KLIFTING INDUSTRY CO., LTD.

KU Conductor Bar System

Catalogue

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General

KU12 conductor bar system is designed in accordance with today's international safety requirements.

Any number of conductor bars can be installed side-by-side next to each other with minimum space requirements, occupying a small space.

It is widely used in automatic storage systems, monorail automated trolleys, inspection/production lines, and playground facilities, as well as for data and communication transmission.

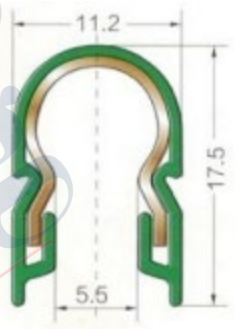
Product Description

➢ KU12 Conductor Bar

The insulation housing is made of high-quality PVC, which provides optimum insulation and safety protection.

Standard sizes are 4 m / 6 m each, other sizes are available on request.

The minimum installation distance is 14 mm and the minimum radius of the arc section is 400 mm.



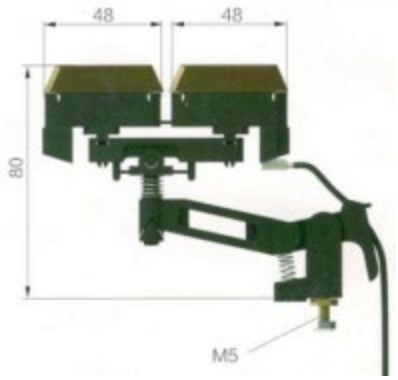
Model	Conductor material	Cross section area (mm^2)	Leakage distance of covers (mm)	Max. voltage (V)	Continuous ampere capacity (A)	Resistance (Ohm/km)	No.
KU12C	copper	25	30	660	100	0.745	201021001
KU12F	galvanized steel	25	30	660	40	5.415	201021003
KU12E	stainless steel	25	30	660	10	31.56	201021004

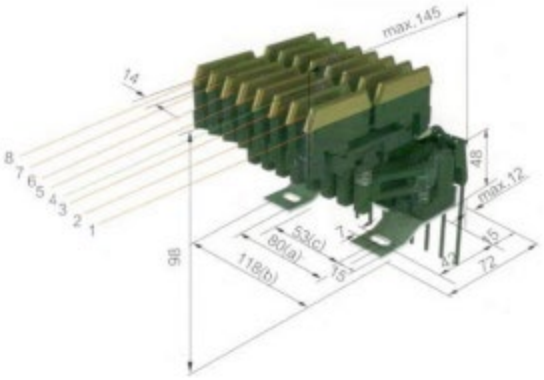
*The KU12C is used for power supply, control and data transmission; the KU12F is used for non-corrosive environments; the U12E is used for data transmission in corrosive environments.

Parameters of the PVC insulation housing

Item	Standard (green)	High temp.
Electrical properties	30-40kv/mm	45kv/mm
Specific resistance	5×10^{15} Ohm × cm	5×10^{17} Ohm × cm
Surface resistance	10^{13} Ohm	10^{15} Ohm
Leakage resistance	CTI600-1.1	CTI600-1.1
Mechanical properties Flexible strength	75N/mm^2 ± 10%	95N/mm^2 ± 10%
Tensile strength	50N/mm^2 ± 10%	50N/mm^2 ± 10%
Temperature	-30℃至 55℃	-30℃至 110℃
Flame test	Class B1,no flaming particles, self-extinguished	
No.	201021005	201021006

➢ Current Collector





Run in both directions

For conductors spacing of 14mm

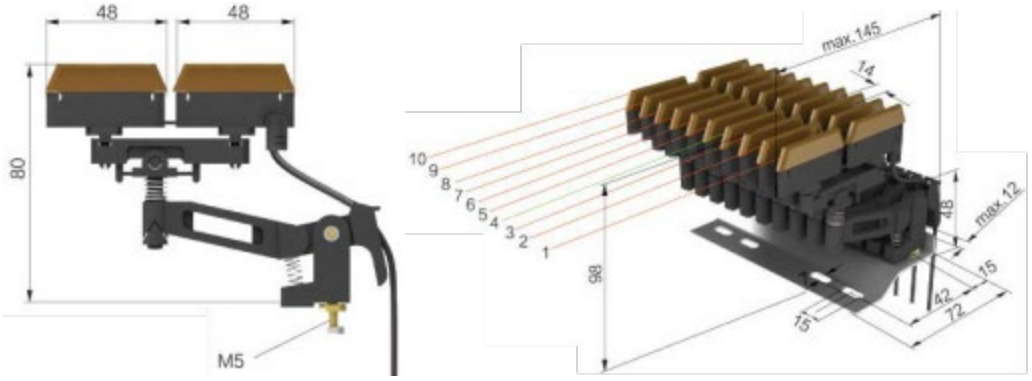
Ampacity: 1 plug terminal 20A, 2 plug terminals 2x20A.

left-right displacement: ± 15mm. Up-down displacement: ± 15mm.

Contact pressure of each brush: 3.5N.

The ground line is usually at the fourth line, but other position can be on request.

Model	Poles	a	b	c	Weight (kg)	Base plate	No.
KUJDS2/40	—	—	—	—	0.080	—	201021011
KUJDS2/40-1	1	80	118	—	0.165	8P (empty from 2-8)	201021012
KUJDS2/40-2	2	80	118	—	0.245	8P (empty from 3-8)	201021013
KUJDS2/40-3	3	80	118	—	0.325	8P (empty from 4-8)	201021014
KUJDS2/40-4	4	80	118	—	0.405	8P (empty from 5-8)	201021015
KUJDS2/40-5	5	80	118	—	0.495	8P (empty from 6-8)	201021016
KUJDS2/40-6	6	80	118	—	0.575	8P (empty from 7-8)	201021017
KUJDS2/40-7	7	80	118	53	0.735	8P (empty at 8)	201021018
KUJDS2/40-8	8	80	118	53	0.825	8P	201021019
KUJDS2/40-9	9	80	146	53	0.925	10P (empty at 10)	201021020
KUJDS2/40-10	10	80	146	53	1.005	10P	201021021
KUJDS2/40-11	11	120	174	80	1.125	11P	201021022
KUJDS2/40-12	12	120	174	80	1.205	12P	201021023



The carbon brush housing and the carbon brush are injection molded in one piece.

Run in both directions

For conductors spacing of 14mm

Ampacity: 20A with 2.5mm^2 x 1 cable, 40A with 4.0mm^2 x 1 cable

left-right displacement: ± 15mm. Up-down displacement: ± 15mm.

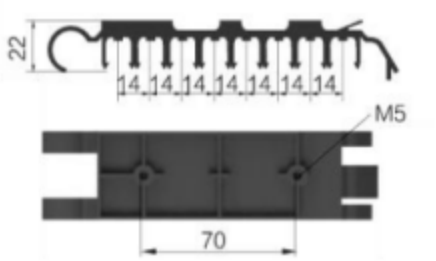
Contact pressure of each brush: 3.5N.

The ground line is usually at the fourth line, but other positions can be on request.

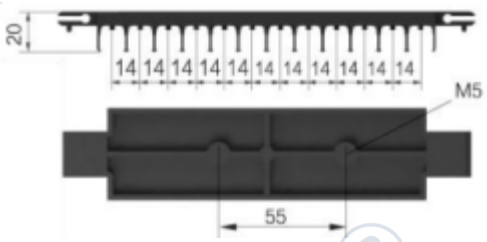
Model	Poles	a	b	c	Weight (kg)	Base plate	No.
KUJD2/40	—	—	—	—	0.080	—	201021011
KUJD2/40-1	1	80	118	—	0.165	8P (empty from 2-8)	201021012
KUJD2/40-2	2	80	118	—	0.245	8P (empty from 3-8)	201021013
KUJD2/40-3	3	80	118	—	0.325	8P (empty from 4-8)	201021014
KUJD2/40-4	4	80	118	—	0.405	8P (empty from 5-8)	201021015
KUJD2/40-5	5	80	118	—	0.495	8P (empty from 6-8)	201021016
KUJD2/40-6	6	80	118	—	0.575	8P (empty from 7-8)	201021017
KUJD2/40-7	7	80	118	53	0.735	8P (empty at 8)	201021018
KUJD2/40-8	8	80	118	53	0.825	8P	201021019
KUJD2/40-9	9	80	146	53	0.925	10P (empty at 10)	201021020
KUJD2/40-10	10	80	146	53	1.005	10P	201021021
KUJD2/40-11	11	120	174	80	1.125	11P	201021022
KUJD2/40-12	12	120	174	80	1.205	12P	201021023

➢ Hanger

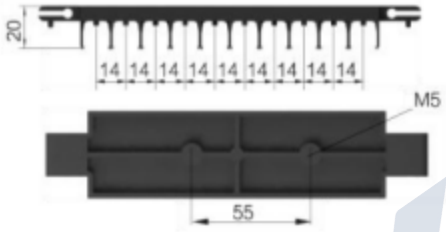
Any number of conductor bars can be assembled together by adding compact hangers. The standard conductor bar spacing is 14mm. The distance between hangers is 0.6m on straight sections and 0.3m on curved sections.



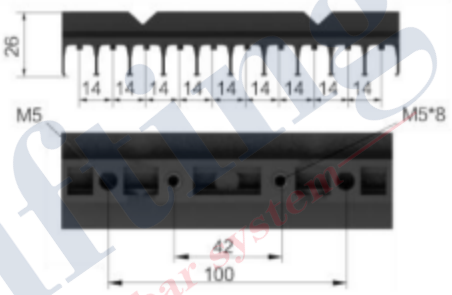
8-pole snap-in hanger (180)



10-pole snap-in hanger (220)



12-pole snap-in hanger (240)



10-pole snap-in hanger for I-beam track

Snap-in hanger

Model	Poles	Weight (kg)	Material	No.
KU12ZJA8	8	0.042	plastic	201021031
KU12ZJA10	10	0.055	plastic	201021032
KU12ZJA12	12	0.065	plastic	201021033

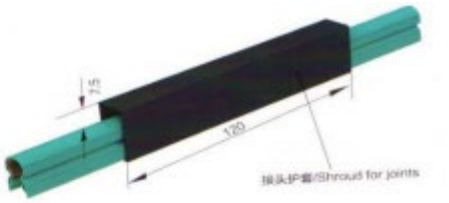
Bolted hanger

Model	Poles	Weight (kg)	Material	No.
KU12ZJB8	8	0.042	plastic	201021041
KU12ZJB10	10	0.055	plastic	201021042
KU12ZJB12	12	0.065	plastic	201021043

Combined bolted hanger

Model	Poles	Weight (kg)	Material	No.
KU12ZJC2	2	0.016	plastic	201021051
KU12ZJC3	3	0.024	plastic	201021052
KU12ZJC4	4	0.032	plastic	201021053

➢ Joint / Joint Cover



The joint is used to connect two pieces of conductor bars and also compensates for thermal expansion and contraction of the conductor bars. There is insulated cover on the joint.

Model	Product	Weight (kg)	Material	No.
KU12VHT	Joint & cover	0.033	Copper & plastic	201021060
KU12V	Joint	0.021	Copper	201021061
KU12HT	Joint cover	0.012	Plastic	201021062

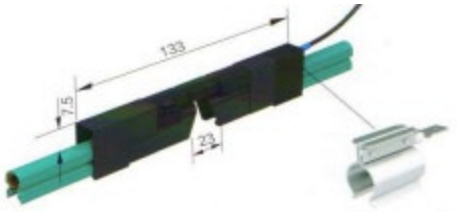
➢ Power Feed Joint and Power Feed Clip

Power feed joint power feed clip

Power can be supplied anywhere on the KU conductor bar system, including the connection.
Power supply clips can be fitted to turnout end caps and sectional end caps.

Model	Product	Weight (kg)	Material	No.
KU12E	Power feed joint	0.023	copper	201021063
KU12DJ	Power feed clip	0.005	copper	201021064

➢ Sectional End Cap Assembly

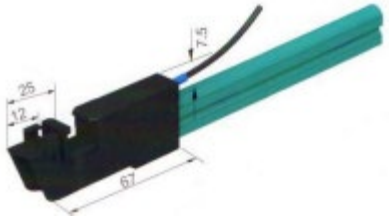


The sectional end cap assembly can be used to sectionalize control lines, set up maintenance areas, etc. By pressing the guide button portion of the sectional end cap, the two end caps can be tightly connected into an assembly.

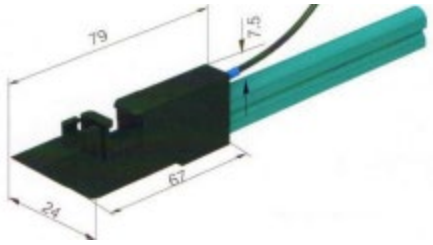
Model	Including	Weight (kg)	Material	No.
KU12FD	2 sectional end cap	0.016	plastic	201021071
KU12FD1	2 sectional end cap +1 power feed clip	0.021	Plastic & copper	201021072
KU12FD2	2 sectional end cap +1 power feed clip	0.026	Plastic & copper	201021073

➢ Turnout End Cap

It is used at the end of the KU conductor bar system to protect the conductor bar and at the same time allow the current collector to pass smoothly through the turnout, lift section and other locations. It can also be installed with power supply terminals.



KU12DC

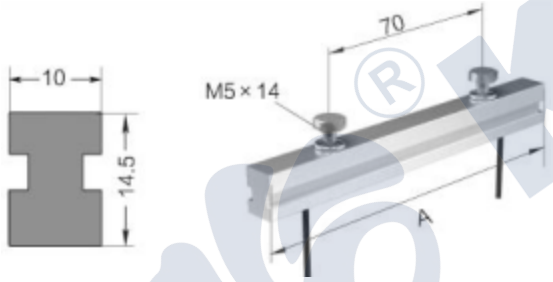


KU12DCS

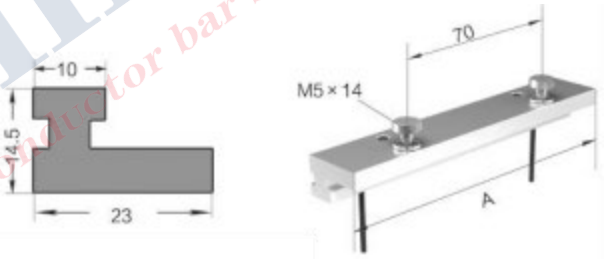
Model	Weight (kg)	Including	Material	No.
KU12DC	0.006	Straight turnout end cap	plastic	201021081
KU12DC1	0.011	Straight turnout end cap +1 power feed clip	Plastic & copper	201021082
KU12DCS	0.004	Beveled turnout end cap	plastic	201021083
KU12DCS1	0.012	Beveled turnout end cap +1 power feed clip	Plastic & copper	201021084

➢ Fixing Bar for Turnout End Cap

It can be connected to the conductor bar by screwing on the screws, includes 1 aluminum rod, 2 hexagonal screws M5 with washers, 2 safety pins (2 x 20).

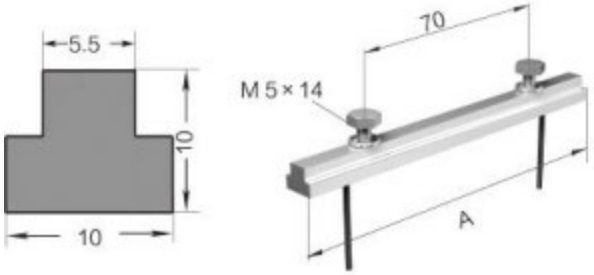


KU12GDG1 for straight tracks



KU12GDG2 for oblique tracks

Model	Poles	A\mm	Weight(kg)	No.
KU12GDG1	1-8	118	0.042	201021091
KU12GDG1-1	1-10	143	0.052	201021092
KU12GDG2	1-8	118	0.087	201021093
KU12GDG2-1	1-10	143	0.102	201021094
KU12GDG3	1-8	118	0.024	201021095
KU12GDG3-1	1-10	143	0.029	201021096



KU12GDG3

It is used to connect right-angle/swivel/flush mounting brackets for quick installation.

➢ Fixation Clamp

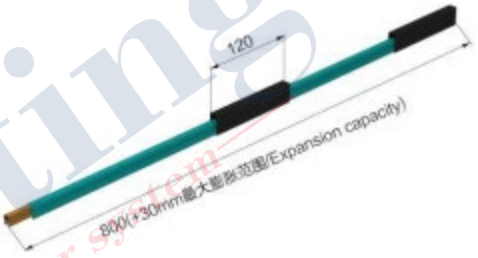
For each fixing point, the conductor bar needs two fixation clamps and one bolted hanger.

Model	Weight (kg)	Material	No.
KU12GDJ	0.005	plastic	201021101

➢ Expansion Section

Its length (0.8m) is part of the system length.

Model	line	Cover	Weight (kg)	No.
KU12PZJ1-1	phase	Standard, green	0.256	201021111
KU12PZJ1-2	ground	Standard, green	0.256	201021112
KU12PZJ2-1	phase	High temp. gray	0.256	201021113
KU12PZJ2-2	ground	High temp. gray	0.256	201021114



➢ Joint for Connecting Cable

For the wiring of current collectors, power feed joints, turnout end caps and sectional end caps. The current collector includes 0.5m cable with quick-connect coupling 6.3 x 0.8 (Q x 2.5 or Q x 4.0). Longer connecting cables can also be ordered. Highly flexible cables are recommended.

ZH WJ RDL

Model	Cable/ϕ	No.
KZH2.5	2.5	201021121
KZH4.0	4.0	201021122
KQX2.5	2.5	201021123
KQX4.0	4.0	201021124
KRDL-2.5	2.5	201021125
KRDL-4.0	4.0	201021126

➢ Installation Tools

Bending tool

Model	Weight (kg)	No.
KW12	7.8	201021131

punch tool

Model	Weight (kg)	No.
KK12	1.76	201021132

Calculation

Please offer this information if you need our products.

Company Name:_____Contact: _____
Project: _____Address: _____
E-mail: _____Project: _____
Telephone: _____Fax: _____
Date: _____

1. Type of crane/machine to be electrified: _____
2. Voltage: _____Volts ~/=: _____ Phases: c/s: _____
3. Length of conductor system: _____
4. Number of conductors required:_____
   power lines: _____control lines: _____neutral (ground): _____
5. Indoor: _____Outdoor: _____
6. Special site conditions (humidity, dust, chemical influence etc.): _____
7. Temperature conditions: _____°C min., _____°C max.
8. Type of conductors preferably wanted: _____
9. Number and position of feeder points: _____
10. Mounting position envisaged: _____
    (prints and sketches should be submitted whenever obtainable)
11. Number of cranes / machines fed from the one system: _____
12. Ampere load of each crane / machine: _____
13. Other pertinent data:

_____
_____
_____

For curved tracks, breaks in system etc. please submit prints and sketches.

Motor (please mark run simultaneously and at the same time start the motor)	Crane 1						
	P/(KW)	Rated current			Starting current		
		A	COSϕN	%ED	A	COSϕA	Start Method
Main Hoisting							
Aux. Hoisting							
Main Traverse							
Aux. Traverse							
Main Travel							
Aux. Travel							
Slewing							
Luffing and any other Service							
The type of motor： K:Squirrel-cage motors； S:Slip-ring motors； F:Inverter motor							

Motor (please mark run simultaneously and at the same time start the motor)	Crane 2						
	P/(KW)	Rated current			Starting current		
		A	COSϕN	%ED	A	COSϕA	Start Method
Main Hoisting							
Aux. Hoisting							
Main Traverse							
Aux. Traverse							
Main Travel							
Aux. Travel							
Slewing							
Luffing and any other Service							
The type of motor： K:Squirrel-cage motors； S:Slip-ring motors； F:Inverter motor							

Contact

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For further information of KH - C rail festoon system, please contact us in the above ways.

We commit ourselves to constant improvement of our design and processing of the products.

We keep the right of perfecting the instruction book and the product design to achieve the goal.

It's important to select the suit Safe Conductor Bar for each application. Otherwise it will cause serious consequences , such as property damage or personal injury.