externally detachable crossbars

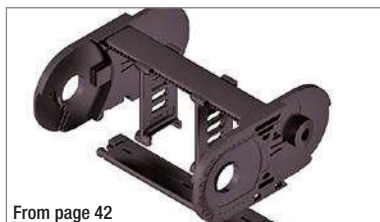
- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable and detachable on both sides in any position.

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 on both sides in any position.

Opening options

inside: Swivable and detachable.



Technical support:
technik@kabelschlepp.de

Inner
heights



Inner
widths



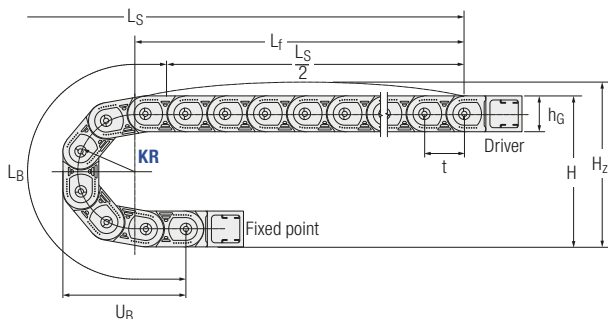
Key for abbreviations
on page 72

Assembly instructions on
kabelschlepp.de/assembly

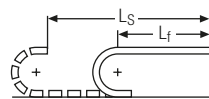
Order key
on page 50



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

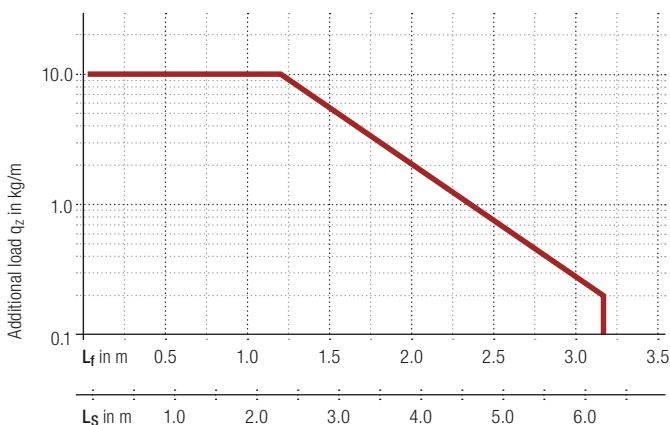
v_{max} [m/s]	a_{max} [m/s ²]	t [mm]
9	45	55.5

Installation dimensions unsupported

KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [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_k

$$L_k \approx \frac{L_S}{2} + L_B$$

Cable carrier length L_k rounded to pitch t

Unsupported length L_f

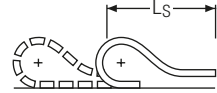
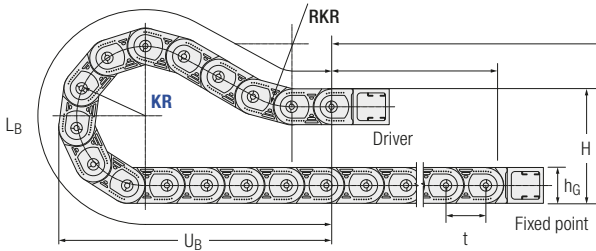
$$L_f = \frac{L_S}{2} + t$$


Fixed point offset L_f

For off-center fixed point connections please contact us.

Intrinsic cable carrier weight $q_k = 1.32 \text{ kg/m}$ with $B_i 100 \text{ mm}$.
For other inner widths the maximum additional load changes.

Gliding arrangement



 For more information on gliding arrangement please contact us.


Inner heights

38

Inner widths

50


150


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

Dynamics of gliding arrangement		t
v _{max} [m/s]	a _{max} [m/s ²]	[mm]
3	20	55.5

Installation dimensions gliding with RKR links

KR [mm]	H [mm]	n _{RKR}	L _B [mm]	U _B [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

 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_k

$$L_k \approx \frac{L_s}{2} + L_B$$

Cable carrier length L_k
rounded to pitch t

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

Key for abbreviations
on page 72

Assembly instructions on
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.

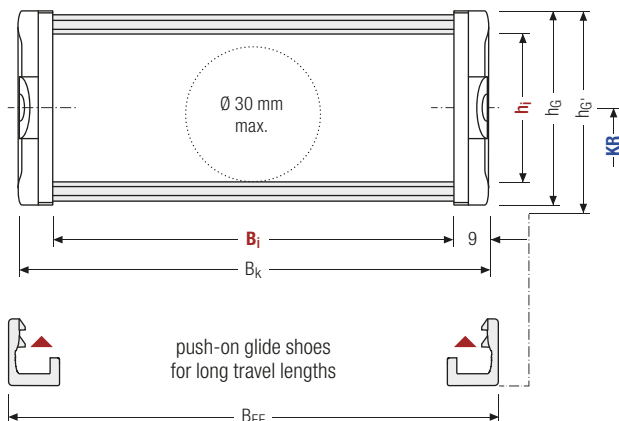


Stay arrangement on every chain link (VS)



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.

UA1555.020 | Dimensions · Technical Data

Pitch, inner height and chain link height

t [mm]	h _i [mm]	h _G [mm]	h _G * [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 _i [mm]	B _k [mm]	B _{EF} [mm]	q _k [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 _i [mm]	KR [mm]	L _k [mm]

Assembly instructions on
kabelschlepp.de/assembly

Order key
on page 50



Stay variant 030 – with outside opening and detachable crossbars

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

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uniflex-advanced

Configure your cable carrier:
onlineengineer.de

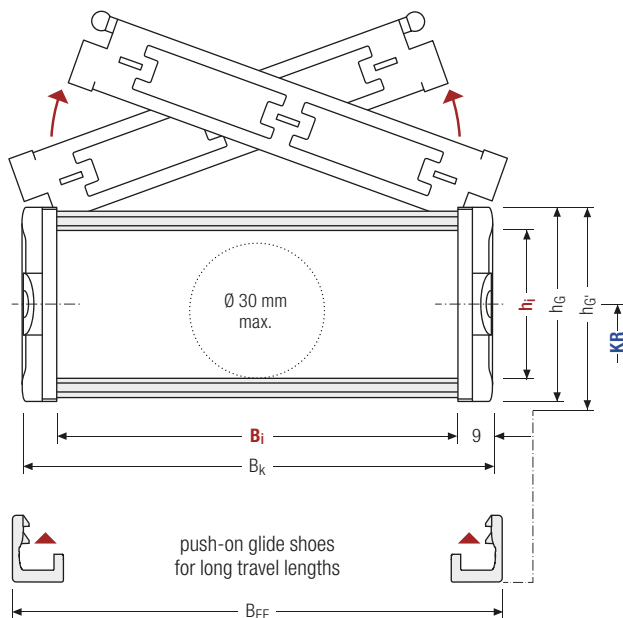


Stay arrangement on every chain link (VS)



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.

UA1555.030 | Dimensions · Technical Data

Pitch, inner height and chain link height

t [mm]	h _i [mm]	h _G [mm]	h _G * [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 _i [mm]	B _k [mm]	B _{EF} [mm]	q _k [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 _i [mm]	KR [mm]	L _k [mm]

Assembly instructions on
kabelschlepp.de/assembly

Order key
on page 50



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.

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uniflex-advanced

Configure your cable carrier:
onlineengineer.de



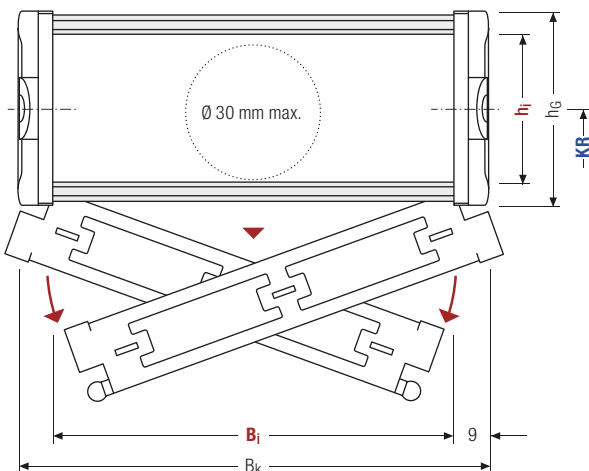
Stay arrangement on every chain link (VS)



B_i from 50 – 150 mm

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator



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.



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

UA1555.040 | Dimensions · Technical Data

Pitch, inner height and chain link height

t [mm]	h _i [mm]	h _G [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 _i [mm]	B _k [mm]	q _k [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 _i [mm]		KR [mm]		L _k [mm]

Assembly instructions on
kabelschlepp.de/assembly

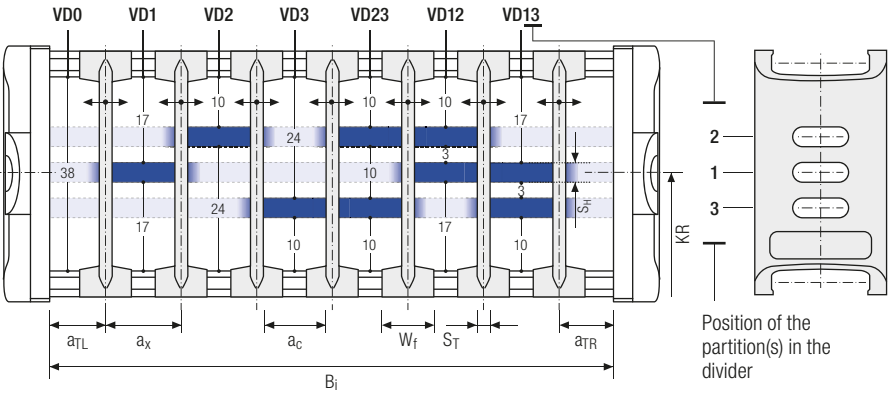
Order key
on page 50




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	10	4	2	20	5	10	8	5	10	8	2.5

* not design 020



 Standard height separation with aluminum profile 9 × 2 mm.

Chamber width a_c

$$a_c = a_x - S_T$$

Inner heights


Inner widths


Key for abbreviations
on page 72

Assembly instructions on
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Order key
on page 50



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More product information online



Assembly instructions etc.:
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Configure your custom cable carrier:
onlineengineer.de

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

Inner heights

38

Inner widths

50
150

Key for abbreviations
on page 72

Assembly instructions on
kabelschlepp.de/assembly

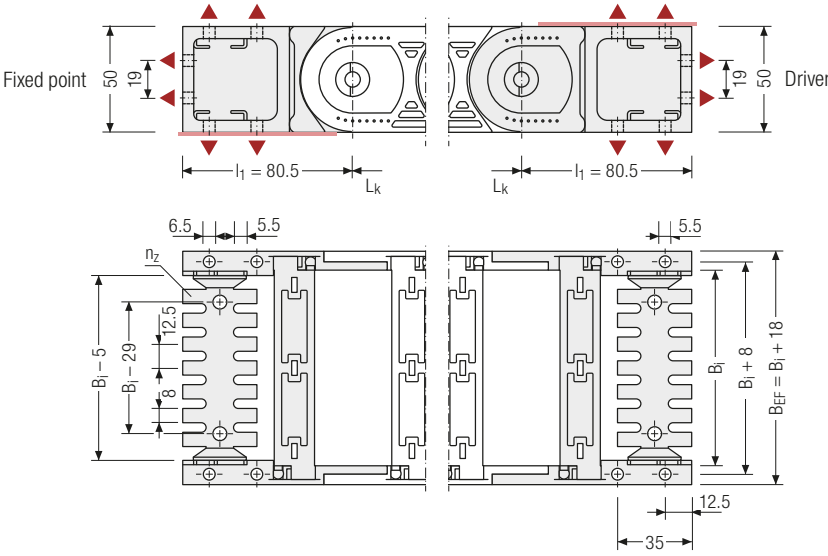
Order key
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UA1555 | End Connectors | UMB

Universal end connectors UMB – plastic (standard)

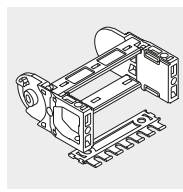
The universal mounting brackets (UMB) are made from plastic and can be mounted from the top, from the bottom, or face on.



▲ Assembly options

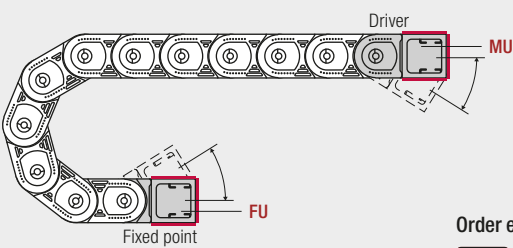
B_i [mm]	B_{EF} [mm]	n_z
50	68	2×3
75	93	2×5
90	108	2×6
100	118	2×7
125	143	2×9
150	168	2×11

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.

Connection variants



Connection point

F – fixed point
M – driver

Connection type

U – universal mounting bracket

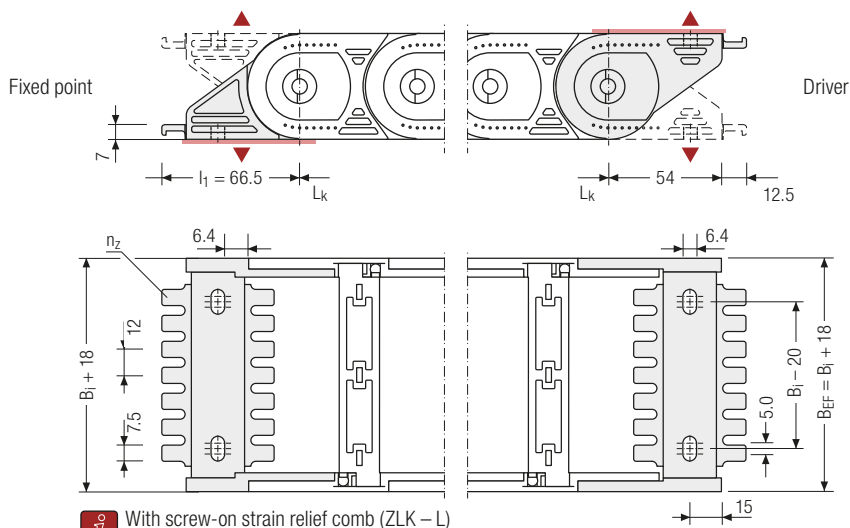
Order example

	UMB	.	F U
	UMB	.	M U

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

One part end connectors – plastic

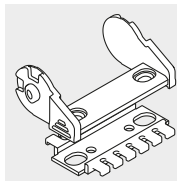
The plastic end connectors can be **connected from above and below**. The connection type can be changed by reconnecting the end connector.



▲ Assembly options

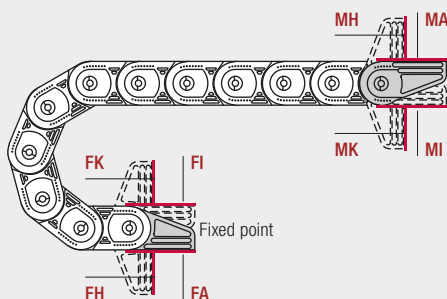
B_i [mm]	B_{EF} [mm]	n_z
50	68	2 x 4
75	93	2 x 6
100	118	2 x 8
125	143	2 x 10
150	168	2 x 12

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

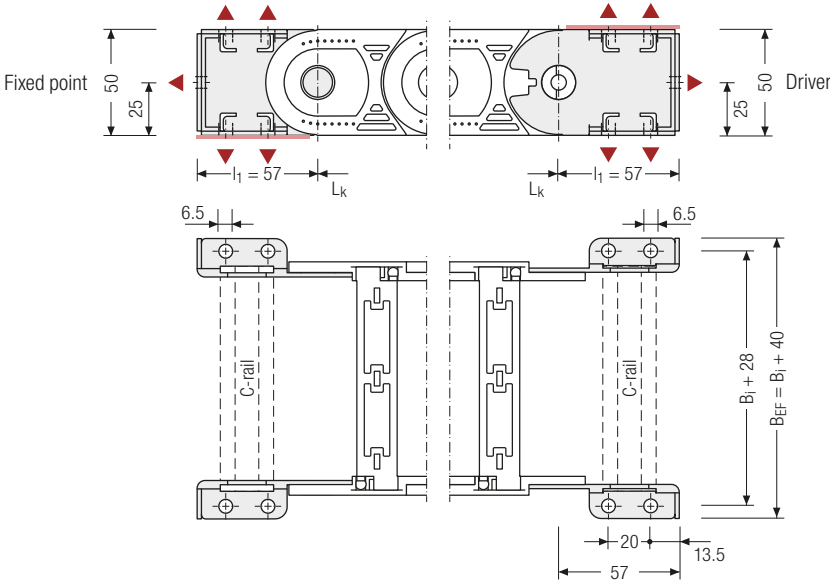
Connection type

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

UA1555 | 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]
50	90
75	115
90	130
100	140
125	165
150	190
200	240

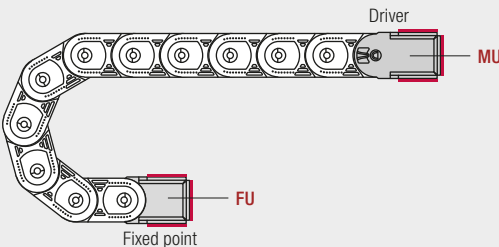
The end connectors are also available as an option **with C-rail** for clamps. Please state when ordering.

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

38

Inner widths

50
150

Key for abbreviations
on page 72

Assembly instructions on
kabelschlepp.de/assembly

Order key
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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		50	63	
		75	80	
		90	100	
		100	125	
		125	160	
	020	100	160	
	030	125	200	
	040	150	230	
UA1555	030	125	160	1,887
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. You are welcome to add a sketch to your order.

Connection variant

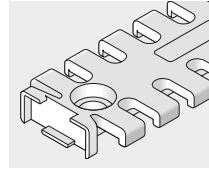
End connector	Connection point	Connection type
UMB End connector UMB-St	F M	U
		A
		I
		H
		K
UMB	F	U
UMB	M	U

 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

38

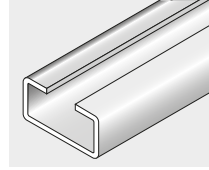
Inner widths

50

150

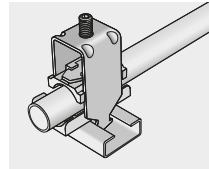
C-rails for strain relief elements

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



LineFix® clamps

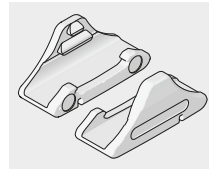
LineFix® clamps are fixed to the C-rail. They serve as a separate strain relief or separate attachment of the cables outside the cable carrier.



Key for abbreviations
on page 72

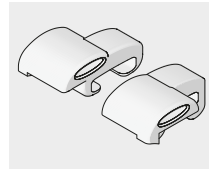
Gliding elements

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



Outer dampers

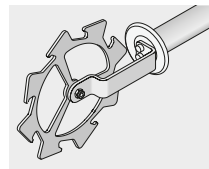
The use of outer dampers effectively reduces uncoiling noise. Particularly recommended for support trays and guide channels.



Assembly instructions on
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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
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