

## KABELGCHLEPP

The power to innovate

## UN ELEE Advanced

Light, quiet all-rounder with wide range of applications

Cost-effective cable carrier
Weight-optimized chain geometry
Particularly high torsional rigidity


Many separation options for the cables


UNIFLEX Advanced 1665 with mounting frame stay
The mounting frame stay can be used to reliably route cables with a very large diameter such as extraction hoses, which diameters are greater than the clearance height of the chain links can be routed.


Inside widths

| 25 |
| :---: |
| $2 \overline{5} 0$ |




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Overview UNIFLEX Advanced
Design 040 with inward opening and detachable brackets



| Type | $\mathrm{h}_{\mathrm{i}}$ | Bi |  | Dynamics of unsupported arrangement |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Maximum travel length in m | Travel speed $\mathbf{v}_{\text {max }}$ in $\mathrm{m} / \mathrm{s}$ | Travel acceleration $a_{\text {max }}$ in m/s2 | Page |
| 1455.040 | 26 | 25-103 | 120 | 10 | 50 | 86 |
| 1555.040 | 38 | 50-150 | 125 | 9 | 45 | 86 |
| 1665.040 | 44 | 50-250 | 150 | 8 | 40 | 86 |





UNIFLEX Advanced 1665 with mounting frame stay
The mounting frame stay can be used to reliably route cables with a very large diameter, such as extraction hoses, which diameters are greater than the clearance height of the chain


[^0]

## Types 1455, 1555 and 1665

Design 020
Inside/Outside:
Not to be opened


Design 030
Outside: Hinged, openable (on the right/left) and detachable brackets


Design 040
Inside: Hinged, openable (on the right/left) and detachable brackets


Dimensions and intrinsic chain weight

| Type | $\mathrm{h}_{\mathrm{i}}$ | $\mathrm{h}_{\mathrm{G}}$ | Inside widths $\mathrm{B}_{\mathrm{i}}$ |  |  |  |  |  |  |  |  | $\mathrm{B}_{\mathrm{k}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Intrinsic chain weight |  |  |  |  |  |  |  |  |  |
| 1455 | 26 | 36 | 25 | 38 | 58 | 78 | 103 | - | - | - | - | $B_{i}+16$ |
|  |  |  | 0.73 | 0.75 | 0.80 | 0.88 | 0.98 | - | - | - | - |  |
| 1555 | 38 | 50 | 50 | 75 | 90* | 100 | 125 | 150 | - | - | - | $B_{i}+18$ |
|  |  |  | 1.13 | 1.23 | 1,29 | 1.32 | 1.42 | 1.51 | - | - | - |  |
| 1665 | 44 | 60 | 50 | 75 | 100 | 125 | 150 | 175 | 200** | 225 | 250 | $B_{i}+22$ |
|  |  |  | 1.67 | 1.80 | 1.92 | 2.06 | 2.18 | 2.31 | 2.43 | 2.57 | 2.70 |  |

* Design 020 available on request ** on request

Dimensions in mm/Weights in $\mathrm{kg} / \mathrm{m}$
Bend radius and pitch

| Type | Bend radil KR mm |  |  |  |  |  |  |  | Pitch: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1455 | 52 | 65 | 95 | 125 | 150 | 180 | 200 | 225* | $5: \mathrm{t}=45.5 \mathrm{~mm}$ |
| 1555 | 63 | 80 | 100 | 125 | 160 | 200 | 230** | - |  |
| 1665 | 75 | 100 | 120 | 140 | 200 | 250 | 300 | - |  |

## Load diagram

for unsupported length $L_{f}$ depending on the additional load


Unsupported length $L_{f}$


In the case of longer travel lengths, sag of the cable carriers is technically permissible depending on the application.
In a gliding arrangement, even longer travel lengths are possible (see page 295). We are at your service to advise on these applications.

## Example of ordering

| Cable carrier |  |  |  |  | Divider system |  | Connection |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1555 | 030 | 100 | 125 | 1332 | TS 0 | 3 | FU/MU |
| Type | Design | Inside width $B_{i}$ in mm | Bend radius KR in mm | Chain length $L_{k}$ in mm (without connection) | Divider system | Number of dividers $n_{T}$ | Connection Fixed point/ Driver |

## Ordering divider systems

Please state the designation of the divider system (TS 0, TS $1 \ldots$ ) and the number of dividers. Possibly attach a sketch with the dimensions.

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Types 1455, 1555 and 1665
Fixing of the dividers

In the standard version, dividers or the complete divider system (dividers with height separation) can be moved in the cross section (Version A).

Version A (Standard)
Divider movable


Fixed dividers are available for applications with transverse accelerations and where the carrier is rotated through $90^{\circ}$ (Version B)
if the fixed installation version is desired, please state this on the order.

## Version B

Divider fixed in 2.5 mm steps
With fixed dividers, fixing is by means of arresting cams in the foot of the divider.

Locking profile in the crossbar



- Divider with arresting cams

Divider system TS 0

|  |  | Version A |  |  | Version B |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | $\underset{\substack{\mathrm{h}_{\mathrm{i}}}}{\substack{\text { n }}}$ | $\underset{\mathrm{mm}}{\mathrm{~S}_{\mathrm{T}}}$ | $\mathrm{a}_{\mathrm{T} \text { min }}$ mm | $\underset{\mathrm{mm}}{\mathrm{a}_{\mathrm{x} \text { min }}}$ | $\underset{\mathrm{mm}}{\mathrm{~S}_{\mathrm{T}}}$ | $\mathrm{a}_{\mathrm{T} \text { min }}$ mm | $\underset{\mathrm{mm}}{\mathrm{a}_{\mathrm{x} \min }}$ | $\begin{aligned} & \mathrm{a}_{\mathrm{x} \text { section }}^{\mathrm{mm}} \end{aligned}$ |
| 1455 | 26 | 2.0 | 3.5 | 7 | 2.0 | 4/5* | 7.5 | 2.5 |
| 1555 | 38 | 2.5 | 5.0 | 10 | 2.5 | 5 | 10 | 2.5 |
| 1665 | 44 | 3.0 | 5.0 | 10 | 3.0 | 5 | 10 | 2.5 |

* $\mathrm{a}_{\mathrm{T} \text { min }}=4 \mathrm{~mm}$ for $\mathrm{B}_{\mathrm{i}}=38,58,78,103 \quad a_{\top}$ min $=5 \mathrm{~mm}$ for $\mathrm{B}_{\mathrm{i}}=25$


Divider system TS 1 for Design 030/040
with continuous height subdivision made of aluminium

|  |  | Version A |  |  | Version B |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | $\underset{\mathrm{mm}}{\mathrm{~h}_{\mathrm{i}}}$ | $\underset{\mathrm{mm}}{\mathrm{~S}_{\mathrm{T}}}$ | $\mathrm{a}_{\mathrm{T} \text { min }}$ mm | $\mathrm{a}_{\mathrm{x} \text { min }}$ | $\mathrm{S}_{\mathrm{T}}$ $\mathrm{mm}$ | $\mathrm{a}_{\mathrm{T} \text { min }}$ mm | $\underset{\mathrm{mm}}{\mathrm{a}_{\mathrm{x} \min }}$ | $\left\lvert\, \begin{gathered} a_{x} \text { section } \\ \mathrm{mm} \end{gathered}\right.$ | $\underset{\mathrm{Sm}}{\mathrm{~S}_{\mathrm{H}}}$ | $\underset{\substack{\mathrm{h}_{1} \\ \mathrm{~mm}}}{ }$ | $\begin{aligned} & \mathrm{h}_{2} \\ & \mathrm{~mm} \end{aligned}$ |
| 1455 | 26 | 2.0 | 4/5* | 7.5 | 2.0 | 4/5* | 7.5 | 2.5 | 2 | 10 | - |
| 1555 | 38 | 2.5 | 5 | 10 | 2.5 | 5 | 10 | 2.5 | 4 | 14 | - |
| 1665 | 44 | 3.0 | 5 | 10 | 3.0 | 5 | 10 | 2.5 | 4 | 14 | 28 |



## Types 1455, 1555 and 1665

Divider system TS 3 with section subdivision, partitions made of plastic


Inside widths 25 $2 \overline{5} 0$


Dimensions of the plastic partitions for TS 3


For type 1665,
aluminium partitions in 1 mm width sections are available.

Types 1455 and 1555

| $\mathrm{S}_{2}$ | $\mathrm{a}_{\mathrm{x}}$ (Center to center distance, dividers) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.4 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 55 | 65 | 75 |
| Type 1665 |  |  |  |  |  |  |  |  |  |  |
| $\mathrm{S}_{2}$ | $\mathrm{a}_{\mathrm{x}}$ (Center to center distance, dividers) |  |  |  |  |  |  |  |  |  |
| 4 | 16 | 18 | 23 | 28 | 32 | 33 | 38 | 43 | 48 | 58 |
|  | 64 | 68 | 78 | 80 | 88 | 96 | 112 | 128 | 144 | 160 |

When using partitions with $a_{x}>112 \mathrm{~mm}$, there should be an
additional central support with a twin divider ( $\mathrm{S}_{\mathrm{T}}=3 \mathrm{~mm}$ ).
Twin dividers are designed for subsequent fitting in the partition system.

## Types 1455, 1555 and 1665

## Strain relief devices for plastic connectors

ZLK - A
Connecting elements with integrated strain relief combs on both sides (ZLK - A)

ZLK - L
Connecting elements with screw-on type strain relief combs (ZLK - L)


The strain relief combs are generally supplied with the connecting elements. The combs are either clipped to the end connectors and bolted together with them, or screwed on at the desired intervals by using additional boreholes, behind the connecting elements.

Connection dimensions for Type 1455
Connecting elements with strain relief combs on both sides


The dimensions of the fixed point and driver connections are identical.

Connection dimensions for Type 1555
Connecting elements with strain relief combs on both sides



The dimensions of the fixed point and driver connections are identical.

## Types 1455, 1555 and 1665

Connection dimensions for Type 1665
Connecting elements with strain relief combs on both sides


The dimensions of the fixed point and driver connections are identical.

## Connection variants



## Connection point

M - Driver
F - Fixed point

## Connection type

A - Threaded joint outside (standard)
I - Threaded joint inside
H - Threaded joint, rotated through $90^{\circ}$ to the outside
K - Threaded joint, rotated through $90^{\circ}$ to the inside

## Types 1455, 1555 and 1665

Universal mounting brackets
With plastic UMBs (Universal Mounting Brackets) you can easily connect the UNIFLEX from above, from below, or at head height.


## UNIFLEX 1455



UNIFLEX 1555


UNIFLEX 1665


The dimensions of the fixed point and driver connections are identical.
When ordering please specify the connection type FU/MU (see ordering key on page 334).


Inside


## \& $\begin{gathered}\text { Use our free } \\ \text { project planning service. }\end{gathered}$

## Types 1455, 1555 and 1665

## Strain relief devices

One-sided strain relief combs made of plastic (UNIFLEX 1455)
The cables can be fixed securely and simply using the optional strain relief combs.
The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.
Please state on the order whether strain relief combs are needed.


- Universal mounting bracket with strain relief comb


| Type | $\mathrm{Bi}_{\mathrm{mm}}$ | nz |
| :--- | :---: | :---: |
| $1455 . \ldots .25$ | 25 | 2 |
| $1455 . \ldots .38$ | 38 | 3 |
| $1455 . \ldots .58$ | 58 | 5 |
| $1455 . \ldots .78$ | 78 | 7 |
| $1455 . \ldots .103$ | 103 | 9 |

F Fixing in the UMB

Both-sided strain relief combs made of plastic (UNIFLEX 1555/1665)
The cables can be fixed securely and simply using the optional strain relief combs.
The strain relief combs are installed between the UMBs, and do not need to be bolted on separately or mounted on a C-Rail.
Please state on the order whether strain relief combs are needed.


Universal mounting bracket with strain
■ Both-sided strain relief comb relief comb


- Fixing in the UMB

| Type | Bi mm | nz |
| :---: | :---: | :---: |
| 1555. ... . 50 | 50 | 3 |
| 1555. ... 75 | 75 | 5 |
| 1555. ... . 90 | 90* | 7 |
| 1555. ... . 100 | 100 | 7 |
| 1555. ... . 125 | 125 | 9 |
| 1555. ... . 150 | 150 | 11 |

$\mathrm{n}_{\mathrm{z}}=$ Number of teeth on one side of the comb

* on request

| Type | Bi mm | nz |
| :--- | :---: | :---: |
| 1665. ... 50 | 50 | 3 |
| $1665 . \ldots .75$ | 75 | 5 |
| $1665 . \ldots .100$ | 100 | 7 |
| $1665 . \ldots .115$ | 115 | 8 |
| $1665 . \ldots .125$ | 125 | 9 |
| $1665 . \ldots .150$ | 150 | 11 |
| $1665 . \ldots .175$ | 175 | 13 |
| $1665 . \ldots .225$ | $225^{*}$ | 17 |
| $1665 . \ldots .250$ | $250^{*}$ | 19 |

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## Types 1455, 1555 and 1665

and do not have to be screwed separately.


C-rails for LineFix bracket clamps, SZL strain reliefs and clamps (UNIFLEX 1555/1665)
The optional C-rails are fixed by means of the universal mounting brackets


■ Universal mounting bracket with C-rail


- Integratable C-rail
$25 \times 10 \mathrm{~mm}$,
slit width 11 mm ,
material steel,
Item-No. 3931

Our LineFix strain reliefs are optimally suited for the C-rails (LineFix bracket clamps
and other strain relief devices - see Accessories chapter, from page 302 onwards).


■ C-rail with LineFix strain relief

## Guide channels

> from page 295


Cables for cable carrier systems
$>$ from page 344



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