



KAMEDA DENKI Co.,Ltd **Catalog NO.11**_(excerpt)
Multi-angles・Switchboard materials・Wiring materials

株式会社 カメダデンキ 総合カタログ NO.11
マルチアングル・盤用資材・配線資材・エコ照明



Lighting equipment



P.6?7

Rail Socket



P.8?15

Lighting equipment

Lighting equipment

Index

Multi-Angle

Bracket

DIN rail

MINI-kanagu

Nejikku

Insulation support

High pressure insulator

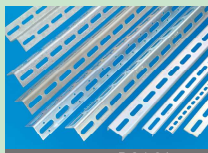
Distribution board parts

Box parts

JP EN

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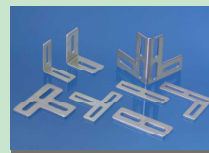
Multi-Angle



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Multi-Angle
Multi-channel
U-canag, Flat bar

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Multi-Angle
End cover

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Multi-Angle
Uni-kanagu

P.34

Multi-Angle
Uni-kanagu, Plated silver

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Bracket
L type bracket,
Triangle bracket
Channel bracket, U bolt

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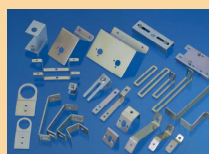
Multi-Angle
Collar, Nut, Washer
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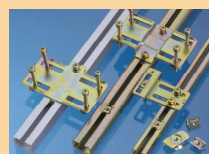
Switchboard material



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DIN Free rail system
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DIN rail cutter

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MINI-kanagu
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Duct mounting bracket

P.56-57

Nejikku
Nejikku rail, Nejikku nut,
Nejikku adapter

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Insulation support
Bar holder, KP cleat
Spacer insulator,
CBS insulator

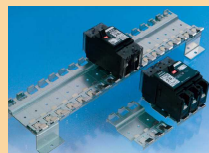
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Eco insulator, Clamp

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Distribution board parts
Main bar, Copper bar
Earth bar, Ground terminal
Green bolt, Shunt lead

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Distribution board parts
Quick support

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Distribution board parts
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breaker bracket

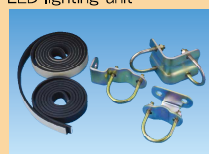
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Box parts
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LED lighting unit

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Box parts
Ventilation louver

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Box parts
High pack
Plastic drawing holder

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Box parts
Rubber sponge
Pipe clamp

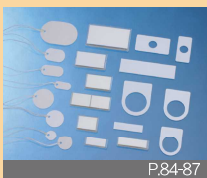
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Switchboard material



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Supporter
Supporters (iron, brass, stainless, POM, Bake)



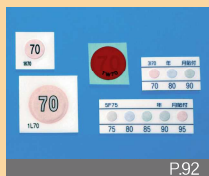
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Display parts
Card holder, Name tag
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Display parts
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Supporter

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Display parts

Wiring material



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SK binder, Band fixture



P.101

Banding band
Vinyver, Vinyver Ring



P.102

Banding band
Stainless band



P.103

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Viny-tai, Cable tie,
Vinyl string



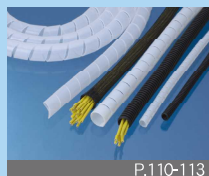
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Wiring fixture
High sticker
Wire sticker
Nylon clip



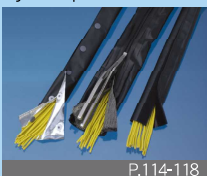
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Piping fixture
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Unity protection
Spiral tube
Corrugated tube
SF tube, Button tube



P.114-118

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Shield sleeve
Zipper tube



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Bushing
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Bushing
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Unity protection

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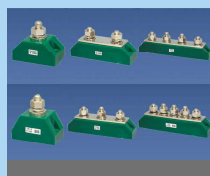
Rubber foot

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Wiring material



Terminal block
TB type terminal block



Terminal block
Terminal block, box terminal

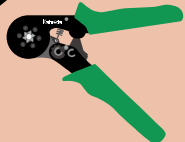


Terminal block
Multiple terminal insulating cap

Terminal block

	JP	EN
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COS sleeve (ferrule)



COS sleeve

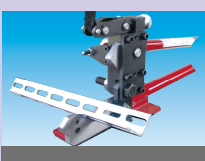
COS sleeve

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Tool



DIN rail cutter
DIN rail cutter
DIN rail nipper



Angle cutter
Angle cutter
Race way cutter



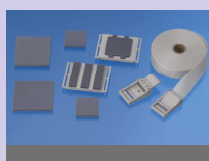
Tool
Wire case



Tool
Koterizer
Gas for exclusive use of Koterizer



Tool
Plajet
Duct nippers etc

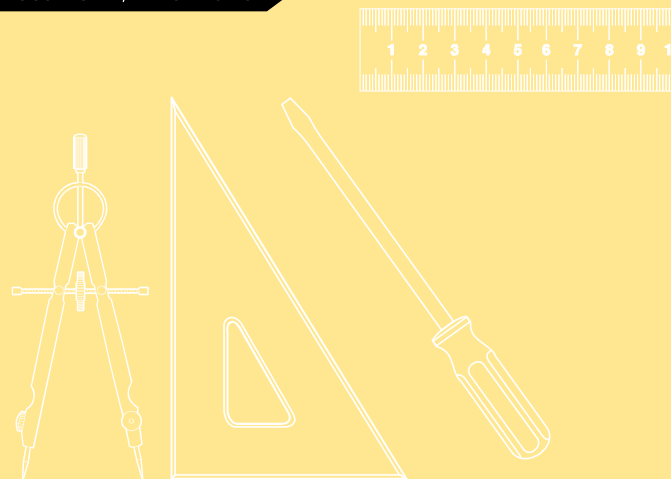


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Tool

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Technical data

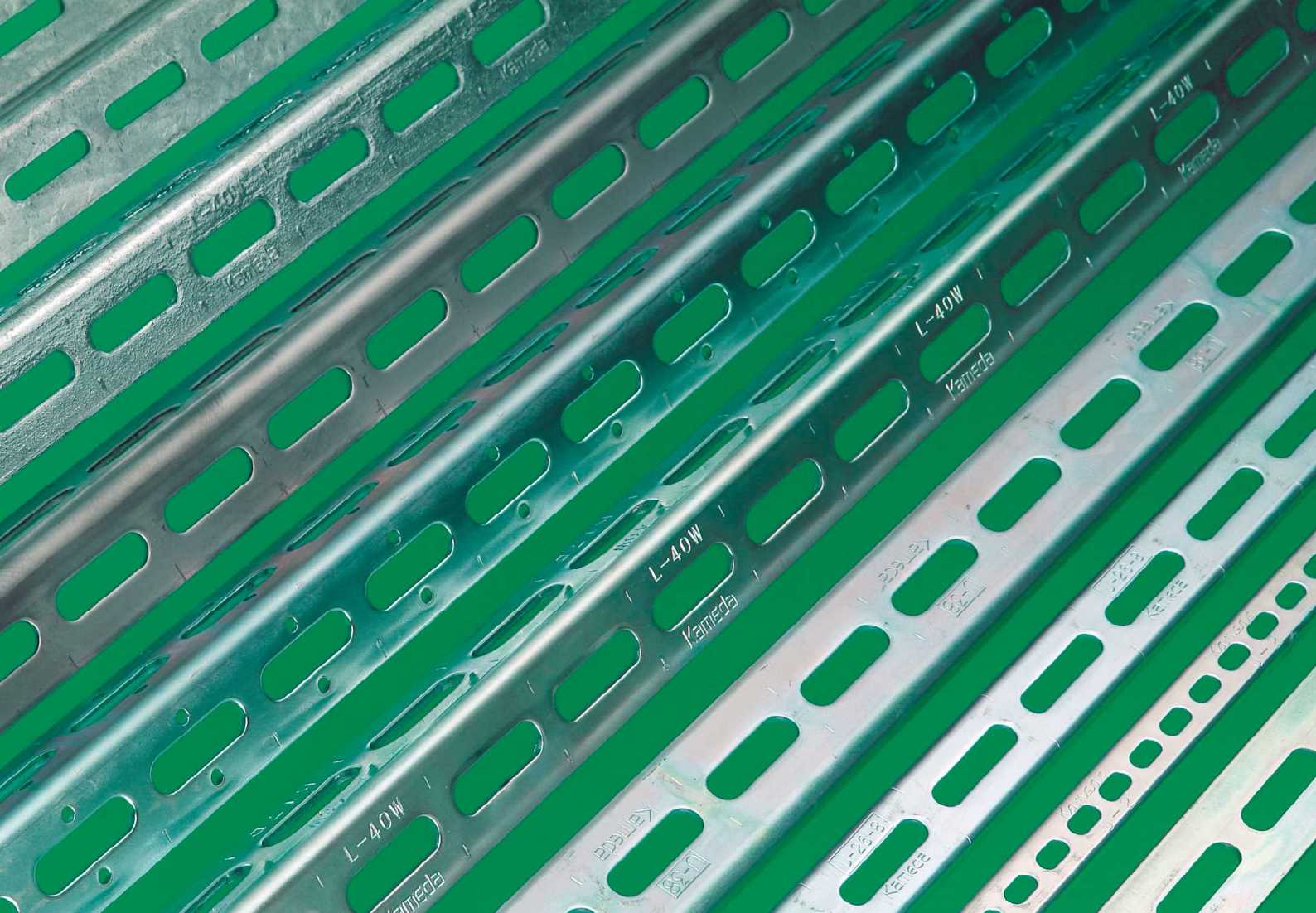
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Information



Notes on catalog usage

- Please note that product specifications are subject to change without notice.
- All the products listed in this catalog are for indoor use unless otherwise stated.
- Products listed in this catalog can not be used in salt-affected areas unless specifically stated for salt damage.
- The expiration date of this catalog is until our company publishes the latest version of this catalog or a catalog instead.
- We do not guarantee the contents even if there is any typographical error or omission in the contents of this catalog.
- This catalog is an automatic translation. Please forgive me if there is a translation mistake.



Multi Angle

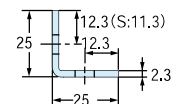
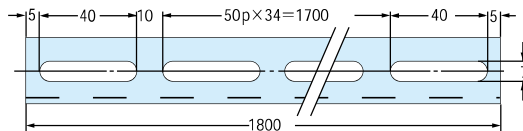
マルチアングル

Multi-angle L type

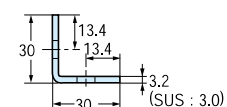
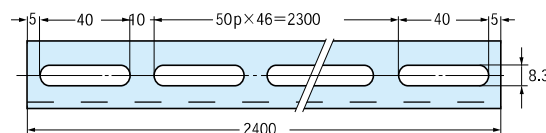
type size Single, Double, with nail holes plating, material length m
 Model number L-(25~50)(S, W, P) -(3C, UN, ZN, SUS etc)-(1.8, 2.4 etc)



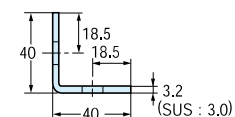
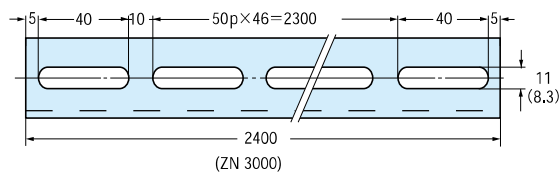
■ L-25S
 ■ L-25W



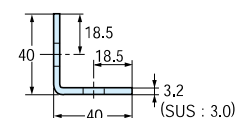
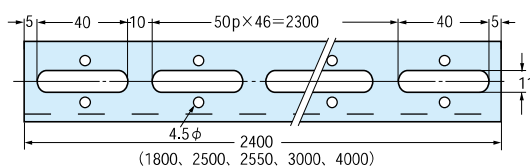
■ L-30S
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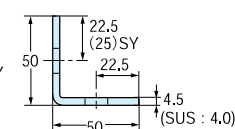
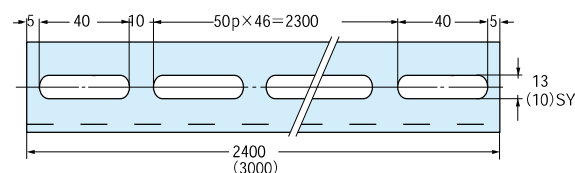
■ L-40S
 ■ L-40W
 ■ L-40S8
 ■ L-40W8 (hole 8.3)



■ L-40SP
 ■ L-40WP



■ L-50S
 ■ L-50W
 ■ L-50SY (hole 10)



L type Standard List

RoHS: ●N, ●3C, ●ZAM, ●SUS

Size	Hole	Model number	Material / finishing						Length	Width	Thickness	Hole Width	Bolt Size	Weight	Packing Quantity	Stock												
			Iron fabric	Iron trivalent	Iron bright chromate	Iron molten zinc	ZAM	Stainless steel																				
			N	3C	UN	ZN	ZAM	SUS																				
L 25	S	L-25S-N	●						1800	25	2.3	7	M6	1.3	20	○												
		L-25S-3C		●												◎												
	W	L-25W-N	●													1.1	○											
		L-25W-3C		●													◎											
L 30	S	L-30S-N	●					2400	30	3.2	8.3	M6 M8 W1/4	2.9	10	○													
		L-30S-3C		●													◎											
		L-30S-SUS								●			2.6		○													
	W	L-30W-N	●										3.2		2.4	○												
		L-30W-3C		●												◎												
		L-30W-ZN				●							○															
		L-30W-SUS								●			2.3			◎												
L 40	S	L-40S-N	●					2400	40	3.2	11	M8 M10 W3/8	3.9	5	○													
		L-40S-3C		●												◎												
		L-40S-ZN				●										◎												
	W	L-40W-N	●							3			3.1		○													
		L-40W-3C		●											◎													
		L-40W-ZN				●									◎													
		L-40W-ZN-3.0				●		3000							◎													
		L-40W-SUS						●							2400	◎												
	S8	L-40S8-3C		●				2400		3.2	8.3	M6 M8	4.1	○														
		L-40S8-ZN				●									○													
	W8	L-40W8-3C		●						3.2	8.3	M6 M8	3.6	○														
		L-40W8-ZN				●									○													
	SP	L-40SP-UN-2.4			●			2400		3.2	11	M8 M10 W3/8	4.0	3	◎													
		L-40SP-UN-2.55			●			2550							○													
		L-40SP-SUS						●							2400	◎												
		L-40WP-UN-1.8			●			1800							3.2	11	M8 M10 W3/8	2.4	○									
		L-40WP-UN-2.4			●			2400												◎								
		L-40WP-UN-2.5			●			2500												◎								
		L-40WP-UN-3.0			●			3000												◎								
		L-40WP-UN-4.0			●			4000												○								
		L-40WP-ZAM®-2.4					●	2400												3	11	M8 M10 W3/8	5.1	3	○			
		L-40WP-ZAM®-3.0					●	3000																		○		
		L-40WP-SUS-1.8						●																		1800	○	
		L-40WP-SUS-2.4						●																		2400	○	
		L-40WP-SUS-3.0						●																		3000	○	
		L 50	S	L-50S-N	●																						2400	50
	L-50S-3C-2.4				●						◎																	
L-50S-3C-3.0				●				3000	○																			
L-50S-ZN						●		2400	◎																			
L-50S-SUS-2.4								●	2400	◎																		
W	L-50W-N		●					2400	4.5	13	M10 M12	5.9	○															
	L-50W-3C-2.4			●										◎														
	L-50W-3C-3.0			●				3000						○														
	L-50W-ZN-2.4					●		2400						◎														
	L-50W-ZN-3.0					●		3000						○														
	L-50W-SUS							●						2400	◎													
	SY		L-50SY-3C		●									2400	4.5	10	M10	6.5	○									

↳ S: Single-sided hole W: Double-sided hole P: With nail hole Others: Difference in hole width

※ Please refer to P45 for the difference of material and plating.

※ The fabric is oiled on the surface,

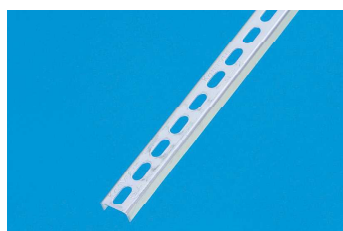
but it is easy to rust so please be careful about storage.

※ Wear work gloves etc. for handling to avoid unexpected injuries.

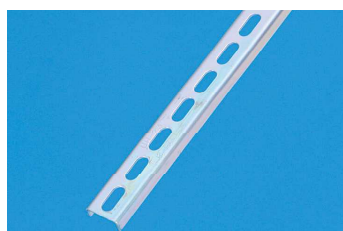
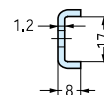
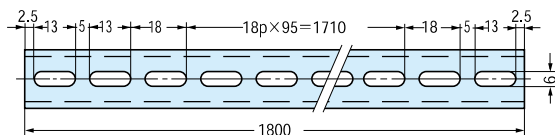
Sales unit: 1 piece (N fabric is 1 package)

U-kanagu U type

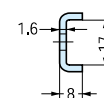
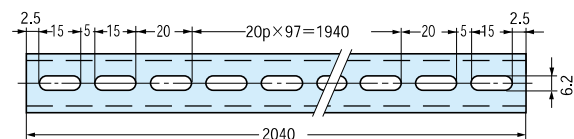
Model number type size plating, material length m
U-(1~26)- (3C, SUS etc)- (1.8, 2.4 etc)



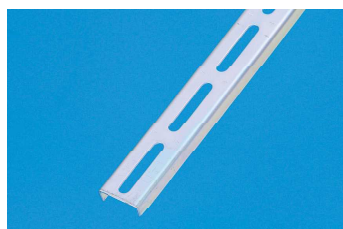
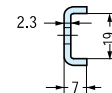
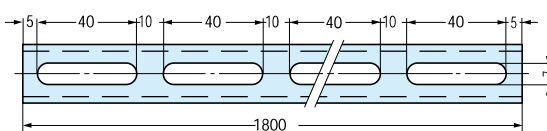
■ U - 2



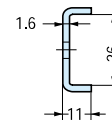
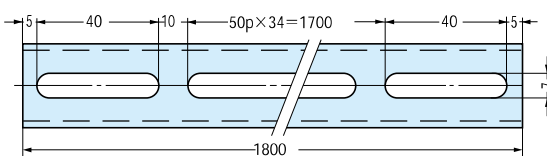
■ UH - 23



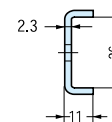
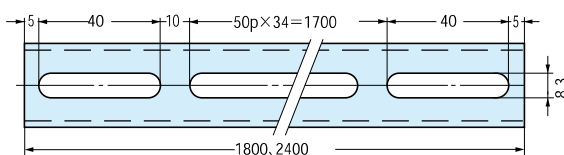
■ U - 23



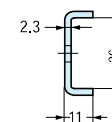
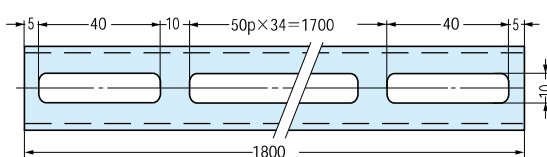
■ U - 1



■ U - 26 - 8



■ U - 26K

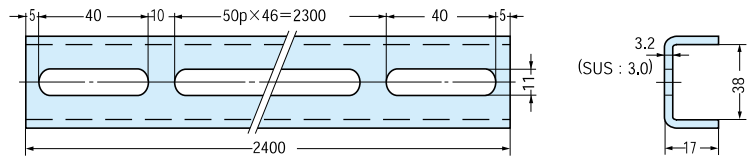


U-kanagu U type

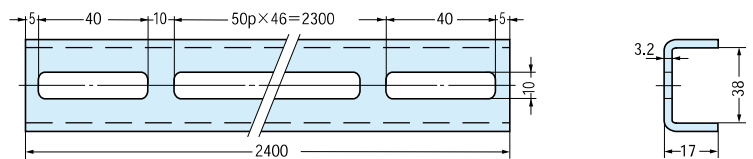
Model number type size plating, material length m
U-(38)-(3C, ZN, SUS etc)-(2.4)



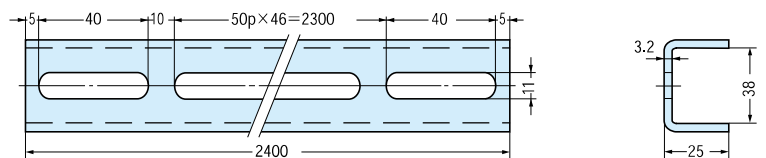
■ U - 38



■ U - 38K



■ U - 38H



U type Standard List

RoHS: ●N, ●3C, ●SUS

t y p e	width (inside) mm	Model number	Material / finishing				Length mm	Width mm	Height mm	Thick- ness mm	Hole Width mm	Bolt Size	Weight k g	Packing Quantity Pieces	Stock		
			Iron fabric	Iron trivalent	Iron molten zinc	Stainless steel											
			N	3C	ZN	SUS											
U	17	U-2-3C		●			1800	19.4	8	1.2	6	M5	0.5	20	◎		
		UH-23-3C		●			2040	20.2	8	1.6	6.2	M6	0.7		◎		
	19	U-23-3C		●			1800	23.6	7	2.3	7	M6	0.7		◎		
	26	U-1-3C		●			1800	29.2	11	1.6	7	M6	0.9		◎		
		U-26-8-N	●				1800	30.6	11	2.3	8.3	M6 M8	1.2	◎			
		U-26-8-3C		●										◎			
		U-26-8-N-2.4	●				2400						10	M10	1.2	20	◎
		U-26-8-3C-2.4		●											◎		
		U-26K-3C		●			1800				10	M10	1.2	20	◎		
	38	U-38-N	●				2400			44.4	17	3.2	11	W3/8 M8 M10	3.3	6	○
		U-38-3C		●					◎								
		U-38-ZN			●				◎								
		U-38-SUS				●		44	3.0	10		◎					
		U-38K-3C		●								○					
		U-38H-3C		●				44.4	25	3.2	11		4.4		4	○	

※ Please refer to P45 for the difference of material and plating.

※ The fabric is oiled on the surface,

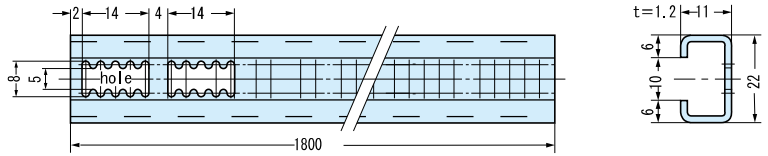
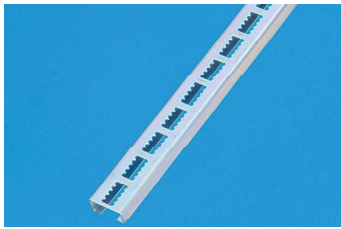
but it is easy to rust so please be careful about storage.

※ Wear work gloves etc. for handling to avoid unexpected injuries.

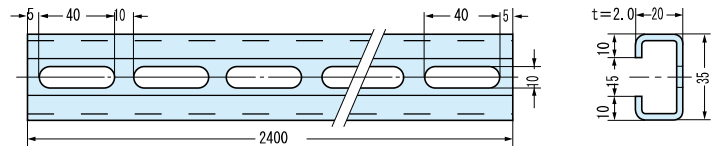
Sales unit: 1 piece (N fabric is 1 package)

Multi Channel KC type

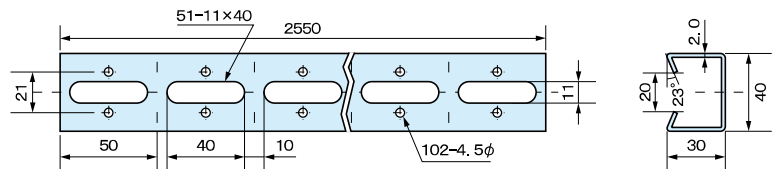
■ KC - 22S



■ KC - 35

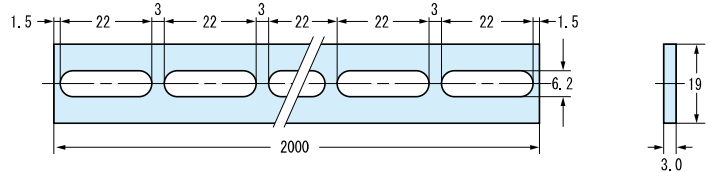
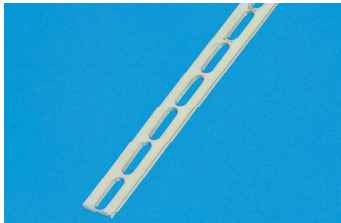


■ KC - 40PB

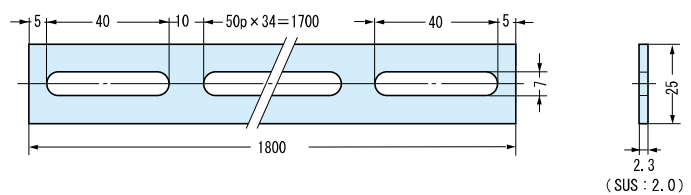
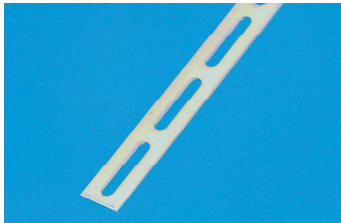


Flat bar F type

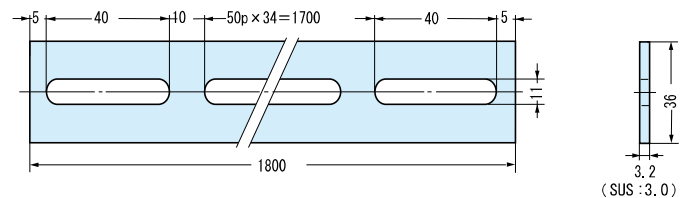
■ F - 19L



■ F - 26L



■ F - 38L



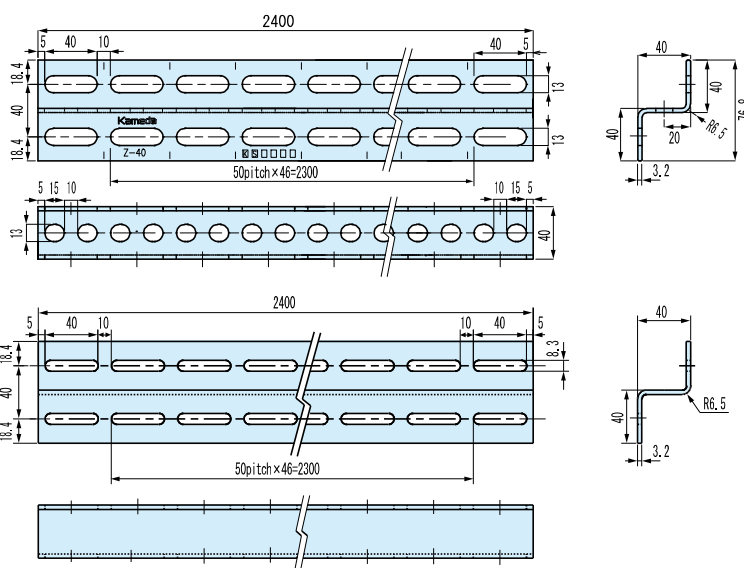
Multi Angle Z type



■ Z - 40



■ Z - 40 - 8
(hole 8.3 mm)



KC / F / Z type Standard List

RoHS: ● N, ● 3C, ● SUS

t y p e	width mm	Model number	Material / finishing					Length	Width	Height	Thick- ness	Hole Width	Bolt Size	Weight	Packing Quantity	Stock	
			Iron fabric	Iron trivalent	Galvanized steel	Iron molten zinc	Stainless steel										
			N	3C	ZK	ZN	SUS										
K C	22	KC-22S-N						1800	22	11	1.2	5	M5	0.7	20		
		KC-22S-3C															
	35	KC-35-3C						2400	35	20	2.0	10	M10	2.7	6		
	40	KC-40PB-ZK						2550	40	30	2.0	11	M10 W3/8	4.0	4		
F	19	F-19L-3C						2000	19		3.0	6.2	M6	0.6	20		
	25	F-26L-3C						1800	25		2.3	7	M6	0.6	20		
		F-26L-SUS					2.0										
	36	F-38L-3C						1800	36			3.2	11	M10	1.2	20	
		F-38L-ZN															
		F-38L-SUS										3.0					
Z	40	Z-40-3C						2400	40	76.8	3.2	13	M10 M12	4.8	3		
		Z-40-ZN															
		Z-40-8-ZN										8.3	M8	5.8			

※ Please refer to P45 for the difference of material and plating.

※ The fabric is oiled on the surface, but it is easy to rust so please be careful about storage.

※ Wear work gloves etc. for handling to avoid unexpected injuries.

Sales unit: 1 piece (N fabric is 1 package)

End cover



■ VL - 40 - GY (gray)
■ VL - 40 - WH (White)
Sales unit: 10 pieces
Inventory: ○

Multi-Angle / channel end face protection cap.

Features

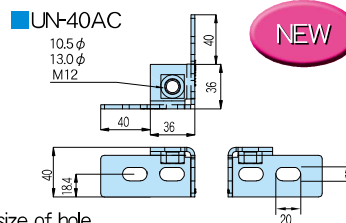
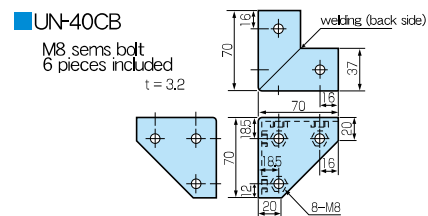
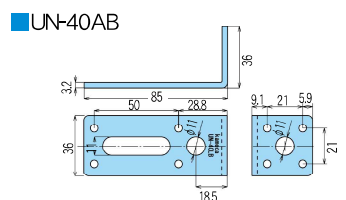
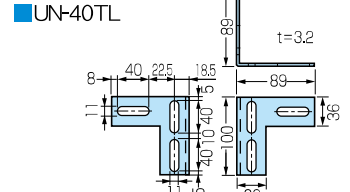
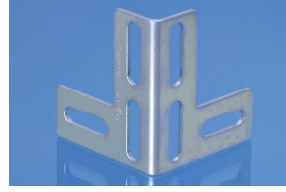
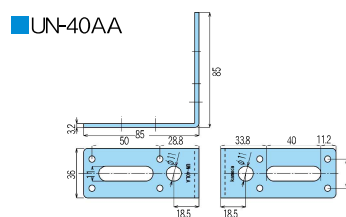
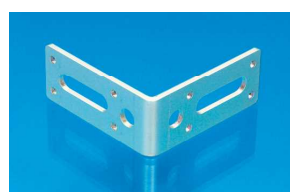
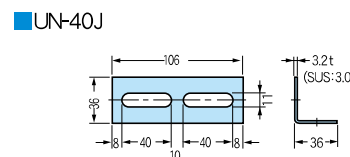
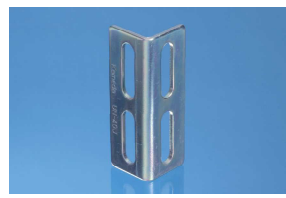
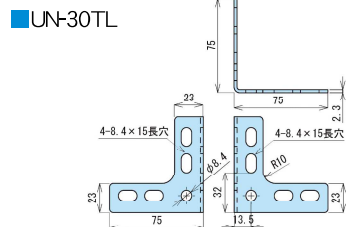
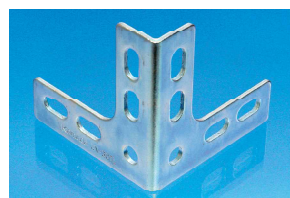
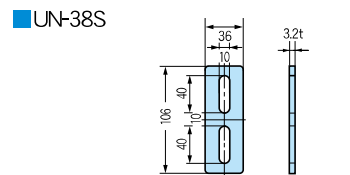
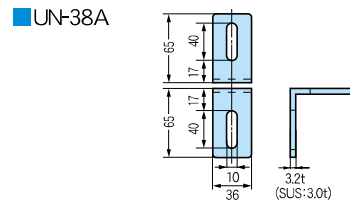
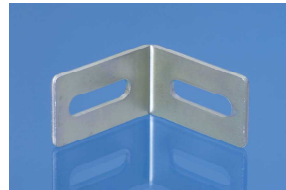
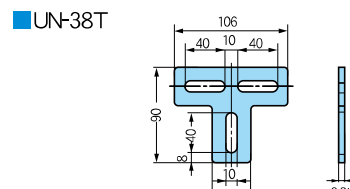
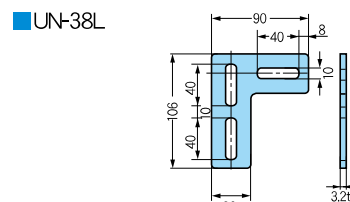
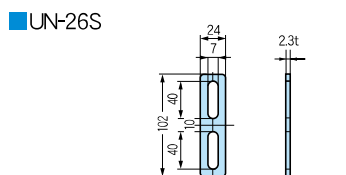
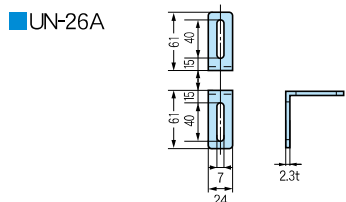
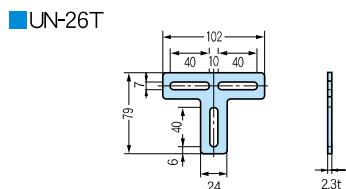
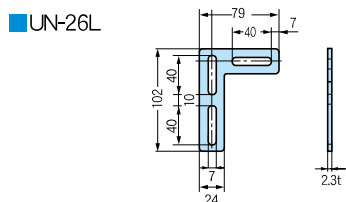
- It is made of soft PVC and can be safely protected simply by fitting it into the cut of the angle channel. Easy to install, remove and reuse.
- Apply and fix the adhesive where it is easy to touch.

Basic Specs

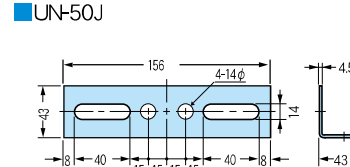
- Material: soft PVC
- Color: Black
- Sales unit: 10 pieces
- Inventory: ○

Model number	Apply	Depth (inside)	Quantity
VL-30	L-30	20 $\pm$ 0	100
VL-40	L-40		
VL-50	L-50		
VU-38	U-38		
VKC-35	KC-35	15 $\pm$ 0	
VKC-40	KC-40		

Uni-kanagu UN



NEW



※ Specification list of P33 about size of hole

Uni-kanagu UN

Example of use

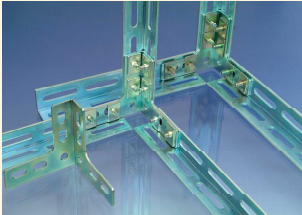
UN-26A



UN-26T



UN-30TL



L-25W·L-30W

For corner connection

※ Please use it inside.

※ Applicable bolt

L-25W···M4·M6

L-30W···M8

Recommended bolt length is 15mm or less

※ The bolt position is shifted up and down and left and right Please use it.

UN-40AA


For corner connection
In the middle connection

UN-40AB



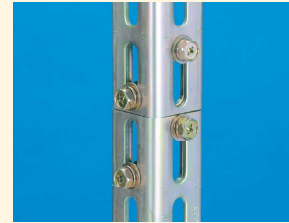
In connection with wood

UN-40AC


Adjusters and castors can be freely
adjusted in height and moved
※ Pay attention to the load capacity

NEW

UN-40J



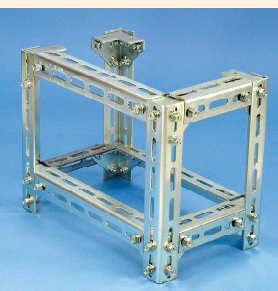
For L-40W straight connection

UN-40TL

For corner connection of L-40W



UN-40CB



Corner bracket for L-40W

UN-50J



For L-50W straight connection

※ When connecting L-50S,
be sure to use W1/2 or M12 bolts.

Connection fitting for Multi-angle, U-kanag..

特長 RoHS (3C, SUS)

● UN-26 series as fittings for U-1 and U-26, UN-38 series as fittings for U-38 and L-40, UN-40 series as fittings for L-40, when assembled in three dimensions.

We also offer sems bolts (P41) with washers for Uni-Kanag connections.

仕様

● Material: Steel plate 2.3t, 3.2t

Stainless steel SUS304 3.0t

● Surface finish: 3C trivalent

ZN molten zinc

Order number: Model number — Material / finishing

List of standards

Model number	Apply	Material / finishing			Sales unit (Pieces)
		3C iron, trivalent	ZN iron, molten zinc	SUS stainless steel	
UN-26L	U-1 U-26 L-30	○			10
UN-26T		◎			10
UN-26A		◎			10
UN-26S		◎			10
UN-38L	U-38 L-40	○	○		10
UN-38T		○	○		10
UN-38A		◎	○	○	10
UN-38S		◎	○		10
UN-30TL	L-25 L-30	○			10
UN-40AA	L-40	○			10
UN-40AB		○			10
UN-40J		○	○	○	1
UN-40TL		◎	○		1
UN-40CB		○			1
UN-50J	L-50	○	○		1

UN-40AC List of standards

Model number	Apply	Material finishing	Hole	Sales unit
UN-40AC-10	L-40	3C iron trivalent	10.5 φ	10 pic
UN-40AC- M12			M12※	10 set
UN-40AC-13			13 φ	10 pic

※ UN-40AC-M12 has body + M10 × 16 sems bolt and nut
It is a set.

※ The screw of UN-40AC-M12 is M12 × 1.75 coarse.

Bolt set



Molten zinc bolt set

Basic Specs

- Material: iron
- Surface finish: Molten zinc
- Sales unit: 1 bag Stock: ○

■ W3 / 8 bolt set

W3 / 8 x 25 Bolts	4 pcs	) Bag
W3 / 8 Nut	4 pcs	
Washers	8 pcs	



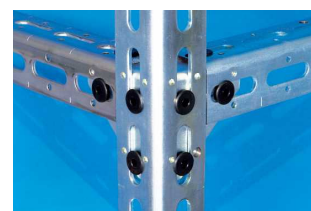
Low head bolt set **RoHS**

Low head bolt (hexagon hole) is available for L-40W.

Basic Specs

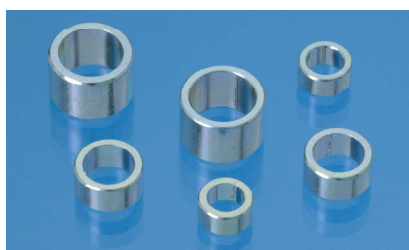
- Material: iron
- Surface finish: bolt ... black dyed, nut ... trivalent
- Sales unit: 1 bag Stock: ○

■ EH1016S M10 x 16 low head bolt 10 pcs
NO-10 square nut 10 pcs) Bag



Example of use

Collar C



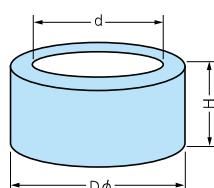
It is a reinforcing collar when tightening the U canag.

Features **RoHS**

- It is a collar for reinforcing and raising the height of parts.
- The strength is strong and it can be used as a spacer when installing equipment.

Basic Specs

- Material: STKM steel pipe
- Surface finish: 3C trivalent

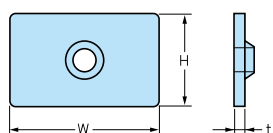


使用例



Model number	Height H	Outer diameter D	Inner diameter d	Apply	Sales unit	Stock
C1-6-3C	6.8	13.8	9.2	U-2UH-23	200	○
C1-20-3C	20.0	13.8	9.2		50	○
C2-8-3C	8.7	17.3	12.7	U-26, U-26K	100	○
C2-9-3C	9.5	17.3	12.7	U-1	100	○
C2-10-3C	10.0	17.3	12.7		50	○
C2-15-3C	15.0	17.3	12.7		50	○
C2-20-3C	20.0	17.3	12.7		50	○
C2-23-3C	23.0	17.3	12.7	U-38H	50	○
C2-25-3C	25.0	17.3	12.7	L-25	50	○
C2-30-3C	30.0	17.3	12.7	L-30	50	○
C3-14-3C	14.0	21.7	16.1	U-38	50	○
C3-50-3C	50.0	21.7	16.1	L-50	50	○

Square nut N



Apply	UH U-2 L-25	U-1 U-26 L-30	L-50
UH U-2 L-25	 N1		
U-1 U-26 L-30	 NS	 N2	
U-38 L-40		 N0	 N3

It is a square plate nut for Multi-angle, U-canag.

Features RoHS

- It does not rotate because it is matched to the inner diameter of Multi-angle U-canag. Work is easy because there is no need for a spanner from the back.
- NS, N0, N3 types can be shared in different sizes in vertical and horizontal.

Basic Specs

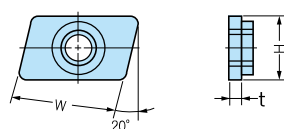
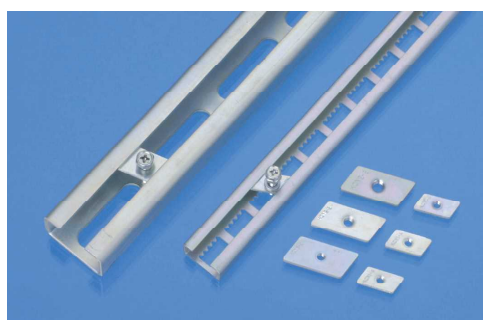
- Material: Steel plate
- Surface finish: 3C trivalent

Stock: ○

Model number	Screw size	H	W	t	Apply	Sales unit (pcs)	
N1-4-3C	M4	15	15	1.6	U-2	100	
N1-5-3C	M5				UH+23		
N1-6-3C	M6				U-23 L-25		
NS-4-3C	M4	15.5	23	1.6	U-2	100	
NS-5-3C	M5				UH+23		
NS-6-3C	M6				U-23 U-1 U-26		
N2-4-3C	M4	23	23	1.6	U-1	100	
N2-5-3C	M5				U-26		
N2-6-3C	M6				L-30		
N0-4-3C	M4	23	34	2.3	U-1 U-26 U-38 L-30 L-40	100	
N0-5-3C	M5					100	
N0-6-3C	M6						
N0-8-3C	M8			3.2		100	
N0-10-3C	M10						
N0-8B	M8			4.5		50	
N0-10B	M10						
N3-6-3C	M6	32	40	1.6	U-38 L-40 L-50	50	
N3-8-3C	M8			2			
N3-10-3C	M10			4.5			
NS-5T	M5	15	18	1.6	LK, HK	100	

※ For details on NS-5T, see P26.

Quick nut KCN



Nuts for multi-channel KC-22S, KC-35.

Features RoHS

- It can be installed from above at any position on the rail.
- It can be used for U-canag and KC channel as well as square nut.

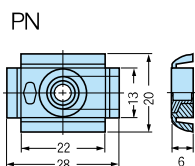
Basic Specs

- Material: Steel plate
- Surface finish: 3C trivalent

Stock: ○

Model number	Screw size	H	W	t	Apply	Sales unit (pcs)
KCN1-4-3C	M4	9.5	17	2.0	KC-22S	100
KCN1-5-3C	M5					
KCN2-4-3C	M4	14	27	2.3	KC-35	100
KCN2-5-3C	M5					
KCN2-6-3C	M6					

Punch nut PN



Drop-off preventing nut for U-kanag.

Features RoHS

- Push it into U-kanag to use. It won't fall off when you release your hand, so it's suitable for work where it's hard to reach.

Basic Specs

- Material: PP

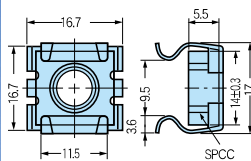
Screw ... iron

Sales unit: 100 pcs

Stock: ○

Model number	color	screw size	Apply
PN-4-3C	black	M4	U-1
PN-5-3C	gray	M5	U-26

Snap nut SPN



Drop-off preventing nut for Multi-angle.

Features RoHS

- It is a nut attached to the inside of Multi-angle long hole. It can be used for any Multi-angle long hole with a width of 10 to 11 mm.

Basic Specs

- Material: Spring steel plate

Iron square nut

- Surface finish: 3C

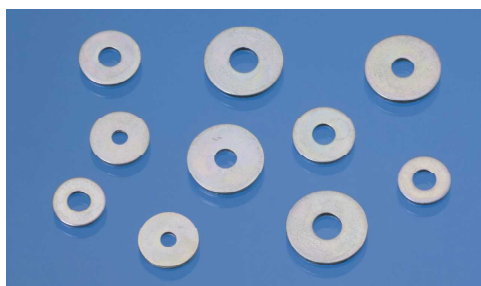
Trivalent

Sales unit: 100 pcs

Stock: ○

Model number	screw size	Apply
SPN-5-3C	M5	U-38
SPN-6-3C	M6	U-38H
SPN-8-3C	M8	L-40S
		L-40W

Flat washer W



Washer for Multi-angle, U-kanag.

Features RoHS

- Use when the bolt diameter is smaller than the hole diameter of Multi-angle, U-kanag.
- A large and durable washer with an outer diameter.

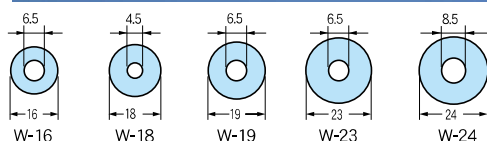
Basic Specs

- Material: Steel plate

- Surface finish: trivalent

Sales unit: 100 pcs

Stock: ○



Model number	Outer diameter	Inner diameter	Thickness	Apply
W-16-3C	16	6.5	1.6	Use M6 bolt for U-26, L-30
W-18-3C	18	4.5	1.6	Use M4 bolt for U-26
W-19-3C	19	6.5	1.6	Use M6 bolt for U-26, L-30
W-23-3C	23	6.5	2.0	Use M6 bolt for U-38, L-40, L-50
W-24-3C	24	8.5	2.0	Use M8 bolt for L-50

Washer built-in screw B



A washer built-in screw for Multi-angle, U-kanag.

Features RoHS

- Work is easy and parts management is easy.

Basic Specs

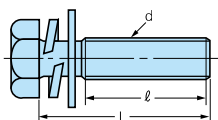
- Material: iron

- Surface finish: trivalent

Sales unit: 50 pcs

(25 pcs B10-35)

Stock: ○



Model number	screw d	length L	effective length ℓ
B8-15-3C	M8	15	8
B8-20-3C		20	14
B8-25-3C		25	18
B8-30-3C		30	23
B8-35-3C		35	28
B10-20-3C	M10	20	10
B10-25-3C		25	15
B10-30-3C		30	20
B10-35-3C		35	25

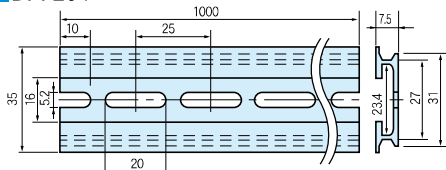


Panel Assembly System 盤用資材

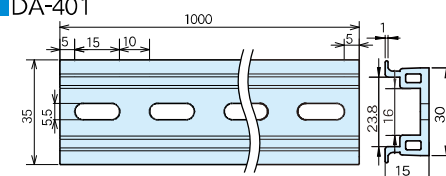
DIN RAIL (Aluminum Model) STRONG



DA-201



DA-401



Multifunctional reinforced DIN rail with rotating nut inside.

Features RoHS

- Parts can be attached to the rail center by inserting a free nut inside.
(DA-201) ※ Square nuts NS, N2 and N0 (page 40) can also be used.
- Parts not compatible with DIN rail can also be mounted on the same rail.
(DA-201)
- The DIN rail type terminal block and the small terminal block (TOGI RT series) can be mounted on the same rail. (DA-201)
- By using an AC base or NF base, all parts can be mounted.
- The DA-401 is a super-strong type, and large parts can be mounted stably. It has high torsional strength and can be mounted directly on the rack without an intermediate plate.

Basic Specs

- Material: Aluminum alloy alumite finish
- Sales unit : 10

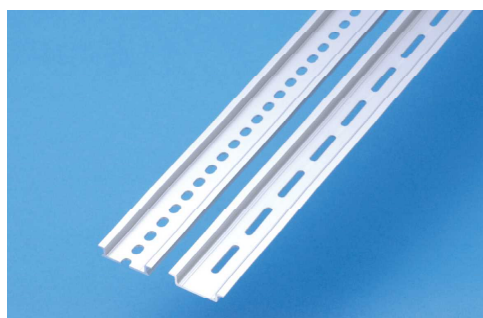
Stock : ○

Model number	length(mm)	weight (g)	Number of boxes (Pieces)
DA-201	1,000	249	50
DA-401	1,000	444	40

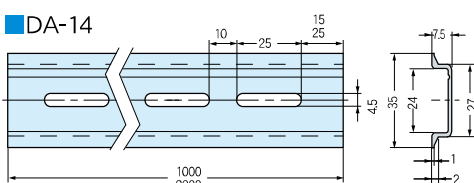
Example of use



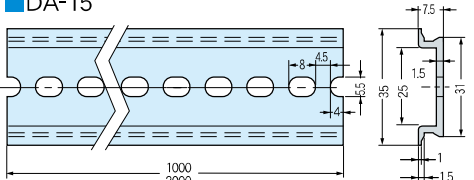
DIN RAIL (Aluminum Model) STANDARD



DA-14



DA-15



It is a general purpose DIN rail. Most manufacturers' controls can be installed.

Features RoHS

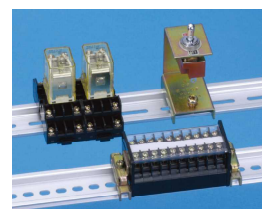
- As it is made of aluminum, it is lightweight and easy to handle, and the finish is also good.
- It is easy to cut and there is no need to cut off the cross section.
- It is possible to mount any part that complies with DIN standard rails regardless of the manufacturer.
- Parts and terminal blocks can be freely installed and removed at any position on the rail, allowing for flexibility in design changes and circuit additions.
- Parts not compatible with DIN rail can also be attached using attachment canags such as NF base.

Basic Specs

- Material: Aluminum alloy, anodized finish
- Sales unit : 10
- Stock : ○

Model number	length(mm)	weight (g)	Number of boxes (Pieces)
DA-141	1,000	156	100
DA-142	2,000	332	60
DA-151	1,000	170	100
DA-152	2,000	334	60

Example of use

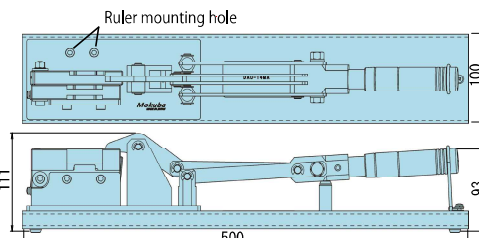


DIN rail cutter DAC series

Well-cut, lightweight cutter for aluminum DIN rails.



Ruler sold separately
■ DACS-50



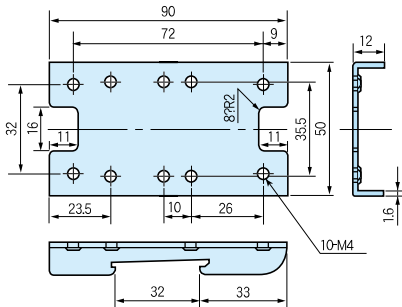
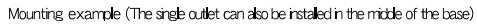
■ DAC-14MA

Applicable rail	Cut surface
DA-14series	

■ DAC-15MA

Applicable rail	Cut surface
DA-15series	

AC Base For DIN RAIL installation S-21

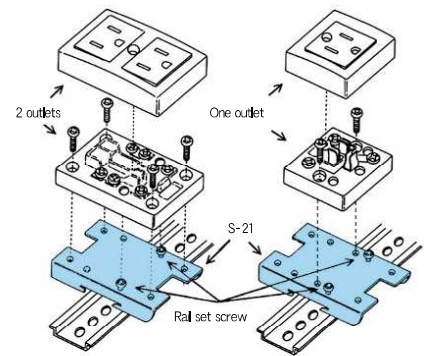
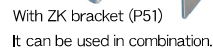


Features RoHS

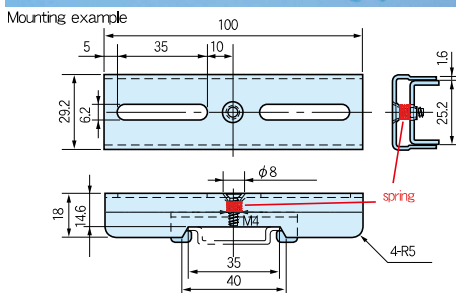
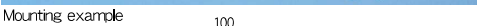
- Compatible outlets are Panasonic's WK3001W (1 port) and WK3004W (2 port). One and two outlets are shared ※ outlet is sold separately
- Even after installing the outlet, turn the rail set screw (remove the cover on the 2nd port), so you can adjust the left and right position easily.
- There is no need to cut the notch of the outlet because the cable insertion port is provided.

Basic Specs

- Material: Steel sheet 1.6t
- Surface finish: 3C trivalent chromate



NF Base For DIN RAIL installation S-22



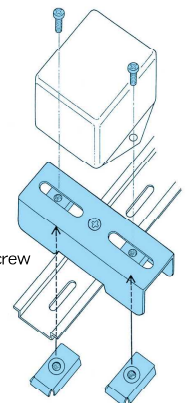
A base for mounting noise filters, capacitors, stabilized power supplies, resistors, sequencers, etc. on a DIN 35 mm rail.

Features RoHS

- For installation of the device, the device with a mounting pitch of 25 mm to 85 mm (S-22-3: 39 to 73 mm) can be freely screwed with the attached slide nut.
- If two NF bases are used, four-point stop equipment can also be mounted.
- Mounting to a DIN rail is easily and securely fixed with one screw.
- It comes with a spring, making it easy to mount on a DIN rail.

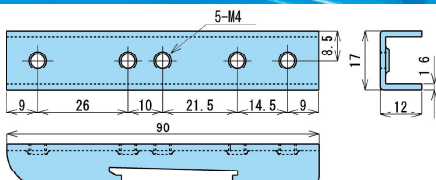
Basic Specs

- Material: Steel sheet 1.6t
- Surface finish: 3C trivalent chromate



accessories
Equipment mounting screw
Washer
Punch nut ※
※ S-22-3 is
Screw nut
2 each

Mini Base For DIN RAIL installation S-23



A base for mounting parts and devices on a DIN 35 mm rail.

Features RoHS

- Screw parts and devices onto the mini base.

Basic Specs

- Material: Steel sheet 1.6 mm trivalent chromate finish

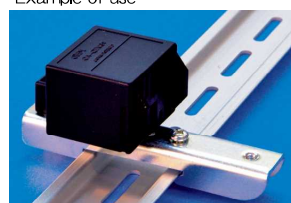
Example of use

■ S-23-4-3C

For M4 screw

Sales unit : 2 pieces

Stock : ○



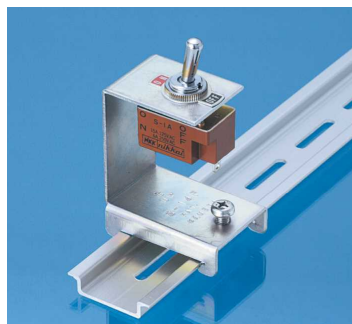
Screw the part



Combination with ZK bracket

Switch mounting table S-14F

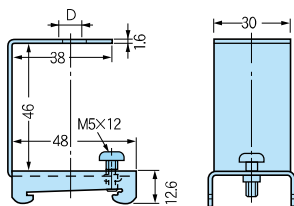
Design registered



Mounting example

- S-14F-9-3C
- S-14F-13-3C

DIN rail mounted toggle switch base



It is a convenient mounting can for mounting volume and various switches independently in switchboards, control boards, and control boards.

Features RoHS

- The S-14F can be mounted anywhere on the DIN rail.

Basic Specs

- Material: steel plate 1.6t
- Surface finish: 3C trivalent chromate

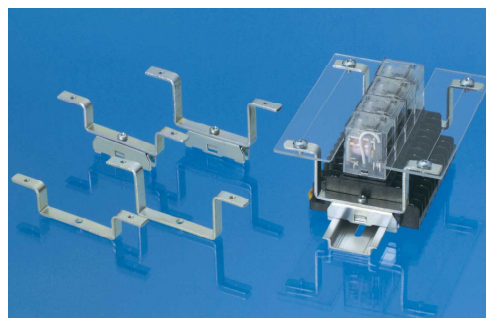
Sales unit : 1 piece

Stock : ○

(unit : mm)

Model number	Mounting hole diameter Dφ	Application
S-14F-9-3C	9	toggle switch volume
S-14F-13-3C	13	

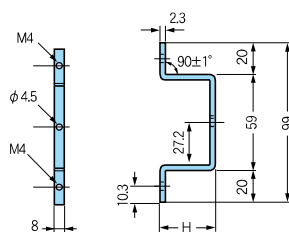
Protective cover stay S-19



Mounting example

For terminal protection cover, see P120.

A mounting bracket for mounting a terminal protective cover such as a relay on a DIN rail.



Features RoHS

- The protective cover can be easily attached by tightening the terminal block clamps together.
- For stoppers, please use the commercial products of each terminal block manufacturer.
- There are two heights, 20mm and 35mm.

Basic Specs

- Material: Steel plate 2.3t
- Surface finish: 3C trivalent chromate

■ S-19-20-3C (H=20)

■ S-19-35-3C (H=35)

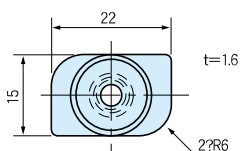
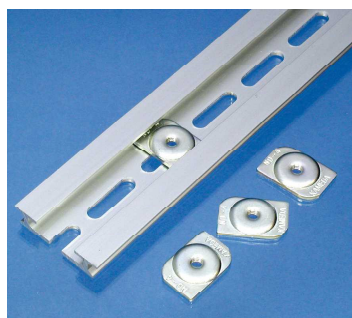
■ S-19-20K-3C (H=20 With stopper)

■ S-19-35K-3C (H=35 With stopper)

Sales unit : 10 pieces

Stock : ○

Free nut ND



This is a dedicated nut for DA-201, and it is easy to respond to the addition or change of parts after mounting other equipment.

Features RoHS

- It can be inserted from anywhere on the rail, and parts can be fixed anywhere.
- It has a special shape and strength not found in conventional plate nuts.

Basic Specs

- Material: Steel plate
- Surface finish: trivalent chromate

With spring

■ NDS-3-3C (M3)

■ NDS-4-3C (M4)

■ NDS-5-3C (M5)

■ ND-3-3C (M3)

■ ND-4-3C (M4)

■ ND-5-3C (M5)

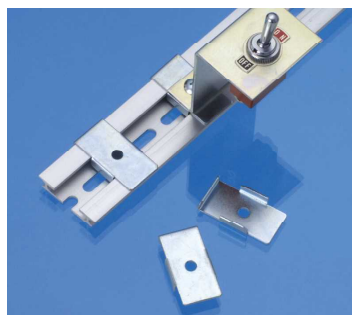
Sales unit: 100 pieces Stock: ○

Sales unit: 50 pieces Stock: ○

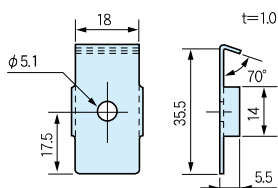
Convenient for vertical use
Spring Nut



Free washer W



Mounting example



This is a washer to prevent the feet of parts from falling into the groove of the rail when attaching parts to the DA-201.

Features RoHS

- Just put it on the rail and it won't fall.
- Use with free nut ND or square nut NS.
- The movement to the left and right can be done easily by holding the nut and moving at the same time.

Basic Specs

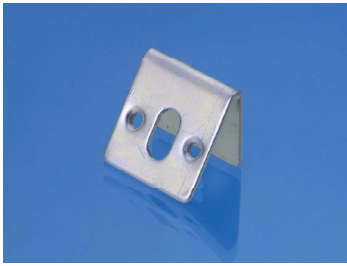
- Material: Steel plate
- Surface finish: trivalent chromate

■ W-201-3C

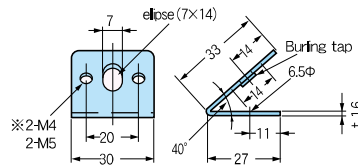
Sales unit: 100

Stock : ○

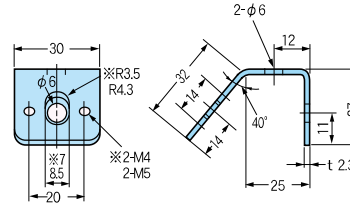
Terminal block mounting bracket S



■KS-1T-4-3C※ (M4)
■KS-1T-5-3C (M5)



■S-1-4-3C※ (M4)
■S-1-3C (M5)



Auxiliary fitting for mounting the terminal block at an angle.

Features RoHS

- The M4 type has been added to the KS-1T. There are 2 screw holes and can be attached by connecting 2 terminal blocks.

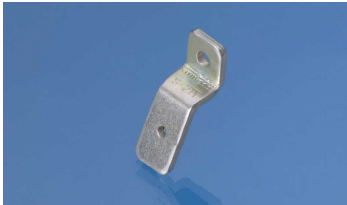
Basic Specs

- Material: Steel plate
- Surface finish: 3C trivalent chromate

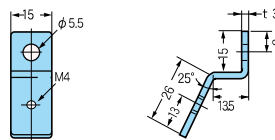
Sales unit: 50 pieces (KS-1T)

10 pieces (S-1)

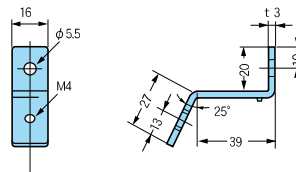
Stock : ○



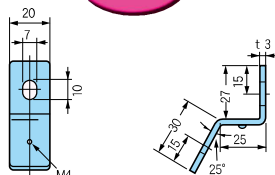
■S-2M-3C



■S-2-3C



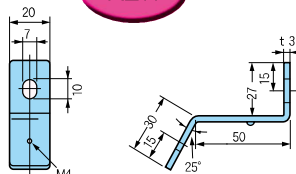
■S-3-25



NEW



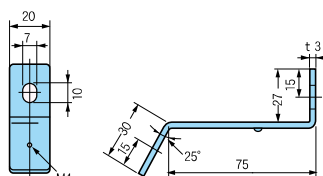
■S-3-50



NEW



■S-3-3C



Features RoHS

- The most popular terminal block Kanag. The terminal block can be installed in a step-like manner by combining S-2M, S-2 and S-3.
- It is easy to use with a 25 ° incline and no-corner shape.

Basic Specs

- Material: Steel plate t = 3.0
- Surface finish: 3C trivalent chromate

Sales unit: 50 pieces (S-2M)

10 pieces (S-2, S-3-25, S-3-50, S-3)

Stock : ○

使用例

KS-1T

S-1

S-2M

S-2

S-3



Terminal block mounting bracket JK



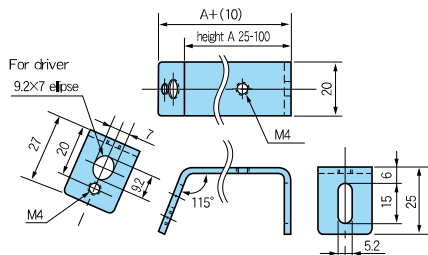
Space-saving terminal block support bracket.

Features RoHS

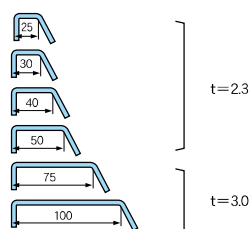
- It is space-saving design that allows the terminal block to be easily mounted even in narrow places.
- The inclination is 25°, which is easy to use.
- The center of the terminal block rail and the center of the mini-kanag mounting screw are on the same line, simplifying the design.
- The height is abundant with 6 types from 25mm to 100mm.

Basic Specs

- Material: Steel plate $t = 2.3$, $t = 3.0$
- Surface finish: 3C trivalent chromate



- JK-425-3C
- JK-430-3C
- JK-440-3C
- JK-450-3C
- JK-475-3C
- JK-4100-3C



Sales unit: 10 pieces

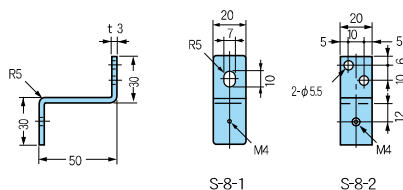
Stock : ○



Mounting bracket S



- S-8-1-3C
- S-8-2-3C



Install parallel to the mounting surface
It is an auxiliary Kanag for.

Features RoHS

- A new mounting hole has been added to make it easier to use.

Basic Specs

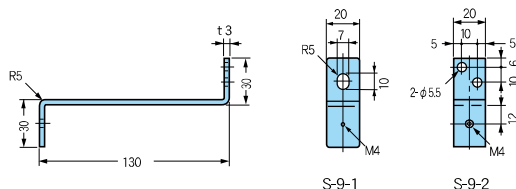
- Material: Steel plate $t = 3.0$
- Surface finish: 3C trivalent chromate

Sales unit: 10 pieces

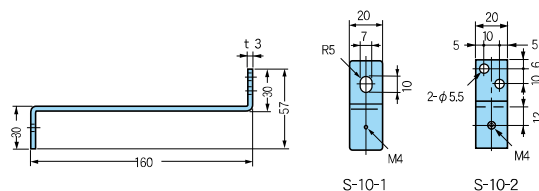
Stock : ○



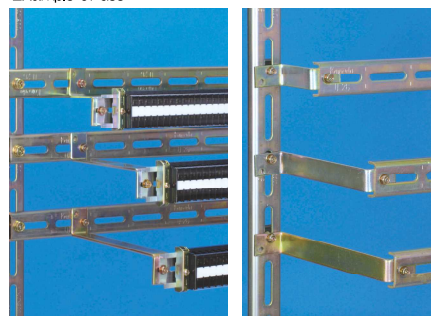
- S-9-1-3C
- S-9-2-3C



- S-10-1-3C
- S-10-2-3C



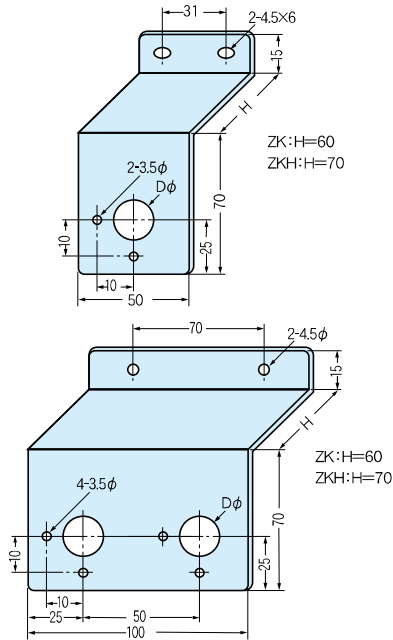
Example of use



Switch mounting base ZK ZKH



Mounting example



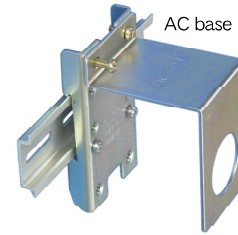
It is a convenient mounting style for mounting various switches and volumes independently.

Features RoHS

- There are 5 types of switch mounting holes: 9φ, 13φ, 22φ, 25φ and 30φ, which can be used to mount all switches and volumes.
- Each size is available for one or two, and can be combined to accommodate three or more multiple installations.
- The switch mounting surface is wide enough to facilitate mounting of the display nameplate.
- Since 9φ and 13φ are provided with small holes at the 0° and 90° positions for anti-rotation, they can be used in both vertical and horizontal positions.

Basic Specs

- Material: Steel sheet 1.6t
- Surface finish: 3C trivalent chromate
- Sales unit: 10 pieces
- Stock : ○



AC base (P46) installation example

- One unit can be mounted on a DIN rail using S-21.

	Model number (H=60)	Model number (H=70)	D φ	Lock hole	Use
For one hole	ZK-091-3C	—	9	3.5	Volume
	ZK-131-3C	—	13	3.5	Volume, toggle switch
	ZK-221-3C	ZKH-221-3C	22.5	—	22 φ Switch, lamp
	ZK-251-3C	—	25.5	—	25 φ Switch, lamp
For 2 holes	ZK-301-3C	ZKH-301-3C	30.5	—	30 φ Switch, lamp
	ZK-092-3C	—	9	3.5	Volume
	ZK-132-3C	—	13	3.5	Volume, toggle switch
	ZK-222-3C	—	22.5	—	22 φ Switch, lamp
	ZK-252-3C	—	25.5	—	25 φ Switch, lamp
	ZK-302-3C	—	30.5	—	30 φ Switch, lamp

(mm)

Switch mounting table S-14

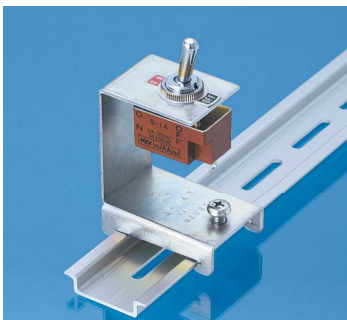
Design registered



■ S-14-3C

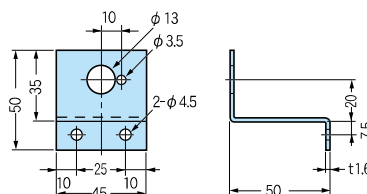
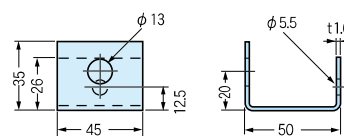


■ S-14Z-3C



■ S-14F-9-3C

■ S-14F-13-3C



It is a convenient bracket for mounting the volume and various switches independently in the switchboard and control panel.

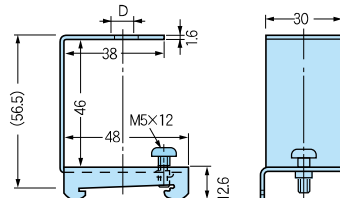
Features RoHS

- S-14 is space saving type.
- S-14Z is a Z type that is easy to retrofit.
- S-14F can be mounted anywhere on the DIN rail.

Basic Specs

- Material: Steel sheet 1.6t
- Surface finish: 3C trivalent chromate
- Sales unit: 10 pieces (S-14F is 1 piece)
- Stock : ○

DIN rail mounted toggle switch stand

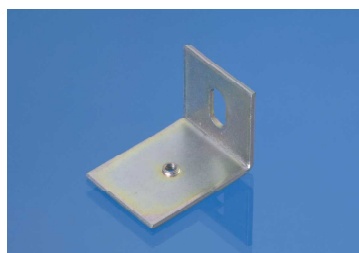


Model number	D φ	Use
S-14-3C	13	volume Toggle switch
S-14Z-3C	13	
S-14F-9-3C	9	
S-14F-13-3C	13	

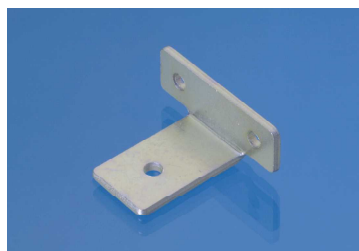
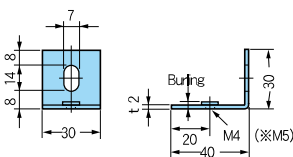
(mm)

※取付例

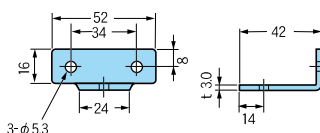
Duct mounting bracket Connection fitting S



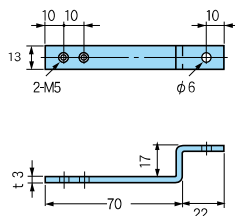
■ S-4-3C
■ S-4-5-3C※



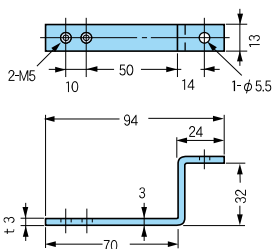
■ S-5-3C



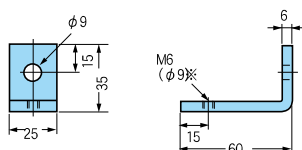
■ S-6-3C



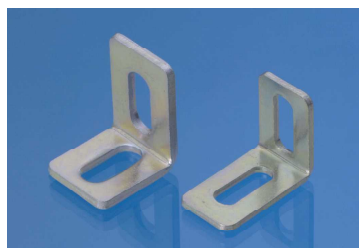
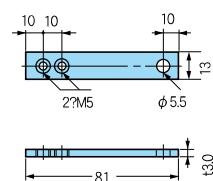
■ S-6B-3C



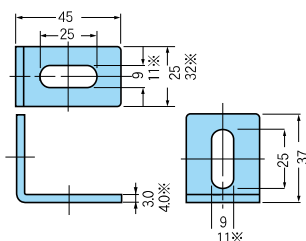
■ S-11-3C
■ S-11B-3C※



■ S-13-3C



■ S-20-25-3C
■ S-20-32-3C※



A series of brackets that are useful for supporting ducts, wiring, small parts, etc.

Features RoHS

- Since all metal fittings have tapped holes for component mounting (except S-5), no nut is required.
- S-11 and S-11B are used to connect U-1 and U-26 at right angles.
- S-20-25, S-20-32 are durable right-angle fittings. Please use it for fixing heavy items.

Basic Specs

- Material: Steel plate
- Surface finish: 3C trivalent chromate
- Sales unit: 10 pieces
- Stock : ○



Example of use

S-4



Example of use

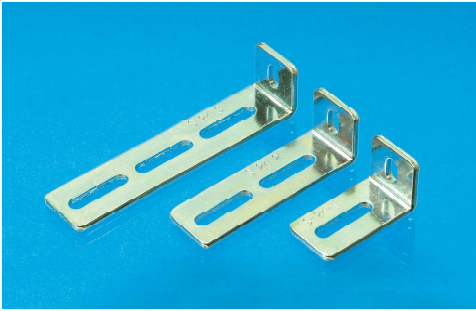
S-6B



Example of use

S-11

Auxiliary bracket S-24



Auxiliary fittings such as ducts, wiring, accessories, and connections.

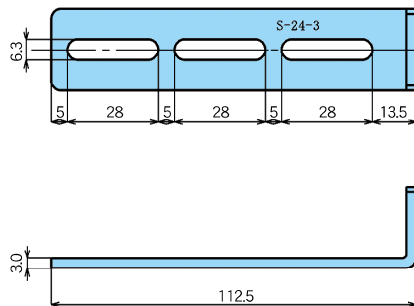
Features RoHS

- You can choose from 3 sizes according to the application.

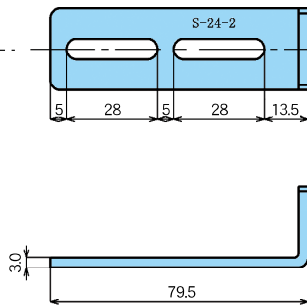
Basic Specs

- Material: Steel plate
- Surface finish: trivalent chromate
- Sales unit: 10 pieces
- Stock : ○

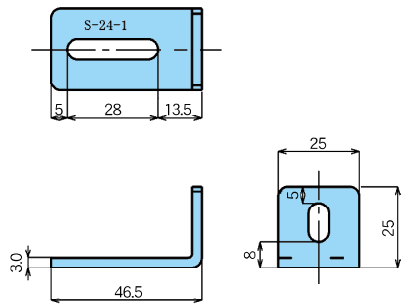
■ S-24-3-3C



■ S-24-2-3C



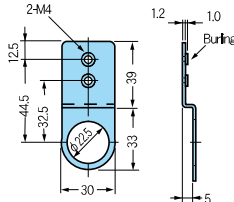
■ S-24-1-3C



Duct mounting bracket S-18



■ S-18-22-3C



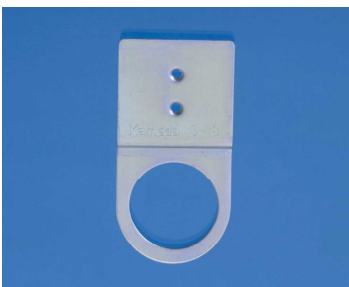
A bracket for mounting the wiring duct on the back of the control panel.

Features RoHS

- Fix the duct by inserting the bracket into the pilot lamp and the operation switch, so you do not have to set up the stud bolt.
- There are 3 types for 22φ, 25φ and 30φ.

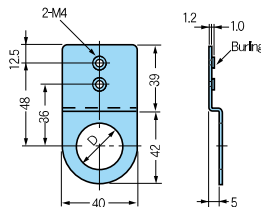
Basic Specs

- Material: Steel plate $t = 1.2$
- Surface finish: 3C trivalent chromate
- Sales unit: 10 pieces
- Stock : ○



■ S-18-25-3C

■ S-18-30-3C



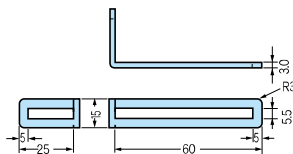
S-18-25 D=φ26
S-18-30 D=φ31



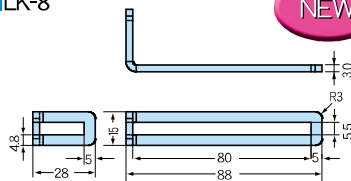
Example of use

Auxiliary bracket LK, HK

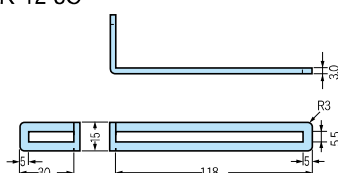
■ LK-6-3C



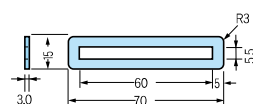
■ LK-8



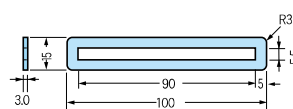
■ LK-12-3C



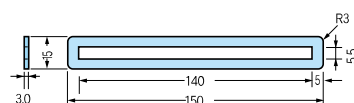
■ HK-7-3C



■ HK-10-3C



■ HK-15-3C



Please use it freely to support wiring ducts and small parts.

Features RoHS

- Since the hole is grooved, positioning can be done freely.
- If bending process is added, it can cope with difficult installation.

Basic Specs

- Material: Steel plate $t = 3$
- Surface finish: 3C trivalent chromate

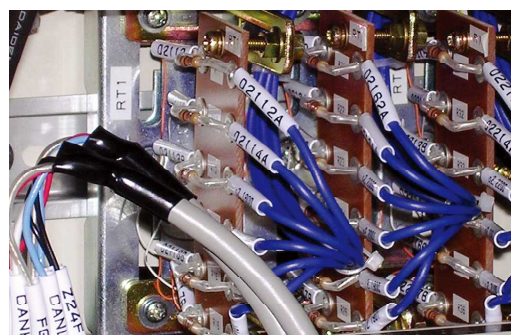
Sales unit: 10 pieces

Stock : ○



Example of use

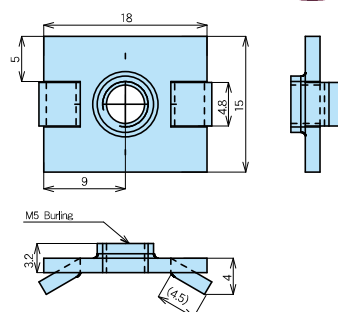
LK-6



Board mounting example

LK-6

■ NS-5T



It is a locking nut with a protruding feature.

Features RoHS

- By inserting the protruding part when installing LK・HK, it prevents idling.

Basic Specs

- Material: Steel plate $t = 1.6$

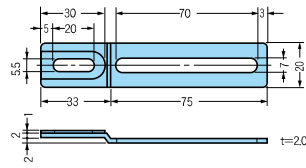
Sales unit: 100 pieces

Stock : ○

MINI QUICK KS



■KS-11-3C



Auxiliary fitting used in combination with channel KC-22S.

Features RoHS

- It is convenient for adjusting the dimensions and height.
- The KS-14 can be easily fixed using a push mount tie.

Basic Specs

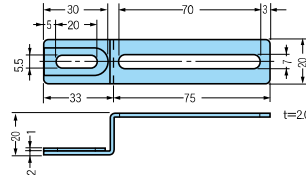
- Material: Steel plate $t = 2$
- Surface finish: 3C trivalent chromate

Sales unit: 50 pieces

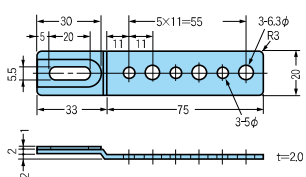
Stock : ○



■KS-12-3C



■KS-14-3C



Example of use



KS-14

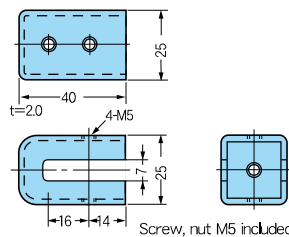
Example of use

KS-11

QUICK HOLDER KH



■KH-1-3C



It is a metal fitting which inserts a duct and parts by inserting in a board part.

Features RoHS

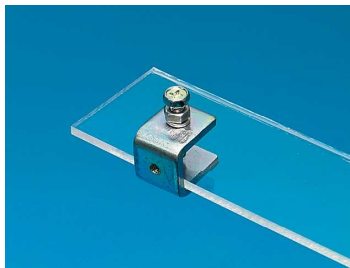
- It can be fixed with one screw and does not require drilling.
- The KH-65 and KH-100 can also be directly fixed to the wire with a binding band.

Basic Specs

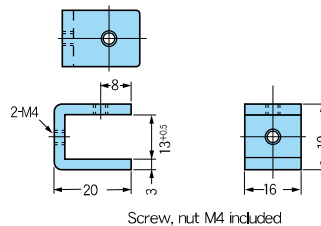
- Material: Steel plate
- Surface finish: 3C trivalent chromate

Sales unit: 10 pieces

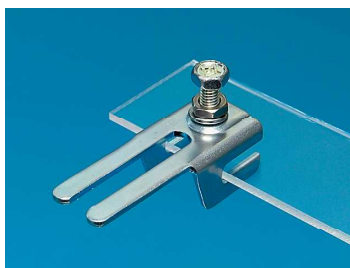
Stock : ○



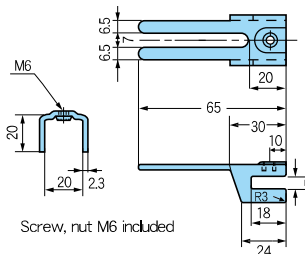
■KH-4-3C



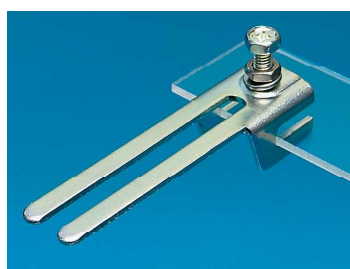
With insulation coating
(Made to order)



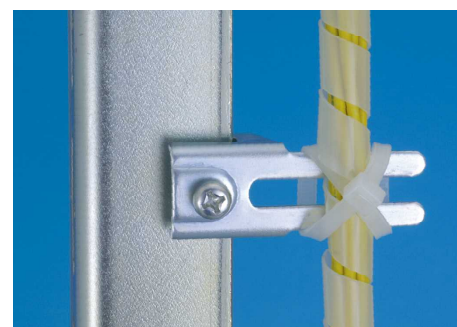
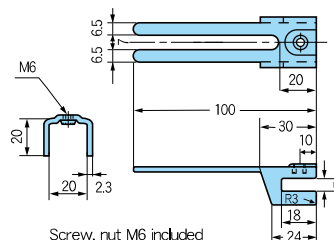
■KH-65-3C



Example of use



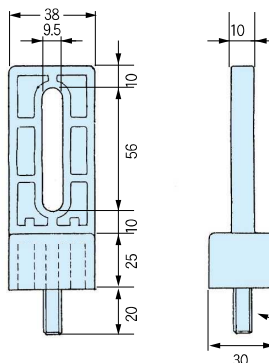
■KH-100-3C



Example of use

Bar holder BHS-10

Design registered



Low cost, light weight, good working low pressure bus bar support.

Features RoHS

- The spacing can be adjusted freely to support the bus bars one by one.
- The bus bar can be fixed with one bolt and can be used in various sizes.

Basic Specs

- Material: Body ... glass fiber filled P.P.

Bolt, nut, washer ... iron, trivalent chromate

Test results

Bending strength D	average 108kgf
Bending strength W	average 288kgf
Tensile strength	average 418kgf
Withstand voltage	22kV 1 minute
Impact withstand voltage	50kV No abnormality

BHS-10

Sales unit: 1 piece 100 pieces / box

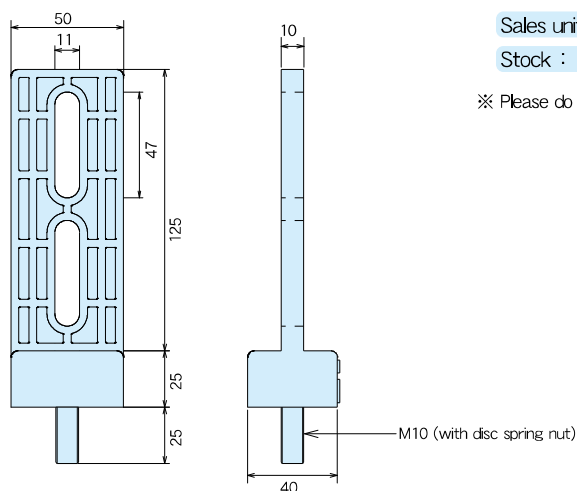
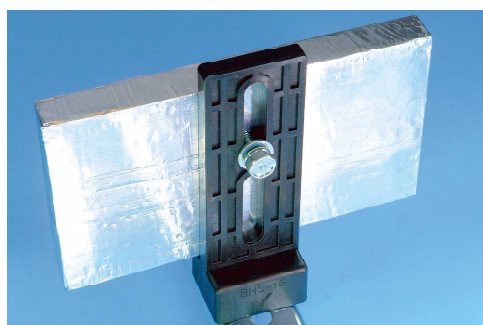
Stock : ◎

※ Please do not attach the bar holder with excessive force.



Example of use

Bar holder BHS-15



It is a bar holder one size larger than BHS-10.

Features RoHS

- The spacing can be adjusted freely to support the bus bars one by one.
- The bus bar can be fixed with one bolt and can be used in various sizes.
- It can handle bus bars larger than BHS-10.

Basic Specs

- Material: Body ... glass fiber filled P.P.

Disc spring nut ... for M10 Iron, trivalent

Mounting bolt ... M10 × 25 L Iron, trivalent

BHS-15

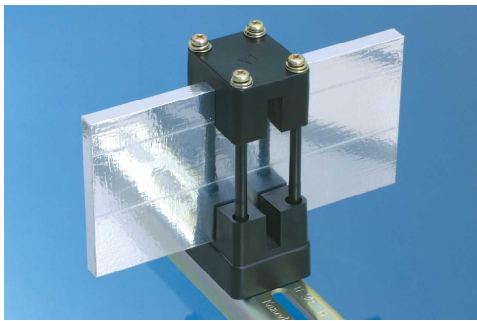
Sales unit: 1 piece 50 pieces / box

Stock : ○

※ Please do not attach the bar holder with excessive force.

NEW

Bar holder BHX



Support the low pressure bus bar without inserting a hole.

Features RoHS

- Supports busbars up to 8 to 20 mm thick.
- Please use side A or side B according to the thickness of the bus bar.
- Please select the model number according to the width of the bus bar.

Basic Specs

- Material: Body polypropylene
Insert bolt Iron, trivalent M8
M8 nut, washer included
Tightening bolt M6 iron, long screw, trivalent
Insulated PVC shrink tube

● Test results	Withstand voltage	22kV 1 minute
	Impact withstand voltage	50kV No abnormality

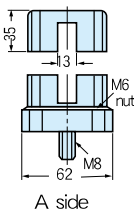
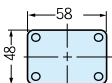
Sales unit: 1 piece
(M8 nut, washer, long bolt included)

Stock : ○



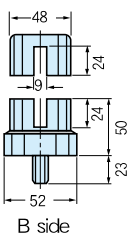
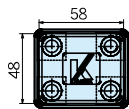
Example of use

BHX-1 type

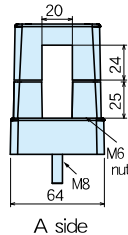


A side

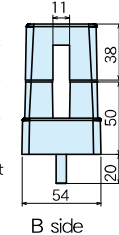
BHX-2N type



B side



A side



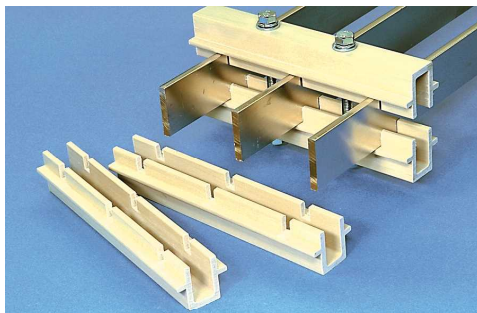
B side

Model number	Bus bar width mm	Busbar thickness mm	Supplied tightening bolt
BHX-105	50	8 - 12	M6× 75 4 pcs
BHX-107	75		Insulation M6×100 4 pcs
BHX-110	100		Insulation M6×130 4 pcs
BHX-115	150		Insulation M6×180 4 pcs
BHX-205N	50	10 - 20	M6× 75 4 pcs
BHX-207N	75		Insulation M6×100 4 pcs
BHX-210N	100		Insulation M6×130 4 pcs
BHX-215N	150		Insulation M6×180 4 pcs

※ Please do not attach the bar holder with excessive force.

KP cleat (FRP made)

Design registered



A cleat for holding low pressure bus bars in three phases.

Features RoHS

- It is light and durable made of FRP with glass fiber that has excellent electrical properties and mechanical strength.
- We will make an order based on the desired bus bar pitch and thickness.

Basic Specs

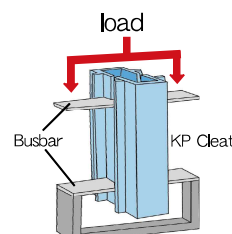
- Material: FRP glass fiber reinforced
- Heat distortion temperature: 120 ° C
- Operating temperature : -40 to 102 ° C

■ Made to order (reference standard)

Model number	length A (mm)	interval B (mm)	interval C (mm)	width D (mm)
KP-80-6	220	80	80	7.5
KP-80-8				9.5
KP-80-10				11.5
KP-100-6	260	100	100	7.5
KP-100-8				9.5
KP-100-10				11.5
KP-150-8	360	150	150	9.5
KP-150-10				11.5
Fixed size (no processing)	1150	-	-	-

※ Please use separately M8 × length (bus bar width + 60mm ~ 70mm) for mounting bolt.
Use a bolt with a tightening torque of 9.8 N · m (100 kgf · cm) or less.

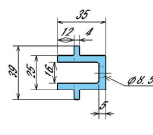
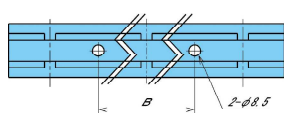
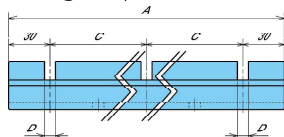
Load test result



KP cleat's notch was crushed.

Maximum load
39.5kN

Mounting example



How to order

Specify the model number and A to D dimensions with reference standard on the right.
Model number: KP-(interval C)-(bus bar thickness)
A to D dimensions are manufactured upon request.
We accept in one set of two.

Sales unit: 10 pieces (5 sets)

Stock: △ Made to order

Low voltage insulating support "ES spacer"

Insulating support for low pressure (AC 600 V or less).

Features RoHS

- Various sizes are available and insulation such as busbars. It is very useful for supporting the things you need.
- Excellent impact resistance and insulation.

Basic Specs

- Material: • Body: Polypropylene
• Insert bolt/nut: Iron, trivalent

Color: Black

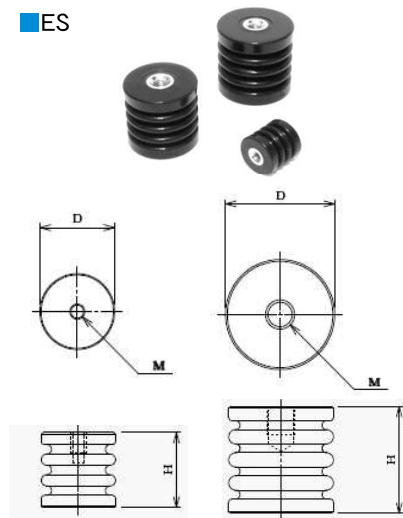
Stock: ○ We also manufacture the flame retardant UL94V-0.

NEW



Example of use

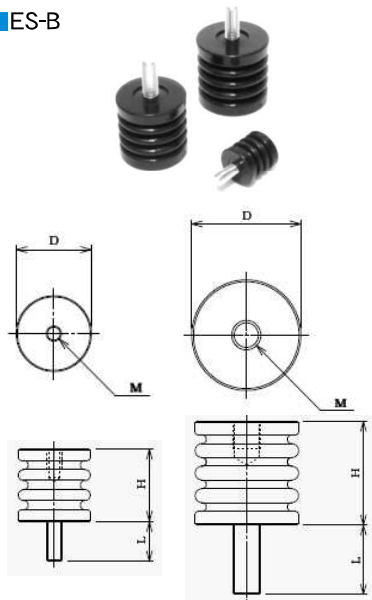
ES



Both sides nut type

Part Number	outer diameter D (mm)	height H (mm)	screw		Unit	Number of boxes
			diameter	depth (mm)		
ES-20-4	20	20	M4	6	50 Pieces	1000 Pieces
ES-20-5	20	20	M5	6		
ES-20-6	20	20	M6	5.5		
ES-25	25	25	M6	8		
ES-30	30	30	M8	9	25 Pieces	500
ES-35	35	35	M8	11		300
ES-40	40	40	M8	11		250
ES-45	40	45	M8	11		200
ES-50	40	50	M8	11		

ES-B



Bolt / Nut Type

Part Number	outer diameter D (mm)	height H (mm)	screw			Unit	Number of boxes
			diameter	depth (mm)	Bolt len. L (mm)		
ES-B-20-4	20	20	M4	6	11	50 Pieces	1000 Pieces
ES-B-20-406	20	20	M4	6	6		
ES-B-20-5	20	20	M5	6	11		
ES-B-20-506	20	20	M5	6	6		
ES-B-20-6	20	20	M6	5.5	13		
ES-B-25-5	25	25	M5	6	11		
ES-B-25	25	25	M6	8	12	25 Pieces	500
ES-B-30	30	30	M8	9	20		300
ES-B-35	35	35	M8	11	20		250
ES-B-40	40	40	M8	11	20		200
ES-B-45	40	45	M8	11	20		
ES-B-50	40	50	M8	11	20		



Installation of a bus bar wider than the outer diameter (Dφ) of the ES spacer causes an overload.



Please be careful not to over tighten the screw tightening torque referring to the table below.

Recommended tightening torque (according to JIS C8306)

Screw size		M4	M5	M6	M8
Tightening torque	N·m	1.2	2	2.5	5.5
	kgf·cm	12	20	25	55



It uses an elastic resin and may break if it is subjected to excessive load for a long time.

Use a bending load perpendicular to the screw within the safe bending load shown below.

Safe bending load (according to JIS C8306)

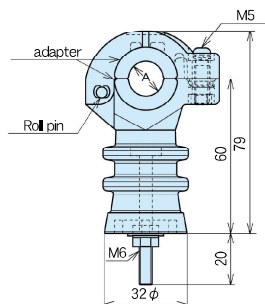
Screw size		M4	M5	M6	M8
Bending load	N	49	58.5	78.4	88.2
	kgf	5	6	8	9

CBS-EC Insulator

Design registered



Mounting example



For high voltage wire insulation support in the cubicle (for 6.6kV).

Features RoHS

- CBS-EC is small and light, and has been designed to obtain sufficient insulation characteristics, contributing to the miniaturization of equipment.
- Easy wiring and wiring operation, with a screw-free holding mechanism, good workability can be obtained.
- It is made of polypropylene that is resistant to impact and has good electrical insulation, and has sufficient strength even in a small size.
- The wire clamp adapter uses a flexible elastomer, so it holds the wire securely without damaging it.

Basic Specs

- Material:
Body ... polypropylene (Black)
Adapter ... Elastomer
- Stock: ○



Mounting example

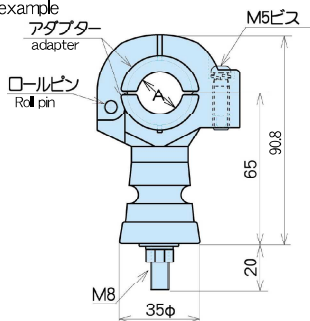
Model number	A φ	Applicable wire	Sales unit (pieces)	Number of boxes (pcs)
CBS-EC-14-3C	13	KIP14□, MLFC8	1	100
CBS-EC-22-3C	14	KIP22□, MLFC14	1	100
CBS-EC-38-3C	16	KIP38□, MLFC22	1	100
CBS-EC-60-3C	18	KIP60□	1	100

CBS-ED Insulator

Design registered



Mounting example



For large diameter high voltage wire insulation support (for 6.6kV) in cubicle.

Features RoHS

- It can be used from 38 sq to 200 sq.
- Easy wiring for wiring work and secure with one screw.
- The wire clamp adapter uses a flexible elastomer, so it holds the wire securely without damaging it.

Basic Specs

- Material: Body ... polypropylene (black)
Adapter ... Elastomer
- Stock: ○

Model number	A φ	Applicable wire	Sales unit (pcs)	Number of boxes (pcs)
CBS-ED-38-3C	16	KIP38□, MLFC22	1	20pcs×3bags=60
CBS-ED-60-3C	18	KIP60□, MLFC38	1	20pcs×3bags=60
CBS-ED-100-3C	21	KIP100□	1	20pcs×3bags=60
CBS-ED-150-3C	25	KIP150□	1	20pcs×3bags=60
CBS-ED-200-3C	28	KIP200□	1	20pcs×3bags=60

● CBS Test result list

試験方法: JS-C3801, JS-C3851

Test items Model number	Strength test	Electrical test	
	Bending load test	anti-voltage test	Lightning withstand voltage test
	Maximum load (N) [(kgf)]	60Hz 22kV 1 minute	60kV voltage waveform(1.2×50μs)
CBS-EC	987[101]	No abnormality	No abnormality
CBS-ED	1940[198]	No abnormality	No abnormality

※ The above description is not a guaranteed value. It is a measured value.

Ventilation louver VT-2525 IP45 type • IP55 salt damage measures type

Utility model registered

IP45 type



It is a ventilation louver of blowout prevention P45.

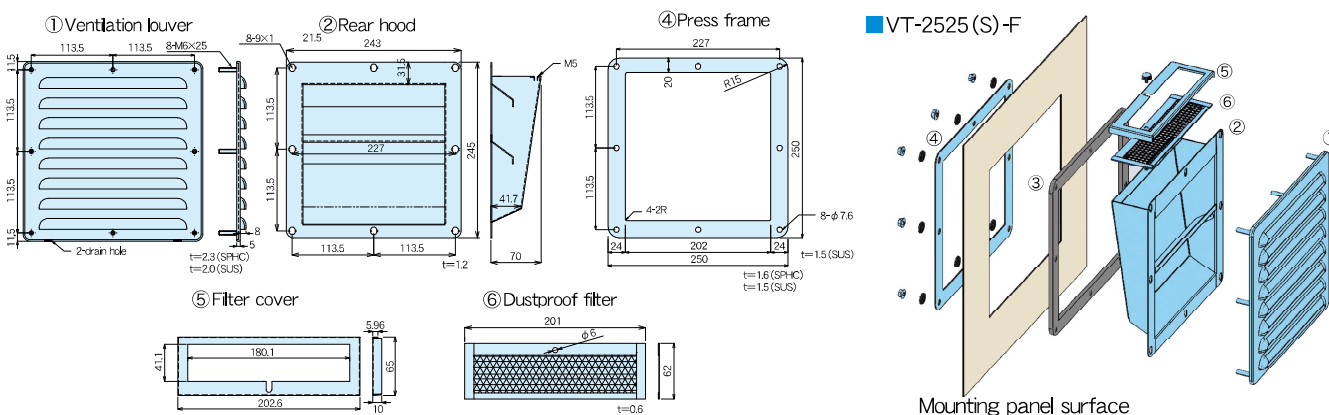
Features RoHS

- The back hood with a blowproof structure makes it an P45 specification that can be used outdoors.
- The dust filter can be easily attached and removed with a single thumb screw, making maintenance easy.

Basic Specs

- Material and finish: Ventilation louver, Rear hood, Press frame ... steel plate • special anti-corrosion treatment, stainless steel
Packing ... epto sealer, Dust filter ... stainless steel frame, saran honeycomb
Mounting nut ... Iron trivalent plating, flange nut
Filter retaining nut ... white screw, Bonder washer... stainless steel

NEW



IP55 salt damage measures type



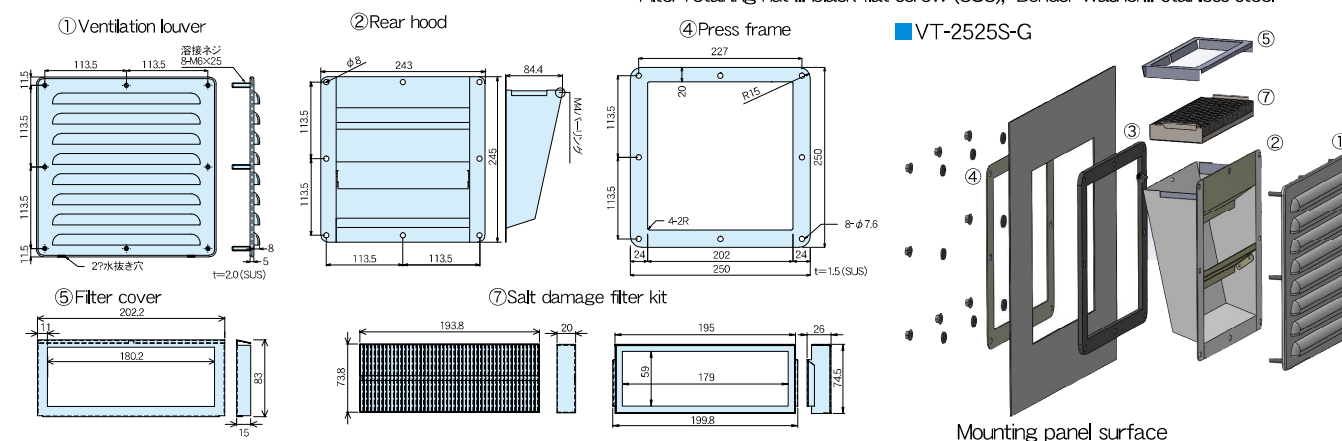
It is a salt damage measures ventilation louver of IP55.

Features RoHS

- Use a special 3-layer mesh structure for salt damage measures.
- The low re-scattering rate of 0.1% to 0.7% prevents salt from entering the interior.
※ The filter kit for salt damage is available separately.
※ As a rule of thumb, filter replacement time is half a year to 1 year.

Basic Specs

- Material and finish: Ventilation louver, Rear hood, Presser frame ... stainless steel
Packing ... ept sealer, Salt damage filter ... stainless steel frame,
Non-woven filter cassette ... stainless steel, Filter cover ... stainless steel
Mounting nut ... stainless flange nut
Filter retaining nut ... black flat screw (SUS), Bonder washer... stainless steel

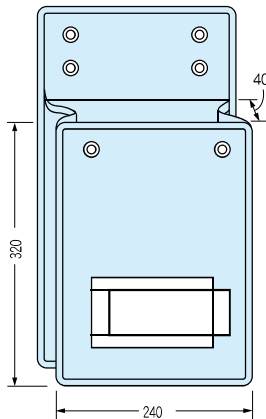


■ Ventilation louver standard

Material	IP grade	Model number	Product configuration							Size V×H (mm)	Thick-ness (mm)	Clipping size V×H (mm)	Opening area (cm²)
			①Ventilation louver	②Rear hood	③Packing	④Press frame	⑤Filter cover	⑥Dustproof filter	⑦Salt damage filter kit				
steel plate	IP45	VT-2525-F	VT-2525	VT-2525PC	VT-2525PP	VT-2525PW	VT-2525PG	VT-2525PF		250 × 250	2.3	235 × 235	113.7
			●	●	●	●	●	●					
stainless	IP45	VT-2525S-F	VT-2525S	VT-2525SPC	VT-2525PP	VT-2525SPW	VT-2525PG	VT-2525PF			2.0	235 × 235	119.9
			●	●	●	●	●	●					
stainless	IP55	VT-2525S-G	VT-2525S	VT-2525SPC2	VT-2525PP	VT-2525SPW	VT-2525PGG		VT-2525PFGC				
			●	●	●	●	●		●				

※ For outdoor use, please be sure to attach Rear hood to prevent blow-in. Please apply urethane coating for steel plate.

Hi-pack (Adhesive drawing storage bag) DH



It is a drawing storage bag of vinyl leather cross.

Features RoHS

- Store the switchboard drawings, specifications, etc. in the panel.
- Made of vinyl leather cloth, it has excellent durability and weather resistance.
- A card is included that allows you to enter an item on the surface.
- High-performance adhesive tape processing is applied to the back side.

Basic Specs

- Material: Vinyl Leather Cloth, Double-sided Tape 3M # 4032

Sales unit: 1 sheet

Stock: ○

■ DH-A4-B ... B color (beige)

B color: Munsell symbol 2.5 Y 8/2 (approximate color)

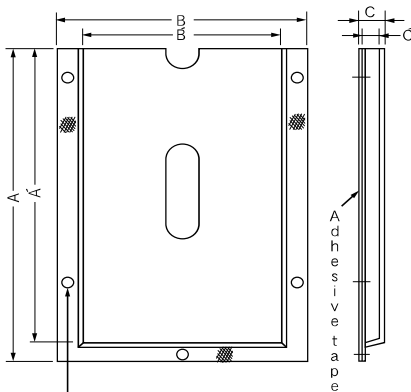
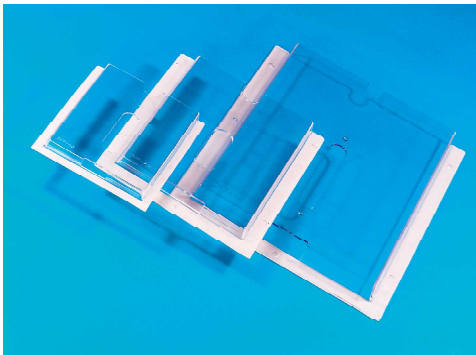
■ how to use

- ① Save the dust and oil on the side where the high pack will be attached.
- ② Peel off the protective tape of adhesive tape on the back of the high pack, gently crimp it in the correct position and press it well from the surface.
- ③ The weight limit of the expropriation is as follows.

DH-A4 about 2kg

⚠ Due to the nature of the adhesive tape, the presence of oil on the adhesive surface will significantly reduce the adhesion. After wiping the adhesive surface with alcohol etc., please press firmly to bond.

Plastic drawing holder DHP



Screw hole mark
 The surface is a satin finish.

It is an in-panel drawing storage pocket of transparent plastic.

Features RoHS

- Store the switchboard drawings, specifications, etc. in the panel.
- It uses high-performance adhesive tape.

Basic Specs

- Material: Standard type ... A4: AS resin / A5, A6: PS resin

Double-sided tape: Sekisui # 535

Flame Retardant Type ... AS Resin Flame Retardant Grade UL94-V2

Double-sided tape Sekisui # 535

Sales unit: 1 sheet

Stock: ○

※Note

- If there is oil on the mounting surface, the adhesion will be reduced.
- Wipe the mounting surface with alcohol etc. and press firmly to bond.
- If the temperature of the mounting surface is low, such as in winter, adhesion will be weak. Please warm up the mounting surface before sticking.
- Avoid repasting, please leave it for several hours.

Standard type

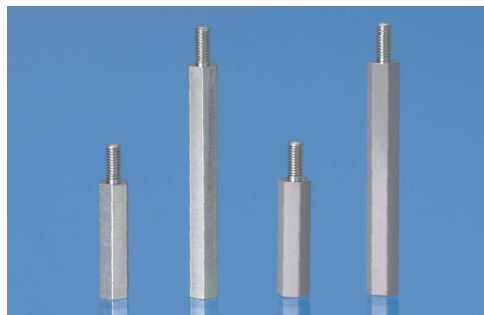
Model number	A	B	C	A'	B'	C'	Size Thickness	Packing unit (sheet)
DHP-A4	330	270	23	305	221	20	A4 19	10
DHP-A5	231	197	15	209	152	12.2	A5 11	10
DHP-A6	164	140	13	150	114	10.5	A6 10	10

Flame retardant type

Model number	A	B	C	A'	B'	C'	Size Thickness	Packing unit (sheet)
DHP-A4-V2	330	270	23	305	221	20	A4 19	10
DHP-A7-V2	130	110	7.7	116	82	4.9	A7 4.5	10

※ The tape is not flame retardant.

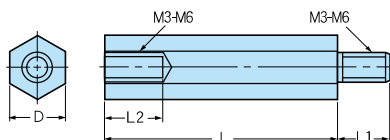
Hexagon supporter



Example of use

MK Hexagon supporter

MKZ Insulated Hexagon Supporter



A metal supporter useful for supporting printed circuit boards, acrylic covers and other parts. There is also an "insulation supporter" with a vinyl coating.

Features RoHS

- Size is abundant from M3 to M6. Concatenation is also possible.
- The insulation supporter is the insulation coating on the side of the supporter. There is no insulation between the screw top and bottom.

Basic Specs

- Material: iron
- Surface finish: 3C trivalent

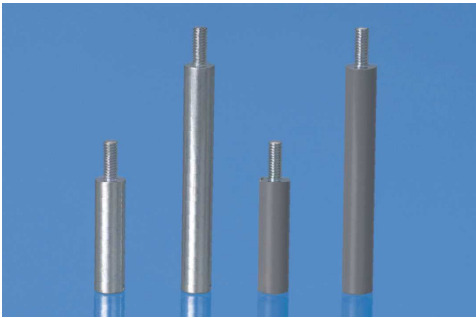
Insulation Coating: Hishi tube Gray (UL-224 VW-1) Withstand Voltage: 5,000 V

Sales unit: 50 pieces (M5, M6 even 10 pieces are sold)

Stock: MK ○ MKZ...M4 ○, M5, M6 △

Screw size	Length L mm	Model number	
		Standard	Insulation
M3 D=6 L ₁ =8 (6) L ₂ =8 (6) ()MK-310	10	MK-310-3C	———
	15	MK-315-3C	———
	20	MK-320-3C	———
	25	MK-325-3C	———
	30	MK-330-3C	———
	40	MK-340-3C	———
M4 D=7 L ₁ =10 (6) L ₂ =10 (6) ()MK-410	10	MK-410-3C	———
	15	MK-415-3C	MKZ-415-3C
	20	MK-420-3C	MKZ-420-3C
	25	MK-425-3C	MKZ-425-3C
	30	MK-430-3C	MKZ-430-3C
	40	MK-440-3C	MKZ-440-3C
	50	MK-450-3C	MKZ-450-3C
	60	MK-460-3C	MKZ-460-3C
	70	MK-470-3C	———
	80	MK-480-3C	———
	90	MK-490-3C	———
	100	MK-4100-3C	MKZ-4100-3C
M5 D=8 L ₁ =13 L ₂ =13	105	MK-4105-3C	———
	20	MK-520-3C	MKZ-520-3C
	25	MK-525-3C	MKZ-525-3C
	30	MK-530-3C	MKZ-530-3C
	40	MK-540-3C	MKZ-540-3C
	50	MK-550-3C	MKZ-550-3C
	60	MK-560-3C	MKZ-560-3C
M6 D=10 L ₁ =15 L ₂ =15	100	MK-5100-3C	MKZ-5100-3C
	20	MK-620-3C	MKZ-620-3C
	25	MK-625-3C	MKZ-625-3C
	30	MK-630-3C	MKZ-630-3C
	40	MK-640-3C	MKZ-640-3C
	50	MK-650-3C	MKZ-650-3C
	60	MK-660-3C	MKZ-660-3C
	75	MK-675-3C	———
	80	MK-680-3C	———
	100	MK-6100-3C	MKZ-6100-3C

Round supporter



A metal supporter useful for supporting printed circuit boards, acrylic covers and other parts. There is also an "insulation supporter" with a vinyl coating.

Features RoHS

- The slotted groove on the head allows tightening with a flathead screwdriver.
 - The plus (cross) screw supporter can be tightened with a cross screw driver.
 - The insulation supporter is the insulation coating on the side of the supporter.
- There is no insulation between the screw top and bottom.

Basic Specs

- Material: Iron SS400
 - Surface finish: 3C trivalent
 - Insulation Coating: Hishi tube Gray (UL-224 VW-1) Withstand Voltage: 5,000 V
- Sales unit: 50 pieces (M5, M6 even 10 pieces are sold)
- Stock: ○



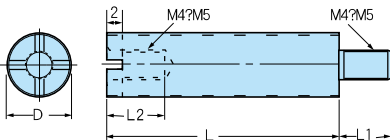
Insulated plus(cross) screw supporter

MR-P

Round Plus Supporter

MRZ-P

Insulated Round Plus Supporter



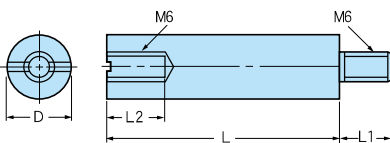
M4
D = 8
L₁ = 10
L₂ = 10

MR

Round supporter

MRZ

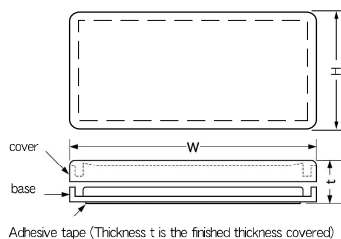
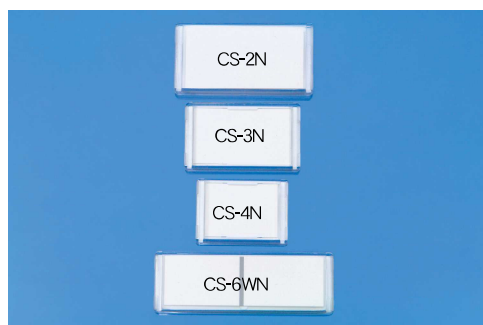
Insulated Round Supporter



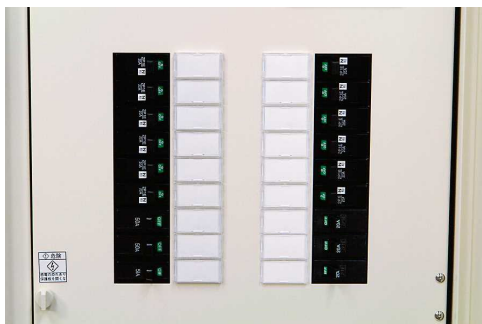
Screw size	Length L mm	Model number	
		Plus(cross) screw	Insulated plus screw
M4 D = 8 L ₁ = 10 L ₂ = 10	10	—	—
	15	—	—
	20	MR-420P-3C	MRZ-420P-3C
	25	MR-425P-3C	MRZ-425P-3C
	30	MR-430P-3C	MRZ-430P-3C
	40	MR-440P-3C	MRZ-440P-3C
	50	MR-450P-3C	MRZ-450P-3C
	60	MR-460P-3C	MRZ-460P-3C
	70	—	—
	80	—	—
	90	—	—
	100	MR-4100P-3C	MRZ-4100P-3C
	105	—	—
M5 D = 10 L ₁ = 13 L ₂ = 13	20	MR-520P-3C	MRZ-520P-3C
	25	MR-525P-3C	MRZ-525P-3C
	30	MR-530P-3C	MRZ-530P-3C
	40	MR-540P-3C	MRZ-540P-3C
	50	MR-550P-3C	MRZ-550P-3C
	60	MR-560P-3C	MRZ-560P-3C
	100	MR-5100P-3C	MRZ-5100P-3C
Screw size	Length L mm	Standard	Insulation
M6 D = 11 L ₁ = 15 L ₂ = 15	20	MR-620-3C	MRZ-620-3C
	25	MR-625-3C	MRZ-625-3C
	30	MR-630-3C	MRZ-630-3C
	40	MR-640-3C	MRZ-640-3C
	50	MR-650-3C	MRZ-650-3C
	60	MR-660-3C	MRZ-660-3C
	75	—	—
	80	—	—
	100	MR-6100-3C	MRZ-6100-3C

Card holder <with adhesive tape> CS

Design registered



Example of use



It is a display board (name plate) for adhesive type distribution board circuit etc.

Features RoHS

- The use of strong adhesive tape eliminates the need for drilling and the card is sealed so it does not get dirty or fall off.
- The cover is made of AS resin and the transparency is improved.
- The namepaper is held by the base and does not fall off even if the cover is opened.
- Namepaper is included. The optional special registration sheet can also be printed on a PC.
- Non-woven double-sided tape does not leave glue on the adhesive side when removed.
※ You can not paste again.
- Polyethylene foam tape is thick and has excellent initial adhesion.

Basic Specs

- Material: Cover ... AS resin, Base ... PP
Tape ... Non-woven tape, Polyethylene foam tape

Stock: ○

How to use

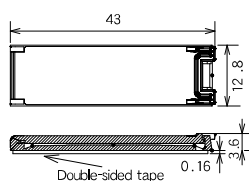
- Fill in the namepaper and set it on the base. Hold with the base nails.
- Put on the cover.
- Remove dust, oil and moisture from the place of paste.
- Peel off the release paper on the back and press it firmly to the installation location.

Model number Non-woven tape	Model number polyethylene foam tape	size (mm)			Number of boxes (pcs × bag)	Sales unit (pieces)
		W	H	t		
CS-2N	CS-2N-U	46	24	4.2	50×6	50
CS-3N	CS-3N-U	38	22	4.2	50×8	50
CS-4N	CS-4N-U	30	21	4.2	50×10	50
CS-6WN※	CS-6WN-U※	58	20	4.2	50×6	50

※ A vertical line is printed at the center of the name sheet.

Card holder <horizontal opening hinge type> CSY

Design registered



It is a side-opening hinge type in which the cover and the base are integrated.

Features RoHS

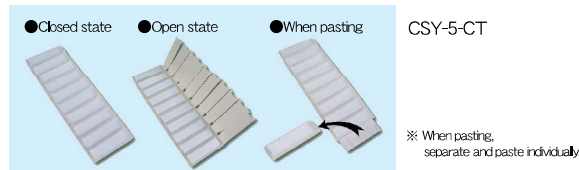
- Non-woven double-sided tape does not leave glue on the adhesive side when removed. ※ You can not paste again.
- The CSY-5-CT is attached to 10 sheets in a row, making the work very easy and fast.
- Polyethylene foam tape is thick and has excellent initial adhesion.
- There is also a print sheet ISY-5 (sold separately) for PC printing.

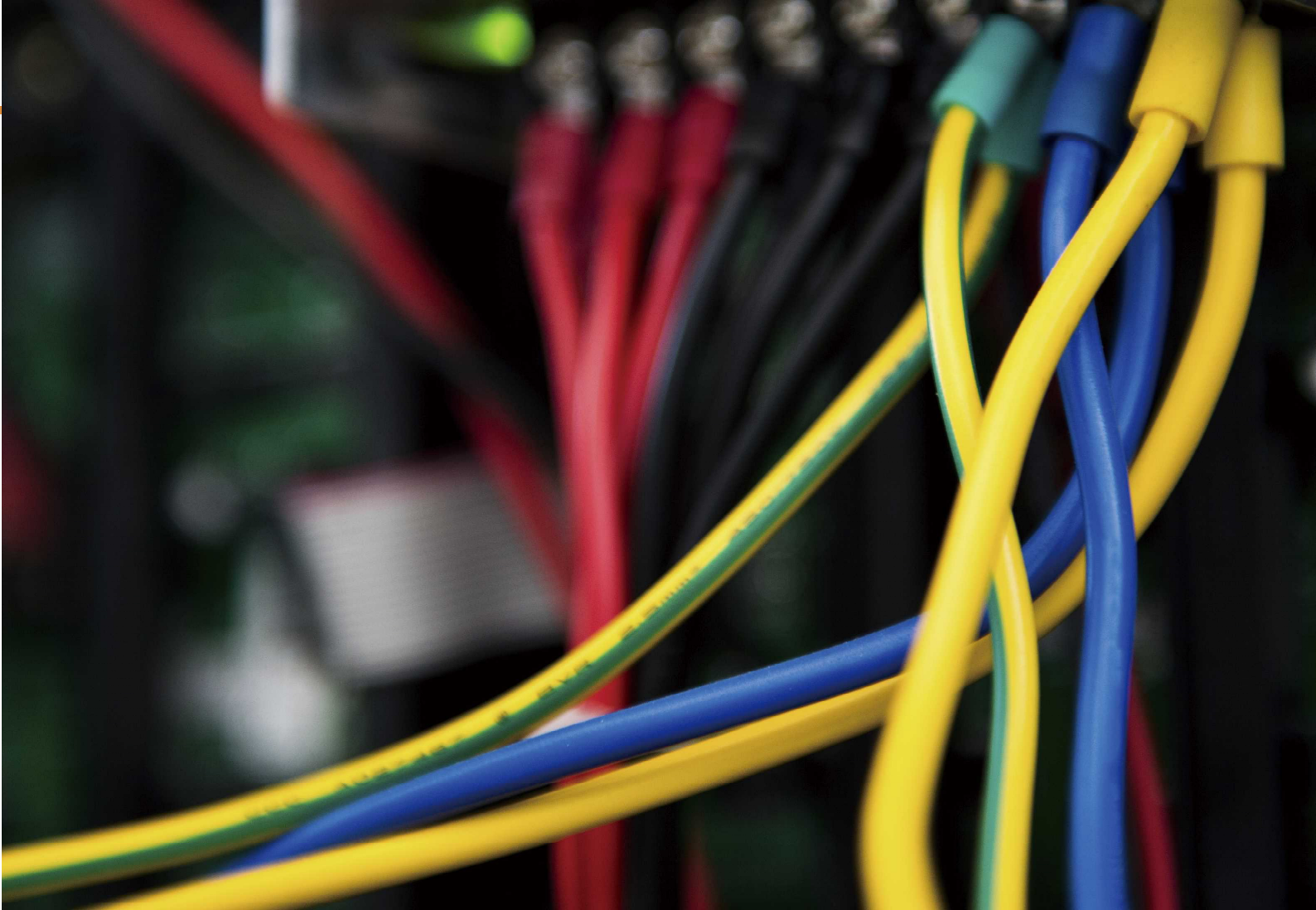
Basic Specs

- Material: polypropylene

Tape ... non-woven tape, polyethylene foam tape

- CSY-5 non-woven tape Sales unit: 50 pieces Stock: ○
- CSY-5-U polyethylene foam tape
- CSY-5-CT non-woven tape Sales unit: 5 sheets Stock: ○

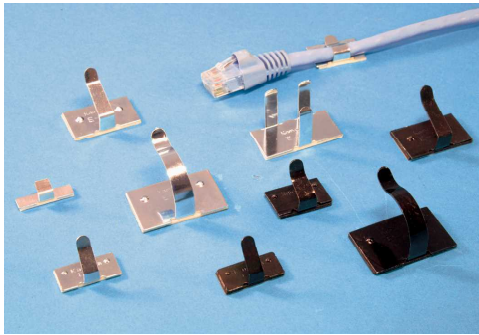




Wiring Accessories

配線資材

High sticker



Adhesive-type wire fasteners that are active in all fields.

Features RoHS

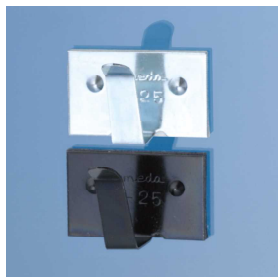
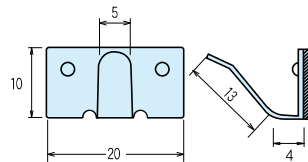
- Using the highest quality double-sided tape, it can be used safely with a wide range of materials such as steel, aluminum, plastic, glass and wood.

Basic Specs

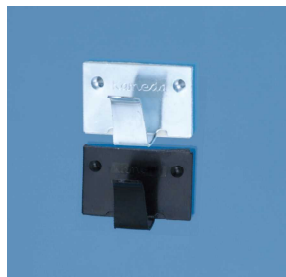
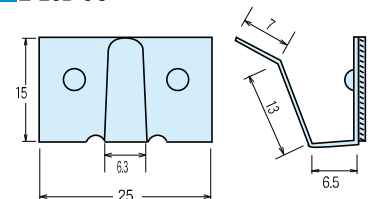
- Material: SPCC $t = 0.5$
Double-sided tape ... 3M # 4032 (E-30 ... Sekisui # 535)
Black ... Sekisui # 518TF
- Surface finish: trivalent, black ... trivalent black
- Sales unit: 100 pieces Stock: ○



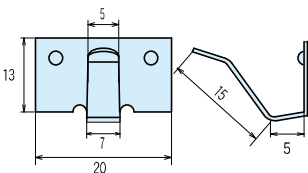
■ E-20-3C
■ E-20B-3C



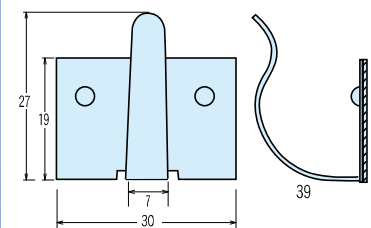
■ E-25-3C
■ E-25B-3C



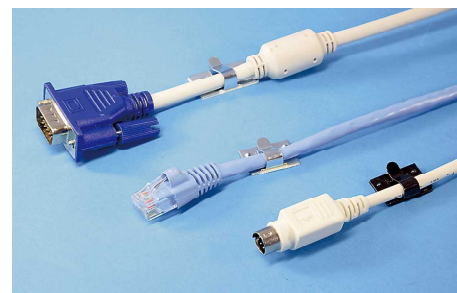
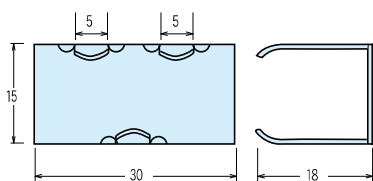
■ E-23-3C
■ E-23B-3C



■ E-30-3C
■ E-30B-3C



■ W-30-3C



Example of use

⚠ After wiping the adhesive side with alcohol etc., please press firmly.
Due to the nature of adhesive tape, the presence of oil on the surface results in a marked reduction in adhesion.

Stainless steel High sticker



Adhesive type wiring fixture made of stainless steel that is beautiful and does not rust.

Features RoHS

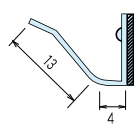
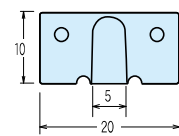
- It is resistant to rust and can be used outdoors or in humid places.
- Suitable for internal wiring of refrigerated showcases and vending machines.

Basic Specs

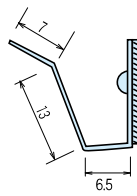
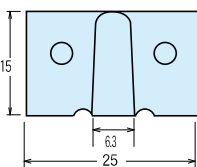
- Material: Body ... stainless steel SUS 304 $t = 0.5$
Double-sided tape ... 3M # 4032

Sales unit: 100 pieces Stock: ○

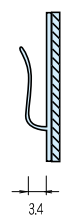
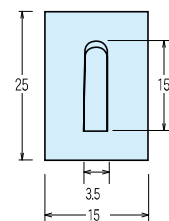
■ ES-20



■ ES-25

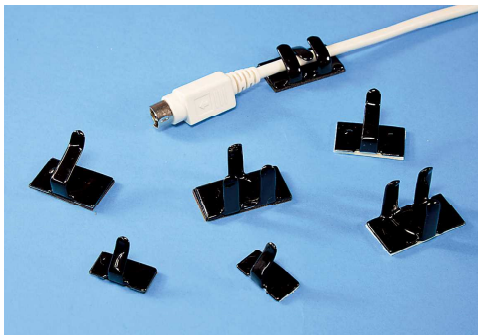


■ NES-25



⚠ After wiping the adhesive side with alcohol etc., please press firmly.
Due to the nature of adhesive tape, the presence of oil on the surface results in a marked reduction in adhesion.

Coating High sticker



It is a PVC-coated High sticker not to damage the electric wire.

Features RoHS

- Insulating coated high sticker.
- It is safe because the metal part is not exposed.
- It is suitable for LAN cables and optical fibers because it holds the wires soft and does not slip.
- Double-sided tape is two types: strong white (M), black (GN) excellent weather resistance.

Basic Specs

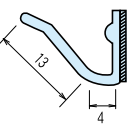
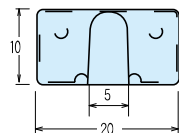
- Material: Body ... SPCC $t = 0.5$ trivalent

Double-sided tape: GN: Sekisui #518TF M: 3M #4032

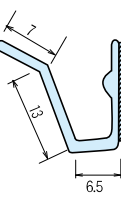
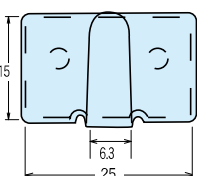
- Coating : PVC dip coat

Sales unit: 100 pieces Stock: ○

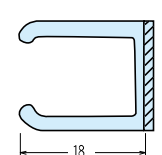
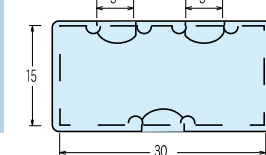
■ ED-20GN (3C)
■ ED-20M-3C



■ ED-25GN (3C)
■ ED-25M-3C



■ WD-30GN-3C
■ WD-30M-3C

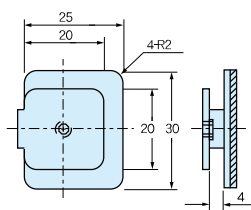


⚠ After wiping the adhesive side with alcohol etc., please press firmly.
Due to the nature of adhesive tape, the presence of oil on the surface results in a marked reduction in adhesion.

High sticker K



K-34-3C (M4)



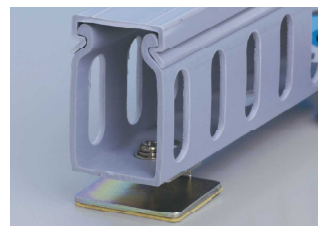
It is a convenient High sticker for screwing small parts in places where holes can not be drilled, such as the back of the panel door.

Features RoHS

- It is made of durable steel plate and stable installation is possible. The screw size is M4.

Basic Specs

- Material: steel sheet 1.6t
- trivalent
- Double sided tape 3M # 4032
- Screw included: M4 × 8, with washer trivalent
- Sales unit: 50 pieces
- Stock: ○



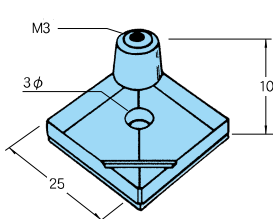
Example of use

⚠ After wiping the adhesive side with alcohol etc., please press firmly.
Due to the nature of adhesive tape, the presence of oil on the surface results in a marked reduction in adhesion.

Petet T



T-600



Adhesive supporters for quick attachment of printed circuit boards, lugs, etc.

Features RoHS

- The need for drilling holes in the chassis is eliminated, and significant labor savings can be achieved.

Basic Specs

- Material: ABS resin
- Sales unit: 100 pieces
- Stock: ○

Wire sticker S



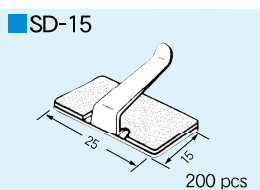
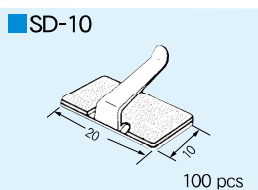
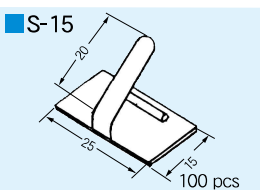
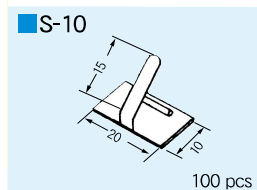
An inexpensive version of metal adhesive clamps.

- Material: SPCC unichrome

It is a Wire sticker with a sponge.

RoHS

- Material: painted steel sheet with sponge

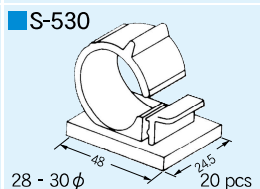
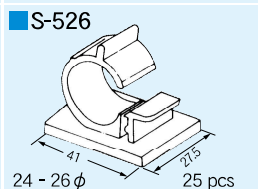
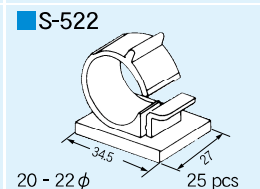
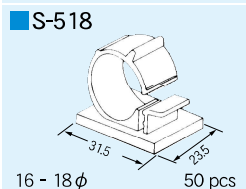
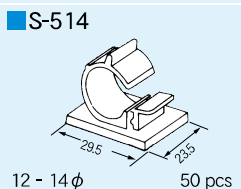
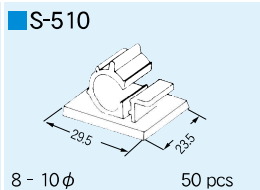
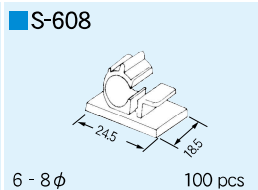
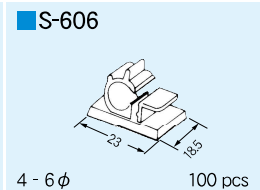
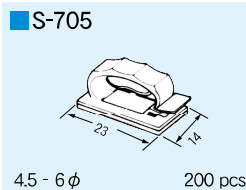
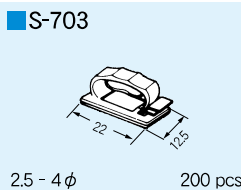


Adhesive type made of nylon.

It is flexible and can be opened and closed with one touch.

RoHS

- Material: 66 nylon gray



Stock: ○

Spiral tube KSS



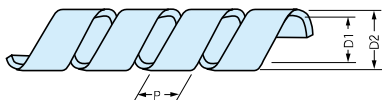
Wrap around the wire to protect the unity.

Features RoHS

- It is beautiful for the protection of the bends of the bundle, the door crossover, the board crossover, etc., and it can be applied quickly with low man-hours.
- You can take out the wire from any position.
- Black is weather resistant, so it can be used outdoors.

Basic Specs

- Material: polyethylene
- Color: Natural (milky white), black (weatherproof)
- Stock: ☐



Model number	Model number (black)	Color	Diameter D1xD2mm	Thickness mm	Interval Pmm	Bundle range ϕ	Sales unit m
KSS-2	KSS-2B	☐	2.6×4.2	0.6-0.8	6	3-7	100
KSS-4	KSS-4B	☐	4×6	0.7-1.0	8	4-12	100
KSS-6	KSS-6B	☐	6×8	0.7-1.0	10	6-18	100
KSS-8	KSS-8B	☐	8×10	0.8-1.0	12	8-25	50
KSS-9	KSS-9B	☐ $\phi_{9 \times 12}$	9×11	0.8-1.0	12	9-28	50
KSS-10	KSS-10B	☐	10×12	0.8-1.0	12	10-30	50
KSS-12	KSS-12B	☐ $\phi_{12 \times 15}$	12×14	0.8-1.0	14	12-35	50
KSS-15	KSS-15B	☐	15×18	1.3-1.4	16	15-45	50
KSS-20	KSS-20B	☐	20×24	1.6-1.8	20	20-60	25
KSS-25	KSS-25B	☐	25×29	1.6-1.8	22	25-75	20

- If there is ϕ in the color column, yellow (Y) and gray (GY) are also available.
- Both outer diameter and inner diameter are the size of the tube before being processed into a spiral.

Spiral tube KS (Flexible type)

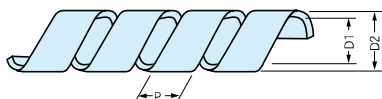


Features RoHS

- Flexible (thin) type spiral tube.
- There are up to large diameter 50 ϕ .

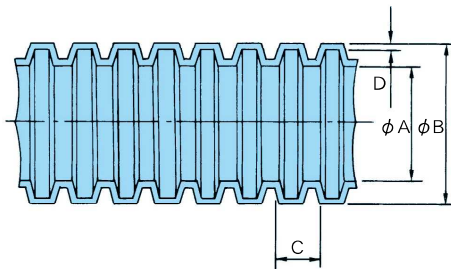
Basic Specs

- Material: polyethylene
- Color: Natural (milky white) / Black (black) not weatherproof
- Stock: ☐



Model number	Model number (black)	Diameter D1xD2mm	Thickness mm	Interval Pmm	Sales unit m
KS-2.6	KS-2.6B	2.6×4	0.7	8	100
KS-4	KS-4B	4×5.4	0.7	8	100
KS-6	KS-6B	6×7.4	0.7	10	100
KS-8	KS-8B	8×9.4	0.7	12	50
KS-9	KS-9B	9×10.6	0.8	12	50
KS-10	KS-10B	10×11.6	0.8	12	50
KS-12	KS-12B	12×14	1.0	15	50
KS-15	KS-15B	15×17.4	1.2	16	50
KS-20	KS-20B	20×22.8	1.4	20	25
KS-25	KS-25B	25×27.8	1.4	25	20
KS-30	KS-30B	30×34	2.0	35	10
KS-40	KS-40B	40×44.6	2.3	45	10
KS-50	KS-50B	50×55	2.5	55	10

Corrugate tube (slitted)



A new tie tube with excellent flexibility for various wire harnesses, wire protection and ties.

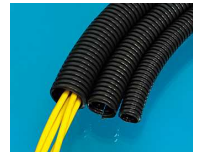
Features RoHS

- It is light and flexible, yet strong and hard to crush, and securely protects the wires.
- Slit (cut) processing is applied in the extension direction, so the wires can be stored easily.
- There is a wide range of sizes.

Basic Specs

- Material: KCT ... flame retardant polypropylene black UL94V-HB
KCT-N ... nylon dark gray UL94V-2
- Operating temperature range: KCT ... -40 to 95 ° C
KCT-N ... -40 to 125 ° C
- Appearance: There is a slit in the extension direction.

Stock : KCT ... ○, KCT-N ... △ Order



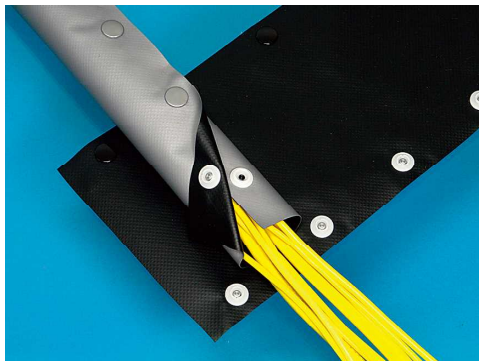
KCT-N (nylon)

Small boxed type

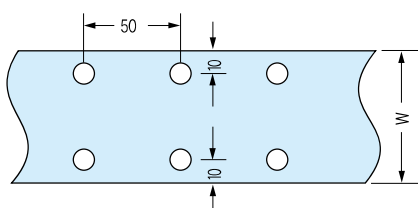
(Unit: mm)

Model number		I. diameter	O. diameter	interval	thickness	Sales unit
standard	nylon	A φ	B φ	C	D	
KCT-05	KCT-N05	5.3	7.5	2.3	0.2	50
KCT-07	KCT-N07	7.4	10.2	2.7	0.25	50
KCT-10	KCT-N10	10.7	14.1	2.7	0.25	50
KCT-13	KCT-N13	13.2	17.5	3.5	0.25	25
KCT-15	KCT-N15	15.3	19.5	3.6	0.25	25
KCT-19	KCT-N19	19.5	23.7	3.6	0.25	25
KCT-22	KCT-N22	22.3	27.1	4.3	0.30	20
KCT-25	KCT-N25	25.2	30.0	4.3	0.35	20
KCT-28	KCT-N28	28.4	33.8	4.4	0.35	20
KCT-32	KCT-N32	32.7	38.0	4.4	0.35	10

Button tube KOP



You can pull it out of the box or take out the reel for use.



A binding protection tube that opens and closes with a snap button.

Features RoHS

- No tools are required, one-touch binding allows easy specification change and inspection.
- It is a reversible type that can be used either black or gray.
- It's in a compact box with reels, so it's easy to handle and won't wrinkle.
- It is economical and economical because it can be cut to the required length.

Basic Specs

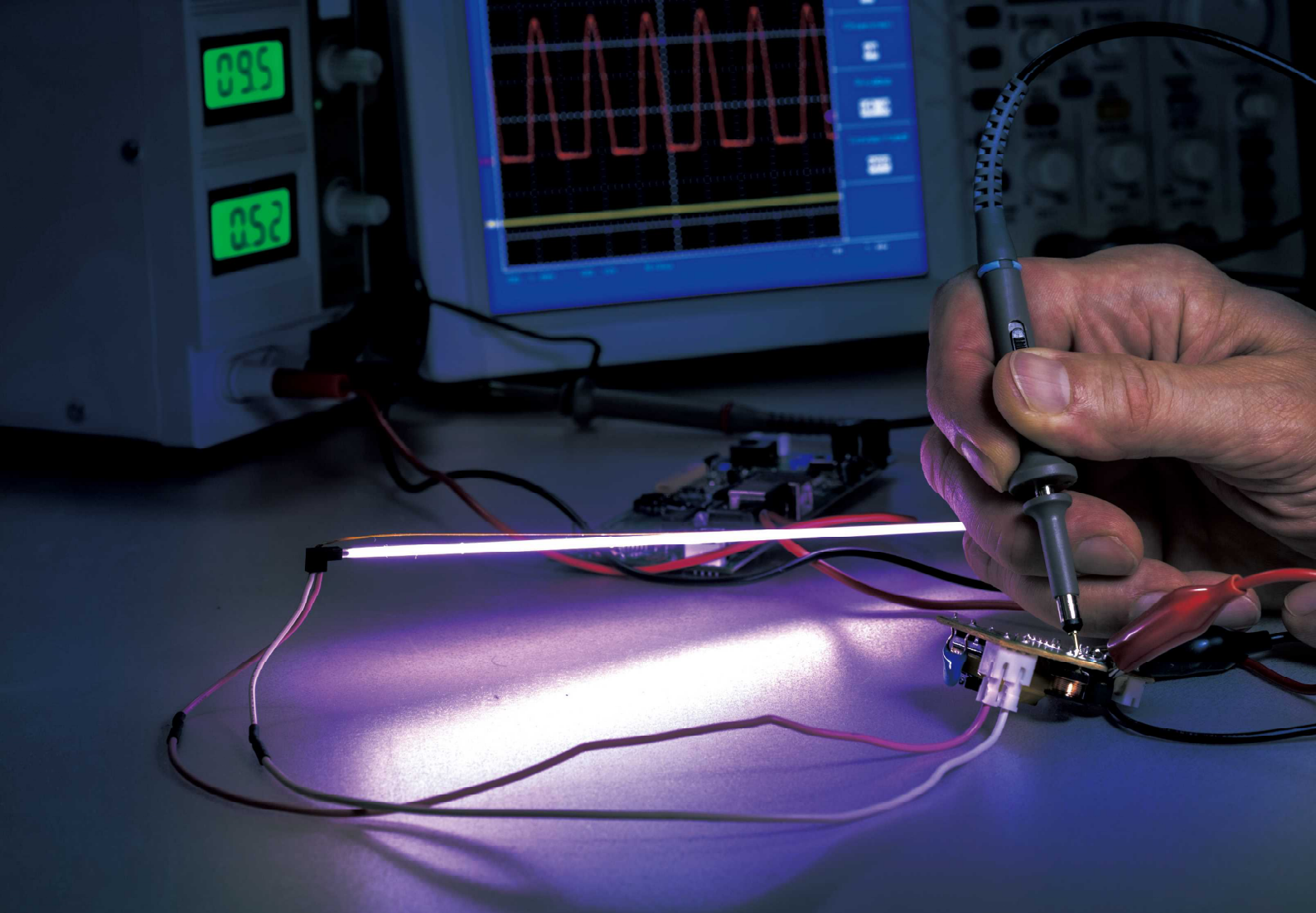
- Material: Sheet ... PVC with polyester cloth (0.35mm)
Snap button ... Polyacetal resin
- Snap button data:

Tensile strength: 4.3 kg (± 0.3)

Detachment power: 0.9 to 1.0 kg

Stock : ○

Model number	diameter φ mm	width W mm	color	Sales unit
KOP-10R	10	55	Black / gray (reversible)	25m*
KOP-15R	15	75		
KOP-20R	20	90		
KOP-25R	25	100		
KOP-30R	30	115		
KOP-40R	40	145		
KOP-50R	50	175		
KOP-70R	70	245		
KOP-80R	80	280		
KOP-100R	100	340		

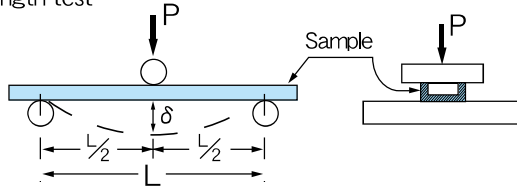


Technological material

技術資料

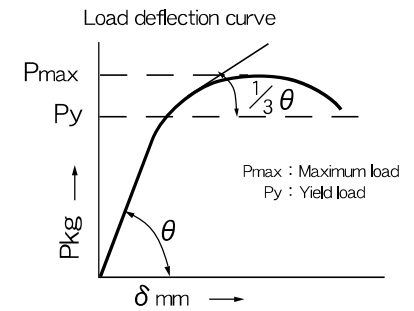
Multi-angle / Multi-channel quality test results

Bending strength test



Test results

Sample (Model number)	cross section Load direction	Fulcrum distance L mm	Maximum load Pmax Kgf	Yield moment My kg·cm	Maximum bending moment Mmax kg·cm	Displacement at yield delta mm
U-1		400	62	520	620	6.8
		400	64	520	640	7.5
		400	180	1770	1800	5.9
U-26		400	96	800	960	9.5
		400	101	850	1010	10.6
		400	330	3260	3300	6.5
U-38		600	188	2580	2820	14.8
		600	193	2475	2895	13.9
		600	638	9510	9570	9.5
U-38H		600	390	4650	5850	6.4
		600	360	4650	5400	6.5
		600	600	8625	9000	7.8
L-25S		400	96	900	960	3.2
		400	144	1240	1440	4.3
L-30W		400	256	2450	2560	4.5
		400	314	2760	3140	5.5
L-40S		600	365	5445	5475	6.2
		600	474	7065	7110	6.9
L-40W		600	343	4875	5145	5.3
		600	343	4905	5145	7.3
L-50W		600	708	9870	10620	6.6
		600	750	9855	11250	5.2
KC-22S		400	59	495	590	6.6
		400	97	921	970	5.2
KC-35		600	240	3300	3600	5.5
		600	308	4389	4620	4.4
KC-40PB		1000	370	9150	9250	35.0
		2000	340	16800	17000	80.0



Description

- Maximum load**
Load Pmax when the specimen breaks with concentrated load at P point
- Yield moment**
The point at which the deflection curve under load became 1/3 of the initial inclination θ was calculated as Py yield load.
(Yield load X distance between supporting points / 4)
- Maximum bending moment**
Calculated from the maximum load of Pmax.
(Maximum load X distance between supporting points / 4)
- Bending moment**
It is a force generated by a moment (a force acting to rotate) by an external force at a certain point on a member.

- Calculation of the maximum load (Px), safety load (Ax) at any span (Lx)**

Example: L-40W Lx = 1200 mm

- Maximum load**

$$P_x = \frac{\text{test span (L)}}{\text{test results (Pmax)}} \times \frac{600}{1200} = 171.5$$
- Safety load**

$$A_x = 171.5 \times \frac{1}{3} = 57.2$$

※When the safety load is $\frac{1}{3}$ of the maximum load

Salt spray test

- Sample**
Multi-angle L-40W
galvanized / colored chromate
- Test method**
JIS Z2371
(Salt spray test method)

Plating thickness test

- Sample**
Multi-angle L-40W
galvanized / colored chromate
- Test method**
According to JIS H8610
(Electrolytic thickness gauge)

Test results

Sample	L-40W
Spray time	16 hours
Pause	32 hours
total	48 hours
Surface condition	No white corrosion product

Test results

Sample	Galvanized (μ)
L-40W	7.5

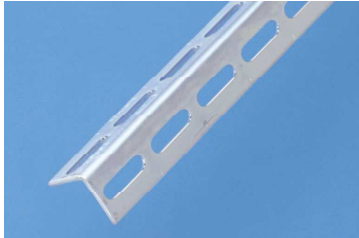
Trivalent plating salt spray plating test result

	Our Trivalent Chromate	Other company
24hours		
	There was no change.	White corrosion product.
48hours		
	There was no change.	White corrosion product.
72hours		
	There was no change.	White corrosion product.

About Multi-angle/Multi-channel plating, material

The material of the Multi-angle/Multi-channel is iron (SPHC / SPCC steel plate). Galvanize with good iron bonding to prevent rusting of iron surface. Zinc also loses its white greasy luster when the surface is oxidized. It is treated with chromate to prevent it, keep beautiful gloss forever, and enhance corrosion resistance. There are several types of finishes depending on the chemical being processed.

Galvanized



<Plated notation of Kameda model number>

- 3C: trivalent chromate (Trivalent Unichrome plating)

It has excellent corrosion resistance because it contains no harmful hexavalent chromium.

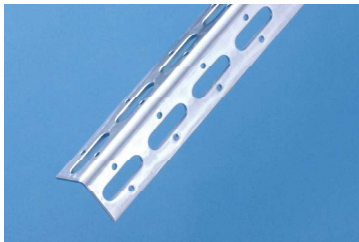
Surface color:

White silver similar to Unichrome plating, slightly reddish.

Application: For indoor use

RoHS compliant

※ As it is weak to sweat, please wear work gloves etc. for handling.



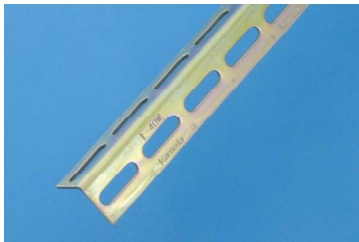
- UN: Unichrome plating (hexavalent)

It is often used for architectural hardware that emphasizes aesthetics.

Surface color: white silver

Corrosion resistance is slightly inferior to colored chromate.

Application: For indoor use



- YC: Colored chromate plating

The most widely used surface treatment method to date. The plating layer contains hexavalent chromium which is said to be a trace amount of harmful.

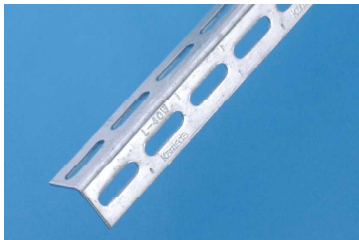
Surface color:

There is uneven color in golden (yellowish brown)

※ Because of non-RoHS compliance, it will be made to order.

Application: For indoor use

Molten zinc



- ZN: Molten zinc (Hot-dip galvanized)

Soak in hot zinc and plate. The plating is thick and the surface is uneven. Suitable for use outdoors or in high humidity.

Surface color:

Dull silver

It will lose its luster over time

Application: Outdoor

Galvanized steel plate



- ZAM®: ZAM® steel plate
- ZK: galvanized steel plate

It is plated with zinc or a zinc alloy at the steel plate manufacturing stage, has excellent corrosion resistance and is inexpensive.

In particular, ZAM® has been recognized to outperform

Surface color:

Shiny silver

Slightly dull silver (ZK)

RoHS compliant (ZAM®)

1) "ZAM®" is a registered trademark of Nisshin Steel Co., Ltd.

2) "ZAM®" is a trade name of hot-dip zinc-aluminum Al-magnesium Mg alloy plated steel sheet developed by Nisshin Steel Co., Ltd.

Application: both indoor and outdoor

Stainless steel



- SUS: stainless steel (SUS304)

It is aesthetically pleasing, corrosion resistant, and suitable for outdoor and water use.

It is more expensive than iron products.

Surface color: Shiny silver

RoHS compliant

Application: both indoor and outdoor

Our safety and quality is for smile
Make people smile with electricity



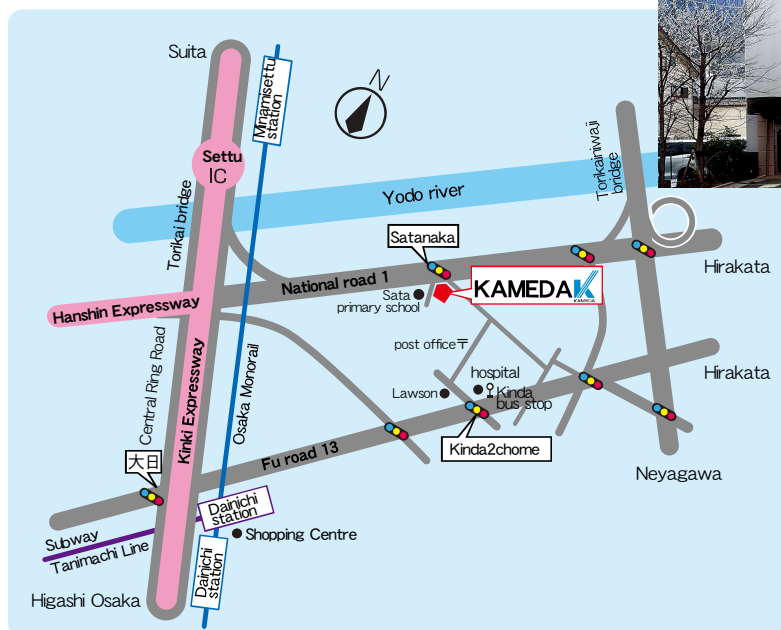
Company Philosophy of KAMEDA DENKI

- We will not forget the founding spirit of prayer.
- We will always keep our promises.
- We aim for human growth through work.
- We find new value in each other.

Access

Osaka Headquarters

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URL <http://www.kameden.com>
E-mail eigyo@kameden.com
Sales office: Tokyo, Osaka, Nagoya, Fukuoka



Traffic access

〈Transportation〉

● Keihan bus from Daiichi Station
7 minutes walk from Kinda bus stop

〈For car〉

● Hanshin Expressway No. 12 Moriguchi Line
Route 1 from Moriguchi exit
Satanakamachi signal turn right
● Fu 13 Route Hirakata
Kinda2chome signal left turn,
Lawson turn right, butt turn left

Company Profile

location 6-47-7 Satanaka-machi, Moriguchi city, Osaka fu,
570-0002, JAPAN
Representative President Toshiaki Shimauchi
Establishment July 1960
Capital 20 million yen
Bank Kyoto Bank Kadoma Branch
Mitsubishi UFJ Bank Keihan Kyobashi Branch
Business content Multi-angle, Panel Assembly System,
Wiring Accessories, Piping support material

Company certification Governor of Osaka Prefecture (General-28) No. 146573
Manufacturing spirit company
(Moriguchi Kadoma Chamber of Commerce authorized)
Membership of professional Japan Power Distribution Control System Association
institutions Kansai Section
Kansai switchboard industrial cooperative
Japan Wiring Materials Industry Association
Moriguchi Kadoma chamber of commerce
Japan Lighting Coordination Association

business information

Multi Purpose Angle
Multi-angle channel, U Kanag, various brackets
Panel Assembly System
Din rail
Mini canag
Supporter
Insulating support
Distribution board parts
Busbar and copper products
Ventilation louver
Eco Lighting
Rail socket
LED lighting various

Wiring Accessories
Cable band
Wiring fixture
Terminal cap
High sticker, clamps
Spiral tube
Vinyl tube, Shrinkable tube
Wiring duct
Terminal block
Display parts
Crimping tools and other tools



Kameda Denki Image Character 亀殿©

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please note

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Please forgive the mistake of expression.

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URL <https://www.kameden.com>

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