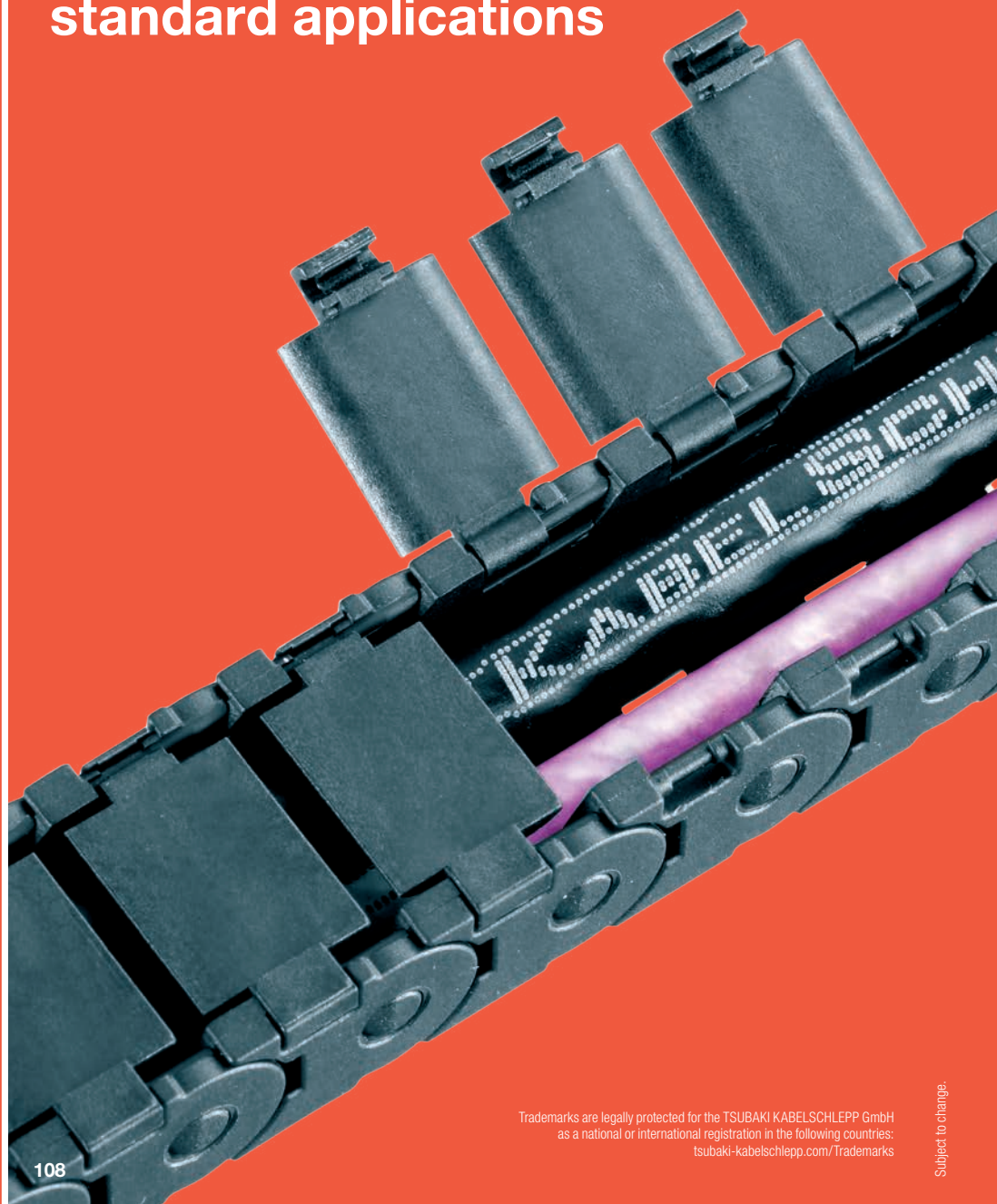


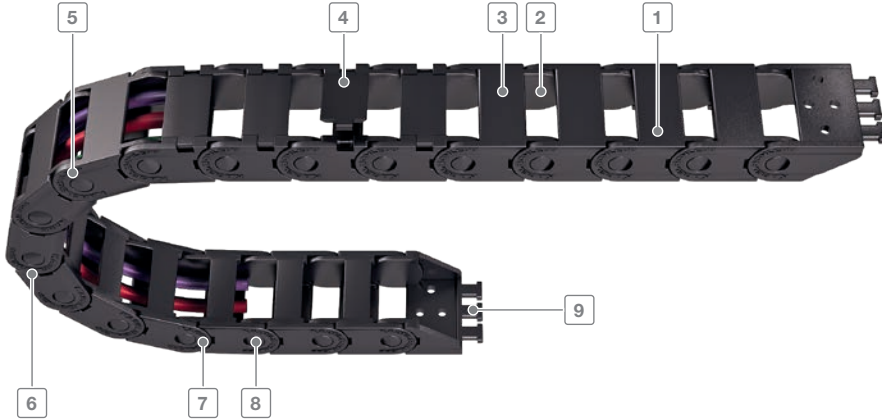
MONO series

Cable carriers for
standard applications



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tsubaki-kabelschlepp.com/Trademarks

Subject to change.



Inner
heights

10
15

Inner
widths

6
40

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- 1 Plastic chain links
- 2 Inside space is gentle on the cables – no interfering edges
- 3 Types with single-part links
- 4 Types with opening crossbars
- 5 High torsional rigidity through large link surface
- 6 Extensive unsupported length and high additional loads through optimised stroke system
- 7 Easy to shorten and extend
- 8 Long service life through large bolt hole connection
- 9 End connectors with integrated strain relief

Features

- Cost-effective cable carrier
- Easy and fast installation
- Many types available immediately ex-stock world wide
- Long service life
- Great unsupported lengths compared to the unit size
- High torsional rigidity
- Easy to install



Small types for narrow installation spaces



Fast shortening/extending with push-to-connect chain links



Different connection variants through simple reconnecting of the end connectors

MONO series | Overview











Key for abbreviations
on page 16

Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

online-engineer.de
Cable Carrier Configurator

Type	Opening variant	Stay variant	h_i [mm]	h_G [mm]	B_i [mm]	B_k [mm]	B_i - grid [mm]	t [mm]	KR [mm]	Additional load ≤ [kg/m]	Cable- d _{max} [mm]
MONO 0130/..32/..34											
		0132	10	12.5	6–40	12–46	–	13	20–37	0.5	8
		0130	10	12.5	6–40	12–46	–	13	20–37	0.5	8
		0134	10	12.5	6–30	12–26	–	13	20–37	0.5	8
MONO 0180/..82/..84											
		0182	15	18	10–40	18–48	–	18	28–50	1	12
		0180	15	18	10–40	18–48	–	18	28–50	1	12
		0184	15	18	15–40	23	–	18	28–50	1	12
MONO 0202											
		0202	11	15	6–20	13–27	–	20	18–50	1.2	8.5

Unsupported arrangement			Gliding arrangement			Inner Distribution				Installation variants			Page
Travel length ≤ [m]	v_{\max} ≤ [m/s]	a_{\max} ≤ [m/s ²]	Travel length ≤ [m]	v_{\max} ≤ [m/s]	a_{\max} ≤ [m/s ²]	TS0	TS1	TS2	TS3	vertical hanging or standing	lying on the side	rotating arrangement	
										vertical hanging or standing	lying on the side	rotating arrangement	
1.15	10	50	40	3	30	–	–	–	–	●	●	–	114
1.15	10	50	40	3	30	–	–	–	–	●	●	–	115
1.15	10	50	–	–	–	–	–	–	–	●	●	–	116
1.55	10	50	70	3	30	–	–	–	–	●	●	–	120
1.55	10	50	70	3	30	–	–	–	–	●	●	–	121
1.55	10	50	–	–	–	–	–	–	–	●	●	–	122
1.95	10	50	70	3	30	–	–	–	–	●	●	●	126

Inner heights



Inner widths



[tsubaki-kabelschlepp.com/mono](https://www.tsubaki-kabelschlepp.com/mono)

0130/..32/..34

Key for abbreviations
on page 16



Pitch
13 mm



Inner height
10 mm



Inner widths
6 – 40 mm



Bending radii
20 – 37 mm

Types



Type 0132 page 114

Closed frame (design 020)

- Weight optimised, closed plastic frame with high torsional rigidity.
- **Outside/inside:** not openable.



Type 0130 page 115

Frame with outside opening crossbars (design 030)

- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Outside:** openable.



Type 0134 page 116

Frame with inside opening crossbars (design 040)

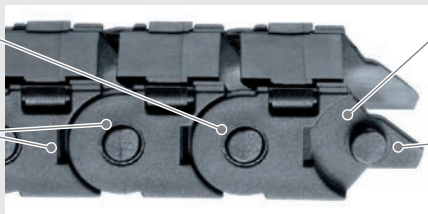
- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Inside:** openable.

Technical support:
technik@kabelschlepp.de

Optimised cable carrier geometry:

Easy to shorten and extend

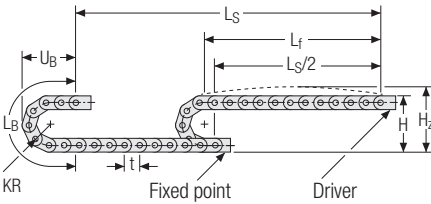
Long service life through large bolt hole connection



High torsional rigidity through large link surface

Extensive unsupported length and high additional loads through optimised stroke system

Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
20	52.5	62.5	89	40
28	68.5	78.5	114	48
37	86.5	96.5	142	57

Inner
heights



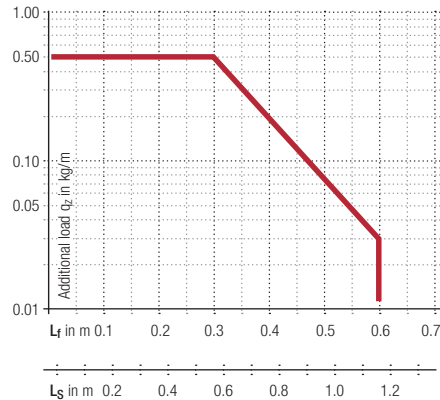
Inner
widths



Load diagram for unsupported length depending on the additional load.

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

Intrinsic cable carrier weight $q_k = 0.16 \text{ kg/m}$ with B_i 15 mm. For other inner widths, the maximum additional load changes.



Speed
up to 10 m/s



Acceleration
up to 50 m/s²

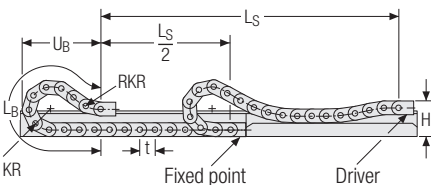


Travel length
up to 1.15 m



Additional load
up to 0.5 kg/m

Gliding arrangement



Speed
up to 3 m/s



Acceleration
up to 30 m/s²



Travel length
up to 40 m



Additional load
up to 0.5 kg/m



The gliding cable carrier must be guided in a channel. See p. 782.

Only designs 020 and 030 can be used for a gliding arrangement.

Type 0132 – closed frame

- Weight optimised, closed plastic frame with high torsional rigidity.
- **Outside/inside:** not openable.



Key for abbreviations
on page 16

Design guidelines
from page 64

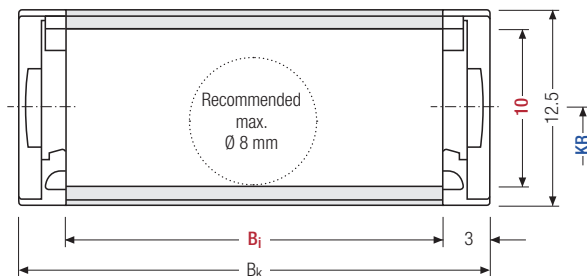
Technical support:
technik@kabelschlepp.de



Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 6 – 40 mm



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

h_i [mm]	h_G [mm]	B_i [mm]							B_k [mm]	KR [mm]			q_k [kg/m]
10	12.5	6	10	15	20	30*	40	$B_i + 6$	20	28	37	0.091 – 0.162	

* On request

Order example

MONO
Series

0132
Type

15
 B_i [mm]

28
 KR [mm]

390
 L_k [mm]

VS
Stay arrangement

Type 0130 – with outside
opening crossbars

- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Outside:** openable.



Inner
heights



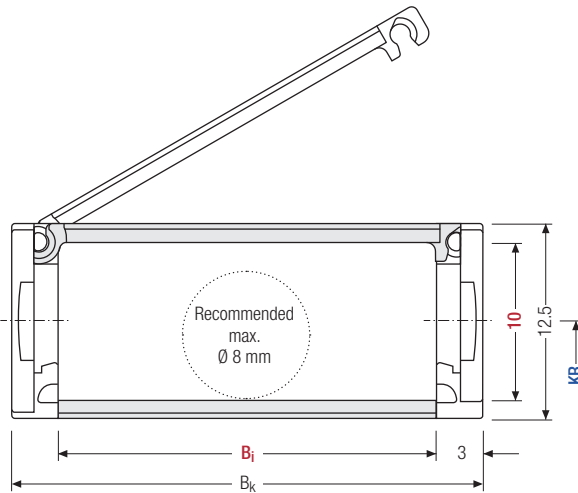
Inner
widths



Stay arrangement on each
chain link (**VS: fully-stayed**)



B_i 6 – 40 mm



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

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h_i [mm]	h_G [mm]	B_i [mm]					B_k [mm]	KR [mm]			q_k [kg/m]
10	12.5	6	10	15	20	40	$B_i + 6$	20	28	37	0.097 – 0.178

Order example



MONO	0130	15	28	390	VS
Series	Type	B_i [mm]	KR [mm]	L_k [mm]	Stay arrangement

Type 0134 – with inside opening crossbars

- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Outside:** openable.



Key for abbreviations
on page 16

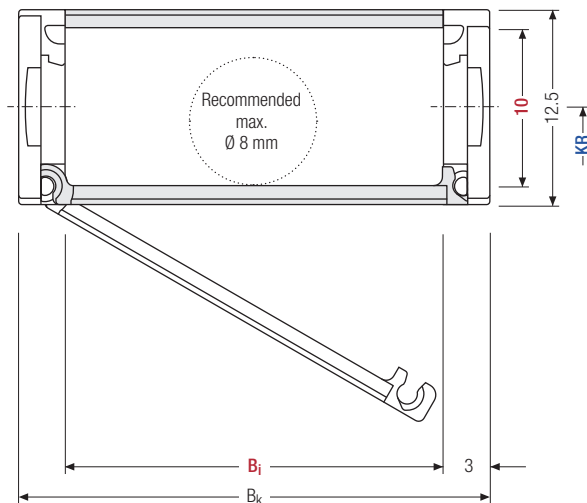


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 6 – 20 mm

Design guidelines
from page 64



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

Technical support:
technik@kabelschlepp.de

h_i [mm]	h_G [mm]	B_i [mm]					B_k [mm]	KR [mm]			q_k [kg/m]
10	12.5	6	10	15	20	30	$B_i + 6$	20	28	37	0.099 – 0.132

Order example

MONO
Series

0134
Type

15
 B_i [mm]

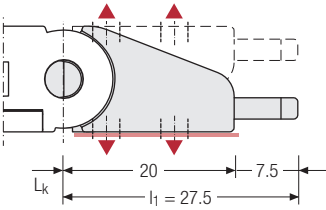
28
 KR [mm]

390
 L_k [mm]

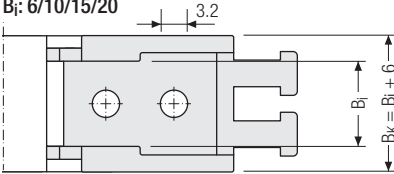
VS
Stay arrangement

Single-part end connectors – plastic
(with integrated strain relief)

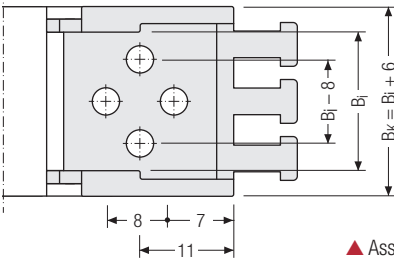
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



B_i: 6/10/15/20



B_i: 30/40

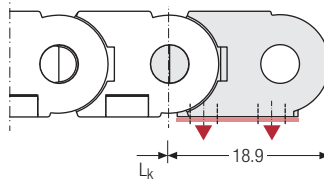


B_i [mm]

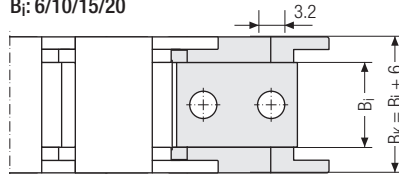
▲ Assembly options

Single-part end connectors – plastic

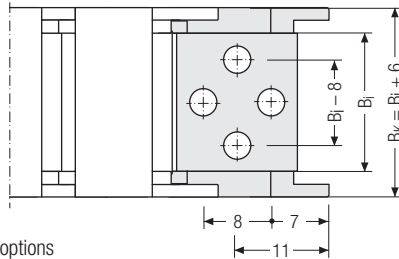
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



B_i: 6/10/15/20



B_i: 30/40

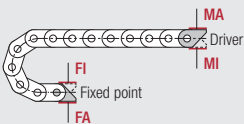


Connection point

F – fixed point
M – driver

Connection type

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

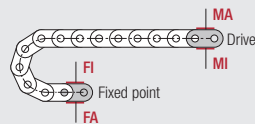


Connection point

F – fixed point
M – driver

Connection type

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



Order example



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



Depending on the design, the connection angles can be swivelled up to 12°.

Inner heights



Inner widths



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0180/..82/..84

Key for abbreviations
on page 16



Types



Type 0182 page 120

Closed frame (design 020)

- Weight optimised, closed plastic frame with high torsional rigidity.
- **Outside/inside:** not openable.



Type 0180 page 121

Frame with outside opening crossbars (design 030)

- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Outside:** openable.



Type 0184 page 122

Frame with inside opening crossbars (design 040)

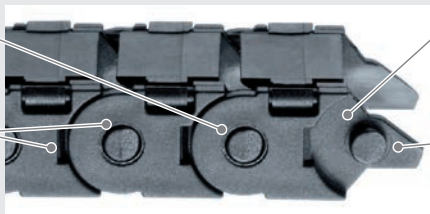
- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Inside:** openable.

Technical support:
technik@kabelschlepp.de

Optimised cable carrier geometry:

Easy to shorten and extend

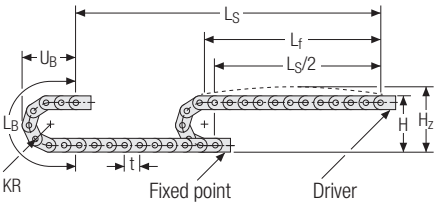
Long service life through large bolt hole connection



High torsional rigidity through large link surface

Extensive unsupported length and high additional loads through optimised stroke system

Unsupported arrangement



KR [mm]	H [mm]	Hz [mm]	LB [mm]	UB [mm]
28	74	89	124	55
37	92	107	153	64
50	118	133	194	77

Inner
heights



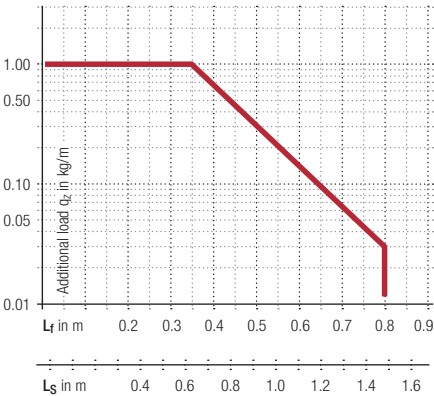
Inner
widths



Load diagram for unsupported length depending on the additional load.

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

Intrinsic cable carrier weight $q_k = 0.25 \text{ kg/m}$ with $B_i 10 \text{ mm}$. For other inner widths, the maximum additional load changes.



Speed
up to 10 m/s



Acceleration
up to 50 m/s^2

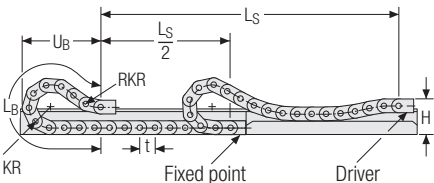


Travel length
up to 1.5 m



Additional load
up to 1.0 kg/m

Gliding arrangement



Speed
up to 3 m/s



Acceleration
up to 30 m/s^2



Travel length
up to 70 m



Additional load
up to 1.0 kg/m



The gliding cable carrier must be guided in a channel. See p. 782.

Only designs 020 and 030 can be used for a gliding arrangement.

Type 0182 – closed frame

- Weight optimised, closed plastic frame with high torsional rigidity.
- **Outside/inside:** not openable.



Key for abbreviations
on page 16

Design guidelines
from page 64

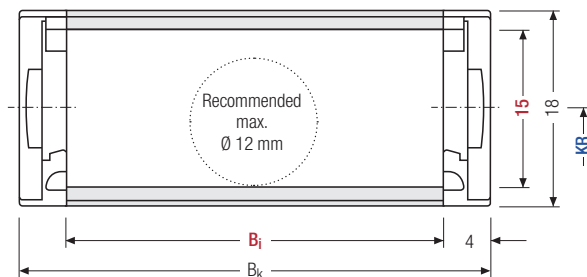
Technical support:
technik@kabelschlepp.de



Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 10 – 40 mm



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

h_i [mm]	h_G [mm]	B_i [mm]					B_K [mm]	KR [mm]			q_k [kg/m]
15	18	10	15	20	30	40	$B_i + 8$	28	37	50	0.123 – 0.186

Order example

	MONO Series	·	0182 Type	·	30 B_i [mm]	·	37 KR [mm]	·	720 L_k [mm]	VS Stay arrangement
--	----------------	---	--------------	---	------------------	---	-----------------	---	-------------------	------------------------

Type 0180 – with outside
opening crossbars

- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Outside:** openable.



Inner
heights



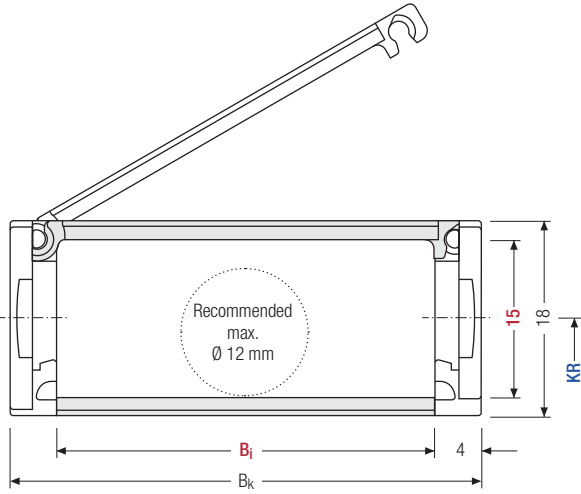
Inner
widths



Stay arrangement on each
chain link (**VS: fully-stayed**)



B_i 10 – 40 mm



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

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h_i [mm]	h_G [mm]	B_i [mm]					B_k [mm]	KR [mm]			q_k [kg/m]
15	18	10	15	20	30	40	$B_i + 8$	28	37	50	0.169 – 0.252

Order example



MONO . 0180 . 30 . 37 . 720 . VS

Series Type B_i [mm] KR [mm] L_k [mm] Stay arrangement

Type 0184 – with inside opening crossbars

- Weight optimised plastic frame with high torsional rigidity.
- Openable at any position.
- **Inside:** openable.



Key for abbreviations
on page 16

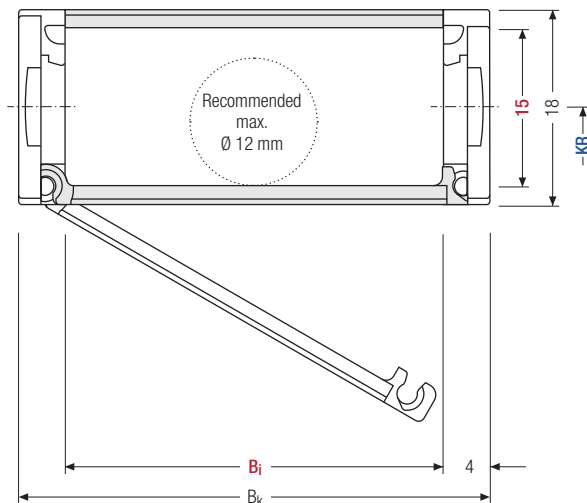


Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 15 – 30 mm

Design guidelines
from page 64



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

Technical support:
technik@kabelschlepp.de

h_i [mm]	h_G [mm]	B_i [mm]				B_k [mm]	KR [mm]			q_k [kg/m]
15	18	15	20	30	40	$B_i + 8$	28	37	50	0.133

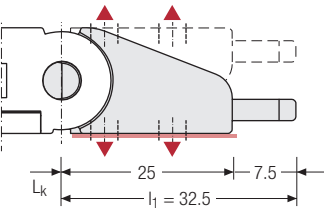
Order example



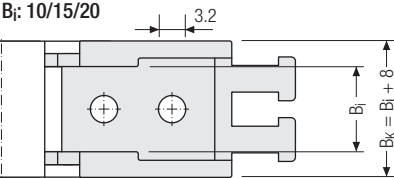
MONO	0184	15	37	720	VS
Series	Type	B_i [mm]	KR [mm]	L_k [mm]	Stay arrangement

Single-part end connectors – plastic
(with integrated strain relief)

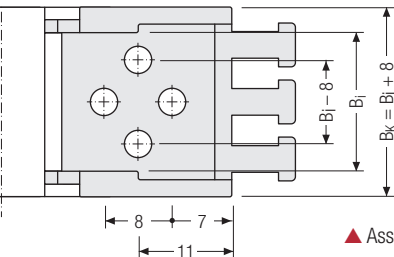
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



Bj: 10/15/20

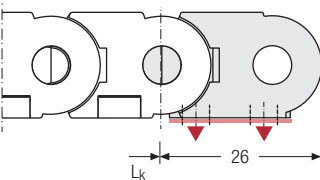


Bj: 30/40

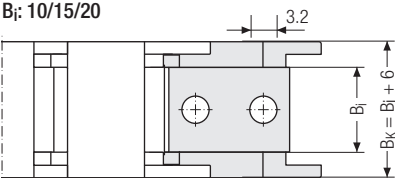


Single-part end connectors – plastic

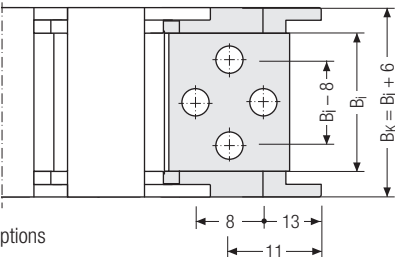
The plastic end connectors can be connected **from above or below**. The connection type can be changed by altering the position of the end connector.



Bj: 10/15/20



Bj: 30/40



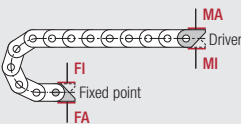
▲ Assembly options

Connection point

F – fixed point
M – Driver

Connection type

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

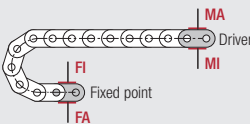


Connection point

F – fixed point
M – Driver

Connection type

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



Inner heights



Inner widths



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mono

Order example



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

0202

Key for abbreviations
on page 16



Types



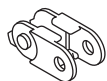
Type 0202 page 126

Closed frame (design 020)

- Weight optimised, closed plastic frame with high torsional rigidity.
- **Outside/inside:** not openable.

Design guidelines
from page 64

Technical support:
technik@kabelschlepp.de

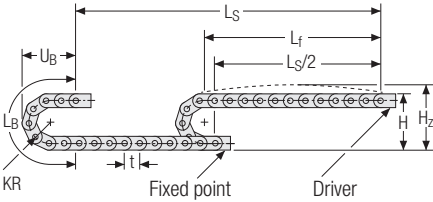


Fast cable laying – 0202 slotted version

The slotted variant of the MONO 0202 allows fast and easy pressing in of cables without opening the cable carrier. That saves time and therefore money. It is particularly suitable for cables with pre-assembled connectors. Please contact us!



Unsupported arrangement



KR [mm]	H [mm]	H _z [mm]	L _B [mm]	U _B [mm]
18	51	61	97	45.5
28	71	81	128	55.5
38	91	101	160	65.5
50	115	125	198	77.5

Inner
heights

11

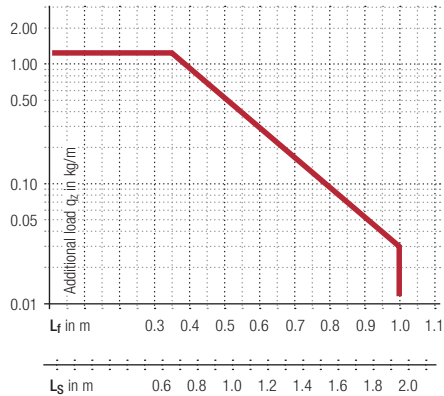
Inner
widths

6
20

Load diagram for unsupported length depending on the additional load.

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

Intrinsic cable carrier weight $q_k = 0.18 \text{ kg/m}$ with $B_i 10 \text{ mm}$. For other inner widths, the maximum additional load changes.



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mono



Speed
up to 10 m/s



Acceleration
up to 50 m/s²

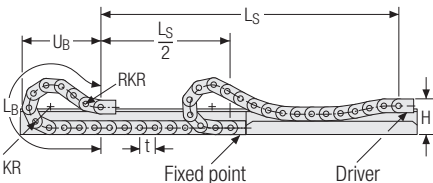


Travel length
up to 1.95 m



Additional load
up to 1.25 kg/m

Gliding arrangement



Speed
up to 3 m/s



Acceleration
up to 30 m/s²



Travel length
up to 70 m



Additional load
up to 1.25 kg/m



The gliding cable carrier must be guided in a channel. See p. 782.

Type 0202 – closed frame

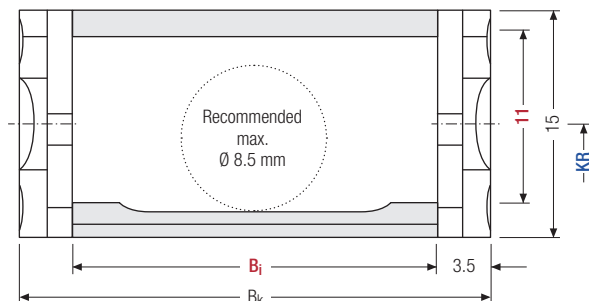
- Weight optimised, closed plastic frame with high torsional rigidity.
- **Outside/inside:** not openable.



Stay arrangement on each chain link (**VS: fully-stayed**)



B_i 6 – 20 mm



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

h_i [mm]	h_g [mm]	B_i [mm]				B_k [mm]	KR [mm]				q_k [kg/m]
11	15	6	10	15	20	$B_i + 7$	18	28	38	50	0.14 – 0.17

Order example



MONO
Series

0202
Type

10
 B_i [mm]

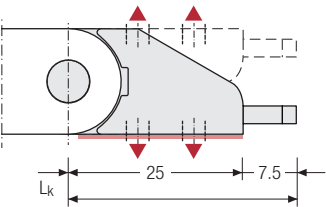
28
 KR [mm]

460
 L_k [mm]

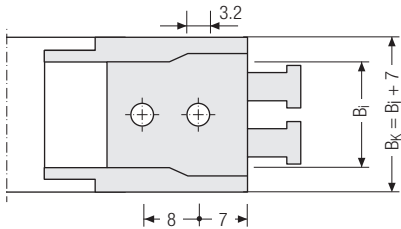
VS
Stay arrangement

Single-part end connectors – plastic (with integrated strain relief)

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



▲ Assembly options



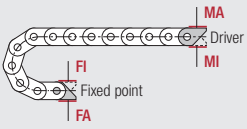
Inner heights



Inner widths



tsubaki-kabelschlepp.com/
mono



Connection point

- F – fixed point
- M – driver

Connection type

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

Order example

	End connector	.	F	A
	End connector	.	M	A
	End connector		Connection point	Connection type

Additional product information online



Installation instructions, etc.:
Additional info via your
smartphone or check online at
[tsubaki-kabelschlepp.com/
support](http://tsubaki-kabelschlepp.com/support)



Configure your cable carrier here:
onlineengineer.de