

# KABELSCHLEPP

EasyTrax<sup>®</sup> series



PLASTIC CABLE CARRIERS  
EASY INSTALLATION  
WITH LAMELLA  
TWO-COMPONENT TECHNOLOGY



# EasyTrax® series

Extremely fast  
cable laying thanks to  
easy cable insertion





**Inner heights**  
4.6 – 31 mm



**Inner widths**  
7 – 78 mm



**Pitch**  
11.5 – 45.5 mm



**Additional load**  
up to 6 kg/m



**Travel length unsupported**  
up to 4.8 m



**Travel length gliding**  
up to 80 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!

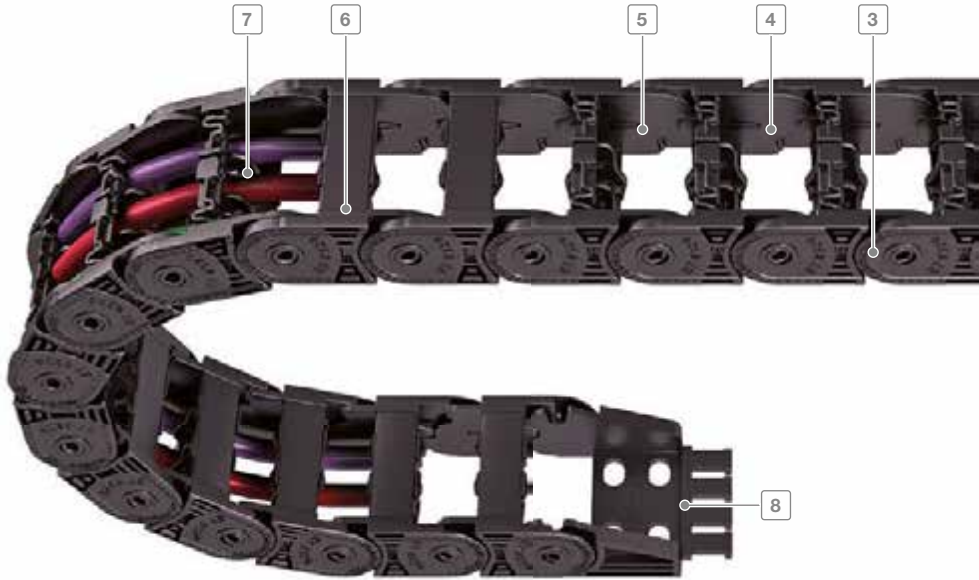
Fon: +49 (0) 2762 4003-0 or  
e-mail: [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de)

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

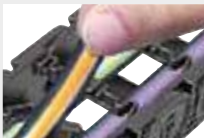
Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



## Features

- Extremely fast cable laying thanks to easy cable insertion
- Very high fill level due to the crossbar pivoting to the side – crossbars do not pivot into the cable space
- Each chain link consists of two different materials:
  - Hard cable carrier body made of glass fiber-reinforced material
  - Crossbar with flexible film hinge made of elastic special plastic
- Sturdy chain design
- High torsional rigidity
- Extensive unsupported length
- Extremely low noise due to integrated noise damping



Fast and easy installation of cables and hoses



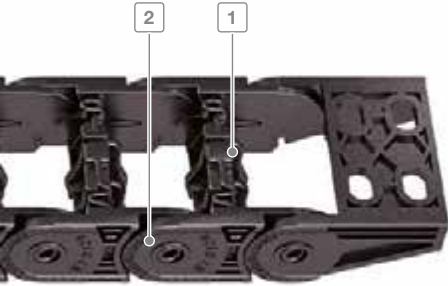
Very high filling level



High side stability



Divider systems for reliable cable separation



Example of inner distribution

- 1 Sturdy two-component design: hard cable carrier body, flexible film hinge
- 2 Chain links made of plastic
- 3 Extensive unsupported length
- 4 Inside space is gentle on the cables – no interfering edges
- 5 Extremely low noise due to integrated noise damping
- 6 For inside/outside opening
- 7 Dividers for cable separation
- 8 Single-part end connectors with and without integratable strain relief

Inner heights



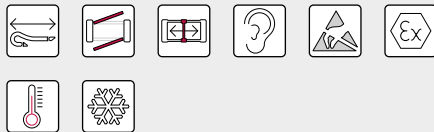
Inner widths



Key for abbreviations on page 60

## Selection criteria for EasyTrax®

- Where extremely fast cable laying is required
- For high fill levels
- Where an extensive unsupported length is required
- Where rigidity is required
- For low noise applications



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

| Type   | h <sub>i</sub><br>[mm] | B <sub>i</sub><br>[mm] | t<br>[mm] | Page |
|--------|------------------------|------------------------|-----------|------|
| ET0115 | 4.6                    | 7                      | 11.5      | 8    |
| ET0180 | 11.9                   | 40                     | 18        | 14   |
| ET0320 | 18                     | 15 – 65                | 32        | 24   |
| ET0350 | 31                     | 50                     | 35        | 38   |
| ET1455 | 25                     | 78                     | 45.5      | 48   |

## Cable carrier design

Solid plastic cable carriers: side bands and end connectors made of plastic

Each chain link consists of two different materials:

- Hard cable carrier body made of glass fiber-reinforced material
- Flexible lamella crossbars made of elastic plastic



## The two-component technology

The two-component technology of the EasyTrax® combines two seemingly incompatible features: **stability and flexibility**.

Cable carriers need to be extremely sturdy, with extensive unsupported length. At the same time, cables need to be inserted easily for fast cable laying.

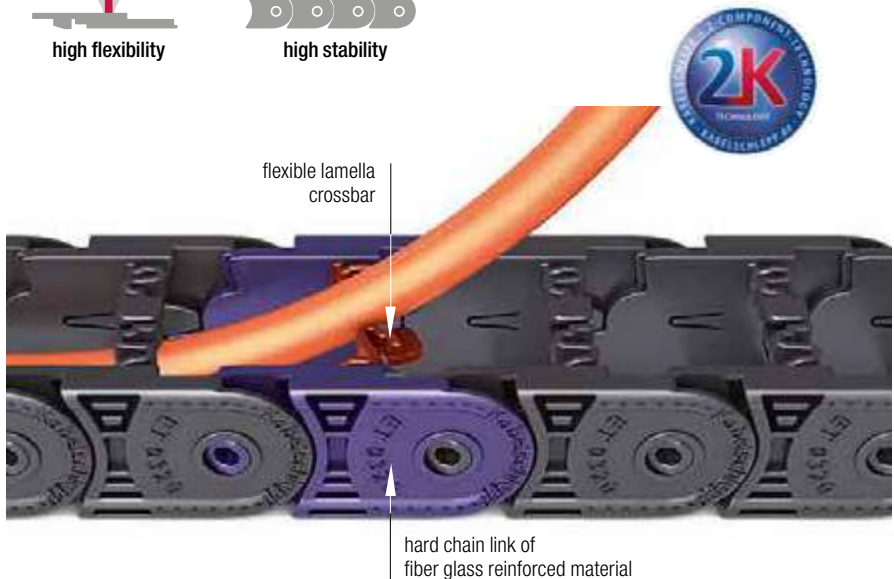
The EasyTrax® meets these requirements thanks to its innovative design and material combination of a hard cable carrier body made from fiber glass reinforced material and crossbars with lamella crossbars made of elastic plastic.



high flexibility



high stability



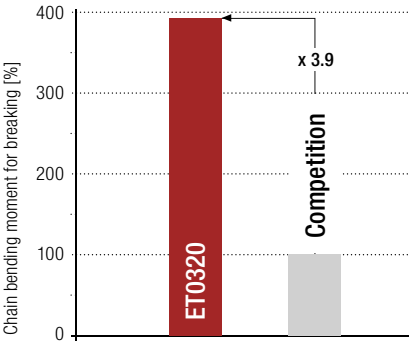
## Comparison of dimensions

| Manufacturer        | $h_i$<br>[mm] | $h_G$<br>[mm] | $t$<br>[mm] | Identical connection hole pattern |
|---------------------|---------------|---------------|-------------|-----------------------------------|
| ET0320              | 18            | 25.5          | 32          | yes                               |
| Competitive product | 19            | 25            | 30.5        | yes                               |

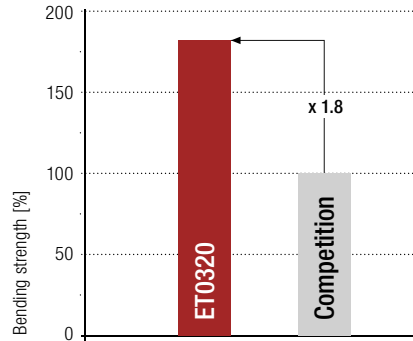
Inner heights



## Comparison of bending moment



## Comparison of bending strength

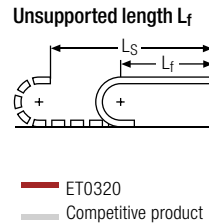
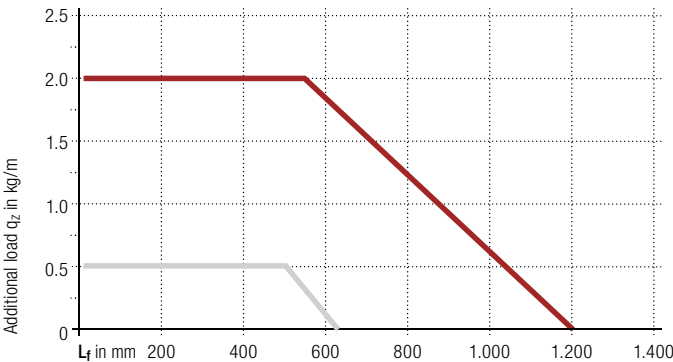


Inner widths



## Load diagram

for unsupported length depending on additional load



Key for abbreviations on page 60

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

## Advantages over competitive product

- 4 times bigger additional load compared to competitive product
- Double unsupported length compared to competitive product
- Faster cable laying at a higher utilization factor
- Low noise operation due to internal damping system
- High side stability through locking in the stroke system
- Dividers can be used for cable separation

# ET0115

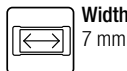
kabelschlepp.de/  
easytrax



Pitch  
11.5 mm



Height  
4.6 mm



Width  
7 mm



Bending radius  
10 mm

Configure your cable carrier:  
onlineengineer.de

## Stay variants

### Design 040



From page 10

#### Frame with lamella crossbars in the inner radius

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable on one side in any position.

#### Opening options

inside: Swivable.

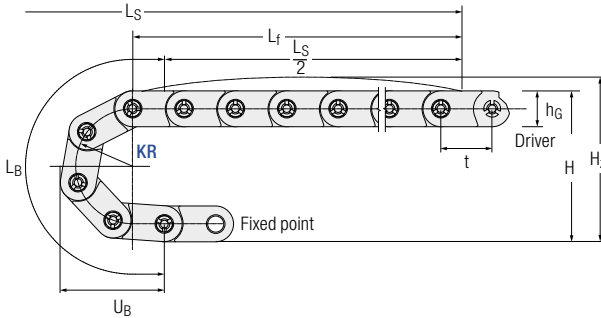


Technical support:  
technik@kabelschlepp.de

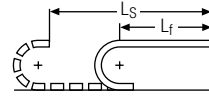




## Unsupported arrangement



### 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



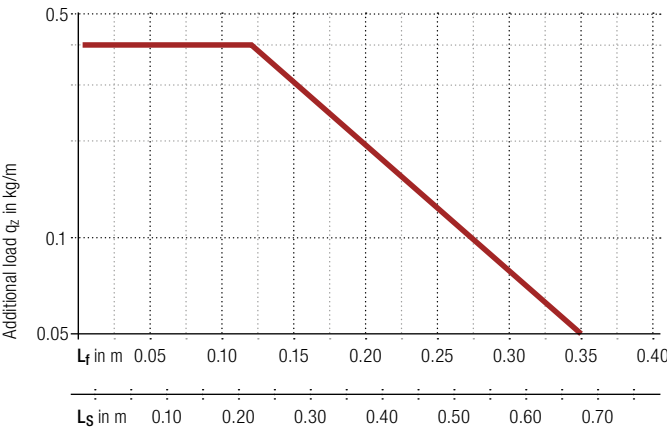
| Dynamics of unsupported arrangement |                               | t    |
|-------------------------------------|-------------------------------|------|
| $v_{max}$ [m/s]                     | $a_{max}$ [m/s <sup>2</sup> ] | [mm] |
| 3                                   | 10                            | 11.5 |

## Installation dimensions unsupported

| KR [mm] | H [mm] | H <sub>z</sub> [mm] | L <sub>B</sub> [mm] | U <sub>B</sub> [mm] |
|---------|--------|---------------------|---------------------|---------------------|
| 10      | 28     | 38                  | 54.5                | 25.5                |

## 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.

Key for abbreviations on page 60

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

Order key on page 13

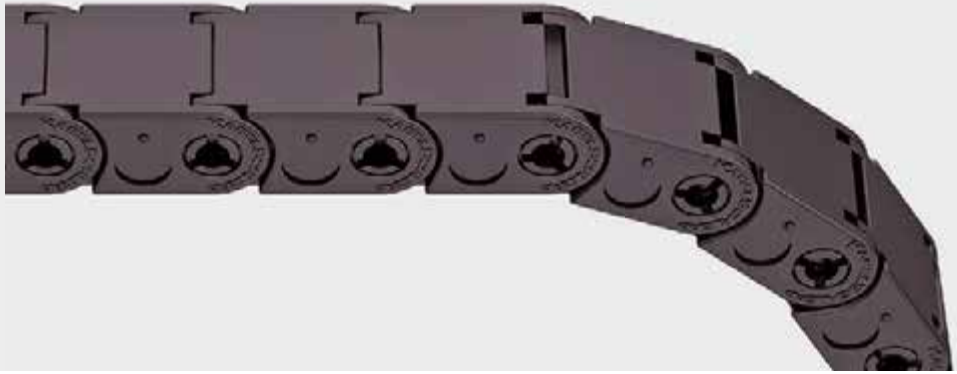


## Stay variant 040 – with lamella crossbars in the inner radius

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

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

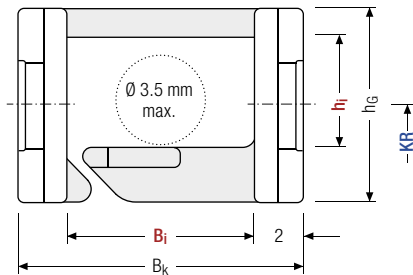


Stay arrangement on every chain link (VS)



$B_i$  7 mm

Technical support:  
technik@kabelschlepp.de



### Calculating the cable carrier width

#### Outer width $B_k$

$$B_k = B_i + 4 \text{ mm}$$



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

## Pitch, inner height and chain link height

| t<br>[mm] | $h_i$<br>[mm] | $h_G$<br>[mm] |
|-----------|---------------|---------------|
| 11.5      | 4.6           | 8             |

Inner heights



## Bend radii

| KR [mm] |
|---------|
| 10      |

Inner widths



## Inner/outer width and intrinsic cable carrier weight

| $B_i$<br>[mm] | $B_k$<br>[mm] | $q_k$<br>[kg/m] |
|---------------|---------------|-----------------|
| 7             | 11            | 0.044           |

Key for abbreviations on page 60

## Order example



|        |   |              |   |            |   |         |   |            |
|--------|---|--------------|---|------------|---|---------|---|------------|
| ET0115 | · | 040          | · | 7          | · | 10      | · | 1.280      |
| Type   |   | Stay variant |   | $B_i$ [mm] |   | KR [mm] |   | $L_k$ [mm] |

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 13



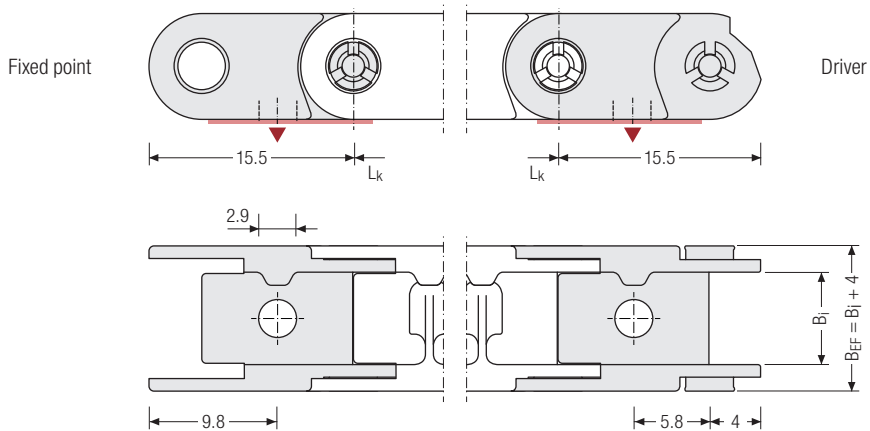
## End connectors – plastic

The plastic end connectors can be **connected from above or below**.


kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

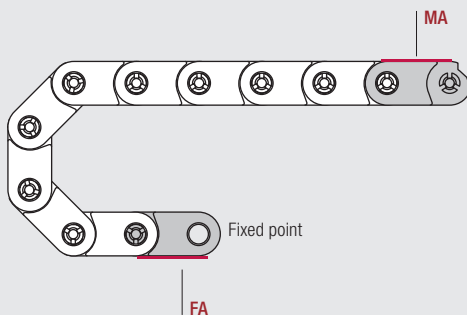
Technical support:  
technik@kabelschlepp.de



▲ Assembly options

 The end connectors can be swiveled in KR direction.

## Connection variants



- Connection point**
- F** – fixed point
  - M** – driver
- Connection type**
- A** – threaded joint outside (standard)

## Order

### Cable carrier

| Type           | Stay variant        | B <sub>i</sub> [mm]      | KR [mm]       | L <sub>K</sub> [mm]        |
|----------------|---------------------|--------------------------|---------------|----------------------------|
| ET0115         | 040                 | 7                        | 10            |                            |
| ET0115<br>Type | 040<br>Stay variant | 7<br>B <sub>i</sub> [mm] | 10<br>KR [mm] | 276<br>L <sub>K</sub> [mm] |

Inner heights



Inner widths



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

### Connection variant

| End connector | Connection point | Connection type |
|---------------|------------------|-----------------|
| End connector | F                | A               |
| End connector | M                | A               |
| End connector | F                | A               |
| End connector | M                | A               |

Key for abbreviations on page 60

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

Order key on page 13



# ET0180

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**Teilung**  
18 mm



**Höhe**  
11,9 mm



**Breite**  
40 mm



**Krümmungsradius**  
28 – 50 mm

Konfigurieren Sie ihre Energieführung:  
onlineengineer.de

## Stegbauarten

### Bauart 030



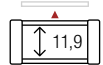
Ab Seite 18

#### Rahmen mit Lamellenbügeln im Außenradius

- Gewichtsoptimierter Kunststoffrahmen mit besonders hoher Torsionssteifigkeit.
- Lamellen einseitig an beliebiger Position schwenkbar.

#### Öffnungsmöglichkeiten

**Außen:** Schwenkbar.



Technischer Support:  
technik@kabelschlepp.de





Innen-  
höhen



Innen-  
breiten



Legende für Kurzzeichen  
auf Seite 60

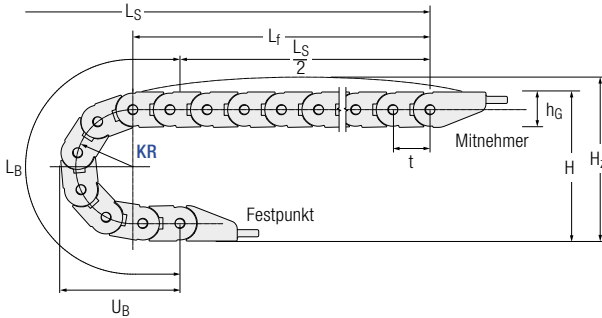
Montagehinweise auf  
[kabelschlepp.de/montage](http://kabelschlepp.de/montage)

Bestellschlüssel  
auf Seite 22

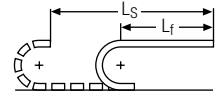


# ET0180 | Einbaumaße | Freitragend

## Freitragende Anordnung



### Freitragende Länge L<sub>f</sub>



Bei längeren Verfahrwegen ist ein Durchhang der Energieführung je nach Einsatzfall technisch zulässig.

### Dynamik bei freitragender Anordnung

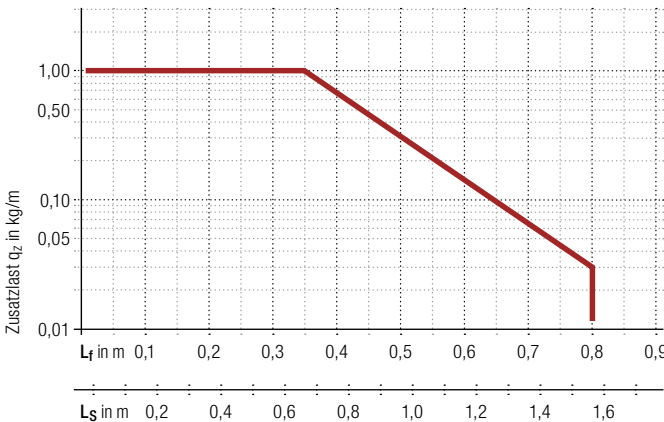
| $v_{max}$ [m/s] | $a_{max}$ [m/s <sup>2</sup> ] | t [mm] |
|-----------------|-------------------------------|--------|
| 10              | 50                            | 18     |

## Einbaumaße freitragend

| KR [mm] | H [mm] | H <sub>z</sub> [mm] | L <sub>B</sub> [mm] | U <sub>B</sub> [mm] |
|---------|--------|---------------------|---------------------|---------------------|
| 28      | 74     | 89                  | 124                 | 55                  |
| 37      | 92     | 107                 | 153                 | 64                  |
| 50      | 118    | 133                 | 194                 | 77                  |

## Belastungsdiagramm

für freitragende Länge in Abhängigkeit von der Zusatzlast



### Berechnung der Kettenlänge

#### Kettenlänge L<sub>k</sub>

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

Kettenlänge L<sub>k</sub> aufgerundet auf Teilung t

#### Freitragende Länge L<sub>f</sub>

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



### Festpunktversatz

L<sub>f</sub>: Bei außermittigem Festpunktanschluss sprechen Sie uns bitte an.

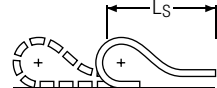
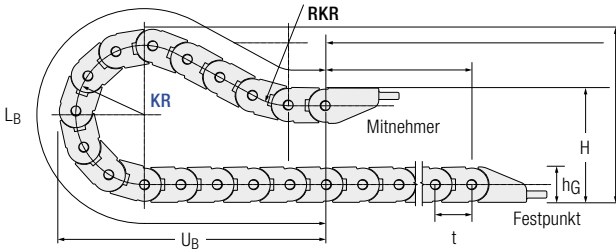



Ketteneigengewicht  $q_k = 0,25$  kg/m bei B<sub>1</sub> 10 mm.

Bei abweichender Innenbreite verändert sich die maximale Zusatzlast.



## Gleitende Anordnung




 Für weitere Informationen zur gleitenden Anordnung sprechen Sie uns bitte an.

Innenhöhen  
**11,9**

Innenbreiten  
**40**

| Dynamik bei gleitender Anordnung |                                      | t    |
|----------------------------------|--------------------------------------|------|
| v <sub>max</sub> [m/s]           | a <sub>max</sub> [m/s <sup>2</sup> ] | [mm] |
| 3                                | 30                                   | 18   |

 Die gleitende Energieführung muss in einem Kanal geführt werden. Unsere Techniker unterstützen Sie gerne bei der Projektierung – sprechen Sie uns an.

### Berechnung der Kettenlänge

#### Kettenlänge $L_k$

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

Kettenlänge  $L_k$  aufgerundet auf Teilung t

Legende für Kurzzeichen  
auf Seite 60



### TSUBAKI KABELSCHLEPP Beratungsservice

Bei Fragen zur Auslegung gleitender Energieführungen oder technischen Details, nehmen Sie doch einfach unsere technische Beratung unter [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de) in Anspruch. Wir helfen Ihnen gerne.

Montagehinweise auf  
[kabelschlepp.de/montage](http://kabelschlepp.de/montage)

Bestellschlüssel  
auf Seite 22



## Stegbauart 030 – mit Lamellenbügeln im Außenradius

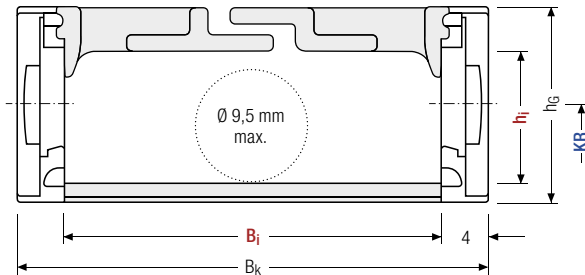
- Gewichtsoptimierter Kunststoffrahmen mit besonders hoher Torsionssteifigkeit.
- Öffnungsmöglichkeiten  
Außen: Schwenkbar.
- Lamellen einseitig an beliebiger Position schwenkbar.



Steganordnung an jedem Kettenglied (VS)



$B_i$  von 40 mm



## Berechnung der Kettenbreite

Außenbreite  $B_k$ 

$$B_k = B_i + 8 \text{ mm}$$



Der maximale Leitungsdurchmesser ist stark abhängig von Krümmungsradius und dem gewünschten Leitungstyp. Bitte sprechen Sie uns an.

## Teilung, Innenhöhe und Kettengliedhöhe

| t<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] |
|-----------|------------------------|------------------------|
| 18        | 11,9                   | 18                     |



## Krümmungsradien

| KR [mm] |    |    |
|---------|----|----|
| 28      | 37 | 50 |



## Innen-, Außenbreite und Ketteneigengewicht

| B <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|--------------------------|
| 40                     | 48                     | 0,27                     |

Legende für Kurzzeichen  
auf Seite 60

## Bestellbeispiel



|            |            |                     |         |                     |
|------------|------------|---------------------|---------|---------------------|
| ET0180     | 030        | 40                  | 37      | 720                 |
| Typenreihe | Stegbauart | B <sub>i</sub> [mm] | KR [mm] | L <sub>k</sub> [mm] |

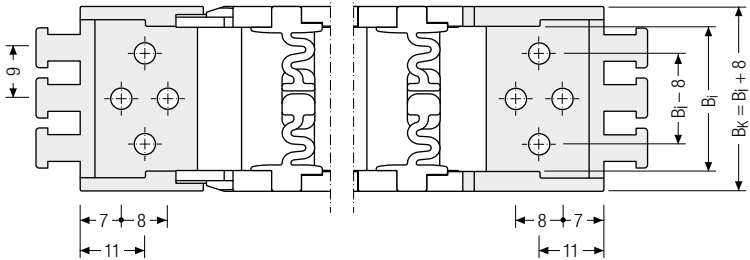
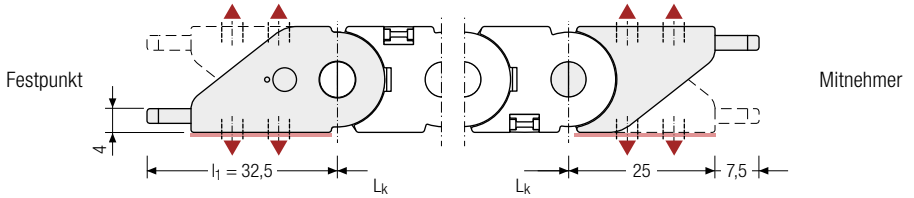
Montagehinweise auf  
kabelschlepp.de/montage

Bestellschlüssel  
auf Seite 22



Einteilige Anschlusswinkel – Kunststoff (mit integrierter Zugentlastung)

Die Anschlusswinkel aus Kunststoff lassen sich von **oben oder unten anschließen**. Die Anschlussart kann durch Umstecken des Anschlusswinkels geändert werden.



kabelschlepp.de/  
easytrax

Konfigurieren Sie ihre Energieführung:  
onlineengineer.de

Technischer Support:  
technik@kabelschlepp.de

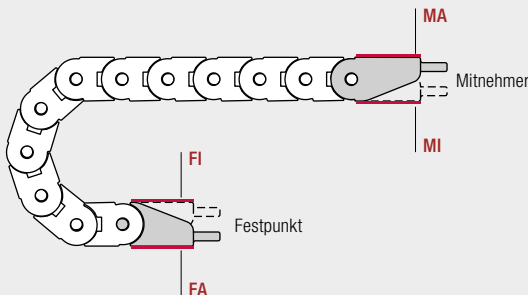
| $B_i$<br>[mm] | $B_k$<br>[mm] | $n_z$ |
|---------------|---------------|-------|
| 40            | 48            | 4     |

▲ Montagemöglichkeiten

🚫 Die Anschlusswinkel sind nicht schwenkbar.

🚫 Für beugte Einbauverhältnisse sind auch kurze Anschlussstücke ohne Zugentlastung verfügbar. Bitte sprechen Sie uns an.

Anschlussvarianten



Anschlusspunkt

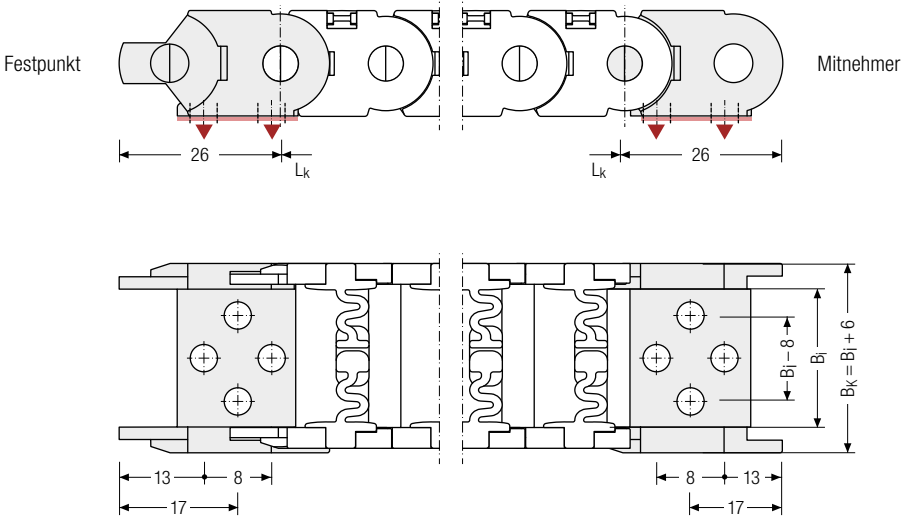
F – Festpunkt  
M – Mitnehmer

Anschlussart

A – Verschraubung nach außen (Standard)  
I – Verschraubung nach innen

## Einteilige Anschlussstücke – Kunststoff

Die Anschlussstücke aus Kunststoff lassen sich von **oben oder unten anschließen**. Die Anschlussart kann durch Umstecken des Anschlussstücks geändert werden.



Innenhöhen

11,9

Innenbreiten

40

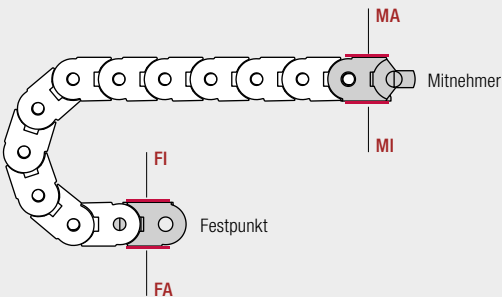
Legende für Kurzzeichen auf Seite 60

▲ Montagemöglichkeiten

 Die Anschlussstück sind nicht schwenkbar.

Montagehinweise auf [kabelschlepp.de/montage](http://kabelschlepp.de/montage)

## Anschlussvarianten



### Anschlusspunkt

- F – Festpunkt
- M – Mitnehmer

### Anschlussart

- A – Verschraubung nach außen (Standard)
- I – Verschraubung nach innen

Änderungen vorbehalten.

Bestellschlüssel auf Seite 22



## Bestellung

### Energieführung

| Typenreihe | Stegbauart | B <sub>i</sub> [mm] | KR [mm] | L <sub>K</sub> [mm] |
|------------|------------|---------------------|---------|---------------------|
|            |            |                     | 28      |                     |
|            |            |                     | 37      |                     |
| ET0180     | 030        | 40                  | 50      |                     |

|            |            |                     |         |                     |
|------------|------------|---------------------|---------|---------------------|
| ET0180     | 030        | 40                  | 37      | 720                 |
| Typenreihe | Stegbauart | B <sub>i</sub> [mm] | KR [mm] | L <sub>K</sub> [mm] |


 **Internationale Bestellbezeichnung intOK:**  
Hinweise zum International Order Key finden Sie im Kapitel „International Order Key“ ab Seite 1.

### Anschlussvariante

| Anschlusselement | Anschlusspunkt | Anschlussart |
|------------------|----------------|--------------|
|                  | F              | A            |
| Anschlusswinkel  | M              | I            |

|                 |   |   |
|-----------------|---|---|
| Anschlusswinkel | F | A |
| Anschlusswinkel | M | A |

 Bitte geben Sie die gewünschte Anschlussvariante sowie die gewünschte Zugentlastungsart sowohl für den Festpunkt, als auch für den Mitnehmer an.

kabelschlepp.de/  
easytrax

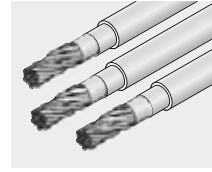
Konfigurieren Sie ihre Energieführung:  
onlineengineer.de

Technischer Support:  
technik@kabelschlepp.de

## Zubehör

### TRAXLINE® Leitungen für Energieführungen

Hochflexible Elektroleitungen, die speziell für den Einsatz in Energieführungsketten entwickelt, optimiert und getestet wurden.



Innenhöhen

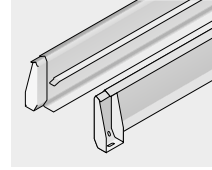
11,9

Innenbreiten

40

### Führungskanäle

Bei gleitenden Anwendungen muss die Energieführung zwingend in einem Kanal geführt werden. Ein Abrutschen des Ober- vom Untertrum wird verhindert.



Legende für Kurzzeichen auf Seite 60

Montagehinweise auf [kabelschlepp.de/montage](http://kabelschlepp.de/montage)

Bestellschlüssel auf Seite 22



### TOTALTRAX® Komplettsysteme

Profitieren Sie von den Vorteilen eines TOTALTRAX®-Komplettsystems. Eine Komplettlieferrung aus einer Hand – auf Wunsch mit Garantiezertifikat! Erfahren Sie mehr unter [kabelschlepp.de/totaltrax](http://kabelschlepp.de/totaltrax)

### Weitere Produktinformationen online



Montageanleitungen uvm.:  
Mehr Infos auf Ihrem Smartphone  
oder unter  
[kabelschlepp.de/support](http://kabelschlepp.de/support)



Konfigurieren Sie hier Ihre  
Energieführungskette:  
[onlineengineer.de](http://onlineengineer.de)

# ET0320

kabelschlepp.de/  
easytrax



Pitch  
32 mm



Height  
18 mm



Width  
15 - 65 mm



Bending radius  
28 - 125 mm

Configure your cable carrier:  
onlineengineer.de

## Stay variants

### Design 030

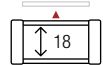


From page 28

#### Frame with lamella crossbars in the outer radius

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

**Opening options**  
outside: Swivable.



### Design 040

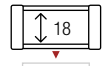


From page 30

#### Frame with lamella crossbars in the inner radius

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

**Opening options**  
inside: Swivable.



Technical support:  
technik@kabelschlepp.de







Subject to change.

**EasyTrax®**

Inner heights



Inner widths



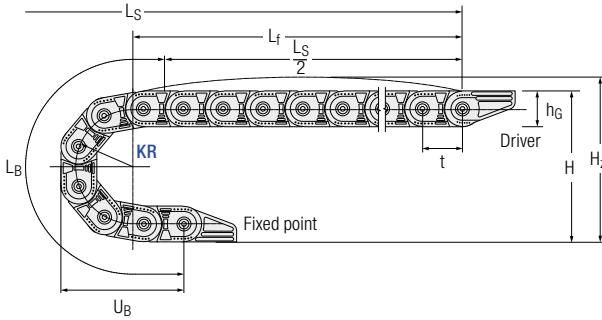
Key for abbreviations  
on page 60

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

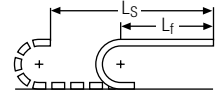
Order key  
on page 36



## 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

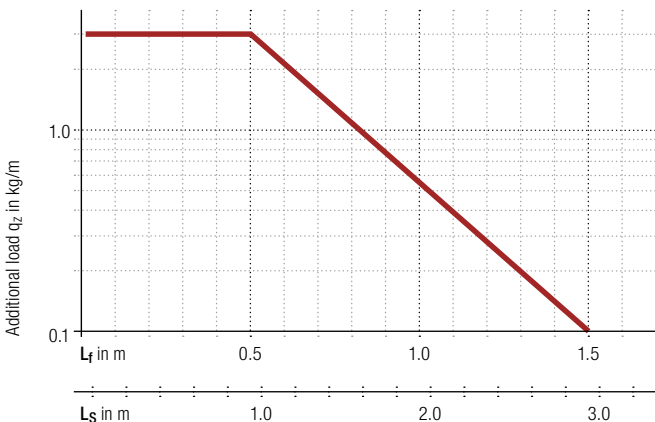
| $v_{max}$ [m/s] | $a_{max}$ [m/s <sup>2</sup> ] | t [mm] |
|-----------------|-------------------------------|--------|
| 10              | 50                            | 32     |

## 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   | 101.5               | 152                 | 73                  |
| 38      | 101.5  | 121.5               | 184                 | 83                  |
| 48      | 121.5  | 141.5               | 215                 | 93                  |
| 75      | 175.5  | 195.5               | 300                 | 120                 |
| 100     | 225.5  | 245.5               | 379                 | 145                 |
| 125     | 275.5  | 295.5               | 457                 | 170                 |

## 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 $L_f$

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



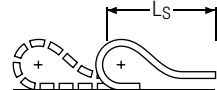
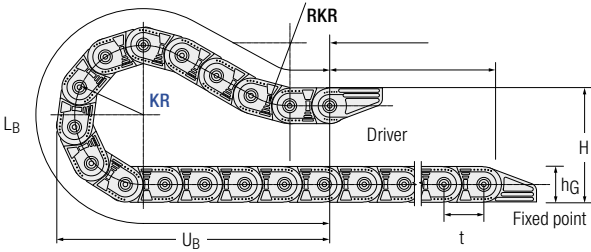
#### Fixed point offset $L_f$ :


For off-center fixed point connections please contact us.



Intrinsic cable carrier weight  $q_k = 0.40$  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  
18

Inner widths  
15  
65

 Only design 030 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                             | 25                                   | 32   |

 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 60

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

Order key on page 36



**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 030 – with lamella crossbars in the outer radius

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

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

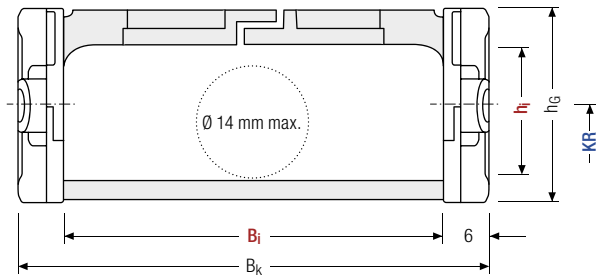


Stay arrangement on every chain link (VS)



$B_i$  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.



## Pitch, inner height and chain link height

| t<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] |
|-----------|------------------------|------------------------|
| 32        | 18                     | 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 <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|--------------------------|
| 15                     | 27                     | 0.35                     |
| 25                     | 37                     | 0.38                     |
| 38                     | 50                     | 0.40                     |
| 50                     | 62                     | 0.43                     |
| 65                     | 77                     | 0.45                     |

Key for abbreviations  
on page 60

## Order example



|        |   |              |   |                     |   |         |   |                     |
|--------|---|--------------|---|---------------------|---|---------|---|---------------------|
| ET0320 | · | 030          | · | 50                  | · | 100     | · | 1.280               |
| 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 36



Stay variant 040 – with lamella crossbars in the inner radius

kabelschlepp.de/  
easytrax

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

Configure your cable carrier:  
onlineengineer.de

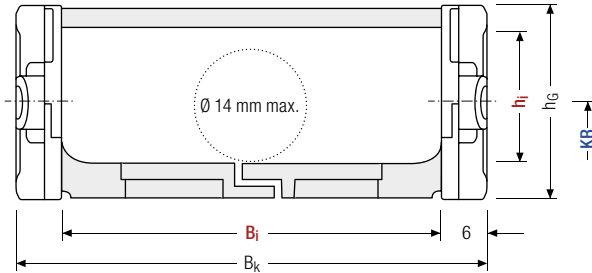


Stay arrangement on every chain link (VS)



$B_i$  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.



Design 040 is not suitable for gliding arrangement.



## Pitch, inner height and chain link height

| t<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] |
|-----------|------------------------|------------------------|
| 32        | 18                     | 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 <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|--------------------------|
| 15                     | 27                     | 0.35                     |
| 25                     | 37                     | 0.38                     |
| 38                     | 50                     | 0.40                     |
| 50                     | 62                     | 0.43                     |
| 65                     | 77                     | 0.45                     |

Key for abbreviations  
on page 60

## Order example


ET0320 · 040 · 50 · 100 · 1.280  
 Type      Stay variant      B<sub>i</sub> [mm]      KR [mm]      L<sub>k</sub> [mm]

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

Order key  
on page 36



## Divider systems

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

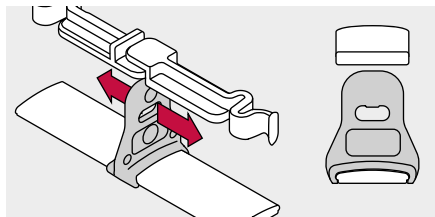
As standard, dividers and the complete divider system (dividers with height separations) can be moved in the cross section (**version A**).

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

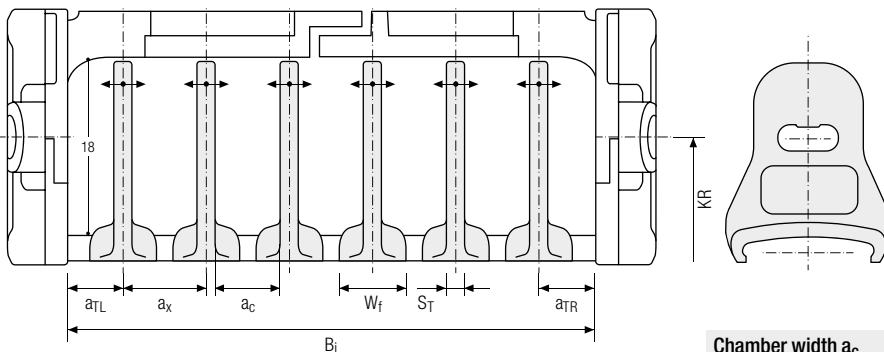
### Movable divider

#### Version A



### Divider system TSO without height separation

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



Chamber width  $a_c$

$$a_c = a_x - S_T$$

Technical support:  
technik@kabelschlepp.de







Inner heights



Inner widths



Key for abbreviations  
on page 60

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

Order key  
on page 36



# ET0320 | End Connectors | End Connectors

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

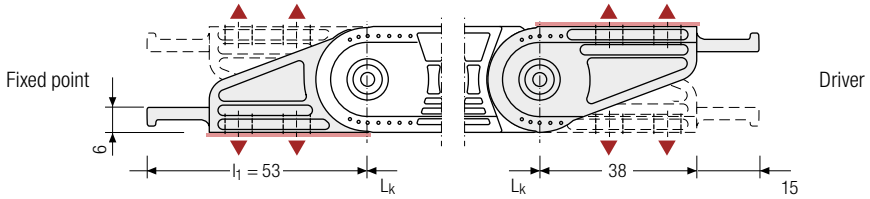
The plastic end connectors can be **connected from above and below**. The connection type can be changed by reconnecting the end connector.

kabelschlepp.de/  
easytrax

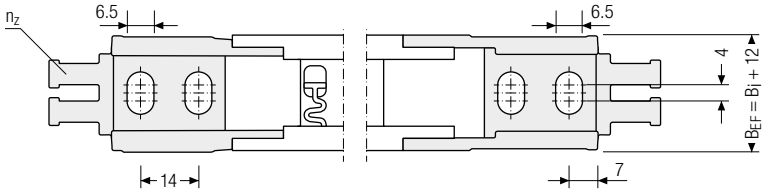
Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

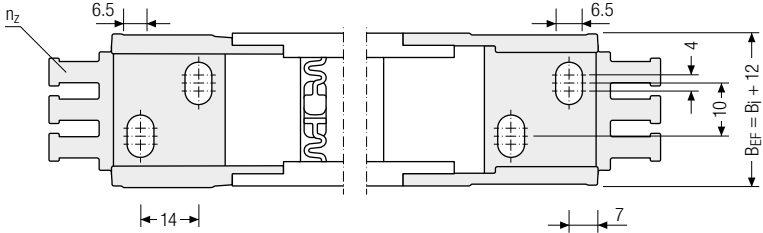
online-engineer.de  
Cable Carrier Configurator



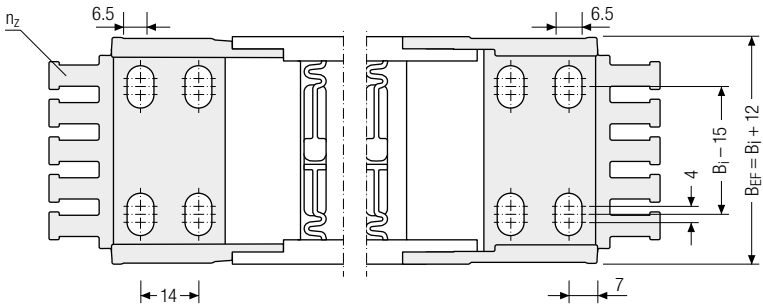
Bi: 15



Bi: 25



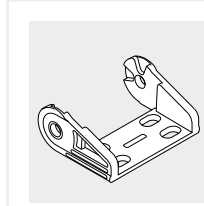
Bi: 38/50/65



▲ Assembly options

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

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




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

Inner heights

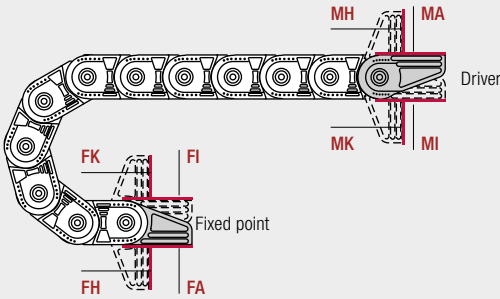


Inner widths



 The end connectors cannot be swiveled.

## 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°

Key for abbreviations on page 60

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

Order key on page 36




## Order

kabelschlepp.de/  
easytrax

### Cable carrier

| Type   | Stay variant | B <sub>i</sub> [mm] | KR [mm] | L <sub>K</sub> [mm] |
|--------|--------------|---------------------|---------|---------------------|
| ET0320 |              | 15                  | 28      |                     |
|        |              | 25                  | 38      |                     |
|        |              | 38                  | 48      |                     |
|        | 030          | 50                  | 75      |                     |
|        | 040          | 65                  | 100     |                     |




 **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 <sub>T</sub> |
|----------------|---------|----------------|
| TS0            | A       | min. 2         |
|                |         | ...            |

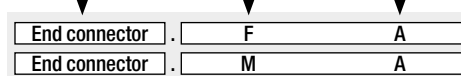



 Please state the designation of the divider system (**TS0**), version and number of dividers per cross section [n<sub>T</sub>].

Technical support:  
technik@kabelschlepp.de

### Connection variant

| End connector | Connection point | Connection type |
|---------------|------------------|-----------------|
| End connector |                  | A               |
|               |                  | I               |
|               | F                | H               |
|               | M                | K               |

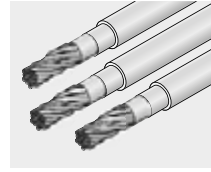


 Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

## Accessories

### TRAXLINE® cables in motion

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



Inner heights

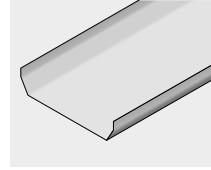


Inner widths



### 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 60

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

Order key  
on page 36



### 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

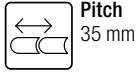


Assembly instructions etc.:  
Receive additional info via your  
smartphone or check online at  
[kabelschlepp.de/support](http://kabelschlepp.de/support)

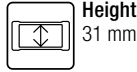


Configure your  
custom cable carrier:  
[onlineengineer.de](http://onlineengineer.de)

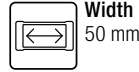
# ET0350



**Pitch**  
35 mm



**Height**  
31 mm



**Width**  
50 mm



**Bending radius**  
48 – 125 mm

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

## Stay variants

### Design 030

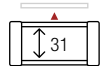


From page 40

#### Frame with lamella crossbars in the outer radius

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

**Opening options**  
outside: Swivable.



### Design 040

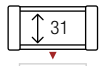


From page 42

#### Frame with lamella crossbars in the inner radius

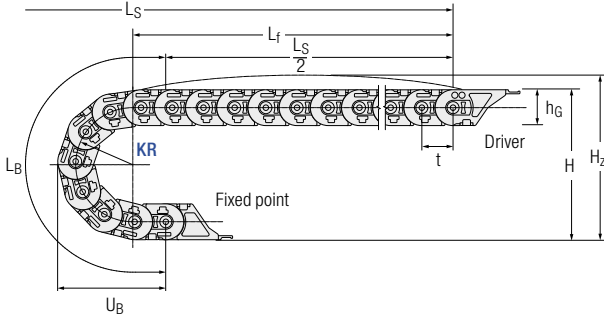
- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

**Opening options**  
inside: Swivable.

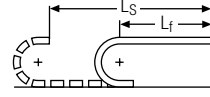


Technical support:  
technik@kabelschlepp.de

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  
31

Inner widths  
50

| Dynamics of unsupported arrangement |                               | t    |
|-------------------------------------|-------------------------------|------|
| $v_{max}$ [m/s]                     | $a_{max}$ [m/s <sup>2</sup> ] | [mm] |
| 5                                   | 20                            | 35   |

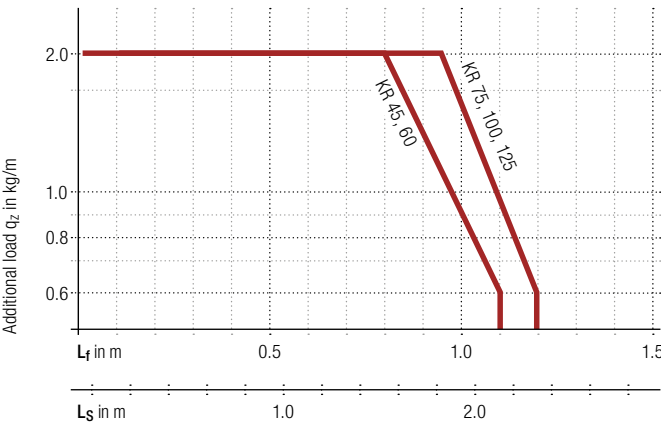
Installation dimensions unsupported

| KR [mm] | H [mm] | Hz [mm] | LB [mm] | UB [mm] |
|---------|--------|---------|---------|---------|
| 48      | 146    | 176     | 220     | 103     |
| 60      | 170    | 200     | 258     | 115     |
| 75      | 200    | 230     | 306     | 130     |
| 100     | 250    | 280     | 384     | 155     |
| 125     | 300    | 330     | 463     | 180     |

Key for abbreviations on page 60

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  $L_f$

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

**i** 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 46



**i** Intrinsic cable carrier weight  $q_k = 0.2 \text{ kg/m}$  with  $B_i 16 \text{ mm}$ .  
For other inner widths the maximum additional load changes.

Stay variant 030 – with lamella crossbars in the outer radius

kabelschlepp.de/  
easytrax

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

Configure your cable carrier:  
onlineengineer.de

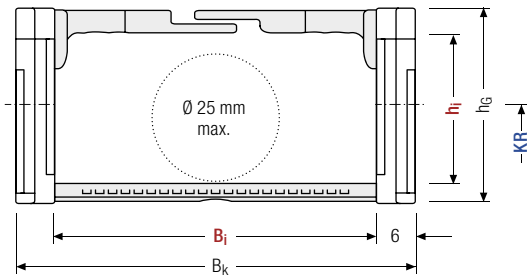


Stay arrangement on every chain link (VS)



$B_i$  from 50 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.





## Pitch, inner height and chain link height

| t<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] |
|-----------|------------------------|------------------------|
| 35        | 31                     | 40                     |

Inner heights



## Bend radii

| KR [mm] |    |    |     |     |
|---------|----|----|-----|-----|
| 48      | 60 | 75 | 100 | 125 |

Inner widths



## Inner/outer width and intrinsic cable carrier weight

| B <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|--------------------------|
| 50                     | 62                     | 0.8                      |

Key for abbreviations on page 60

## Order example



|        |   |              |   |                     |   |         |   |                     |
|--------|---|--------------|---|---------------------|---|---------|---|---------------------|
| ET0350 | · | 030          | · | 50                  | · | 100     | · | 700                 |
| Type   |   | Stay variant |   | B <sub>i</sub> [mm] |   | KR [mm] |   | L <sub>k</sub> [mm] |

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

Order key on page 46



## Stay variant 040 – with lamella crossbars in the inner radius

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

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de



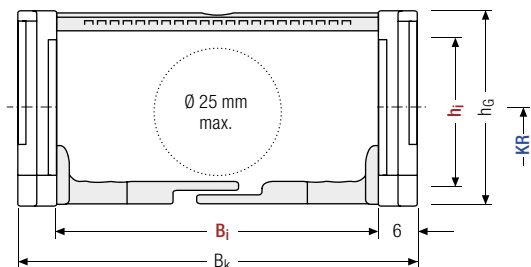
Stay arrangement on every chain link (VS)



$B_i$  from 50 mm

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator



### Calculating the cable carrier width

#### Outer width $B_k$

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



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



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

## Pitch, inner height and chain link height

| t<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] |
|-----------|------------------------|------------------------|
| 35        | 31                     | 40                     |

Inner heights



## Bend radii

| KR [mm] |    |    |     |     |
|---------|----|----|-----|-----|
| 48      | 60 | 75 | 100 | 125 |

Inner widths



## Inner/outer width and intrinsic cable carrier weight

| B <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|--------------------------|
| 50                     | 62                     | 0.8                      |

Key for abbreviations  
on page 60

## Order example



|        |   |              |   |                     |   |         |   |                     |
|--------|---|--------------|---|---------------------|---|---------|---|---------------------|
| ET0350 | · | 040          | · | 50                  | · | 100     | · | 700                 |
| 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 46



## 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.

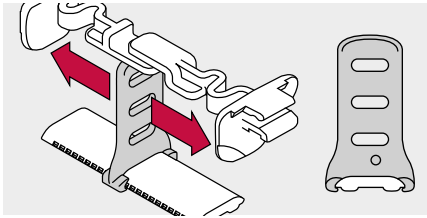
The locking cams click into place in the locking grids in the crossbars (**version B**).

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

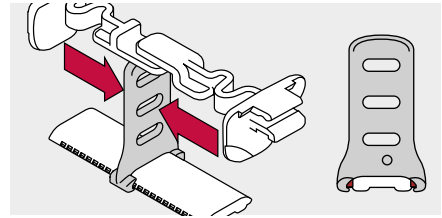
### Movable divider

#### Version A (Standard)



### Fixable divider (2 mm grid)

#### Version B

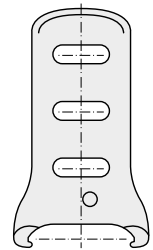
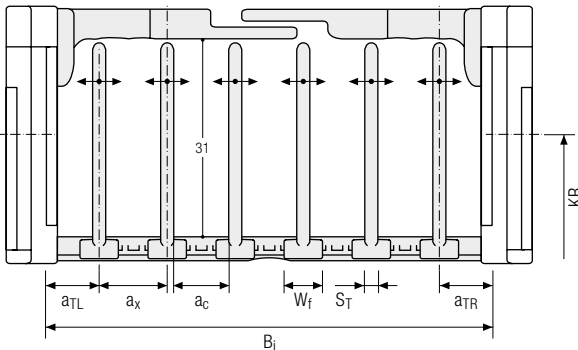


## Divider system TSO without height separation

|               |               | Version A                   |                   |                   | Version B                   |                   |                   |                      |
|---------------|---------------|-----------------------------|-------------------|-------------------|-----------------------------|-------------------|-------------------|----------------------|
| $S_T$<br>[mm] | $W_f$<br>[mm] | $a_{TL/a_{TR}}$ min<br>[mm] | $a_x$ min<br>[mm] | $a_c$ min<br>[mm] | $a_{TL/a_{TR}}$ min<br>[mm] | $a_x$ min<br>[mm] | $a_c$ min<br>[mm] | $a_x$ Raster<br>[mm] |
| 2             | 6             | 3                           | 6                 | 4                 | 4,5* / 5                    | 6                 | 4                 | 2                    |

\* Only  $B_i$  25

Technical support:  
technik@kabelschlepp.de



Chamber width  $a_c$

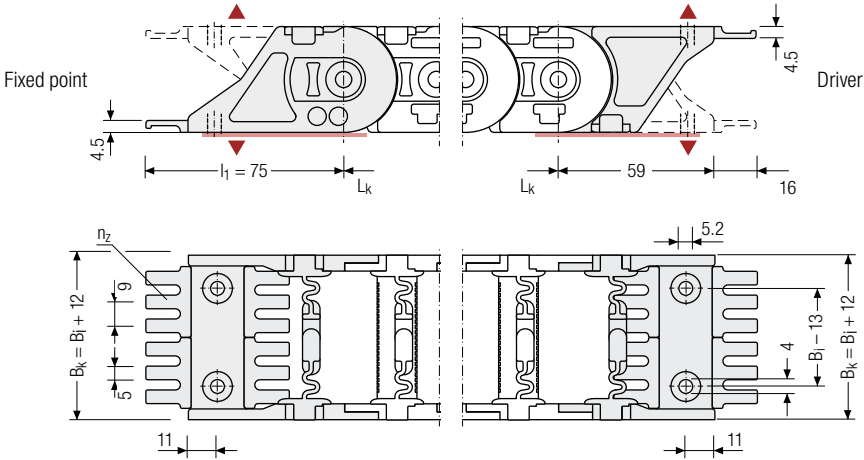
$$a_c = a_x - S_T$$



# ET0350 | End Connectors

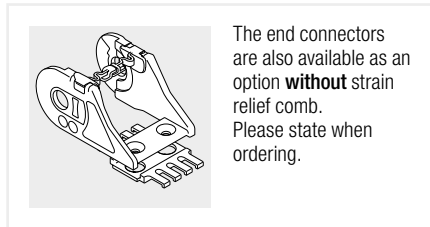
## One part end connectors – plastic (suitable for $B_i$ 25 – 50)

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

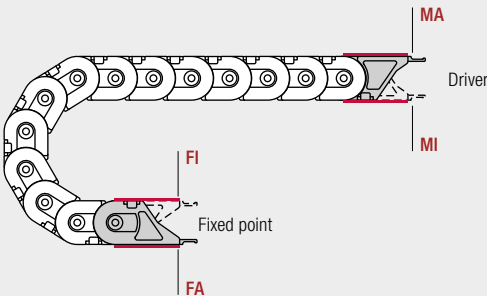


### ▲ Assembly options

| $B_i$<br>[mm] | $B_k$<br>[mm] | $n_z$ |
|---------------|---------------|-------|
| 50            | 62            | 6     |



## Connection variants



### Connection point

- F** – fixed point
- M** – driver

### Connection type

- A** – threaded joint outside (standard)
- I** – threaded joint inside




## Order

kabelschlepp.de/  
easytrax

### Cable carrier

| Type   | Stay variant | $B_i$ [mm] | KR [mm] | $L_K$ [mm] |
|--------|--------------|------------|---------|------------|
| ET0350 | 040          | 50         | 48      | 700        |
|        |              |            | 60      |            |
|        |              |            | 75      |            |
|        |              |            | 100     |            |
|        |              |            | 125     |            |

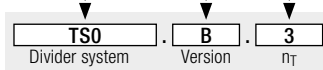



 **International order specification INTOK:**  
 Information about the International Order Key can be found in the chapter "International Order Key" from page 1.

Configure your cable carrier:  
onlineengineer.de

### Divider system

| Divider system | Version | $n_T$  |
|----------------|---------|--------|
| TS0            | A       | min. 2 |
|                | B       | ...    |

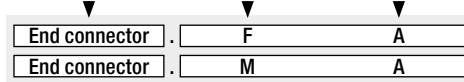



 Please state the designation of the divider system (**TS0, TS1**), version and number of dividers per cross section [ $n_T$ ].

Technical support:  
technik@kabelschlepp.de

### Connection variant

| End connector | Connection point | Connection type |
|---------------|------------------|-----------------|
| End connector | F                | A               |
|               | M                | I               |

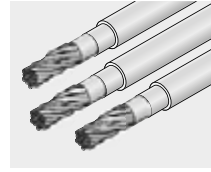


 Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

## Accessories

### TRAXLINE® cables in motion

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



Inner heights

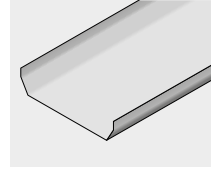


Inner widths



### 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 60

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

Order key on page 46



### 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)

# ET1455



kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

## Stay variants

### Design 030



From page 52

#### Frame with lamella crossbars in the outer radius

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

**Opening options**  
outside: Swivable.



### Design 040



From page 54

#### Frame with lamella crossbars in the inner radius

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

**Opening options**  
inside: Swivable.







Supplies for change.

Inner heights



Inner widths



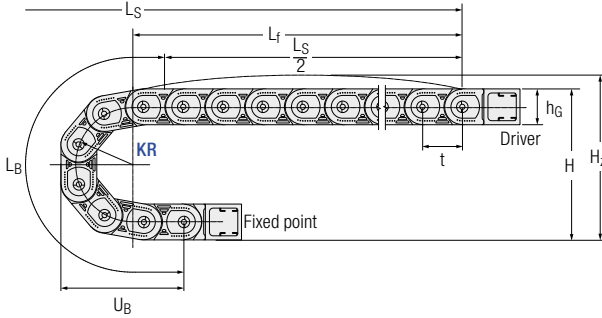
Key for abbreviations  
on page 60

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

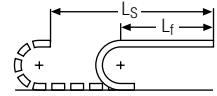
Order key  
on page 58



## Unsupported arrangement



### Unsupported length $L_f$



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

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

Technical support:  
technik@kabelschlepp.de

online-engineer.de  
Cable Carrier Configurator

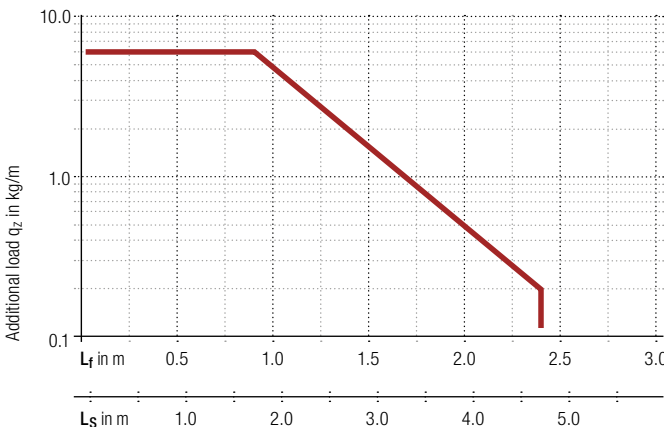
| Dynamics of unsupported arrangement |                               | t    |
|-------------------------------------|-------------------------------|------|
| $v_{max}$ [m/s]                     | $a_{max}$ [m/s <sup>2</sup> ] | [mm] |
| 10                                  | 50                            | 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    | 211                 | 484                 | 189                 |         |        |                     |                     |                     |

## 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 $L_f$

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



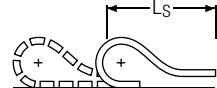
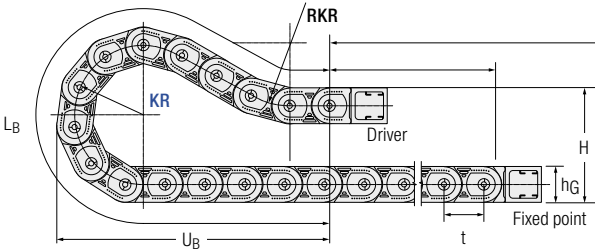
#### Fixed point offset $L_f$ :


For off-center fixed point connections please contact us.



Intrinsic cable carrier weight  $q_k = 0.75 \text{ kg/m}$  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  
25

Inner widths  
78

 Only design 030 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 60

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

Order key on page 58





**TSUBAKI KABELSCHLEPP Technical Support**

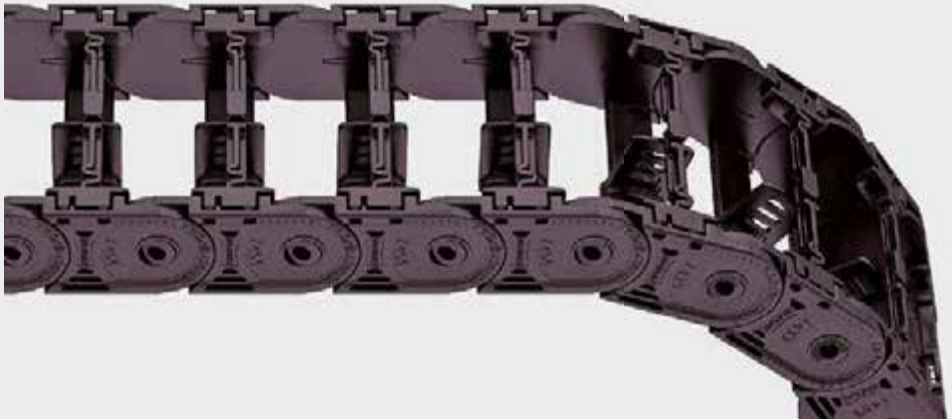
If you have any questions about determining gliding cable carriers or other technical details please contact our technical support service at [technik@kabelschlepp.de](mailto:technik@kabelschlepp.de). We will be happy to help you.

Stay variant 030 – with lamella crossbars in the outner radius

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

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

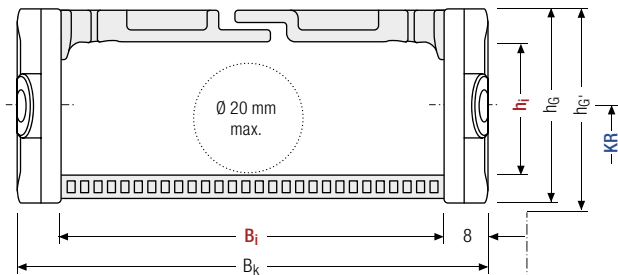


Stay arrangement on every chain link (VS)



$B_i$  from 78 mm

Technical support:  
technik@kabelschlepp.de



Calculating the cable carrier width

**Outer width  $B_k$**

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

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

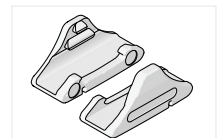
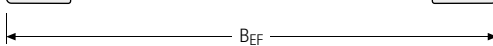
$$B_{EF} = B_i + 19 \text{ mm}$$



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



push-on glide shoes for long travel lengths



Replaceable glide shoes

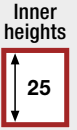


Information on the inner distribution of the cable carrier can be found on page 56.

# ET1455.030 | Dimensions · Technical Data

## Pitch, inner height and chain link height

| t<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] | h <sub>G'</sub><br>[mm] |
|-----------|------------------------|------------------------|-------------------------|
| 45.5      | 25                     | 36                     | 38.5                    |



## Bend radii

| KR [mm] |    |    |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|
| 52      | 65 | 95 | 125 | 150 | 180 | 200 |



## Inner/outer width and intrinsic cable carrier weight

| B <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | B <sub>EF</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|-------------------------|--------------------------|
| 78                     | 94                     | 97                      | 0.8                      |

Key for abbreviations  
on page 60

## Order example



|        |   |              |   |                     |   |         |   |                     |
|--------|---|--------------|---|---------------------|---|---------|---|---------------------|
| ET1455 | · | 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 58



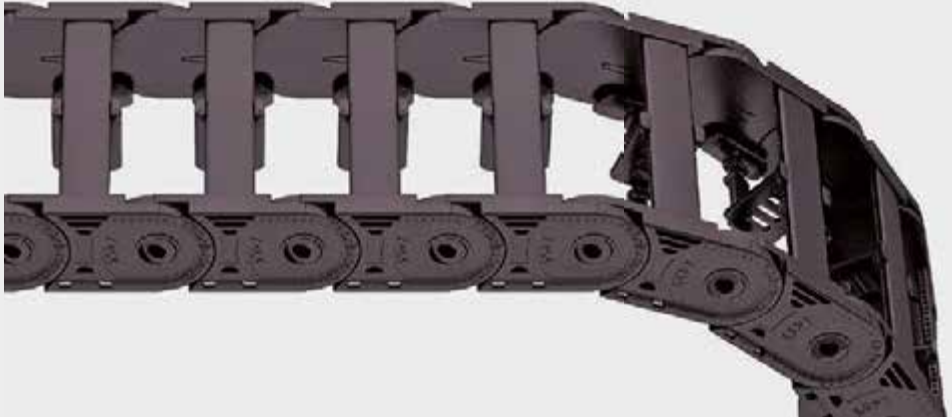
Stay variant 040 – with lamella crossbars in the inner radius

kabelschlepp.de/  
easytrax

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable slats on one side in any position.

- **Opening options inside:** Swivable.

Configure your cable carrier:  
onlineengineer.de

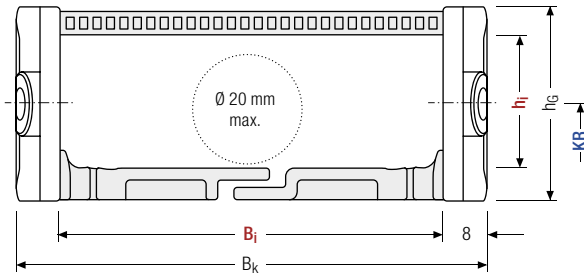


Stay arrangement on every chain link (VS)



$B_i$  from 78 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<br>[mm] | h <sub>i</sub><br>[mm] | h <sub>G</sub><br>[mm] |
|-----------|------------------------|------------------------|
| 45.5      | 25                     | 36                     |

Inner heights



## Bend radii

| KR [mm] |    |    |     |     |     |     |
|---------|----|----|-----|-----|-----|-----|
| 52      | 65 | 95 | 125 | 150 | 180 | 200 |

Inner widths



## Inner/outer width and intrinsic cable carrier weight

| B <sub>i</sub><br>[mm] | B <sub>k</sub><br>[mm] | B <sub>EF</sub><br>[mm] | q <sub>k</sub><br>[kg/m] |
|------------------------|------------------------|-------------------------|--------------------------|
| 78                     | 94                     | 97                      | 0.8                      |

Key for abbreviations  
on page 60

## Order example

|  |        |   |              |   |                     |   |         |   |                     |
|--|--------|---|--------------|---|---------------------|---|---------|---|---------------------|
|  | ET1455 | . | 040          | . | 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 58



## 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**).

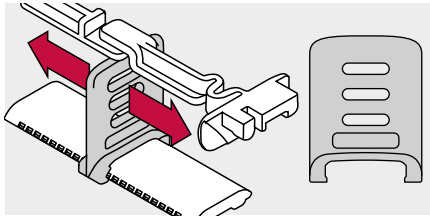
The dividers are easily attached to the stay for applications with transverse acceleration and for laterally recumbent applications by simply turning them. The locking cams click into place in the locking grids in the crossbars (**version B**).

kabelschlepp.de/  
easytrax

Configure your cable carrier:  
onlineengineer.de

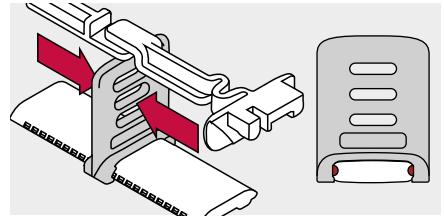
### Movable divider

#### Version A (Standard)



### Fixable divider (2.5 mm grid)

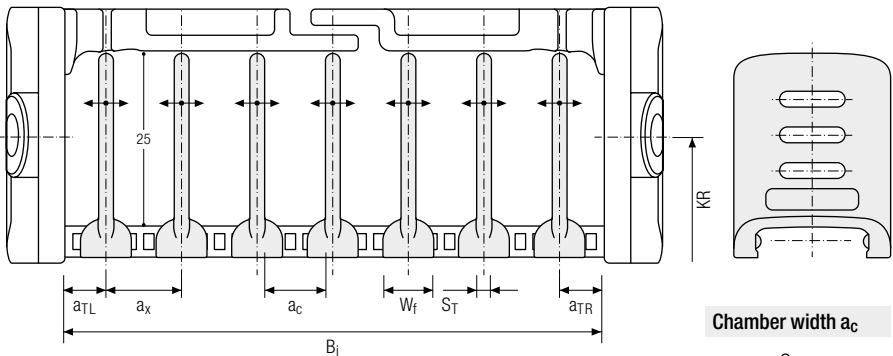
#### Version B



## Divider system TSO without height separation

| $S_T$<br>[mm] | $W_f$<br>[mm] | Version A                   |                   |                   | Version B                   |                   |                   |                      |
|---------------|---------------|-----------------------------|-------------------|-------------------|-----------------------------|-------------------|-------------------|----------------------|
|               |               | $a_{TL}/a_{TR}$ min<br>[mm] | $a_x$ min<br>[mm] | $a_c$ min<br>[mm] | $a_{TL}/a_{TR}$ min<br>[mm] | $a_x$ min<br>[mm] | $a_c$ min<br>[mm] | $a_x$ Raster<br>[mm] |
| 2             | 7             | 3.5                         | 7                 | 5                 | 4                           | 7.5               | 5.5               | 2.5                  |

Technical support:  
technik@kabelschlepp.de

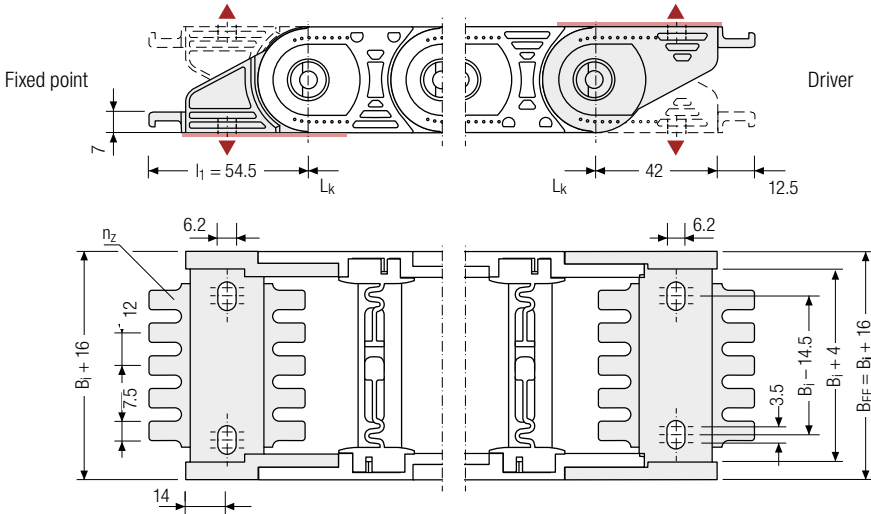


**Chamber width  $a_c$**   
 $a_c = a_x - S_T$



## One part end connectors – plastic

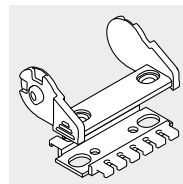
The plastic end connectors can be **connected from above and below**. The connection type can be changed by reconnecting the end connector.



Recommended tightening torque: 6 Nm for screws M6 - 8.8

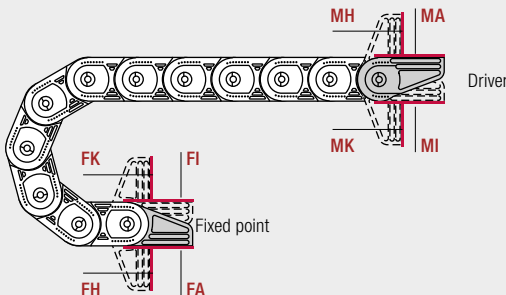
### ▲ Assembly options

| $B_i$<br>[mm] | $B_{EF}$<br>[mm] | $n_z$ |
|---------------|------------------|-------|
| 78            | 94               | 2 x 6 |



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°

Inner heights



Inner widths



Key for abbreviations on page 60

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

Order key on page 58



## Order

kabelschlepp.de/  
easytrax

### Cable carrier

| Type   | Stay variant | B <sub>i</sub> [mm] | KR [mm] | L <sub>K</sub> [mm] |
|--------|--------------|---------------------|---------|---------------------|
|        |              |                     | 52      |                     |
|        |              |                     | 65      |                     |
|        |              |                     | 95      |                     |
|        |              |                     | 125     |                     |
|        |              |                     | 150     |                     |
|        |              |                     | 180     |                     |
|        |              |                     | 200     |                     |
| ET1455 | 030          | 78                  | 150     | 1.456               |
| ET1455 | 040          | 78                  | 150     | 1.456               |

|        |              |                     |         |                     |
|--------|--------------|---------------------|---------|---------------------|
| ET1455 | 030          | 78                  | 150     | 1.456               |
| Type   | Stay variant | B <sub>i</sub> [mm] | KR [mm] | L <sub>K</sub> [mm] |

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.

Technical support:  
technik@kabelschlepp.de

### Divider system

| Divider system | Version | n <sub>T</sub> |
|----------------|---------|----------------|
|                | A       | min. 2         |
|                | B       | ...            |
| TS0            | B       | 3              |

|                |         |                |
|----------------|---------|----------------|
| TS0            | B       | 3              |
| Divider system | Version | n <sub>T</sub> |



Please state the designation of the divider system (TS0, TS1 ...), version and number of dividers per cross section [n<sub>T</sub>].

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Cable Carrier Configurator

### Connection variant

| End connector   | Connection point | Connection type |
|-----------------|------------------|-----------------|
|                 |                  | A               |
|                 |                  | I               |
|                 | F                | H               |
| Anschlusswinkel | M                | K               |
| Anschlusswinkel | F                | A               |
| Anschlusswinkel | M                | A               |

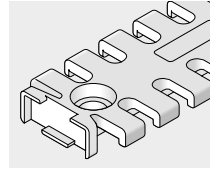


Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

## 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

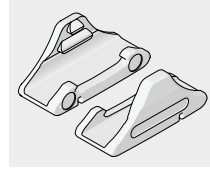


Inner widths



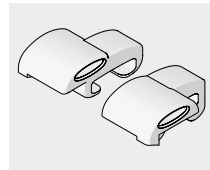
### Gliding elements

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



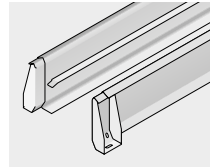
### Outer dampers (Design 040)

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



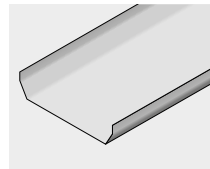
### Guide channels

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 60

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

Order key  
on page 58



## General abbreviations

|           |   |           |  |
|-----------|---|-----------|--|
| $a_c$     | = nominal width inner chamber                             | $l_{2-5}$ | = connection dimensions                                |
| $a_{max}$ | = max. travel acceleration                                | $l_A$     | = length of end connector                              |
| $a_{TL}$  | = distance lateral tabs inside to center of first divider | $l_B$     | = length of carrier in bend                            |
| $a_{TR}$  | = distance lateral tabs inside to center of last divider  | $l_D$     | = length of permitted sag                              |
| $a_x$     | = divider center to center distance                       | $l_f$     | = unsupported length                                   |
| $b_1$     | = inner width of guide channel                            | $l_{ES}$  | = length of energy conduit                             |
| $b_A$     | = distance between connection boreholes                   | $l_k$     | = cable carrier length without connection              |
| $B_{EF}$  | = overall width of cable carrier incl. attachments        | $l_S$     | = travel length  |
| $B_i$     | = inner width   | $l_v$     | = fixed point offset                                   |
| $B_k$     | = outer width   | $n_p$     | = number of hole stay inserts                          |
| $B_{KA}$  | = outer width of guide channel                            | $n_{RKR}$ | = number of RKR links                                  |
| $B_p$     | = width of hole stay inserts                              | $n_T$     | = number of dividers                                   |
| $B_{St}$  | = stay width  | $n_Z$     | = number of comb teeth for strain relief               |
| $c$       | = distance between hole stay bores                        | $q_k$     | = intrinsic cable carrier weight                       |
| $d$       | = diameter  | $q_z$     | = additional load                                      |
| $D$       | = bore diameter   | $RKR$     | = reverse bending radius                               |
| $d_R$     | = pipe diameter   | $s$       | = sheet metal thickness                                |
| $H$       | = connection height                                       | $S_H$     | = thickness of height separation                       |
| $H'$      | = reduced connection height                               | $S_T$     | = thickness of divider                                 |
| $h_G$     | = chain link height                                       | $t$       | = pitch  |
| $h_{G'}$  | = chain link height incl. glide shoe                      | $U_B$     | = loop overhang  |
| $h_i$     | = inner height  | $VD$      | = position of continuous height separations in divider |
| $H_i$     | = inner height of frame stay assembly                     | $VR$      | = position of partial height separations in divider    |
| $h_{KA}$  | = outer height of guide channel                           | $v_{max}$ | = max. travel speed                                    |
| $HS$      | = half-stayed   | $VS$      | = fully-stayed   |
| $H_z$     | = installation height                                     | $W_f$     | = base width of divider                                |
| $KR$      | = bending radius  | $z$       | = pretension   |
| $l_1$     | = connection length                                       |           |  |

## 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> )<br>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              |
|  |   |  | guide channel required                               |  |                                    |
|  |   |  | strain relief  |  |                                    |

**Inner heights**  
4.6  
25

**Inner widths**  
7  
78

**Key for abbreviations on page 60**

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