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Accessories for cable carriers

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Support trays

A flat surface is required for the safe operation of the cable carrier. If this is not available on site, a support tray must be provided. The standard supply length is 2 m. Special lengths are available on request.



Single-part design



Materials: Zinc plated steel plate Stainless steel plate Aluminum plate



b_{1 min} ≈ B_k + 15 mm

Length (with standard connection)

$$L_A = \frac{L_s}{2} + \ddot{U}_B + I_1$$



Should you require a support tray in a split design, please contact us. We would be happy to advise you.

 $\begin{array}{ll} \ddot{U}_B & - \mbox{ loop overhang} \\ I_1 & - \mbox{ connection length} \\ \hline \ensuremath{Where there is a strain relief device at the fixed point,} \\ the length of the support tray must be increased accordingly. \end{array}$

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Guide channels

In the case of long travel lengths the upper trough of the cable carrier **glides** on its lower trough. Beyond the fixed point the cable carrier glides on the sliding surface (support) of the guide channel. The guide channels prevent the upper trough from slipping off the lower trough and ensure guiet, low-wear operation.



point be placed in the middle of the travel length (central feed). This will result in the shortest lengths for the cable carrier, cables and guide channel.





Gliding plate for bridging the fixed point connections at opposing arrangement.

Expl	ana	ation of terms – guide channels			Additional massurement for loop overbang
Ls	=	Travel length of cable carrier	LZ1	=	
L _{KA}	=	Channel length			$(\cong U_{\rm B} + 50 \text{ mm})$ with standard connection
L _{KA} ′	=	Channel length with support	LZ2	=	
		$(\triangleq L_{s}/2)$ with one-sided arrangement			$(\cong I_1 + 50 \text{ mm})$
		$(\triangleq X - 2 I_1)$ with opposing arrangement	Х	=	Connection distance with an opposing arrangement

 L_{KA}

Depending on the chain size, the channel inner width is 4-5 mm greater than the width of the guided cable carrier. Depending on the length of travel, the cable carrier connection heights should be reduced. Do get in touch with us! We would be happy to calculate the dimensions of the guide channel to suit your application.

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Guide channels made of steel plate – standard design

We also manufacture guide channels made of steel plate, customized for your application. In so doing, we can accommodate almost any wish as far as the special shape and fastening options are concerned. To reduce the gliding resistance and wear between the cable carrier and support, a special gliding plate can be glued on. We recommend the use of special gliding plates at speeds > 0.5 m/s and with frequent travel cycles.

- very easy and universal assembly there is no alignment of the channel side walls with each other as there are no loose channel side walls
- large support widths due to stable U construction
- easy fixing options:
 - standard retaining plates
 - direct welding on-site
 - various special solutions with retaining bracket
- optionally as corrosion-resistant, sea water resistant version

Optional standard fixing with retaining plates

A retaining plate is mounted on the adjoining points and as well as fixing the channel to the floor also guarantees an exact connection of the adjoining points.

- optimum alignment of the adjoining points
- reduced installation times
- minimal number of threaded connections
- secure hold, also in harsh conditions

Please state the channel system when ordering if retaining plates will be needed.



Materials:

Zinc plated steel plate/ stainless steel Delivery length: Standard length 2 m/ special lengths on request



Examples of guide channels special solutions in steel plate design

Bottom open channel

- for fine-grain dirt particles, water, etc. ...
- dust and dirt can drop through the open design below
- application area in washing plants, the woodworking industry, composting plants ...

With KABELSCHLEPP guide channels, you have various different options for fixing them to the ground or on a support structure as well as the standard fixing. Also here, no adjoining point offset of the individual channel elements must occur at the connection points, i.e. sidewalls and floor must form a smooth surface.



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Guide channels made of steel plate – standard design Examples of guide channels special solutions in steel plate design Attachment straps with flat profile • very easy and universal assembly – there is no alignment of the channel side walls with each other as there are no loose channel side walls • optimum alignment of the adjoining points

- reduced installation times
- minimal number of threaded connections
- plug-in system



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Unsupported connection points

- unsupported adjoining points without support (self-supporting) using flange connections
- secure, fixed connection to adjoining points also for extreme vibrations or in unsupported channel arrangements.



Fixing with fixing brackets

- easy alignment of the adjoining points
- reduced installation times
- minimized number of threaded connections





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Modular guide channel system made of aluminum profile bars

- Simple installation
- No joint bolting, simple alignment via double clamp connection with plastic clamping profiles.
- Can be supplied with a continuous floor plate if required.
- Easy handling
- Low intrinsic weight
- Single-part channel side walls
- Channel side wall profiles with support with bevels on both sides



Standard lengths





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- Part 1 channel side wall profile bar without support 1000 mm + 2000 mm
- Part 2 channel side wall profile bar with support 1000 mm + 2000 mm
- Part 3 plastic clamping profile 130 mm
- Part 4 floor plate available on request

Examples of fastening options

3

2



Screwed on from the "outside"

Fastening screws are used for this purpose. A marking groove simplifies the alignment and drillina.



Screwed on from the "inside" Recesses are provided in the channel profiles to accommodate hexagonal screws. The screws can be pushed along to the required place.



Attached with a clamp Simple alignment with assembly on a C-Rail.

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Rail Cable Carrier – RCC

500 m travel length and more without sag



Rail Cable Carrier with proven cable and hose carrier MC 1250.

less push/pull forces in comparison with gliding arrangement

For extremely long travel lengths

Rolling instead of gliding – the proven principle for less friction.

Due to the substantial friction, it is nearly impossible to realise travel lengths greater than 200 m. With the rail cable carrier, the upper trough does not glide on the bottom trough, it glides on guide rails. Rollers are mounted on ball bearings at the side of the carrier. The guide rails come in the standard connection height. The carrier does not sag. The tension and thrust is 90% less in comparison to gliding arrangements.

Quiet and low-vibration operation

The rollers run on the guide rail and do not contact other rollers. Ball bearings and a polyurethane roller surface additionally contribute to guite and smooth operation.

Rail Cable Carrier

- suitable for very long travel lengths
- 90 % less tension and thrust than with a gliding arrangement, thus requiring substantially less driving power
- Iow-noise and low-vibration operation
- less space required and cost-optimised with a shorter loop overhang - minimum turnaround length

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KABELSCHLEPP Rail Cable Carrier

- no impacting of the rollers against one another
- Iong service life low maintenance
- minimum stress on the cable and hose carrier and cables
- less push/pull forces
- high travel speeds up to 10 m/s possible
- possible additional load (cable weight) of more than 50 kg/m
- use of proven standard cable carriers
- the carrier cannot climb



ECC – Emergency Cable Carrier

Safety for long travel lengths

KABELSCHLEPP Emergency Cable Carrier

Blockages in the travel lengths of cable carriers in large systems can destroy the entire cable carrier system. This results in high costs and downtime for the entire system. The **ECC – Emergency Cable Carrier minimizes downtimes** and **avoids repair costs**.

The **Emergency Cable Carrier System with additional emergency stop system** has been developed especially for systems with long travel lengths.

In applications in harsh environmental conditions it often happens that an object gets into the travel length of the carrier and blocks it. What is needed here is a system that detects such blockages and switches the system off. However, in large systems the moving mass is very large, which means that the moving unit continues to move for several meters even after braking is initiated. This leads to defects in the carrier, a complete failure of the system and extensive repair work. Our decoupling system for cable carriers offers, in addition to the emergency stop function, also a **bridging safeguard for the braking distance**.

Possible areas of application: all applications with long travel lengths, e.g.: crane, port, compost or coal conveyor systems, steel works and raw materials systems.



Emergency Cable Carrier on a Rail Cable Carrier. The system can also be adapted for gliding arrangements.

Opportunity Cable carrier with emergency system – cable routing. Object Original for a proving for a pr

Our Emergency Cable Carrier System offers, in addition to a bridging safeguard for the braking distance with an emergency carrier also an integrated emergency stop system.

The system is switched off if the preset maximum force on the driver of the main cable carrier is exceeded.



Emergency Cable Carrier System – a possible installation situation

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Strain relief devices

The strain relief of the cables depends on the type of cable, the length of the cable carrier and the installation position.

In the case of cable carriers with upper and lower trough sliding on each other (installation variant EBV 05), the installation height of the strain relief must not be higher than the chain link height.

Overview strain relief elements

LineFix saddle-type clamps

- optimized base geometry for secure seating in C-rail
- for one cable and two or three cables on top of each other
- for C-rails with a slot width of 11 mm

See page 382.

Saddle-type clamps Type B

for C-rails with a slot width of 16 – 17 mm See page 383.

Strain relief comb strips

- higher fixing force than with a one-sided strain relief comb
- equal power transmission for both pulling and pushing
- See page 384.

SZL strain relief devices

- gentle on the cable due to large surface area for enclosing the cables
- simple installation without tools

See page 385.

Subject to change

Block clamps

for strain relief of hoses See page 386.











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LineFix saddle-type clamps

■ for C-rails with a slot width of 11 mm

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Fotal height

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- for one, two or three cables on top of each other
- optimized base geometry for secure seating in the C-profile
- high quality corrosion protection of the coated housing through cathode immersion painting
- pan design with retaining ribs for secure fixing of the cables
- rounded design of the pan elements is gentle on the cables
- also available in stainless steel version



LineFix Type	Desig- nation	Material no. for a complete LineFix	Material no. for a complete LineFix stain- less steel	Min. cable Ø	Max. cable Ø	Number of cables	Width	Total height with max. cable Ø incl. C-rail*
Single clamps	LF 12-1 LF 14-1 LF 16-1 LF 18-1 LF 20-1 LF 20-1 LF 20-1 LF 20-1 LF 30-1 LF 30-1 LF 34-1 LF 38-1 LF 42-1	13630 13631 13632 13633 13634 13635 13636 13637 13638 13639 13640	13731 13732 13733 13734 13735 13736 13737 13738 13739 13740 13741	6 12 14 16 18 20 22 26 30 34 38	12 14 16 18 20 22 26 30 34 38 42	1 1 1 1 1 1 1 1 1 1	16 18 20 22 24 26 30 34 38 42 46	55 52 54 56 59 61 70 74 78 82 91
Double clamps	LF 12-2 LF 14-2 LF 16-2 LF 16-2 LF 20-2 LF 20-2 LF 20-2 LF 22-2 LF 26-2 LF 30-2 LF 34-2	13641 13642 13643 13644 13645 13645 13646 13647 13648 13649	13742 13743 13744 13745 13746 13747 13748 13749 13750	6 12 14 16 18 20 22 26 30	12 14 16 18 20 22 26 30 34	2 2 2 2 2 2 2 2 2 2 2 2 2	16 18 20 22 24 26 30 34 38	73 74 82 86 91 95 108 121 129
Triple clamps	LF 12-3 LF 14-3 LF 16-3 LF 16-3 LF 18-3 LF 20-3 LF 22-3	13650 13651 13652 13653 13654 13655	13751 13752 13753 13754 13755 13756	6 12 14 16 18 20	12 14 16 18 20 22	3 3 3 3 3 3	16 18 20 22 24 26	98 98 105 111 118 130

The total height

specification is an

The actual height

depends on the

diameter and

things.

approximate value.

characteristics of the

cables, among other



The retaining lug fixes the base securely in the C-profile in the screwed-on state and prevents the clamp from rocking out in case of tensile and compressive loads, regardless of the installation direction.

Secure seating and easy assembly.



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Dimensions in mm

Triple clamps for three cables one above another

Туре	Cable-Ø	Opposite sleeve GW	Double sleeve DW
B 12/3	12	GW 12	DW 12
B 14/3	14	GW 14	DW 14
B 16/3	16	GW 16	DW 16
B 18/3	18	GW 18	DW 18
B 22/3	22	GW 22	DW 22
B 26/3	26	GW 26	DW 26
B 30/3	30	GW 30	DW 30

Dimensions in mm

Saddle-type clamps Type B

Saddle-type clamps with a large base

For all common commercial C-Profiles with a slot width of 16 - 17 mm



Single clamps for one cable								
Туре	Cable-Ø	Opposite sleeve GW	Double sleeve DW					
B 12	6 – 12	GW 12	-					
B 14	10 – 14	GW 14	-					
B 16	12 – 16	GW 16	-					
B 18	14 – 18	GW 18	-					
B 22	18 – 22	GW 22	-					
B 26	22 – 26	GW 26	-					
B 30	26 – 30	GW 30	-					
B 34	30 – 34	GW 34	-					
B 38	34 – 38	GW 38	-					
B 42	38 – 42	GW 42	-					
B 46	42 – 46	GW 46	-					
B 50	46 – 50	GW 45	-					

Double clamps for two cables, one above the other

GW 12

GW 14

GW 16

GW 18

GW 22

GW 22

GW 22

GW 22

GW 22

GW 22

Cable-Ø

6 - 12

10 - 14

12 - 16

14 - 18

18 - 22

24 - 26

28 - 30

32 - 34

36 - 38

40 - 42

Туре

B 12/2

B 14/2

B 16/2

B 18/2

B 22/2

B 26/2

B 30/2

B 34/2

B 38/2

B 42/2

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Dimensions in mm

DW 12

DW 14

DW 16

DW 18

DW 22

DW 26

DW 30

DW 34

DW 38

DW 42

Opposite sleeve GW Double sleeve DW

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Strain relief comb strips

For separate strain relief or fastening the cables outside the cable carrier - suitable for all cable and hose carriers.

The strain relief combs have rows of teeth on both sides. So every cable can be fixed securely with two cable binders.

Rows of teeth on both sides for fixing cables

- secure fixing with two or four cable binders
- higher fixing force than for strain relief comb on one side
- even tensile and thrust force transmission
- minimized cable movement

Strain relief comb with C-profile connectors



Ident- No.	b ₁ mm	b4 mm	No. o teeth
53654	49	21	3
53655	74	46	5
53656	99	71	7
53657	124	96	9
53658	149	121	11
53659	174	146	13
76550	54	21	3
76551	79	46	5
76552	104	71	7
76553	129	96	9
76554	154	121	11
76555	179	146	13



Strain relief comb

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ldent- No.	b ₁ mm	b ₂ mm	b3 mm	No. of teeth
53983	50	53	14	3
53684	65	53	14	4
52490	70	70	20	4



Ident- No.	b ₁ mm	b2 mm	b4 mm	No. of teeth
53984	70	53	15	4
53985	90	53	35	6
53986	115	53	60	8
53987	142	53	87	10
53685	90	53	25	6
53686	115	53	50	8
53687	140	53	75	10
53688	165	53	100	12
52491	95	70	20	6
52492	120	70	40	8
52493	145	70	65	10
52494	170	70	90	12
52495	195	70	115	14
52496	220	70	140	16
52497	245	70	165	18
52498	270	70	190	20



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SZL strain relief devices

- economically priced
- installation easy, fast and without tools
- gentle on cables due to large surface area contact with the cables
- small installation height
- without screws and cable binders
- defined contact pressure exerted by spring clamps
- suitable for common commercially available support rails
- immune to vibration
- Iong service life for dynamic applications
- can also be used as strain relief in switch cabinets



Available sizes

Туре	Ident-No.	For cable-Ø	Width B at		Height
			Ø min	Ø max	Н
SZL 8	24989	> 5.0 - 8.0 mm	16	16	28
SZL 10	24990	> 8.0 - 10.5 mm	20	20	30
SZL 14	24991	>10.5 - 14.5 mm	23	26	35
SZL 18	24992	>14.5 - 18.0 mm	25	32	40
SZL 22	24993	>18.0 - 22.0 mm	30	36	44
SZL 27	24994	>22.0 - 27.0 mm	34	39	50
SZL 32	24995	>27.0 - 32.0 mm	39	44	56
				Dimensio	ns in mm





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Fixing options



1. By clipping into C-Profiles.



2. By clipping onto cap bar.



3. By pushing into two C-Profile bars.



4. By directly screwing.

Solutions 3 and 4 make the transmission of large tensile forces possible and are therefore recommended as standard solutions.

Installation of the SZL strain relief device









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Block clamps

- for strain relief of hoses
- with clamping bolt(s) and mounting rail nut(s)



Single clamps - one cable

Type BS 0

Туре	For cable Ø	Height H _{Sch}	Width B _{Sch}	Bo M6 – Di	Bolts M6 – DIN 6912	
				Number	Length	
BS 0.06	6 mm	26	28	1	35	16701
BS 0.07	6.5 mm	26	28	1	35	16702
BS 0.08	8 mm	26	28	1	35	16703
BS 0.09	9.5 mm	26	28	1	35	16704
BS 0.10	10 mm	26	28	1	35	16705
Other sizes a	and designs ava	ilahle on	request		Dimensi	ons in mm

Туре ВЅ О.__





Assembly profile bars: Material: Steel

Item-No.: 3931

Material: Steel Item-No.: 3934

Type BS 1 – BS 5

Туре	Type For cable Ø		For Height Width cable Ø H _{Sch} B _{Sch}		Bo M6 – Di	lts N 6912	ltem- No.
					Number	Length	
BS 1.0	6	6 mm	26	34	2	35	16706
BS 1.0)7	6.5 mm	26	34	2	35	16707
BS 1.0	8	8 mm	26	34	2	35	16708
BS 1.0	9	9.5 mm	26	34	2	35	16709
BS 1.1	0	10 mm	26	34	2	35	16710
BS 1.1	2	12 mm	26	34	2	35	16711
BS 2.1	4	14 mm	32	40	2	40	16712
BS 2.1	6	16 mm	32	40	2	40	16713
BS 2.1	8	18 mm	32	40	2	40	16714
BS 3.2	20	20 mm	36	48	2	45	16715
BS 3.2	2	22 mm	36	48	2	45	16716
BS 3.2	3	25 mm	36	48	2	45	16717
BS 3.2	25	25.5 mm	36	48	2	45	16718
BS 3.2	27	27 mm	36	48	2	45	16719
BS 3.3	0	30 mm	36	48	2	45	16721
BS 4.3	2	32 mm	56	69	2	65	16722
BS 4.3	4	34 mm	56	69	2	65	16723
BS 4.3	5	35 mm	56	69	2	65	16724
BS 4.3	8	38 mm	56	69	2	65	16725
BS 4.4	0	40 mm	56	69	2	65	16726
BS 4.4	2	42 mm	56	69	2	65	16727
BS 5.4	5	44.5 mm	65	85	2	75	16728
BS 5.4	8	48.5 mm	65	85	2	75	16729
BS 5.5	51	51 mm	65	85	2	75	16731



Material: Aluminum Item-No.: 3926

Material: Steel Item-No.: 3932

Other sizes and designs available on request!

Material of the clamping jaws: PP

Dimensions in mm

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Assembly profile bars for strain relief devices		Access	BASIC LINE
			BASIC LINE <i>PLUS</i>
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			TUBE SERIES
C-Profile 25 x 10 mm	Fits all commercial clamps (slit width 11 mm), Types LineFix see page 382.	de	3D LINE
	Steel 3931 Attach profile with M 6 – DIN 6912 sockethead cap screws.	elschlepp.	STEEL LINE
C-Rail 25 x 12 mm	Fits all commercial clamps	kab	Accessories
	(sint whath 11 mm), Types LineFix see page 382. Material Item-No. Steel 3934 Attach profile with M 6 – DIN 6912 sockethead cap screws.	on: 2 4003-0	
C-Rail 34 x 15 mm	Fits all commercial clamps	Fc 19 276	
51-51-51-51-51-51-51-51-51-51-51-51-51-5	(slit width 11 mm), Types LineFix see page 382. Material Item-No. Steel 3935 Attach profile with M 6 – DIN 6912 sockethead cap screws.	7+	
		erde	
C-Rail 34 x 15 mm	Fits all commercial clamps (slit width 16 – 17 mm), Types B see page 383. Material Item-No. Aluminum 3926 Steel 3932 Attach profile with M 10 – DIN 6912 sockethead cap screws.	OnlineEngine TSURAN KABELSCHEPP Cable Carrier Configurator	

Subject to change.

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