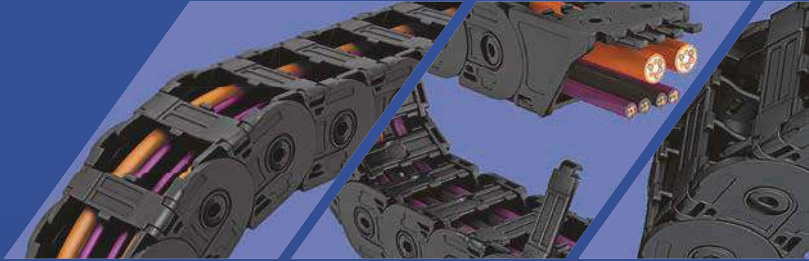


KABELSCHLEPP

TKP35 series

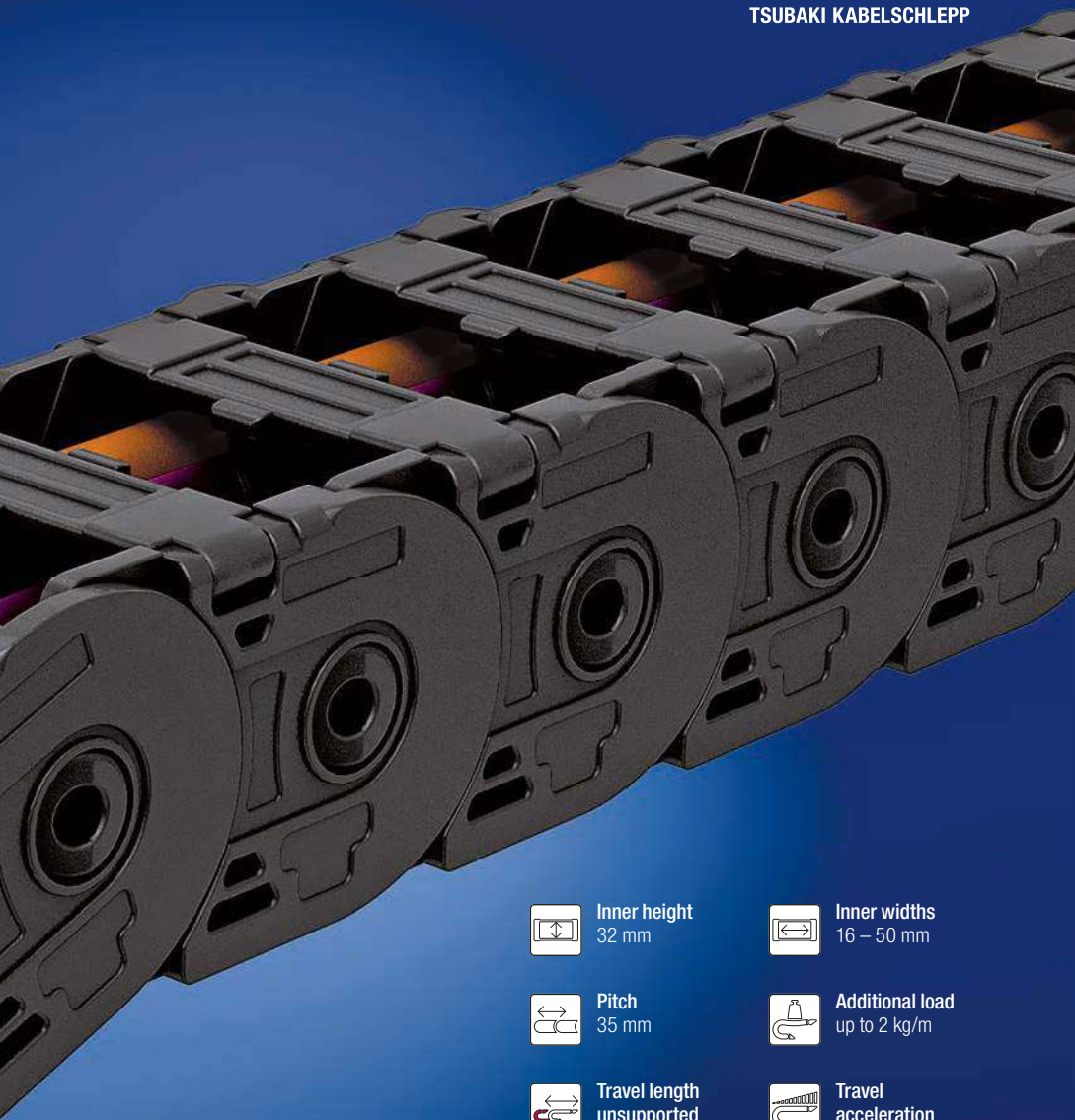


VARIABLE INNER DISTRIBUTION
QUICK AND EASY TO OPEN
ROBUST ALL-ROUNDER

TKP35 series

Robust all-rounder
with variable inner distribution





Inner height
32 mm



Inner widths
16 – 50 mm



Pitch
35 mm



Additional load
up to 2 kg/m



Travel length unsupported
up to 2.4 m



Travel acceleration
up to 20 m/s²



Travel speed
up to 5 m/s

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

kabelschlepp.de/
tkp35

Configure your cable carrier:
onlineengineer.de

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator



Features

- Robust and extremely rigid stroke system
- Extensive unsupported length
- Low noise operation due to internal damping system
- Weight-optimized cable carrier geometry
- Interior without sharp edges, design gentle on the cables
- Variable inner distribution
- Vertical moveable dividers or with locking cams, can be attached at 2 mm increments (not B_i 16)
- Easy to open versions, left or right (not B_i 16)
- Quick and easy to open
- Optional strain relief can be completely integrated into the connecting element



Reliable cable separation using fixable dividers



Model 030 with outside opening and detachable crossbars on both sides



Model 040 with inside opening and detachable crossbars on both sides



Optimized utilization of the interior space; vertical and horizontal inner distribution possible



Example of inner distribution

- 1 Dividers and height separation for separating the cables
- 2 Designs with inward or outward opening crossbars
- 3 Quick and easy opening from any position
- 4 Integrated noise damper
- 5 Interior gentle on the cables without projecting edges
- 6 End connectors with optional strain relief

Inner heights



Inner widths



Key for abbreviations on page 18

Assembly instructions on kabelschlepp.de/assembly

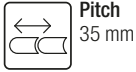
Selection criteria for the TKP35

- If a greater inner height is required for a narrower inner width
- If a smaller bending radius is required for a greater inner height
- If inner distribution is desired
- If divider fixing is to be possible
- If very smooth operation of the cable carrier is required
- If no cover on the cable carrier is required
- If no gliding arrangement is required
- If no steel cable carrier is required (e.g. at extremely high temperatures)



| Type | h_i [mm] | B_i [mm] | t [mm] | Page |
|-------|---------------|---------------|-------------|------|
| TKP35 | 32 | 16 – 50 | 35 | 6 |

TKP35



Pitch
35 mm



Height
32 mm



Width
16 – 50 mm



Bending radius
48 – 125 mm

kabelschlepp.de/
tkp35

Configure your cable carrier:
onlineengineer.de

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

Stay variants

Design 030



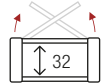
From page 8

Frame with outside opening crossbars on both sides

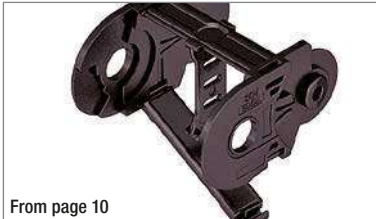
- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable on both sides in any position.

Opening options

outside: Hinged and detachable brackets.



Design 040



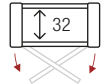
From page 10

Frame with inside opening crossbars on both sides

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

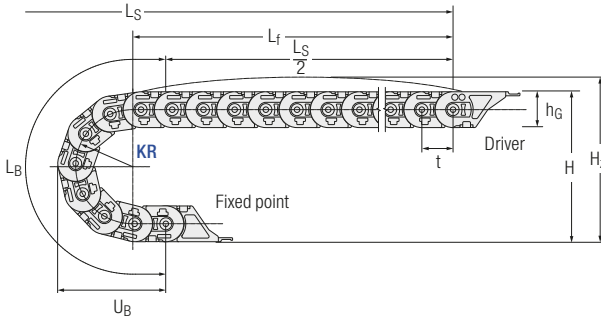
Opening options

inside: Hinged and detachable brackets.

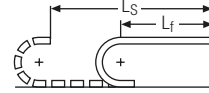


Technical data on p. 7

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 ²] | [mm] |
| 5 | 20 | 35 |

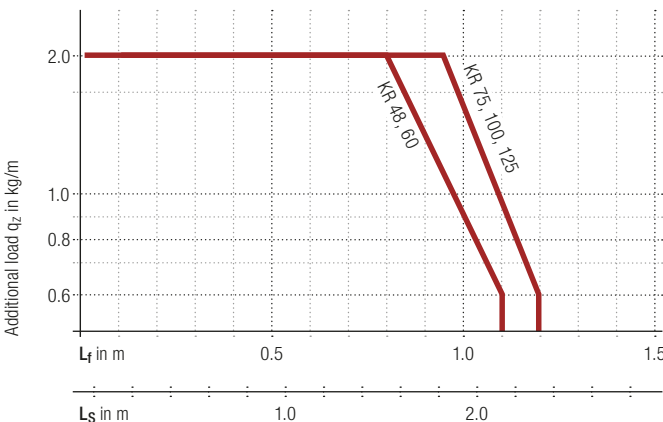
Installation dimensions unsupported

| KR [mm] | H [mm] | H _z [mm] | L _B [mm] | U _B [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 18

Load diagram

for unsupported length depending on additional load



Calculating the cable carrier length

Cable carrier length L_k

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

Cable carrier length L_k rounded to pitch t

Unsupported length L_f

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

Fixed point offset L_f :

For off-center fixed point connections please contact us.

Assembly instructions on kabelschlepp.de/assembly

Order key on page 16



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

Stay variant 030 – with outside opening and detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable on both sides in any position.
- **Opening options**
outside: Hinged and detachable brackets.

kabelschlepp.de/
tkp35

Configure your cable carrier:
onlineengineer.de



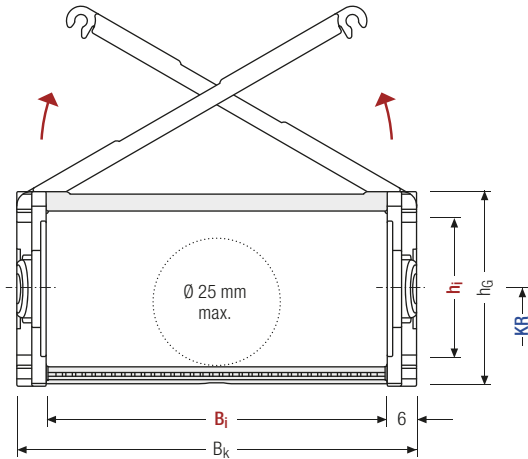
Stay arrangement on every chain link (VS)



B_i from 16 – 50 mm

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator



Calculating the cable carrier width

Outer width B_k

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

Outer width B_k (B_i 16)

$$B_k = B_i + 10 \text{ mm}$$



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 12 f.

Pitch, inner height and chain link height

| t [mm] | h_i [mm] | h_G [mm] |
|-----------|---------------|---------------|
| 35 | 32 | 40 |

Inner heights



Bend radii

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

Inner widths



Inner/outer width and intrinsic cable carrier weight

| B_i [mm] | B_k [mm] | q_k [kg/m] |
|---------------|---------------|-----------------|
| 16 | 26 | 0.2 |
| 25 | 37 | 0.6 |
| 38 | 50 | 0.7 |
| 50 | 62 | 0.8 |

Key for abbreviations on page 18

Order example



| | | | | | | | | |
|-------|---|--------------|---|------------|---|---------|---|------------|
| TKP35 | · | 030 | · | 50 | · | 100 | · | 700 |
| Type | | Stay variant | | B_i [mm] | | KR [mm] | | L_k [mm] |

Assembly instructions on kabelschlepp.de/assembly

Order key on page 16



Stay variant 040 – with inside opening and detachable crossbars

- Weight-optimized plastic frame with particularly high torsional rigidity.
- Swivable on both sides in any position.
- **Opening options**
inside: Hinged and detachable brackets.

kabelschlepp.de/
tkp35

Configure your cable carrier:
onlineengineer.de

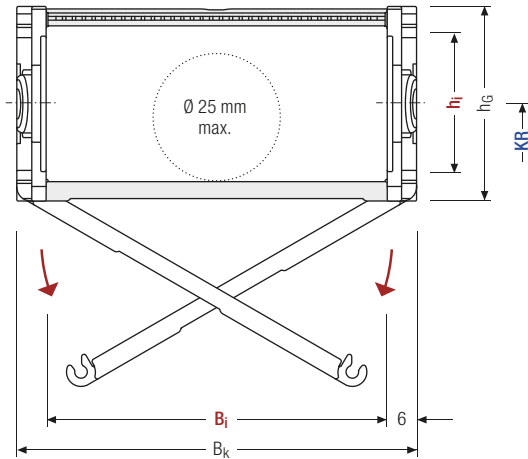


Stay arrangement on every chain link (VS)



B_i from 25 – 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 [mm] | h_i [mm] | h_G [mm] |
|-----------|---------------|---------------|
| 35 | 32 | 40 |

Inner heights



Bend radii

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

Inner widths



Inner/outer width and intrinsic cable carrier weight

| B_i [mm] | B_k [mm] | q_k [kg/m] |
|---------------|---------------|-----------------|
| 25 | 37 | 0.6 |
| 38 | 50 | 0.7 |
| 50 | 62 | 0.8 |

Key for abbreviations
on page 18

Order example



| | | | | | | | | |
|-------|---|--------------|---|------------|---|---------|---|------------|
| TKP35 | · | 030 | · | 50 | · | 100 | · | 700 |
| Type | | Stay variant | | B_i [mm] | | KR [mm] | | L_k [mm] |

Assembly instructions on
kabelschlepp.de/assembly

Order key
on page 16



Divider systems

As standard, the divider system is assembled at each 2nd 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.

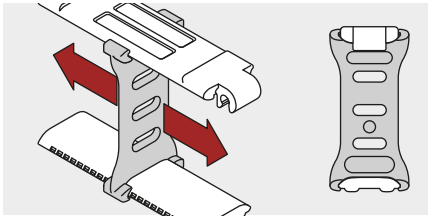
The locking cams click into place in the locking grids in the crossbars (**version B**).

kabelschlepp.de/
tkp35

Configure your cable carrier:
onlineengineer.de

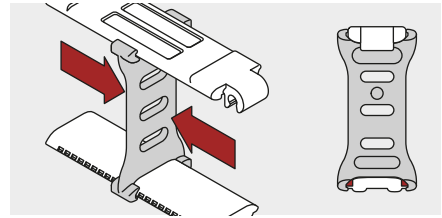
Movable divider

Version A (Standard)



Fixable divider (2 mm grid)

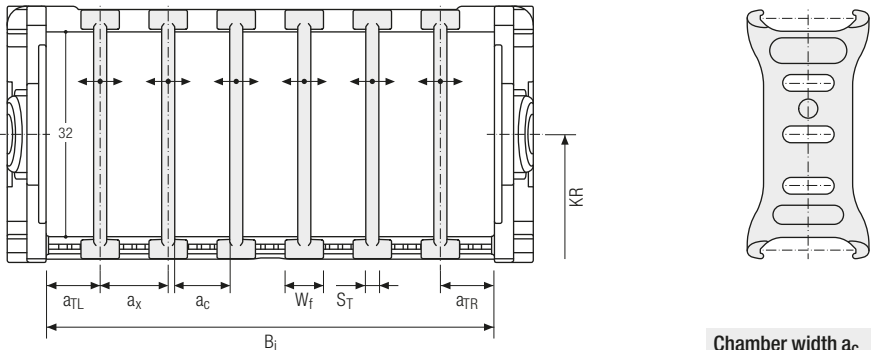
Version B



Divider system TSO without height separation

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

* Only B_i 25



Chamber width a_c

$$a_c = a_x - S_T$$

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator



Divider system TS1 with continuous height separation

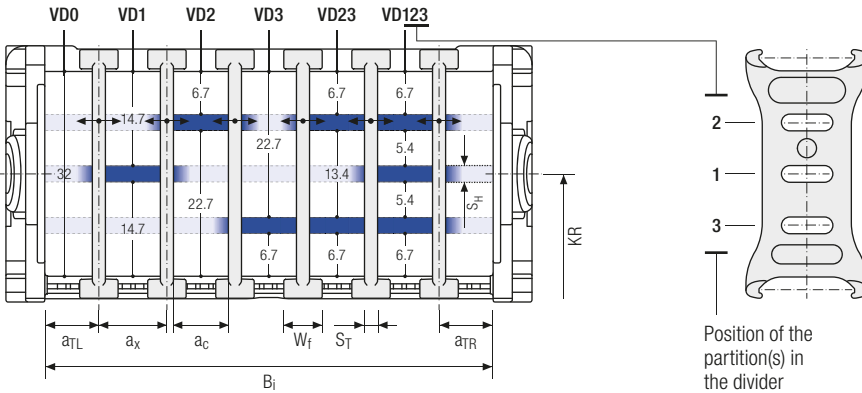
| S _T [mm] | W _f [mm] | S _H [mm] | Version A | | | Version B | | | |
|------------------------|------------------------|------------------------|----------------------------------------------|----------------------------------------------|----------------------------|----------------------------------------------|----------------------------------------------|----------------------------|-----------------------------|
| | | | a _{TL} /a _{TR} min [mm] | a _{TL} /a _{TR} max [mm] | a _x min [mm] | a _{TL} /a _{TR} min [mm] | a _{TL} /a _{TR} max [mm] | a _x min [mm] | a _x grid [mm] |
| 2 | 6 | 2.6 | 3 | 16* / 21 | 6 | 14.5* / 21 | 4.5* / 5 | 6 | 2 |

* Only B_i 25

Inner heights



Inner widths



Key for abbreviations on page 18

Standard height separation with **aluminum profile 7.8 × 2.6 mm**. The dividers can be moved in the cross section.

Chamber width a_c

$$a_c = a_x - S_T$$

Assembly instructions on 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

More product information online



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



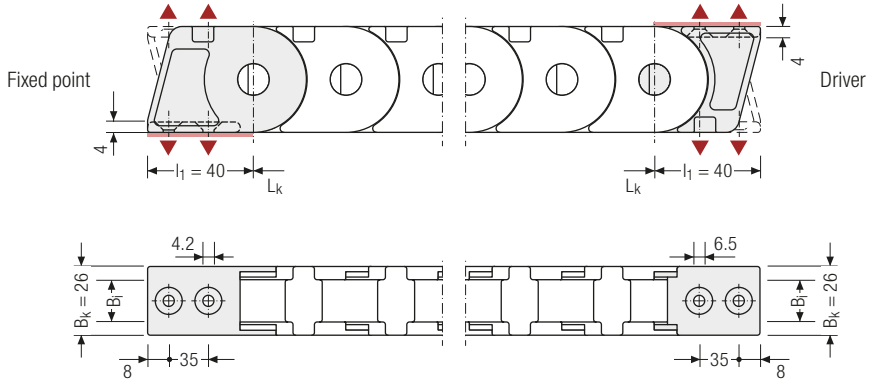
Configure your custom cable carrier:
onlineengineer.de

Order key on page 16



One part end connectors – plastic (suitable for B_i 16)

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



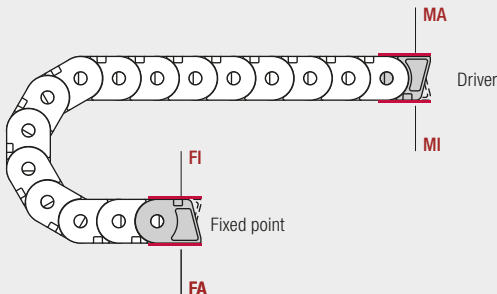
▲ Assembly options

kabelschlepp.de/
tkp35

Configure your cable carrier:
onlineengineer.de

Technical support:
technik@kabelschlepp.de

Connection variants



Connection point

F – fixed point
M – driver

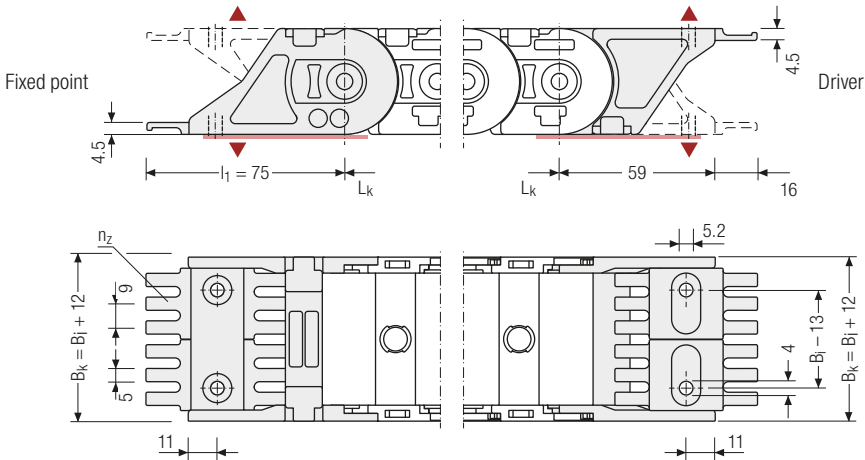
Connection type

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

TKP35 | End Connectors

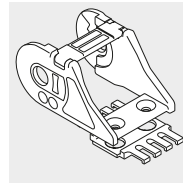
One part end connectors – plastic (suitable for B_i 25 – 50)

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



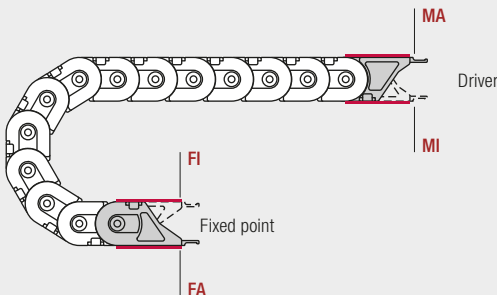
▲ Assembly options

| B_i [mm] | B_k [mm] | n_z |
|---------------|---------------|-------|
| 25 | 37 | 3 |
| 38 | 50 | 4 |
| 50 | 62 | 6 |



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

Connection variants



Connection point

- F** – fixed point
- M** – driver

Connection type

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



Order

kabelschlepp.de/
tkp35

Cable carrier

| Type | Stay variant | B_i [mm] | KR [mm] | L_K [mm] |
|-------|--------------|------------|---------|------------|
| TKP35 | 030 | 16 | 48 | |
| | | 25 | 60 | |
| | | 38 | 75 | |
| | 040 | 100 | | |
| | 50 | 125 | | |

| | | | | |
|-------|--------------|------------|---------|------------|
| TKP35 | 040 | 38 | 75 | 700 |
| Type | Stay variant | B_i [mm] | KR [mm] | L_K [mm] |

**International order specification INTOK:**

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

Configure your cable carrier:
onlineengineer.de

Divider system

| Divider system | Version | n_T | Height separation (not for TSO) |
|----------------|---------|--------|------------------------------------|
| TS0 | A | min. 2 | VD0 |
| TS1 | B | ... | VD1 |

| | | | |
|----------------|---------|-------|-------------------|
| TS0 | B | 3 | VD0 |
| | | | ⋮ |
| | | | VD23 |
| Divider system | Version | n_T | Height separation |



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 |
|---------------|------------------|-----------------|
| | F | A |
| End connector | M | I |

| | | |
|---------------|---|---|
| End connector | F | A |
| End connector | M | A |

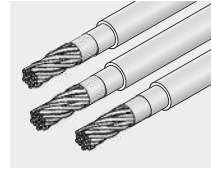


Please state the desired connection variant as well as the desired strain relief type for the fixed point and for the driver.

Accessories

TRAXLINE® cables in motion

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



Inner heights

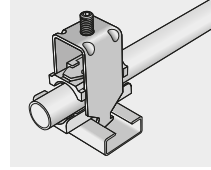


Inner widths



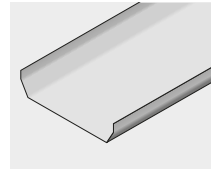
LineFix® clamps

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



Support trays

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



Key for abbreviations on page 18

Assembly instructions on kabelschlepp.de/assembly

Order key on page 16



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

More product information online



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



Configure your custom cable carrier:
onlineengineer.de






































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 nd chain link |  | clean room suitable |
|  | inner width |  | stay arrangement on every chain link |  | quiet running/low noise |
|  | inner width (B _i) 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



Inner widths



Key for abbreviations on page 18

Assembly instructions on kabelschlepp.de/assembly