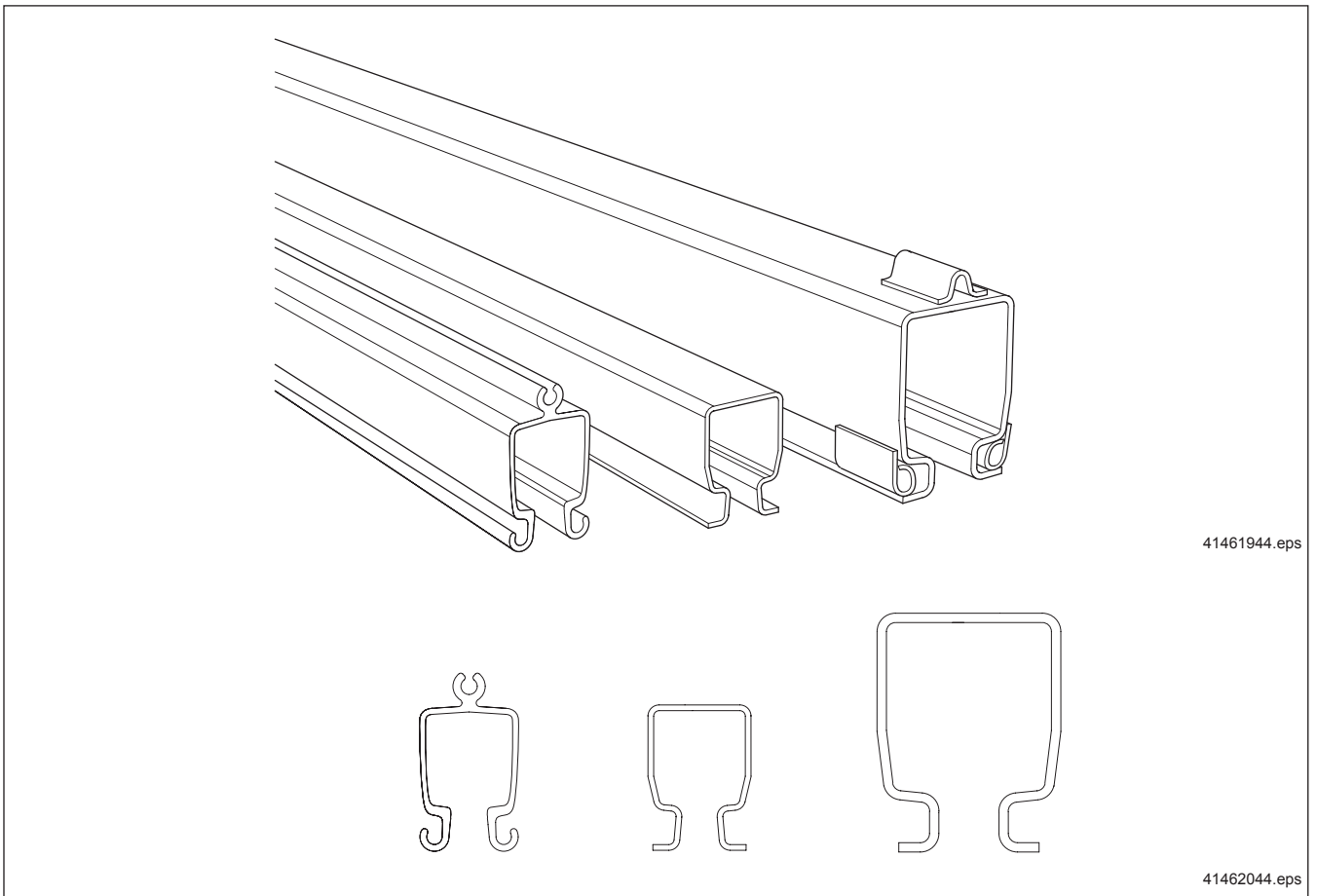


Trailing cable power supply lines

KBK 0, KBK 25, KBK 100



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Three trailing cable systems are available for power supply to mobile equipment, particularly hoists and cranes:

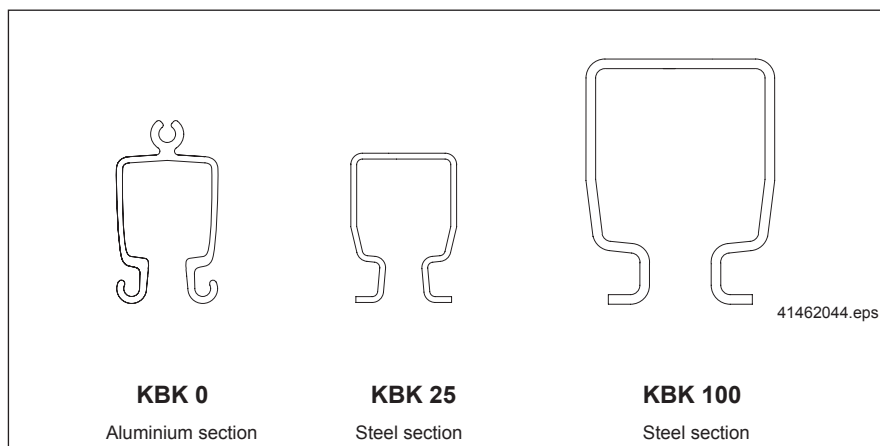
Cable trolleys	Max. load in kg/cable trolleys		
	KBK 0	KBK 25	KBK 100 / I
Plastic	15 ¹⁾	15 ¹⁾	25 ¹⁾
Steel	-	25	40
Heavy-duty	-	-	100

1) 3 kg with snap-on cable holder

KBK 100 cable trolleys are also suitable for KBK I.

The cable trolleys run inside the rail section and are thus protected from damaging influences. They can be used for the flexible routing of flat and round-section cables.

The cable trolleys are suitable for carrying hoses, balancers, electrical or pneumatic tools, for quickly changing the positions of lamps etc.



Project-drafting and assembly instructions

Project-drafting and general assembly instructions:

The relevant electrical regulations acc. to DIN EN 60204, part 32 must be followed for project-drafting hoist installations up to 1000 V rated voltage.

The permissible inner bending radius for cables must be adhered to:

cables up to	8 mm external diameter/thickness:	$3 \cdot D$,
cables up to	12 mm external diameter/thickness:	$4 \cdot D$,
cables above	12 mm external diameter/thickness:	$5 \cdot D$,

D = thickness of flat cables or outer diameter of round-section cables.

If a number of flat cables are laid on each cable trolley, it must be ensured that the thickest cable is on the top. The cables should not be strapped together at the bottom of the loop.

The length of the cable loops (or cable trolley spacing) must be sufficient to allow the trolleys to be pushed together easily without pressure, even if the cables are comparatively stiff or if a number of cables are laid on top of each other.

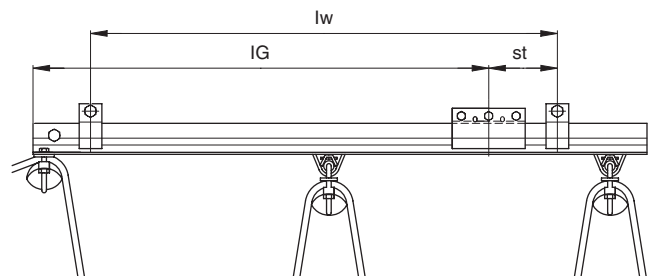
The length of track sections holding accumulated cable trolleys must be calculated on the basis of the cable's permissible bending diameter and the number of cables. Each of these track sections must be supported by an additional suspension fitting.

The radius of **curved tracks** should be as wide as possible. The **distance between individual cable trolleys** must always be smaller than the **curve radius**. The cable trolleys should be connected by strainer wires shorter than the cable itself.

The track sections must be fitted so that there is sufficient space on both sides to rule out the possibility of the cable bumping against railings or machinery etc.

Further assembly instructions are given in the sections describing the components.

Load capacity and distance between suspension fittings



I_G = Length of straight section

l_w = Distance between suspension fittings

st = Permissible distance of joint from suspension fitting

41462144.eps

Length of cable = $\frac{\text{length of track} \cdot 1,2 + \text{cable lengths}}{\text{(to the power feed and to the consumer)}}$

Number of cable trolleys = $\frac{\text{length of track}}{\text{depth of cable loop} \cdot 2} - 1$

Load per cable trolley = $\frac{\text{length of track} \cdot 1,2 \cdot \text{weight of cable per metre}}{\text{number of cable trolleys} + 1}$

Length of track section holding accumulated cable trolleys = $(\text{number of cable trolleys} + 1) \cdot \text{max. length of cable trolleys with cable(s)}$

Determining the max. distance between suspension fittings l_W

Number of cable trolleys in section l_W	KBK 0						KBK 25					
	Plastic cable trolleys						Steel cable trolleys					
	Plastic cable trolleys						Plastic cable trolleys					
	Load per cable trolley (kg)											
	3	6	9	12	15	3	6	9	12	15	20	25
Max. distance between suspensions l_W (m) ¹⁾												
1	5,2	3,7	3,0	2,6	2,3	5,7	4,5	3,7	3,2	2,8	2,5	2,2
2	3,7	2,6	2,1	1,8	1,6	4,5	3,2	2,6	2,3	2,0	1,8	1,6
3	3,0	2,1	1,7	1,5	1,3	3,7	2,6	2,1	1,8	1,6	1,4	1,3
4	2,6	1,8	1,5	1,2	1,0	3,2	2,3	1,8	1,6	1,4	1,2	1,1
5	2,3	1,6	1,3	1,0	0,8	2,9	2,0	1,6	1,4	1,3	1,1	1,0
6	2,1	1,5	1,1	0,8	0,7	2,6	1,8	1,5	1,3	1,2	1,0	0,9
7	2,0	1,4	1,0	0,7	-	2,4	1,7	1,4	1,2	1,1	0,9	-
8	1,9	1,3	0,9	-	-	2,3	1,6	1,3	1,1	1,0	-	-
9	1,7	1,1	-	-	-	2,1	1,5	1,2	1,0	0,9	-	-
10	1,6	-	-	-	-	2,0	1,4	1,1	0,9	-	-	-

For KBK 25, the maximum distance from joint to centre of suspension fitting is $st = 0,15 \cdot l_W$.

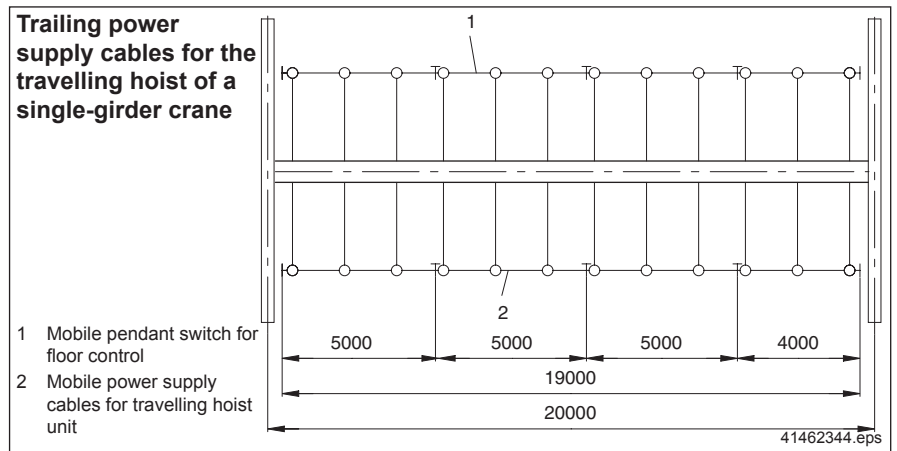
For distance of joint from suspension fitting for KBK 0, see page 6 under "Track connecting clamp".

Number of cable trolleys in section l_W	KBK 100													
	Steel cable trolleys							Heavy-duty cable trolleys						
	Plastic cable trolleys							Heavy-duty cable trolleys						
	Load per cable trolley (kg)													
	10	15	20	25	30	35	40	50	60	70	80	90	100	
Max. distance between suspensions l_W (m) ¹⁾														
1	5,0	5,0	5,0	5,0	5,0	5,0	4,8	4,3	3,9	3,6	3,4	3,2	3,0	
2	5,0	5,0	4,8	4,3	3,9	3,6	3,4	3,0	2,8	2,6	2,4	2,3	2,1	
3	5,0	4,5	3,9	3,5	3,2	2,9	2,8	2,5	2,3	2,1	2,0	1,8	1,7	
4	4,7	3,9	3,4	3,0	2,8	2,6	2,4	2,1	2,0	1,8	1,7	1,6	1,5	
5	4,3	3,5	3,0	2,7	2,5	2,3	2,1	1,9	1,7	1,6	1,5	-	-	
6	3,9	3,2	2,8	2,5	2,2	2,1	1,9	1,7	1,6	1,5	-	-	-	
7	3,6	3,0	2,6	2,3	2,1	1,9	1,8	1,6	1,5	-	-	-	-	
8	3,4	2,8	2,4	2,1	2,0	1,8	1,7	1,5	-	-	-	-	-	
9	3,2	2,6	2,2	2,0	1,8	1,7	1,6	-	-	-	-	-	-	
10	3,0	2,5	2,1	1,9	1,7	1,6	1,5	-	-	-	-	-	-	

For KBK 100, the maximum distance from joint to centre of suspension fitting is $st = 0,15 \cdot l_W$.

1) Distance between suspension fittings l_W for $f/l_W = 1/250$ with vertical loading on each cable trolley (kg) and even distribution within l_W .

Project-drafting example



Single-girder crane, as in sketch, with flat cables, conductor cross-sections
 $4 \cdot 16 \text{ mm}^2$ and $8 \cdot 1,5 \text{ mm}^2$.

Outer dimensions and weights:

$4 \cdot 16 \text{ mm}^2$: 40 mm • 14 mm, 1,12 kg/m

$8 \cdot 1,5 \text{ mm}^2$: 33 mm • 8 mm, 0,35 kg/m.

Depth of loop approx. 0,8 m,

Lengths of connecting cables 5 m.

Calculation method for current supply cables:

$$\text{Length of cable} = 19 \text{ m} \cdot 1,2 + 5 \text{ m} = 27,8 \text{ m}$$

$$\text{Number of cable trolleys} = \frac{19 \text{ m}}{0,8 \text{ m} \cdot 2} - 1 = 10,9 \quad \text{Selected: 11 cable trolleys}$$

$$\text{Load per cable trolley} = \frac{19 \text{ m} \cdot 1,2 \cdot (1,12 + 0,35) \text{ kg / m}}{11 + 1} = 2,8 \text{ kg}$$

Distance between suspension fittings as in table:

KBK 0: $l_w \approx 1,6 \text{ m}$

KBK 25: $l_w \approx 2,0 \text{ m}$

Max. distance of joint from suspension fitting for KBK 25: $st = 0,15 \cdot 2,0 \text{ m} = 0,3 \text{ m}$

Selected: KBK 25 with $l_w \approx 1,7 \text{ m}$

Track section holding accumulated cable trolleys:

Permissible inner bending diameter of thickest flat cable = $2 \cdot 5 \cdot 14 \text{ mm} = 140 \text{ mm}$

External bending diameter = $140 \text{ mm} + 2 \cdot 14 \text{ mm} = 168 \text{ mm}$

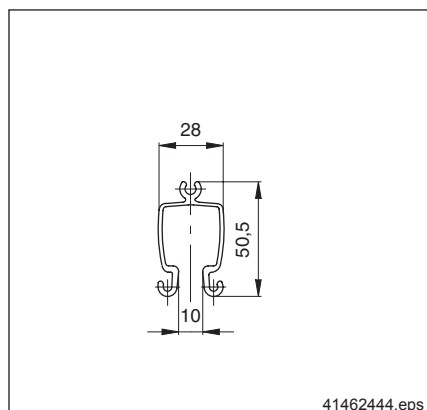
Length of track section holding trolleys = $(11+1) \cdot 0,168 \text{ m} = 2,016 \text{ m}$

Components required for KBK 25 supply line:

	Part no.
4 straight sections, 5 m long (1 straight section of 4 m cut from 5 m section)	981 515 44
3 track connecting clamps	981 520 44
2 track stop bolts	981 120 44
1 track end clamp	981 151 44
12 "VR" type track brackets	981 535 44
11 trolleys for flat cable	981 030 44
1 towing trolley	981 420 44

KBK 0 – rail and suspension fittings

Track section



Note for assembly:

The end rails of a track are to be attached by at least two suspension fittings. **On both sides of each rail joint, there must be two suspension fittings.** Sub-sections of track are to be placed in the middle.

Curved sections are to be suspended from one suspension fitting near each connecting clamp and from one in the middle.

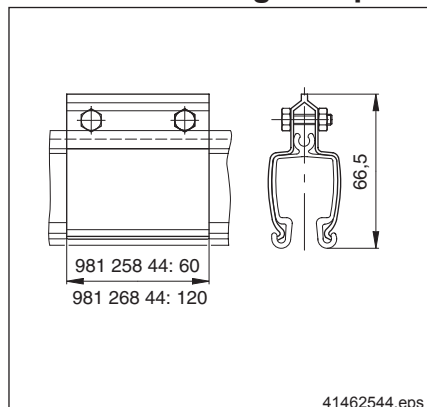
The instructions on page 3 must be followed when curved sections are used.

Finish: aluminium

Designation	Weight approx. kg	Part no.
Straight section $l_G = 3000$ mm	2,1	981 228 44
Straight section $l_G = 4000$ mm	2,8	981 230 44
Straight section $l_G = 5000$ mm	3,5	981 232 44

Curved sections with a max. unrolled length of 1 m and a radius of 1 – 3 m available on request.

Track connecting clamp



The track clamp is used for connecting sections together and is clamped in a central position over the joint.

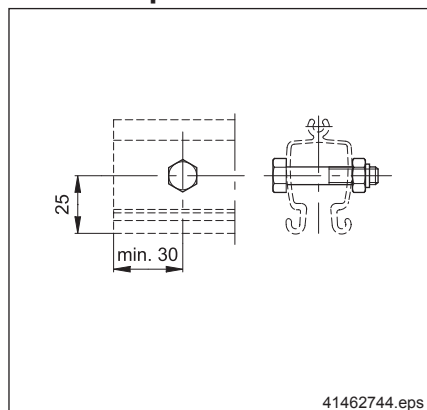
Short-type: only for connecting curved sections, to be arranged near a suspension fitting.

Long-type: can be arranged at any distance from a suspension fitting, but not for connecting curved sections.

Finish: galvanized

Designation	Weight approx. kg	Part no.
Track connecting clamp, long	0,23	981 268 44
Track connecting clamp, short	0,14	981 258 44

Track stop bolt



Note for assembly:

The stop bolt is fitted in the track between the end clamp and the first cable trolley. As a result, the cable trolley is prevented from running into the end clamp.

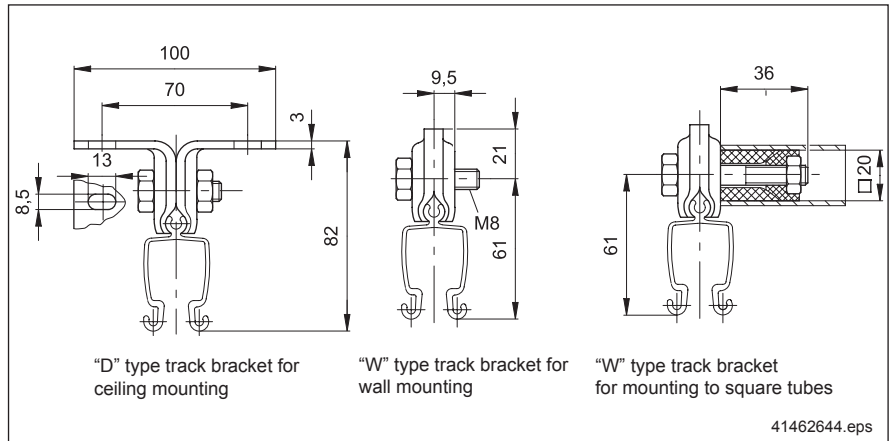
Finish: galvanized

Designation	Weight approx. kg	Part no.
Track stop bolt	0,06	981 120 44

As end stop at end of track. Diameter of hole: 9 mm

KBK 0 – rail and suspension fittings

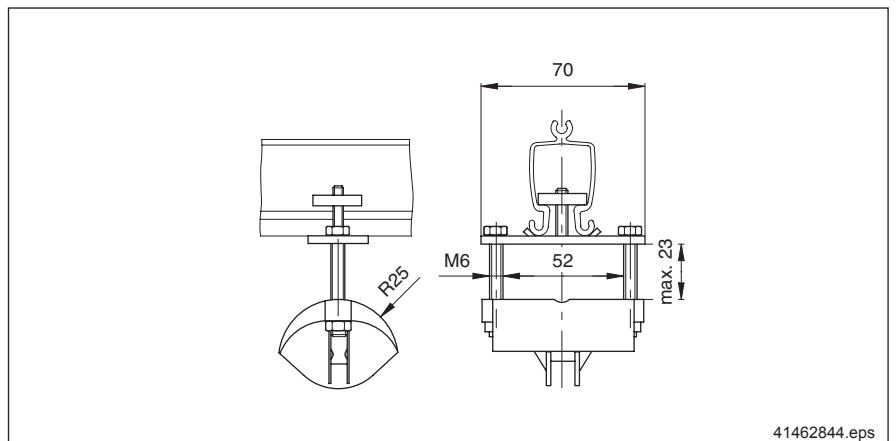
Suspension fitting



Finish: galvanized
Square dowel: plastic, black

Designation	Max. load	Weight approx. kg	Part no.
“D” type bracket	90 kg	0,16	981 055 44
“W” type bracket	90 kg	0,09	981 065 44
“VR” type bracket	90 kg	0,11	981 050 44

Track end clamp

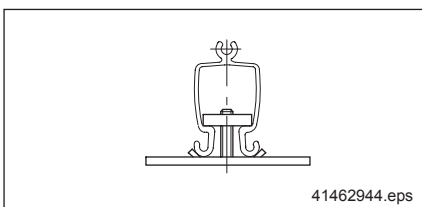


The end clamp is fitted to the end of the track to relieve the cable of strain. This clamp ensures that the cable is carried to the next connecting point without pull.

Finish: galvanized
Clamping plate: plastic, black

Designation	Weight approx. kg	Part no.
Track end clamp	0,1	981 151 44

Movable limit stop



Finish: galvanized

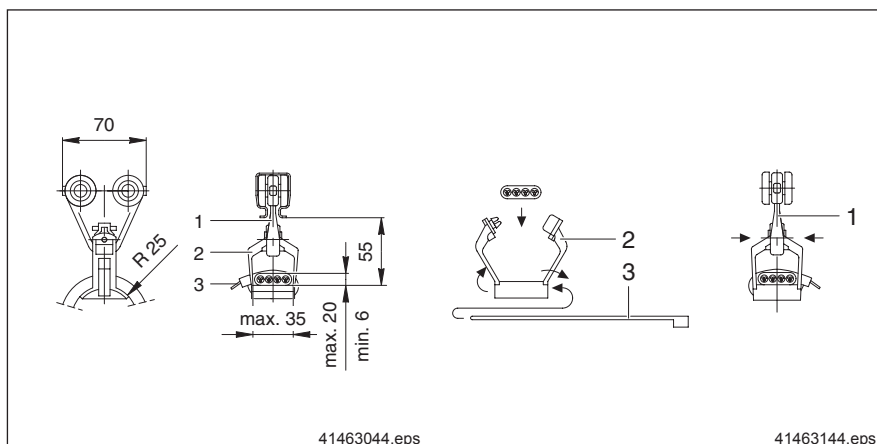
Designation	Weight approx. kg	Part no.
Movable limit stop	0,05	981 150 44

End stop in track

KBK 0 – plastic cable trolleys

KBK 25 – plastic cable trolleys

Flat cable trolley with snap-on cable holder



This flat cable trolley is designed to carry a
 max. of 2 flat cables and a
 max. load of 3 kg.

It is not suitable for round-section cables.

Note for assembly:

Please note: Cable holder (2) and cable strap (3) are intended for use only once. It is not possible to use these parts again, e.g. after incorrect assembly, since the snap closure is damaged when the cable holder (2) is opened.

Sequence of assembly operations:

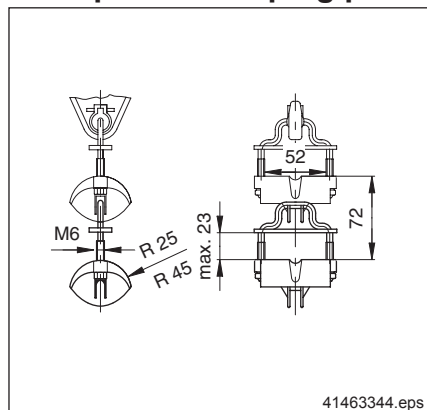
- Pass cable strap (3) through the two slots in the supporting plate of cable holder (2)
- Distribute cable holders (2) at equal distances over the entire cable length.
- Place cable strap (3) over the cable(s) on each holder (2) and firmly tighten the strap.
- Snap cable holder (2) onto trolley (1).

Finish: plastic, black
 Axle with ball bearings: steel
 Travel wheels: plastic, neutral colour

Technical details: see cable trolley in the next section.

Designation	Weight approx. kg	Part no.
Flat cable trolley with snap-on cable holder (complete)	0,07	981 017 44

Stirrup with clamping plate



If the space over the clamping plate of the plastic cable trolley is not sufficient, a stirrup with a clamping plate is suspended from the clamping plate of the plastic cable trolley.

A number of hangers can be arranged one below the other. The total loading on the additional hangers must not be more than 5 kg (also, do not exceed max. permissible loading for cable trolley).

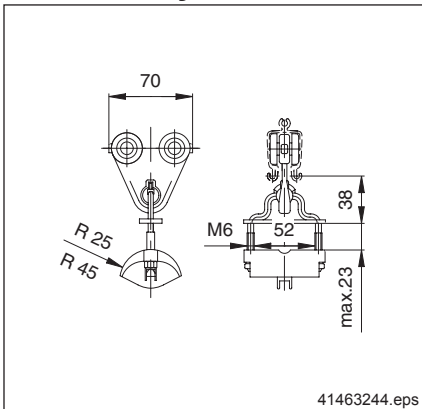
Finish: Stirrup: galvanized
 Clamping plate: plastic, black

Designation	Weight approx. kg	Part no.
Stirrup with clamping plate R 25	0,08	981 029 44
Stirrup with clamping plate R 45	0,09	980 470 44

KBK 0 – plastic cable trolleys

KBK 25 – plastic cable trolleys

Cable trolley



Finish: Frame and clamping plate: plastic, black
 Stirrup: galvanized
 Axle with ball bearings: steel
 Travel wheels: plastic, neutral colour

Temperature range: -20 °C to + 70 °C

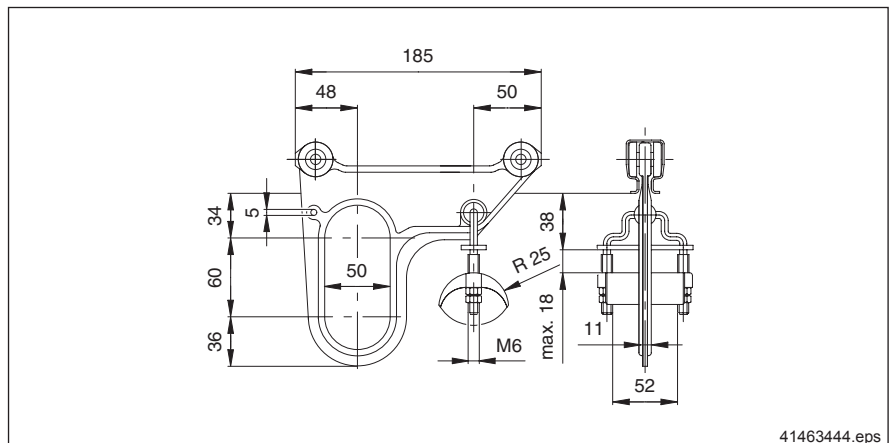
Resistant to mineral lubricating oils and greases, petrol and alkaline solutions.
 Limited resistance to trichlorethylene, carbon tetrachloride and acids. Avoid direct sunlight.

Travel speed: up to 63 m/min. Higher speeds are possible with reduced loads and shorter operating periods (max. 100 m/min.).

Designation	Max. load	Weight approx. kg	Part no.
Cable trolley for			
Flat cable R 25 ¹⁾	15 kg	0,12	981 030 44
Flat cable R 45 ¹⁾	15 kg	0,13	981 040 44
Round cable R 45 ²⁾	15 kg	0,13	981 035 44

- 1) With partially locked ball joints, i.e. the stirrup can only move at right angles to the direction of travel (as shown).
- 2) With freely moving ball joint, i.e. the stirrup can move in all directions.

Towing trolley



Note for assembly:

The cable loop length must be the same on both sides of the clamping plate in order to prevent the towing trolley from skewing.

The towing arm must be able to move freely along the horizontal centre line within the stirrup of the towing trolley.

Finish and technical details: same as cable trolley above.
 The towing trolley cannot negotiate curves.

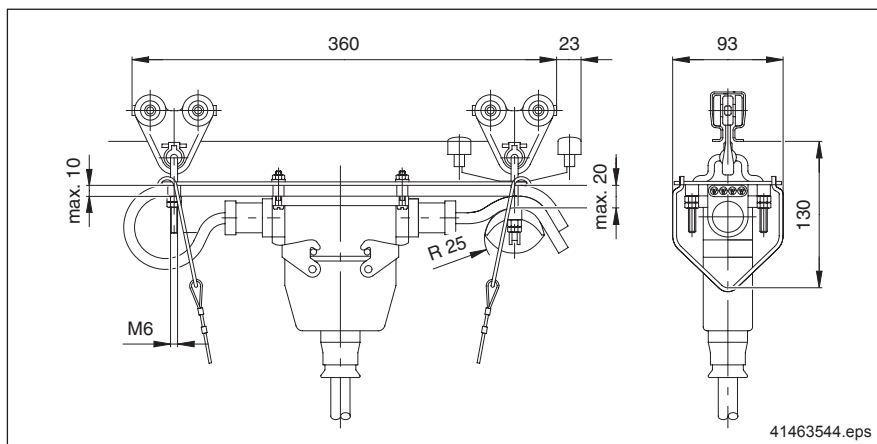
Designation	Weight approx. kg	Part no.
Towing trolley	0,17	981 420 44

For towing the current supply cable.

KBK 0 – plastic cable trolleys

KBK 25 – plastic cable trolleys

Trolley for pendant control switch and 16/24-pole plug-and-socket connector



Finish: galvanized

Trolleys: same as cable trolley, see page 5.

Designation	Weight approx. kg	Part no.
Control cable trolley for plug-and-socket connector	0,95	981 415 44

Trolley for pendant control switch for mobile control.

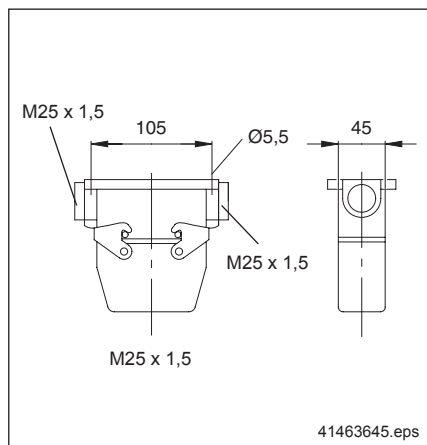
Possible mounting configurations:

- 16 or 24-pole plug-and-socket connector,
- Socket for use on crane with DR rope hoist.

Spring-loaded friction pads prevent the trolleys from running back unintentionally.

The detachable holders to which the strain-relief cords are fitted make it possible for a defective pendant control switch to be rapidly replaced together with its control cable.

16-pole plug-and-socket connector for pendant control switch trolley



16-pole plug-and-socket device, which can be fitted to trolleys for pendant control switch, consisting of an upper and lower part.

Lower part complete with socket and two cable outlets M25 x 1,5.

Upper part complete with plug, double-sided locking clamp and straight cable outlet M25 x 1,5.

For twist-type cable entry gland and screw-in union for cable entry, see technical data sheet 201 565 44.

24-pole plug-and-socket device on request.

Finish: Al Si die-cast housing

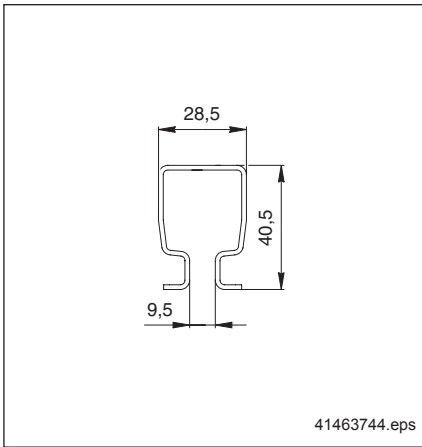
Designation	Weight approx. kg	Part no.
Plug-and-socket device, lower part	0,37	794 881 44
Plug-and-socket device, upper part	0,37	794 882 44

Screw terminal:

2,5 mm², 16 poles + PE (earth), rated voltage: 400 V ~, rated current: 16 A, insulation group: C to VDE 0110, type of enclosure IP 65 to DIN 40 050.

KBK 25 – rail and suspension fittings

Track section



Note for assembly:

The end rails of a track are to be attached by at least two suspension fittings. **On both sides of each rail joint, there must be two suspension fittings.** Track sub-sections are to be placed in the middle.

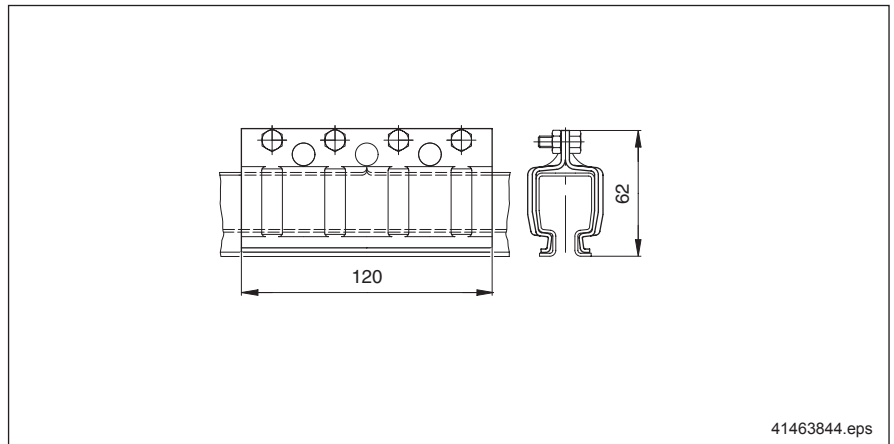
Curved sections are to be suspended from one suspension fitting near each connecting clamp and from one in the middle.

The instructions on page 3 must be followed.

Finish: galvanized

Designation		Weight approx. kg	Part no.
Straight section	$l_G = 5000$ mm	7,2	981 515 44
Curved section	90°, R = 750 mm	1,7	981 506 44
Curved section	90°, R = 1000 mm	2,26	981 507 44
Curved section	90°, R = 1500 mm	3,39	981 508 44

Track connecting clamp



Note for assembly:

The track sections are firmly connected owing to the frictional force of the track connecting clamp. The track sections are additionally protected against being drawn apart as follows: **using a pair of pliers (approx. 5 mm wide), bend up the top ends of the sections being joined with a track connecting clamp about 2 to 3 mm.** These bent-up ends are held in a groove in the connecting clamp.

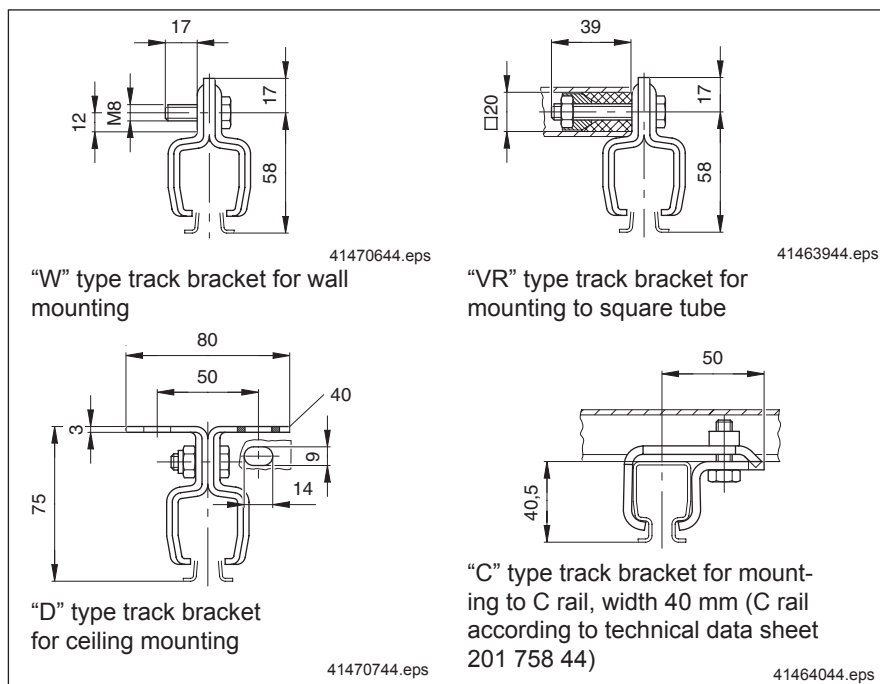
Finish: galvanized

Designation	Weight approx. kg	Part no.
Track connecting clamp	0,3	981 520 44

The track connecting clamp is placed centrally over the track joint. Max. distance from track joint to middle of suspension fitting: $0,15 \cdot$ distance between suspension fittings.

KBK 25 — rail and suspension fittings

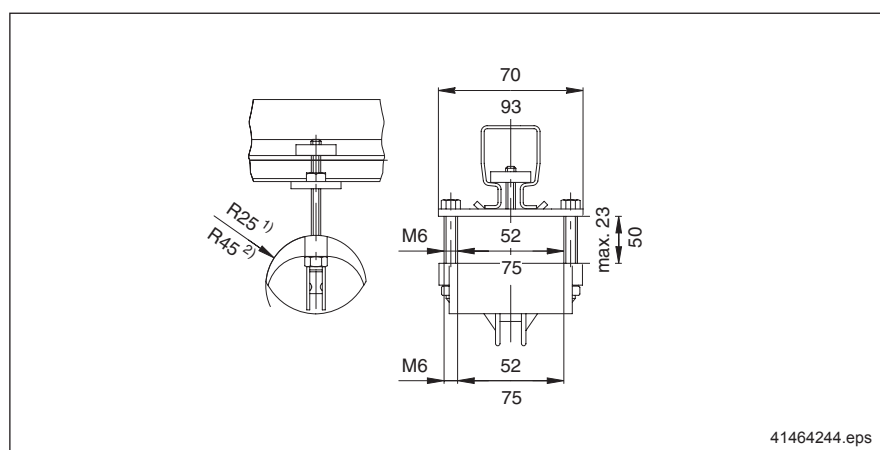
Suspension fitting



Finish: galvanized
Square dowel: plastic, black

Designation	Max. load	Weight approx. kg	Part no.
"W" type bracket	150 kg	0,11	981 530 44
"VR" type bracket	150 kg	0,14	981 535 44
"D" type bracket	150 kg	0,16	981 540 44
"C" type bracket	150 kg	0,17	981 545 44

Track end clamp



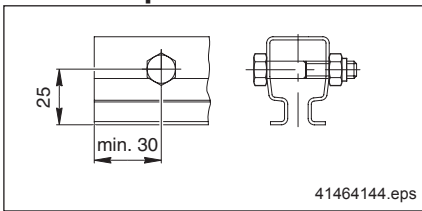
The end clamp is fitted to the end of the track to relieve the cable of strain. This clamp ensures that the cable is carried to the next connecting point without pull.

Finish: 1) galvanized
Clamping plate: plastic, black
2) galvanized

Designation	Weight approx. kg	Part no.
Track end clamp ¹⁾ (25 mm radius)	0,1	981 151 44
Track end clamp ²⁾ (45 mm radius)	0,2	981 573 44

KBK 25 – rail and suspension fittings

Track stop bolt



Note for assembly:

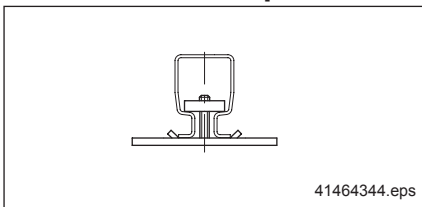
The stop bolt is fitted in the track between the end clamp and the first cable trolley. As a result, the cable trolley is prevented from running into the end clamp.

Finish: galvanized

Designation	Weight approx. kg	Part no.
Track stop bolt	0,06	981 120 44

As end stop at end of track
Diameter of hole: 9 mm

Movable limit stop

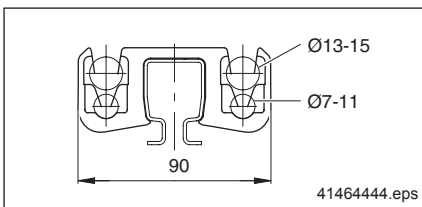


End stop in track

Finish: galvanized

Designation	Weight approx. kg	Part no.
Movable limit stop	0,05	981 150 44

Cable clip

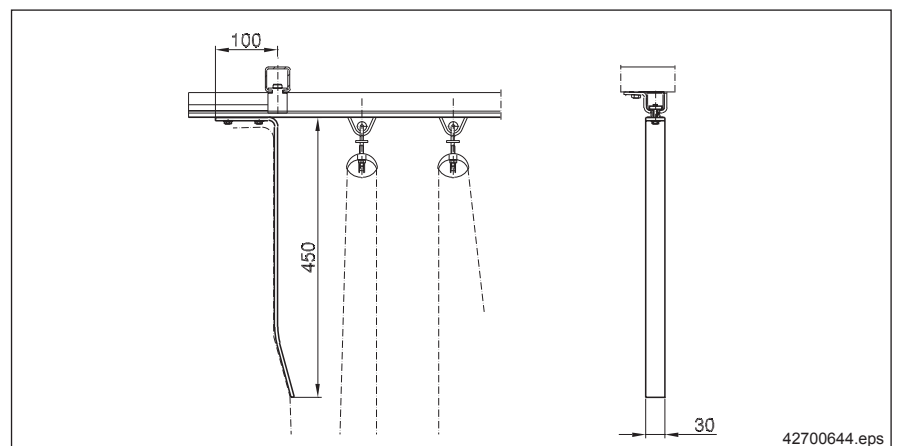


For the permanent fitting of round-section cables along the KBK 25 track section. The cable clips are secured to the track every 0,5 m.

Finish: plastic, black

Designation	Weight approx. kg	Part no.
Cable clip	0,01	964 364 44

Cable deflector



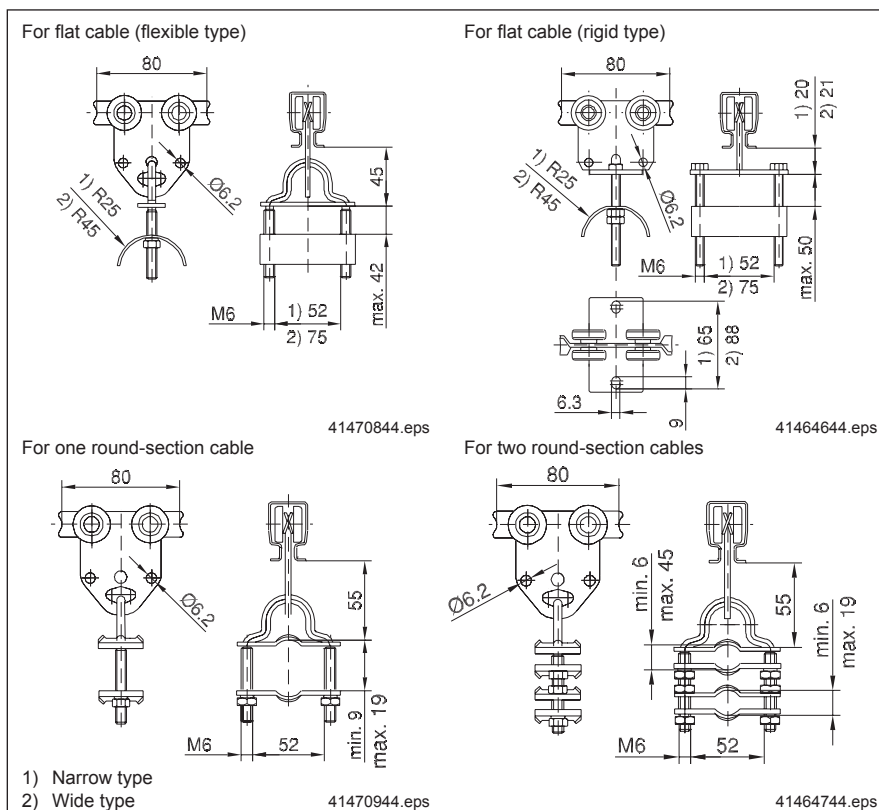
Finish: galvanized

Designation	Weight approx. kg	Part no.
Cable deflector	0,7	958 800 44

For preventing cable loops in track sections, where cable trolleys are accumulated, from striking against adjacent objects.

KBK 25 – steel cable trolleys

Cable trolleys



Cable brackets/data cable see KBK 100 / I – heavy-duty cable trolleys, page 20

Finish: galvanized

Steel travel wheels, anti-friction bearings.

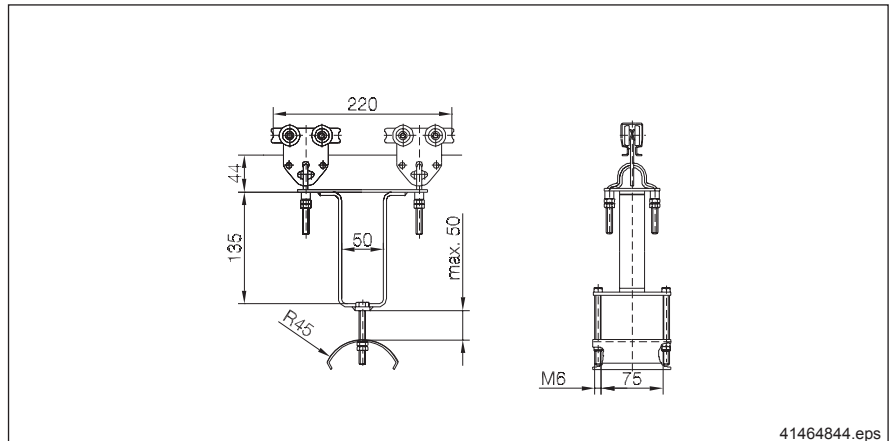
6,2 mm bore holes are provided for strainer wires.

Temperature range: see data for cables selected.

Travel speed: up to 63 m/min. Higher speeds are possible with reduced loads and shorter operating periods (max. 100 m/min).

Designation	Max. load	Weight approx. kg	Part no.
Cable trolley for flat cable			
1) with 25 mm radius	25 kg	0,29	981 550 44
2) with 45 mm radius	25 kg	0,35	981 551 44
Rigid type	25 kg	0,29	981 570 44
Trolley, rigid	25 kg	0,25	981 571 44
Rigid, wide type	25 kg	0,49	981 581 44
Trolley, rigid, wide	25 kg	0,26	981 582 44
Cable trolley for			
one round-section cable	25 kg	0,27	981 560 44
two round-section cables	25 kg	0,34	981 561 44

Towing trolley

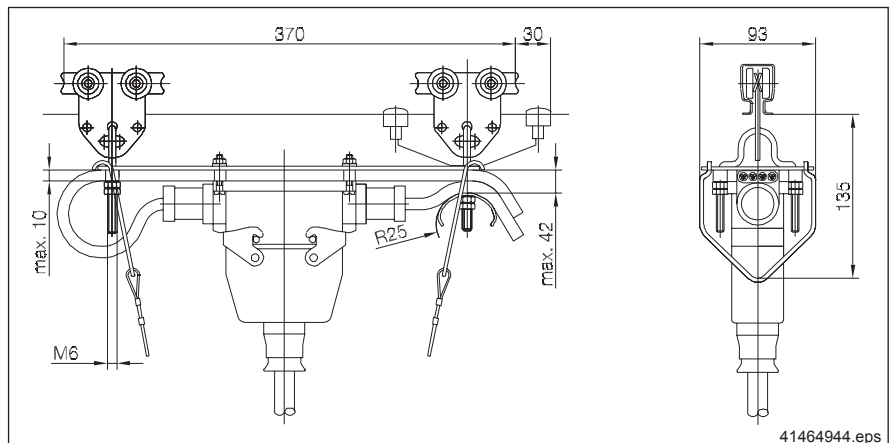


Finish: galvanized
Trolley as for cable trolley, see above.

Designation	Weight approx. kg	Part no.
Towing trolley	1,4	981 576 44

For towing the current supply cable.

Trolley for pendant control switch and 16/24-pole plug-and-socket connector



Finish: galvanized
Trolley as for cable trolley, see above.

Designation	Weight approx. kg	Part no.
Control cable trolley for plug-and-socket connector	1,25	981 580 44

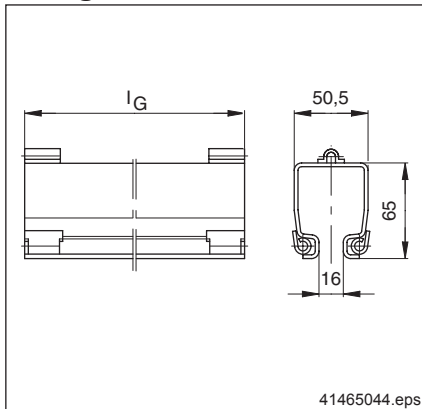
Trolley for pendant control switch for mobile control. Possible mounting configurations:

- 16 or 24-pole plug-and-socket connector,
- Socket for use on crane with DR rope hoist.

Spring-loaded friction pads prevent the trolleys from running back unintentionally. The detachable holders to which the strain-relief parts are fitted make it possible for a defective pendant control switch to be rapidly replaced together with its control cable. Plug-and-socket connectors must be ordered separately, see page 10.

KBK 100 – rail and suspension fittings

Straight section



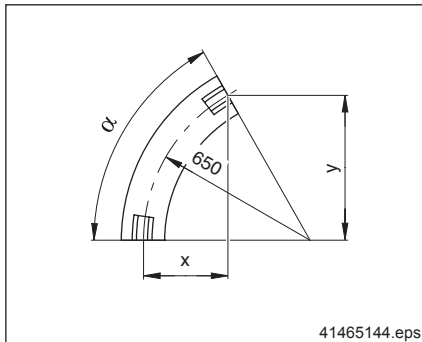
The track sections have three coupling sleeves at each end for being bolted together or for fitting the end cap with end stop.

l_G special length: $l_{Gmin} = 120$ mm,
 $l_{Gmax} = 5000$ mm.

Finish: red (RAL 2002)

Designation	Weight approx. kg	Part no.
Straight section		
$l_G = 1000$ mm	4,1	984 701 44
$l_G = 2000$ mm	8,2	984 702 44
$l_G = 3000$ mm	12,3	984 703 44
$l_G = 4000$ mm	16,4	984 704 44
$l_G = 5000$ mm	20,5	984 705 44

Curved section



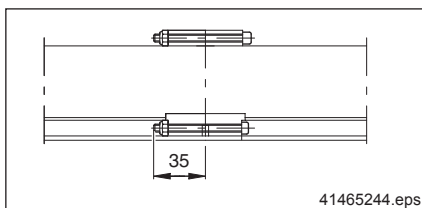
Curved sections must be suspended from one suspension fitting near each track joint and from one in the middle.

Finish: red (RAL 2002)

Angle of curve α	Dimensions in mm		Weight approx. kg	Part no.
	x	y		
30°	87	325	1,4	984 671 44
60°	325	563	2,8	984 672 44
90°	650	650	4,2	984 673 44

Special angle: $\alpha_{min} = 12^\circ$, $\alpha_{max} = 90^\circ$.

Joint bolt set

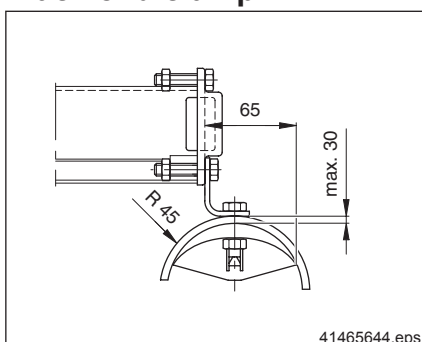


The joint bolt set is used for connecting track sections (track joint).

Finish: galvanized

Designation	Weight approx. kg	Part no.
Joint bolt set, complete	0,05	984 558 44

Track end clamp



The end clamp is fitted to the cap with stop at the end of the track.

The purpose of the end clamp is to relieve the cable of strain. This clamp ensures that the cable is carried to the next connecting point without pull.

If cables wider than 52 mm are laid and/or if the stop bolt (see page 17) is used, the end clamp (shown on page 21) must be employed.

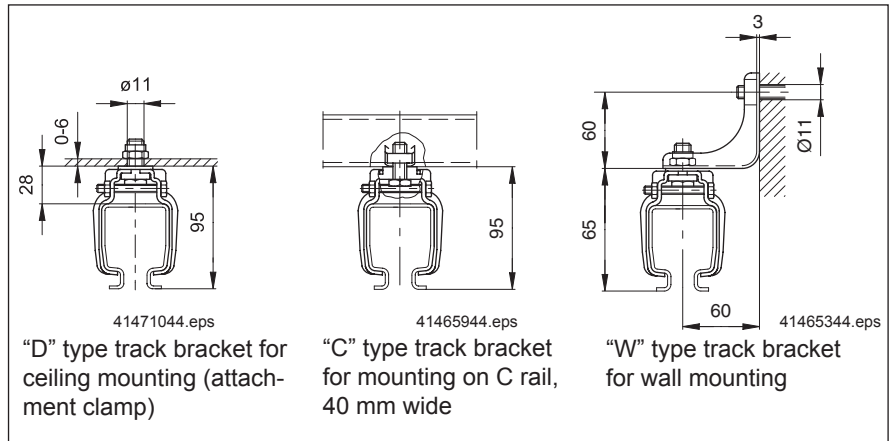
Finish: galvanized

Clamping plate: plastic, black

Designation	Weight approx. kg	Part no.
Track end clamp	0,1	982 114 44

KBK 100 – rail and suspension fittings

Suspension fittings for current supply line



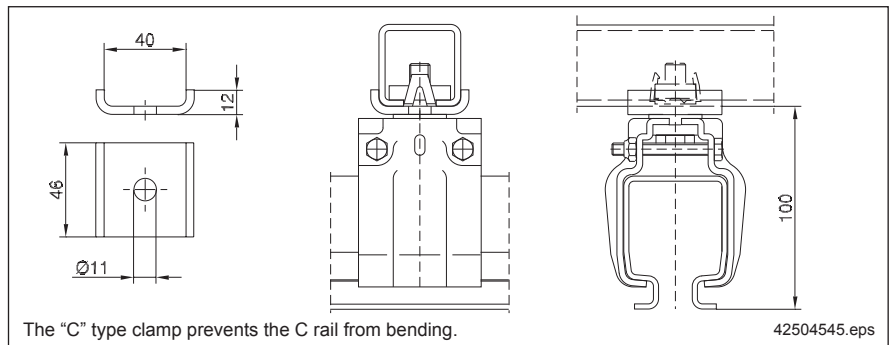
Parts for fitting “D” and “W” type brackets to be provided by customer or available on request. For mounting with C rails, see technical data sheet 202 473 44.

Finish: galvanized

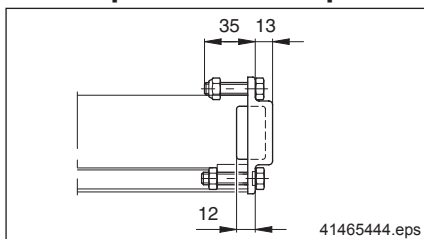
Designation	Max. load	Weight approx. kg	Part no.
“D” type bracket	400 kg	0,3	984 556 44
“C” type holding bracket, comprising:			
Sliding nut attachment clamp	400 kg ¹⁾	0,4	984 556 44 974 544 44
“C” type clamp	–	–	984 683 44
“W” type holding bracket, comprising:			
Angle section attachment clamp	150 kg	0,7	984 556 44 974 529 44

1) Pay attention to the load capacity of the C rail.

“C” type clamp



End cap with end stop

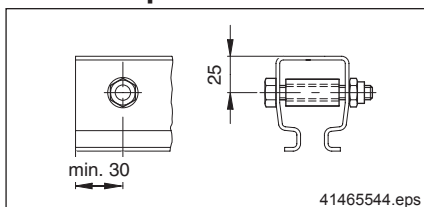


Finish: Cap with bolts: galvanized, end stop: rubber

Designation	Weight approx. kg	Part no.
End cap with end stop	0,1	984 540 44

The end of the track is closed by means of the end cap with end stop.

Track stop bolt



Stop fitted at end of the track if an end section has to be shortened (and the bolt holding sleeves removed); otherwise use end cap with end stop.

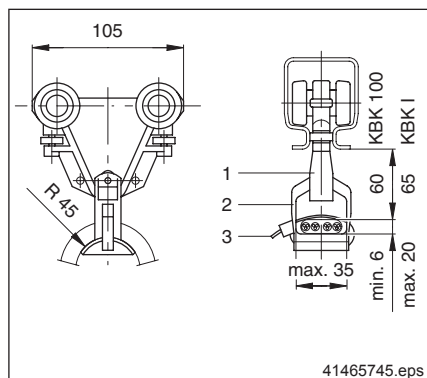
Diameter of holes: 11 mm

Finish: Nut and bolt: galvanized
 Buffer: Vulcollan

Designation	Weight approx. kg	Part no.
Track stop bolt	0,07	984 670 44

KBK 100 / I – plastic cable trolleys

Flat cable trolley with snap-on cable holder



For a flat cable trolley with snap-on cable holder the following parts must be ordered separately:

1. Trolley for cable holder
2. Snap-on cable holder
3. Cable strap 340 x 8 mm for cable holder

Sequence of assembly operations:

- Pass cable strap (3) through the two slots in the supporting plate of cable holder (2)
- Distribute cable holders (2) at equal distance over the entire cable length.
- Place cable strap (3) over the cable on each holder (2) and firmly tighten the strap.
- Snap cable holder (2) onto trolley (1).

See top of page 8 for further assembly instructions.

Finish: plastic, black

Axle with ball bearings: steel

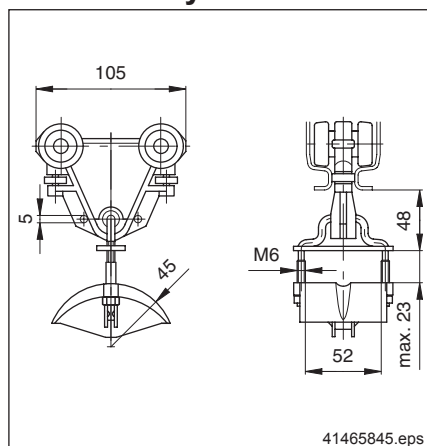
Travel wheels: plastic, neutral colour

Technical details see trolley in the next section.

Designation	Weight approx. kg	Part no.
Trolley for cable holder	0,16	980 045 44
Snap-on cable holder	0,01	981 018 44
Cable strap 340 x 8 for cable holder	-	981 019 44

Suitable for KBK 100, KBK I,
max. load: 3 kg

Cable trolley



The plastic cable trolley is suitable for flat and round-section cables. The stirrup is mounted in a plastic ball and can pivot in all directions.

5 mm dia. holes are provided for strainer wires.

If the space over the clamping plate of the cable trolley is not sufficient, a stirrup with a clamping plate is suspended from the clamping plate of the cable trolley; for stirrup with clamping plate, see page 8.

Finish: Frame and clamping plate: plastic, black

Stirrup: galvanized

Axle with ball bearings: steel

Travel wheels: plastic, neutral colour

Temperature range: -20 °C to +70 °C.

Resistant against mineral lubricating oils and greases, petrol, alkaline solutions.

Limited resistance to trichlorethylene, carbon tetrachloride, acids. Avoid direct sunlight.

Travel speed: up to 63 m/min. Higher speeds are possible with reduced loads and shorter operating periods.

Designation	Max. load	Weight approx. kg	Part no.
Cable trolley	25 kg	0,2	980 460 44

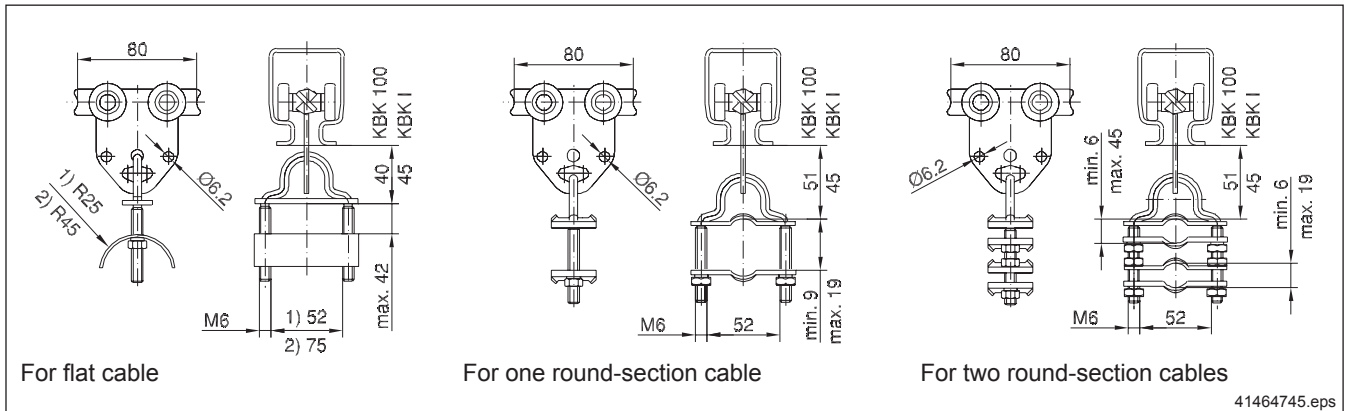
Suitable for KBK 100, KBK I.

For towing trolley see page 21

Trolleys for pendant control switch on request.

KBK 100 / I – steel cable trolleys

Cable trolleys



Finish: galvanized

Steel travel wheels, antifriction bearings.

6,2 mm dia. holes are provided for strainer wires.

Temperature range: see data for cables selected.

Travel speed: up to 63 m/min. Higher speeds are possible with reduced loads and shorter operating periods.

Designation	Max. load	Weight approx. kg	Part no.
Cable trolley for flat cable			
1) with 25 mm radius	40 kg	0,29	984 605 44
2) with 45 mm radius	40 kg	0,35	984 606 44
Cable trolley for			
one round cable	40 kg	0,27	984 610 44
two round cables	40 kg	0,34	984 611 44

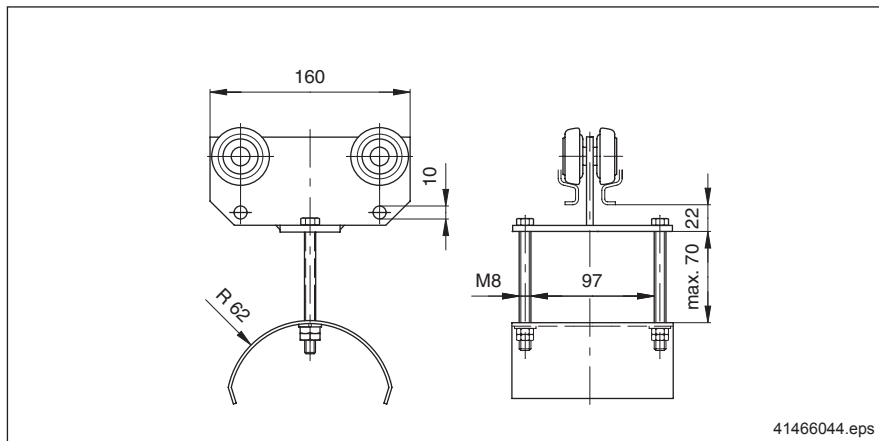
Suitable for KBK 100, KBK I.

For towing trolley see page 21

Trolleys for pendant control switch on request.

KBK 100 / I – heavy-duty cable trolleys

Flat cable trolley



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Finish: galvanized

Plastic travel wheels, antifriction bearings

10 mm dia. holes are provided for strainer wires.

These cable trolleys cannot negotiate curves.

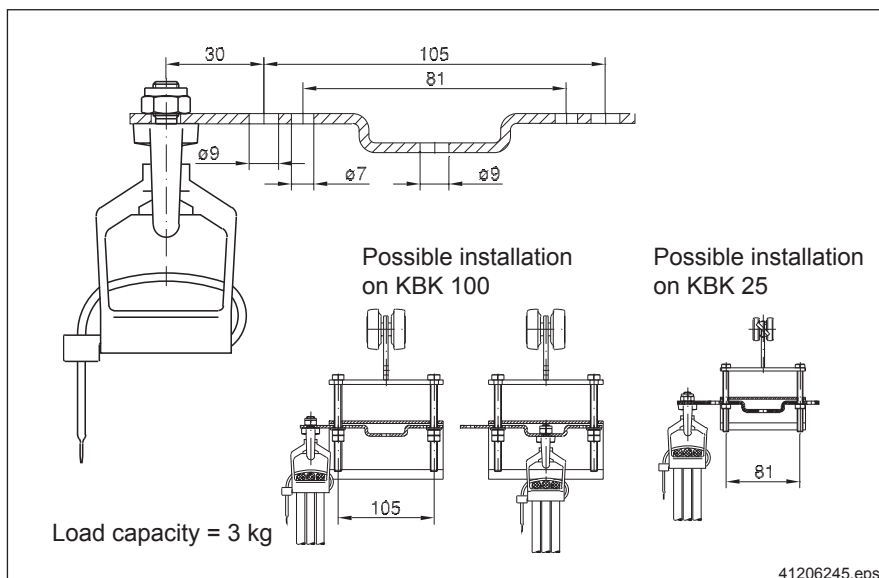
Temperature range: -20 °C to +70 °C.

Travel speed: up to 63 m/min. Higher speeds are possible with reduced loads and shorter operating periods.

Designation	Max. load	Weight approx. kg	Part no..
Flat cable trolley	100 kg	1,5	984 650 44

Suitable for KBK 100, KBK I.

Cable bracket/data cable



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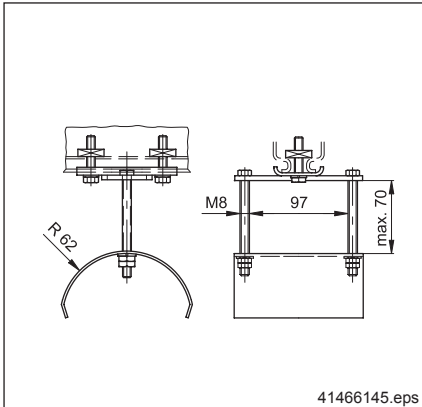
Designation	Max. load	Weight approx. kg	Part no.
Cable bracket / data cable	3 kg	0,2	984 682 44

Possible installation

Cable trolley for:	Part no.
KBK 25	981 551 44
	981 581 44
KBK 100	984 650 44
	984 606 44

KBK 100 / I — heavy-duty cable trolleys

Track end clamp



Finish: galvanized

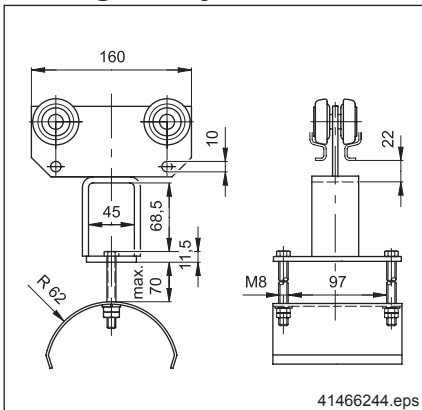
Designation	Weight approx. kg	Part no.
Track end clamp	0,9	984 665 44

Suitable for KBK 100, KBK I.

The end clamp is fitted to the end of the track to relieve the cable of strain. This clamp ensures that the cable is carried to the next connection point without any pull.

The end of the track is closed with the end cap complete with end stop (see page 17).

Towing trolley



Finish: galvanized

Plastic travel wheels, antifriction bearings

Operating conditions as for flat cable trolleys, see above.

Designation	Weight approx. kg	Part no.
Towing trolley	1,9	984 655 44

Suitable for KBK 100, KBK I.

For towing the current supply cable.

Component parts

The following component parts are available:

	KBK 0/25	KBK 25	KBK 100		Heavy-duty cable trolley
	Cable holder				
	Plastic	Steel	Plastic	Steel	
Snap-on cable holder	981 018 44				
Cable strap 340 x 8	981 019 44	-	-	-	-
Trolley, cable trolley 981 030 44 without retaining element for cable	981 020 44				
Trolley, without retaining elements for cable	-		980 461 44		984 651 44
Clamping plate with 25 mm radius	981 033 44	-	981 033 44	-	
Clamping plate with 45 mm radius	981 034 44		981 034 44		
Clamping plate, galvanized, with 25 mm radius		981 558 44		981 558 44	
Clamping plate, galvanized, for round cable		981 562 44		981 562 44	
Stirrup, galvanized, for clamping plate with 25 mm radius		981 563 44		981 563 44	
Stirrup, galvanized, for clamping plate with 45 mm radius		981 564 44		981 564 44	
Top plate, galvanized	980 468 44	980 468 44	980 468 44	980 468 44	
Brake spring for pendant control switch cable trolley	981 403 44	984 593 44			
Friction pad for brake spring	981 404 44	981 404 44	-	-	

KBK 0 / 25 / 100 project-drafting and price calculations

Customer: _____

Customer no.: _____

Project/order no.: _____

Cross-travel power supply line, KBK _____

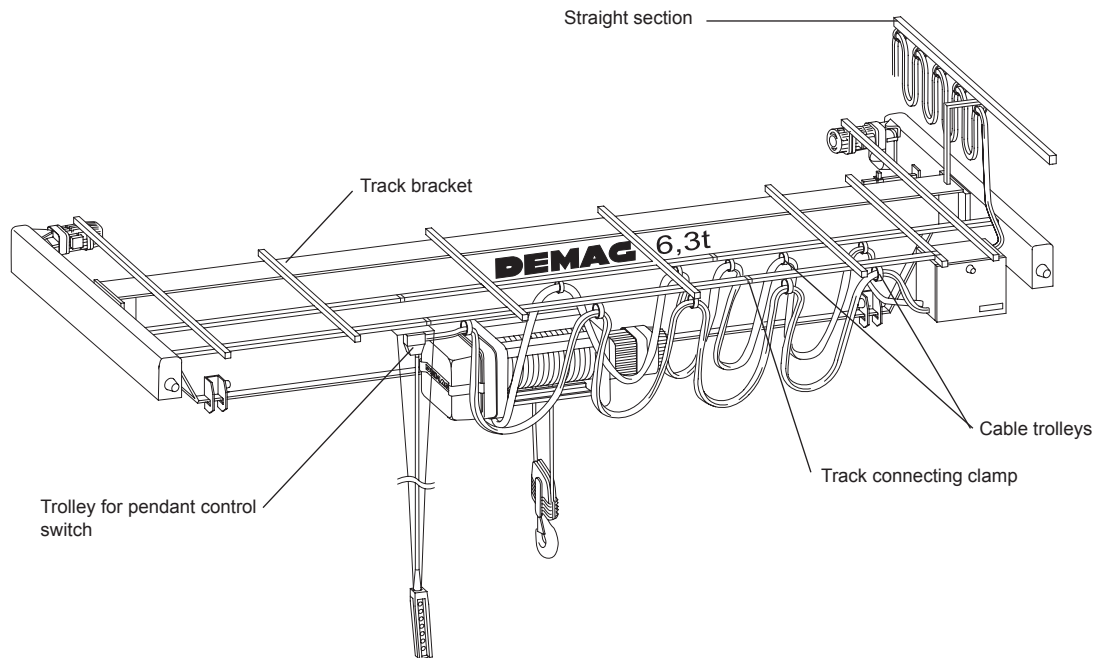
Mobile pendant control switch, KBK _____

Long-travel power supply line, KBK _____

Length of power supply line approx. _____ m,

Processed by (name/dept.): _____ Date: _____

Trailing cable power supply lines		KBK 0				KBK 25			
		Part no.	Qty	Unit price in Euro	Total price in Euro	Part no.	Qty	Unit price in Euro	Total price in Euro
Straight section	3000 m	981 228 44							
	4000 m	981 230 44							
	5000 m	981 232 44				981 515 44			
	Special length	mm ¹⁾							
	Special length	mm ¹⁾							
Curved section	90°, R = 750 mm					981 506 44			
	90°, R = 1000 mm					981 507 44			
	90°, R = 1500 mm					981 508 44			
Track connecting clamp	long	981 268 44				981 520 44			
	short	981 258 44							
Track bracket	D	981 055 44				981 540 44			
	W	981 065 44				981 530 44			
	VR	981 050 44				981 535 44			
	C					981 545 44			
Track stop bolt		981 120 44				981 120 44			
Track end clamp	with 25 mm radius clamping plate	981 151 44				981 151 44			
	with 45 mm radius clamping plate					981 573 44			
Movable limit stop		981 150 44				981 150 44			
Cable clip						964 364 44			
Cable trolley (plastic)	for flat cable (25 mm radius)	981 030 44				981 030 44			
	for flat cable (45 mm radius)	981 040 44				981 040 44			
	for round cable (45 mm radius)	981 035 44				981 035 44			
Flat cable trolley with snap-on cable holder		981 017 44				981 017 44			
Stirrup	with 25 mm radius clamping plate	981 029 44				981 029 44			
	with 45 mm radius clamping plate	980 470 44				980 470 44			
Cable trolley (steel)	for flat cable (25 mm radius)					981 550 44			
	for flat cable (45 mm radius)					981 551 44			
	for flat cable (rigid type)					981 570 44			
	for flat cable (rigid, wide type)					981 581 44			
	for one round cable					981 560 44			
	for two round cables					981 561 44			
Towing trolley	with plastic trolleys	981 420 44				981 420 44			
	with steel trolleys					981 576 44			
Trolley for pendant control switch	for plug connection								
	with plastic trolleys	981 415 44				981 415 44			
	with steel trolleys					981 580 44			
16-pole plug-and-socket connector	Upper part	895 169 44				895 169 44			
	Lower part	895 170 44				895 170 44			
Total cost									



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Trailing cable power supply lines		KBK 100			
Designation		Part no.	Qty	Unit price in Euro	Total price in Euro
Straight section	1000 mm	984 701 44			
	2000 mm	984 702 44			
	3000 mm	984 703 44			
	4000 mm	984 704 44			
	5000 mm	984 705 44			
	Special length	mm ¹⁾			
	Special length	mm ¹⁾			
Curved section	30°, R = 650 mm	984 671 44			
	60°, R = 650 mm	984 672 44			
	90°, R = 650 mm	984 673 44			
Joint bolt set		984 558 44			
Track bracket D (= attachment clamp)		984 556 44			
Track bracket C, comprising	Attachment clamp	984 556 44			
	Sliding nut	974 544 44			
Track bracket W, comprising:	Attachment clamp	984 556 44			
	Angle section	974 529 44			
"C" type clamp		984 683 44			
End cap with end stop		984 540 44			
Track stop bolt		984 670 44			
Track end clamp	with 45 mm radius clamping plate	982 114 44			
	with 62 mm radius clamping plate	984 665 44			
Flat cable trolley with snap-on cable holder, comprising:					
(plastic)	Trolley for cable holder	980 045 44			
	Snap-on cable holder	981 018 44			
	Cable strap 340 x 8 for cable holder	981 019 44			
Cable trolley (plastic)		980 460 44			
Stirrup	with 25 mm radius clamping plate	981 029 44			
	with 45 mm radius clamping plate	980 470 44			
Cable trolley (steel)	for flat cable (25 mm radius)	984 605 44			
	for flat cable (45 mm radius)	984 606 44			
	for one round cable	984 610 44			
	for two round cables	984 611 44			
Flat cable trolley, heavy-duty		984 650 44			
Cable bracket/data cable		984 682 44			
Towing trolley		984 655 44			
Total cost					

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1) Enter the price of the standard length rounded up to the full meter.

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