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WIRING ACCESSORY CATALOG



Total Solution

INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT



RoHS compliant mark :

The RoHS compliant products are indicated with the mark in this catalogue.

 **SHINAGAWA SHOKO CO.,LTD.**

MEET THE SATISFACTION

We, Shinagawa Shoko,
believe it is our mission to cover
the needs of our client with the best solutions
in the field of wiring accessories.

WIRING ACCESSORY



QUALITY

Quality is the "MUST" for us. From this concept, we already have obtained UL or RoHS compliance for various products as one example, and we will not be any happier than endeavoring everyday for better quality.

We think

ENVIRONMENT

Upon rising concern about environment on the earth, we support the environmental-friendly, re-usable and recycle products to contribute to the achievement of recycling society.



We are certified by the international quality and environment management system of ISO9001/14001 for HQ, Logistic Center, Haneda Factory 1, and Haneda Factory 2.

The RoHS compliant products are indicated with the mark in this catalogue.

RoHS compliant mark



※RoHS

It is the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment enacted by EU (European Union) on July 1st, 2006 onward.

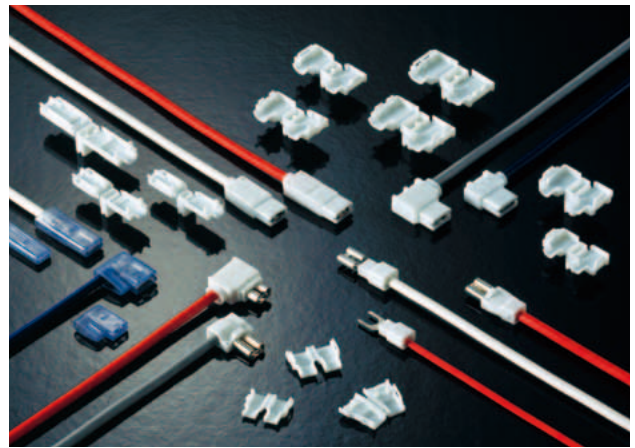
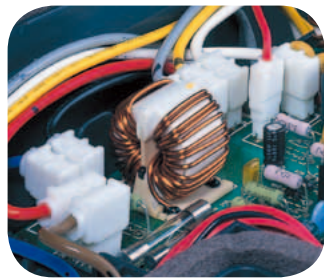
It is to restrict the use of Cadmium (and its compounds), Lead (and its compounds), Mercury (and its compounds) and Hexavalent chromium (and its compounds), PBB and PBDE for the purpose to minimize the risk of contamination and health hazards.

Contact us for the product with no mark or updated information.

1 INSULATION SLEEVE FOR TERMINAL

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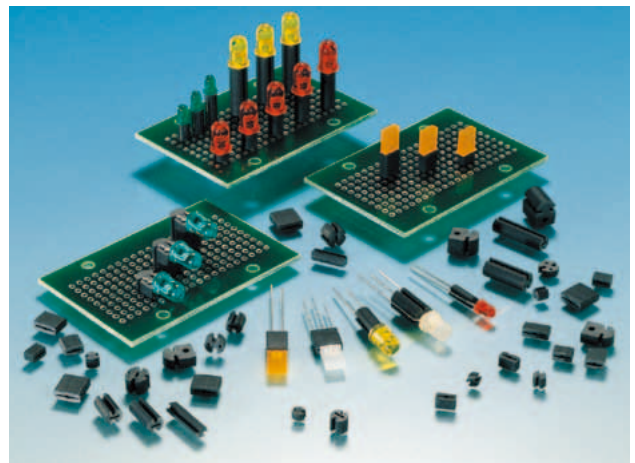
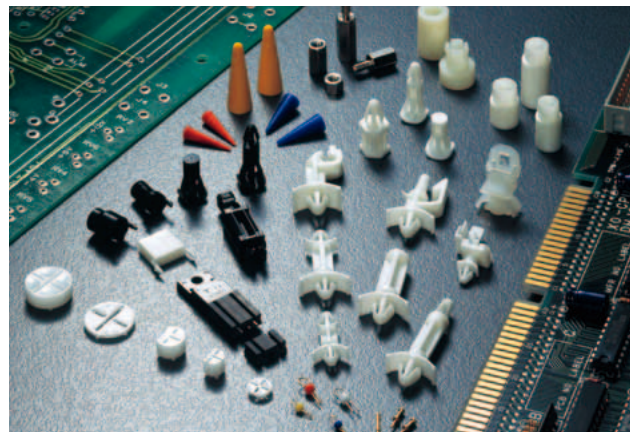
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- **Pitak®**
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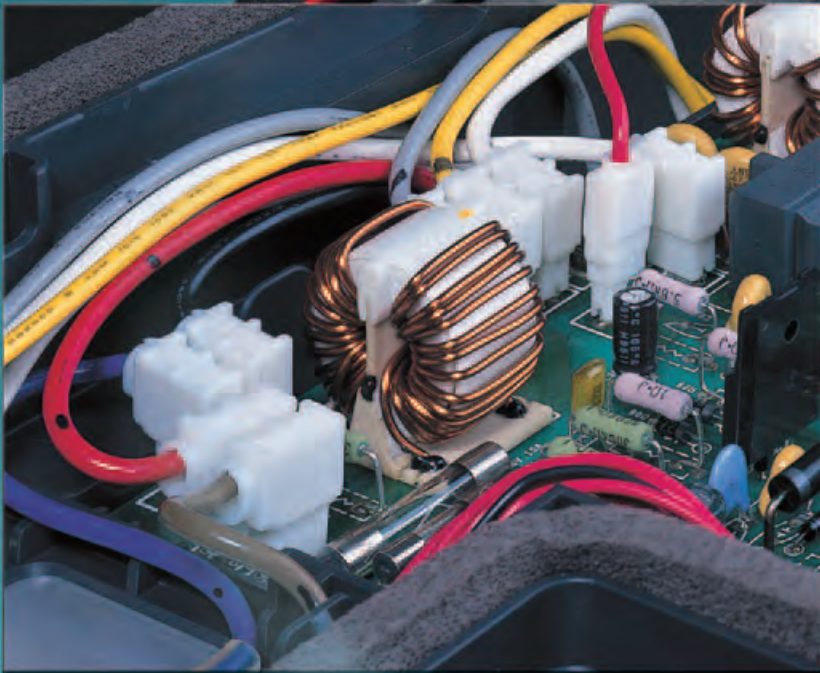
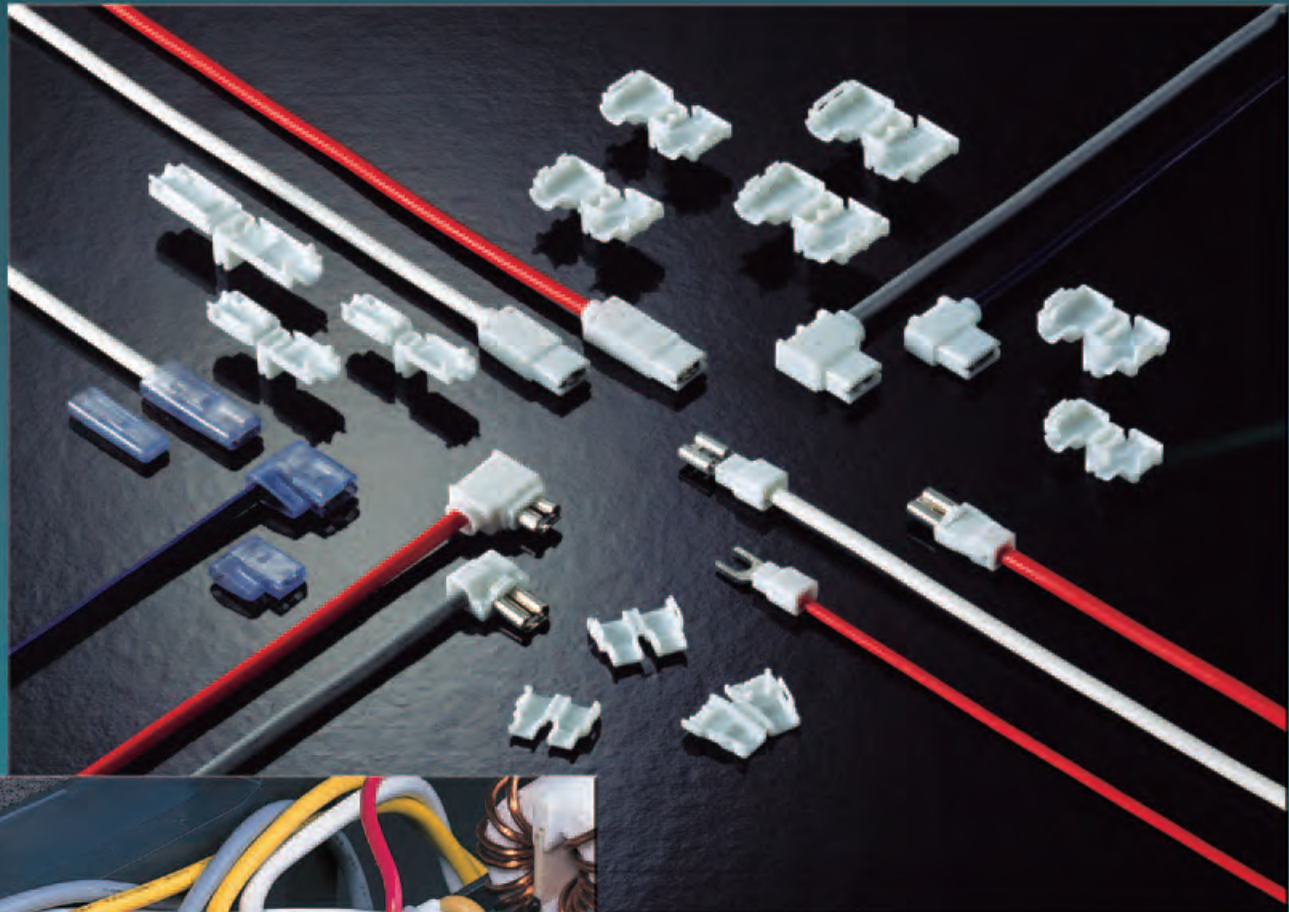
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WIRING ACCESSORY





SHINAGAWA SHOKO INSULATION SLEEVE FOR TERMINAL

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One touch sleeve

OS/OF series

INSULATION SLEEVE FOR TERMINAL

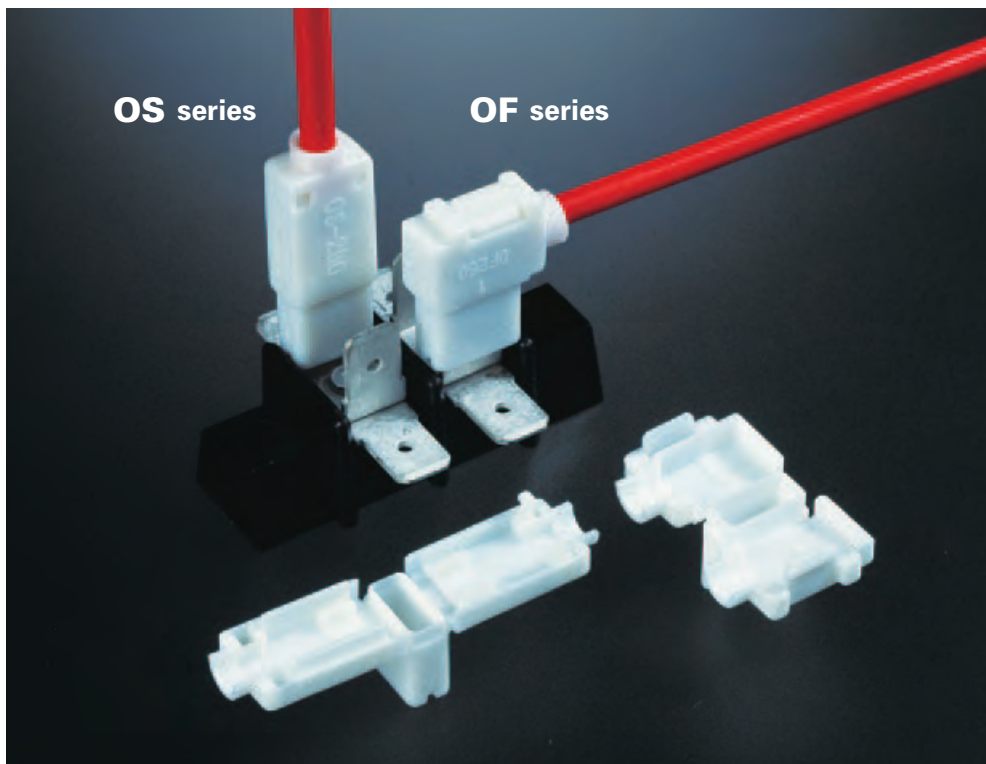
CIRCUIT BOARD ACCESSORY

WIRING CLAMP

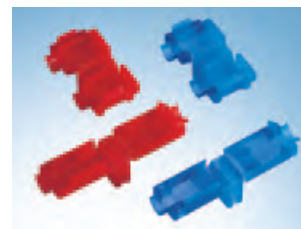
WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT



※ Red and blue colors are also stocked for OS-110, OS-187, OS-250, OF-187 and OF-250.



Feature

- Insulation sleeve for straight and flag-type terminal.
- Can be attached after the terminal slotted onto the tab.
- Stay firmly onto the tab with shoulder owing to the slit aside of the sleeve.
- Prevent terminal from the foreign object coming through the cable entry.

Material

Nylon 6 UL94V-2
Nylon 66 UL94V-0

Standard color

Nylon 6: Natural
Nylon 66: White

(Red and blue colors are also stocked for OS-110, OS-187, OS-250, OF-187 and OF-250)



UL recognized product E55167

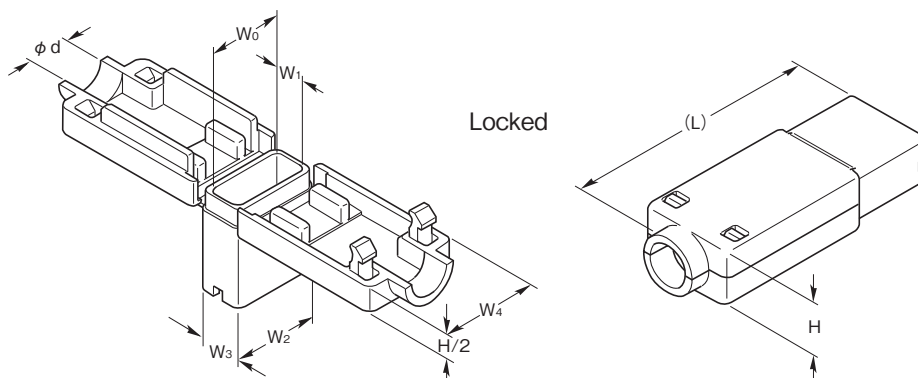
Cat. No. 50B, 51, 51A, 52, 52A, 60, 60A, 61, 61A, 62, 70 Rating: 80°C, 600V
50BU, 51U, 51AU, 52U, 52AU, 60U, 60AU, 61U, 61AU, 62U, 70U, 71U, 72U Rating: 105°C, 600V



CSA recognized product LR83372

Cat. No. 50B, 51, 51A, 52, 52A, 60, 60A, 61, 61A, 70 Rating: 90°C, 300V

For straight terminal (OS series)



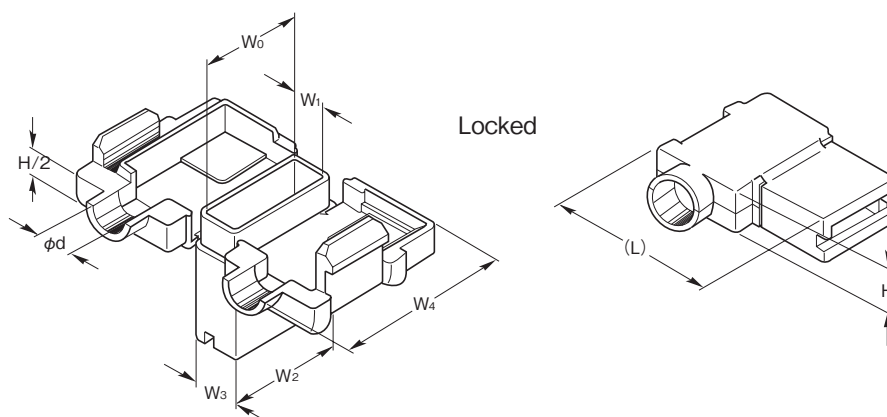
● Close the end of the sleeve as shown in the photos.



Part No.		Applicable terminal	Dimensions (mm)										Cat.No.	
UL94V-2	UL94V-0		Applicable wire	Nipping point	ϕd	W_0	W_1	W_2	W_3	W_4	H	(L)	94V-2	94V-0
OS-110	OS-110U	Straight 110 series	ϕ 3.0 or less	3.0 or less	3.0	4.1	2.3	6.0	3.9	8.0	4.6	22.3	52A	52AU
OS-187	OS-187U	Straight 187 series	ϕ 3.6 or less	3.6 or less	3.6	6.1	2.6	7.5	3.9	8.8	5.2	21.9	51A	51AU
OS-205	OS-205U	Straight 205 series	ϕ 3.6 or less	3.6 or less	3.6	6.8	2.9	8.5	4.4	8.8	5.2	24.6	51A	51AU
OS-250	OS-250U	Straight 250 series	ϕ 4.1 or less	4.1 or less	4.1	8.0	3.4	9.3	4.7	9.8	5.6	26.0	50B	50BU

Packing unit : 500 pieces

For flag-type terminal (OF series)



● Close the end of the sleeve as shown in the photos.



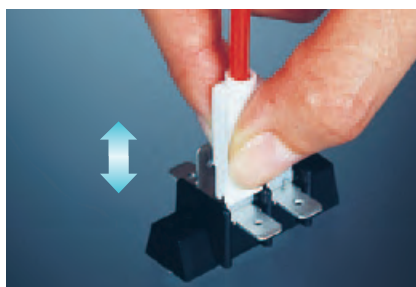
Part No.		Applicable terminal	Dimensions (mm)										Cat.No.	
UL94V-2	UL94V-0		Applicable wire	Nipping point	ϕd	W_0	W_1	W_2	W_3	W_4	H	(L)	94V-2	94V-0
OF-187	OF-187U	Flag-type 187 series	ϕ 3.6 or less	3.6 or less	3.6	6.4	3.0	7.9	4.5	13.5	5.4	15.5	61A	61AU
OF-187N	OF-187NU	Flag-type 187 series	ϕ 3.4 or less	3.4 or less	3.4	6.4	3.0	7.9	4.5	13.5	5.4	14.6	61A	61AU
OF-205	OF-205U	Flag-type 205 series	ϕ 4.0 or less	4.0 or less	4.0	7.0	3.2	8.7	4.7	15.0	5.8	15.5	60A	60AU
OF-250	OF-250U	Flag-type 250 series	ϕ 3.9 or less	4.6 or less	3.9	8.8	3.9	10.3	5.1	16.0	6.0	18.0	60A	60AU
※ OF-250S	OF-250SU	Flag-type 250 series	ϕ 5.0 or less	6.6 or less	5.0	8.8	5.0	10.2	6.4	16.9	7.2	17.8	62	62U

※ For refrigerator, air-compressor of air-conditioner etc, and sealed terminal.

Packing unit : 500 pieces

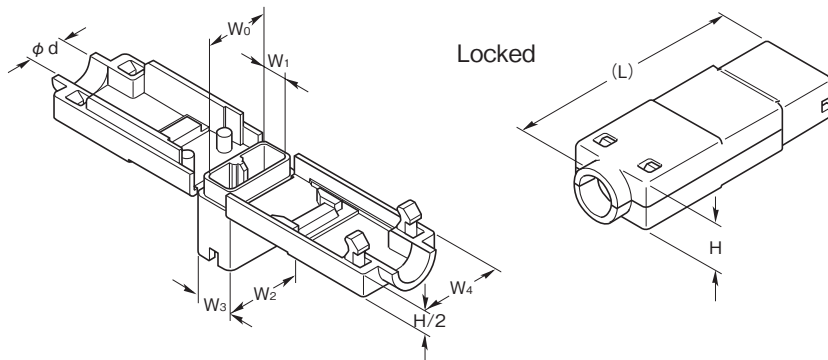
One touch sleeve

PS series



Feature

- One touch sleeve which can be used for the terminal as below.
 - Positive-lock EX terminal Straight Type (Tyco Electronics "AMP")
 - PS connector-contact Straight Type (J.S.T.)
- Easily removable from the tab by holding the sleeve body, which unlocks the locking system.
- Prevent terminal from the foreign object coming through the cable entry.



Material Nylon 66 **Standard color** UL94V-0 White

UL recognized product **E55167**

Cat. No. 71U, 72U Rating: 105°C, 600V

Part No.	Applicable terminal	Dimensions (mm)										Cat.No.
		Applicable wire	Nipping point	ϕd	W_0	W_1	W_2	W_3	W_4	H	(L)	
PS-187U	Straight 187	ϕ 4.0 or less	4.0 or less	4.0	5.8	2.7	7.2	4.0	9.4	5.6	24.8	71U
PS-250U	Straight 250	ϕ 4.4 or less	4.4 or less	4.4	8.1	3.4	9.5	4.8	10.0	6.0	28.0	72U

Packing unit : 500 pieces

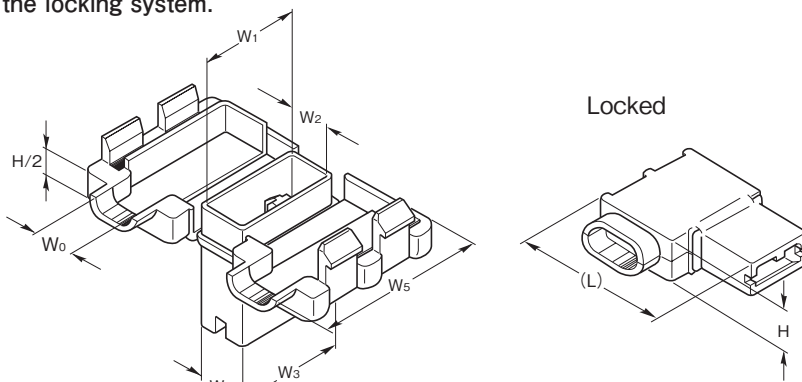
One touch sleeve

PF series



Feature

- One touch sleeve which can be used for the terminal as below.
 - Positive-lock EX terminal Flag Type (Tyco Electronics "AMP")
- Easily removable from the tab by holding the sleeve body, which unlocks the locking system.



Material Nylon 66 **Standard color** UL94V-2: Natural
UL94V-0: White

UL recognized product **E55167**

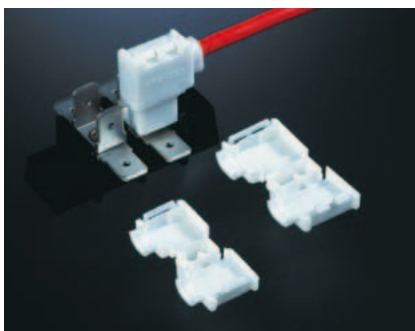
Cat. No. 70 Rating: 80°C, 600V
70U Rating: 105°C, 600V

Part No.		Applicable terminal	Dimensions (mm)										Cat.No.	
UL94V-2	UL94V-0		Applicable wire	Nipping point	W_0	W_1	W_2	W_3	W_4	W_5	H	(L)	94V-2	94V-0
PF-187	PF-187U	Flag-type EX 187	ϕ 4.0 or less	4.4 or less	5.0	6.0	2.8	8.0	4.7	14.5	6.4	17.2	70	70U
PF-250	PF-250U	Flag-type EX 250		4.8 or less	6.0	8.0	3.4	10.0	5.4	17.0	7.0	19.6		

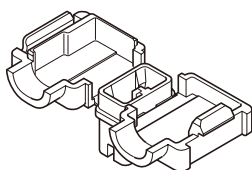
Packing unit : 500 pieces

One touch sleeve

FPS series



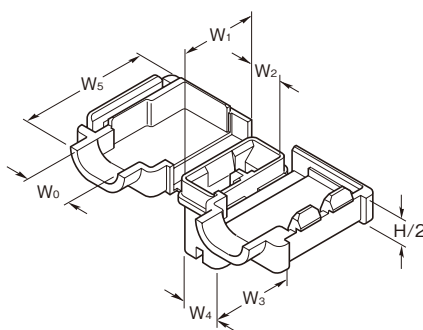
FPS-187U



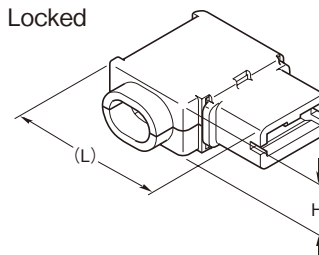
Feature

- One touch sleeve which can be used for the terminal as below.
 - PS connector-contact Flag Type (J.S.T.)
- Easily removable from the tab by holding the sleeve body, which unlocks the locking system.

FPS-250U



Locked



Material Nylon 66 UL94V-0 **Standard color** White



UL recognized product E55167

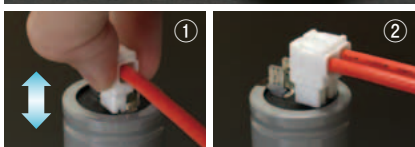
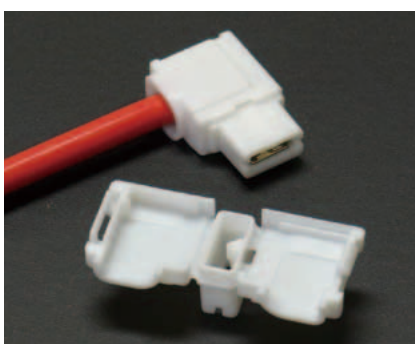
Cat. No. 70U Rating: 105°C, 600V

Part No.	Applicable terminal	Dimensions (mm)										Cat.No.
		Applicable wire	Nipping point	W ₀	W ₁	W ₂	W ₃	W ₄	W ₅	H	(L)	
FPS-187U	Flag-type 187	φ 4.0 or less	4.4 or less	5.0	5.8	2.8	8.0	4.7	14.5	6.4	17.5	70U
FPS-250U	Flag-type 250		4.8 or less	6.0	8.0	3.4	10.0	5.4	17.0	7.0	19.8	

Packing unit : 500 pieces

One touch sleeve

FW series

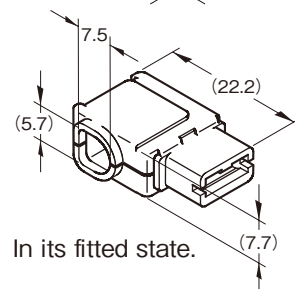
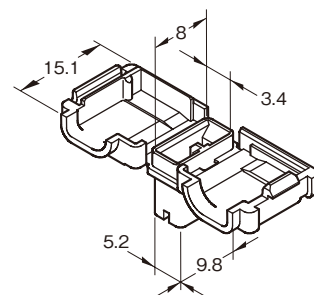


- ① Easy to attach and remove.
- ② Sleeves can be lined up and connected.

Feature

- Flag-shaped 250 nylon sleeves for Positive Lock EX Terminals for Thick Wires and PS Connectors/Contacts.
- Prevents incorrect insertion into tab terminals and allows easy separation from tab terminals because removing the sleeve itself causes the terminal lock to open. (See Picture ①)
- An 8-mm terminal block between tab terminals allows sleeves to be lined up and connected for electrolytic capacitors, etc. (See Picture ②)

FW-250U



In its fitted state.

Material Nylon 66 (UL94V-0) **Standard color** White



UL recognized product E55167

Cat. FW-250U## Rating: 105°C, 600V

Manufacturer	TYCO Electronics Japan, Ltd.	JST Mfg. Co., Ltd.
Number	175178-1	SFPS-91T-250
Model	Positive Lock EX 250 Flag-Shaped	PS Connector/Contact #250 Flag-Shaped
Applicable Electrical Wires	AWG #12-10 (diameter 5.2 mm or less, crimp height of cover 5.7 mm or shorter)	

Packing unit : 500 pieces

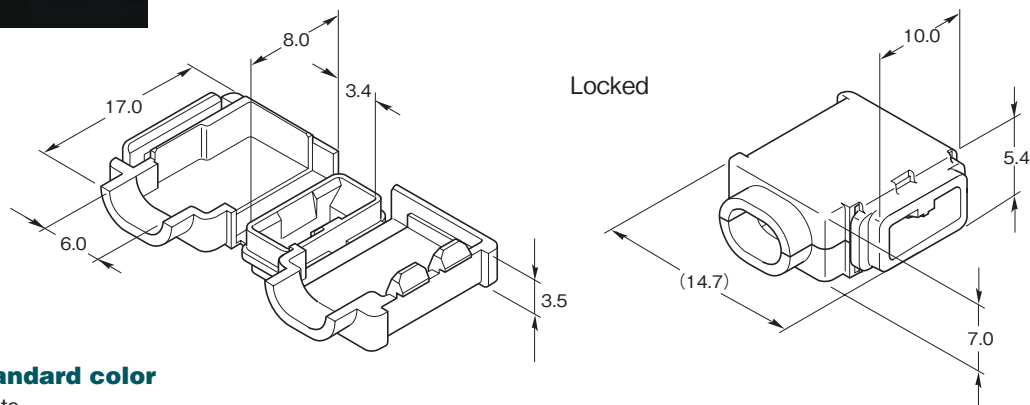
One touch sleeve

HF-250U



Feature

- Protection cover having the direct view of locking point, and a good heat radiation.
- Can be used for the terminal as below.
 - Positive-lock EX terminal Flag Type 250 (Tyco Electronics "AMP")
 - PS connector-contact Flag Type 250 (J.S.T.)
- Easily removable from the tab by holding the sleeve body, which unlocks the locking system.



Material Standard color

Nylon 66 UL94V-0 White

Part No.	Applicable terminal	Dimensions (mm)		Packing unit (pieces)
		Applicable wire	Nipping point	
HF-250U	Flag-type 250	φ 4.0 or less	4.8 or less	500

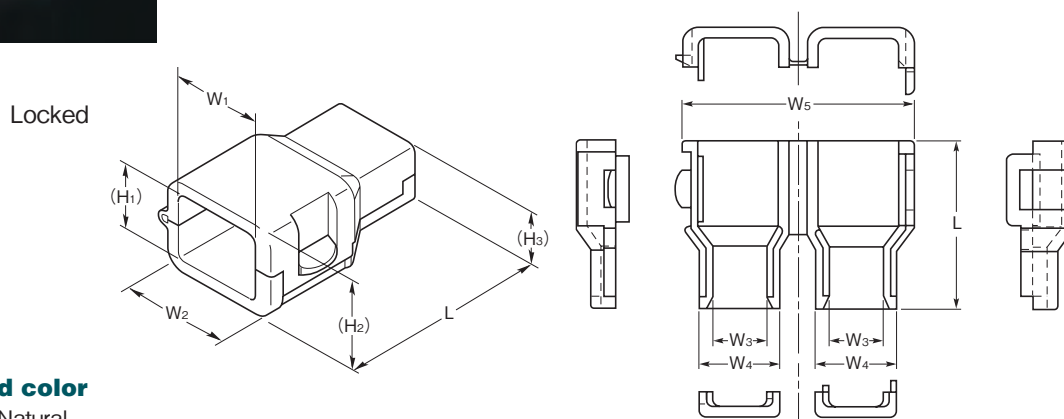
Crimp cover[®]

CPS series



Feature

- Protection and insulation cover for the nipping point of wire and terminal.
- Easily snapped-on after the terminal slotted onto the tab.
- By covering only nipping point, these will not block the heat radiation.
- Can be used for tubular-shaped terminal besides standard straight, positive-lock EX terminal straight-shaped.



Material Standard color

Nylon 66
UL94V-2: Natural
UL94V-0: White

Part No.	Applicable terminal	Dimensions (mm)											Packing unit (pieces)	
		Applicable wire	Nipping point	W ₁	W ₂	W ₃	W ₄	W ₅	H ₁	H ₂	H ₃	L		
UL94V-2	UL94V-0													
CPS-30	CPS-30U	φ 2.0 ~ φ 3.0	3.6×4.7 or less	4.7	7.1	3.0	5.6	15.6	3.6	5.2	3.6	11.7	500	
CPS-38	CPS-38U	φ 3.3 ~ φ 3.8	4.4×5.7 or less	5.7	8.1	4.1	6.1	17.6	4.4	6.0	3.8	12.7		

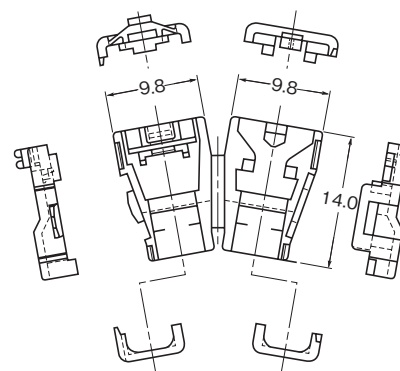
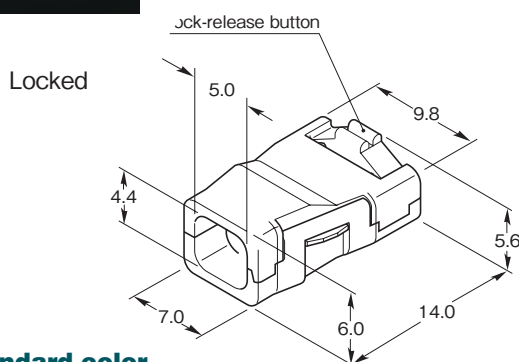
Crimp cover®

CPS-250U



Feature

- Crimp cover which can be used for the terminal as below.
 - Positive-lock EX terminal Straight Type 250 (Tyco Electronics "AMP")
 - PS connector-contact Straight Type 250 (J.S.T.)
- Easily removable from the tab by pulling while the lock-release button is pressed.



Material

Nylon 66 UL94V-0

Standard color

White

Part No.	Applicable terminal	Dimensions (mm)		Packing unit (pieces)
		Applicable wire	Nipping point	
CPS-250U	Straight 250	φ 3.9 or less	4.4×5.0 or less	500

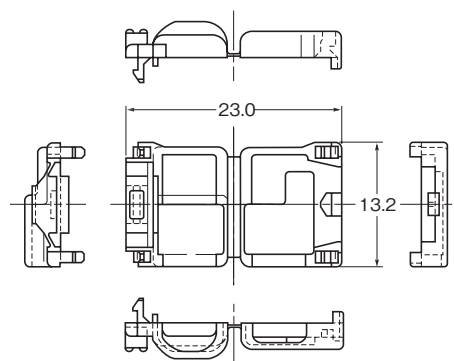
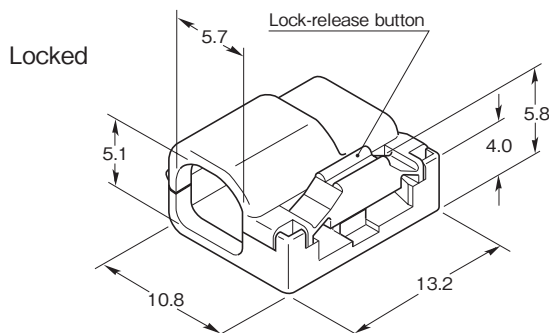
Crimp cover®

CPF-250U



Feature

- Crimp cover which can be used for the terminal as below.
 - Positive-lock EX terminal Flag Type 250 (Tyco Electronics "AMP")
 - PS connector-contact Flag Type 250 (J.S.T.)
- Easily removable from the tab by pulling while the lock-release button is pressed.



Material

Nylon 66 UL94V-0

Standard color

White

Part No.	Applicable terminal	Dimensions (mm)		Packing unit (pieces)
		Applicable wire	Nipping point	
CPF-250U	Flag-type 250	φ 5.0 or less	5.2×6.8 or less	500



Connector Sleeve

DS/DS-P/DF series

Feature

- Insulation sleeve, which can be slotted after the wire connected to the terminal, made of soft PVC through the injection production.
- Easy to handle, can be used for double nipping.

Material

Soft PVC
UL recognized material (E58538):
SS107UFTT

Standard color

Blue transparent (23)



Cat. No. 30, 31 Flammable Rating VW-1..... Rating: 105°C, 600V



Cat. No. 30, 31..... Rating: 105°C, 600V

DS/DS-P series

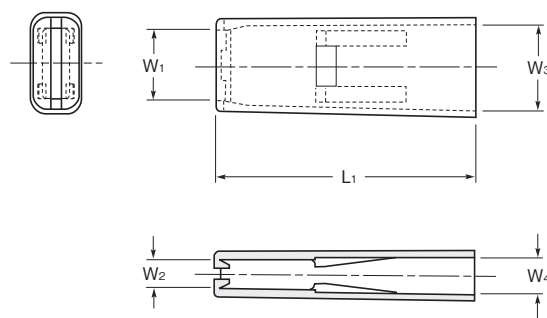
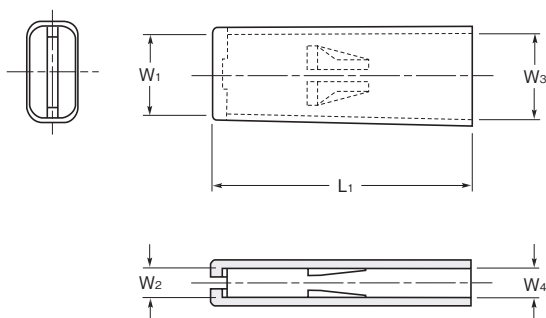


Feature

- DS/DS-P series can be installed regardless the front or back face.
- DS series can be used for the terminal as below.
 - Straight standard terminal
- DS-P series can be used for the terminal as below.
 - Positive-lock EX terminal Straight Type (Tyco Electronics "AMP")
 - PS connector-contact Straight Type (J.S.T.)

DS series

DS-P series



Note: The internal design of the DS-110U is different.

Part No.	Applicable wire	Dimensions (mm)					Cat. No.	Packing unit (pieces)
		W ₁	W ₂	W ₃	W ₄	L ₁		
DS-110U	Straight 110	2.9	1.4	4.4	3.0	22.0	31	1,000
DS-187U	Straight 187	5.7	2.5	6.3	3.0	22.5		
DS-250U	Straight 250	7.6	3.1	8.5	3.7	26.0		
DS-187PU	Straight 187	5.5	2.3	6.3	2.9	22.5		
DS-250PU	Straight 250	7.0	2.7	8.5	3.6	26.0		

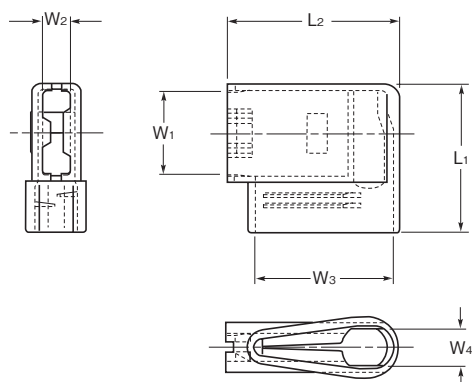


DF series



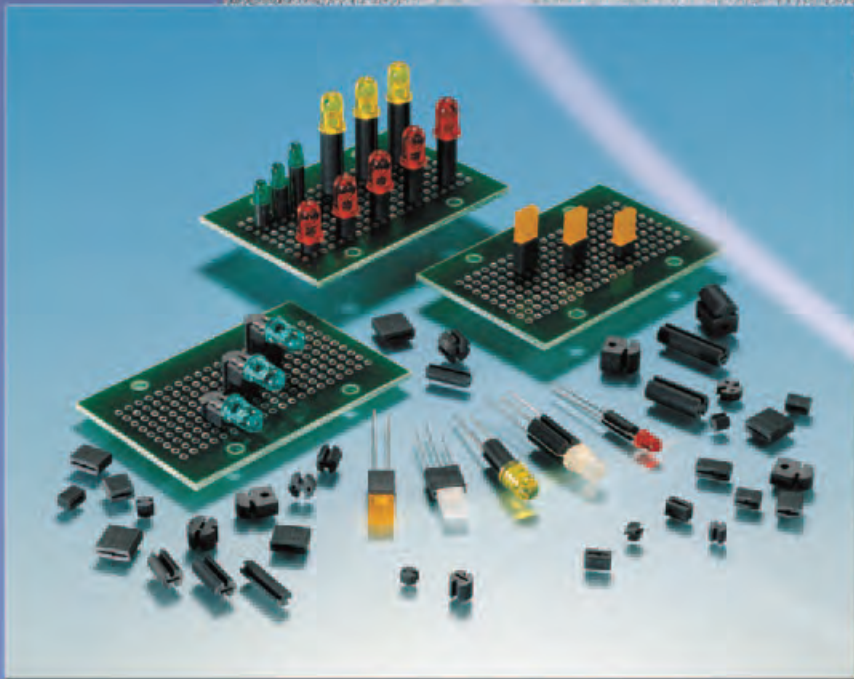
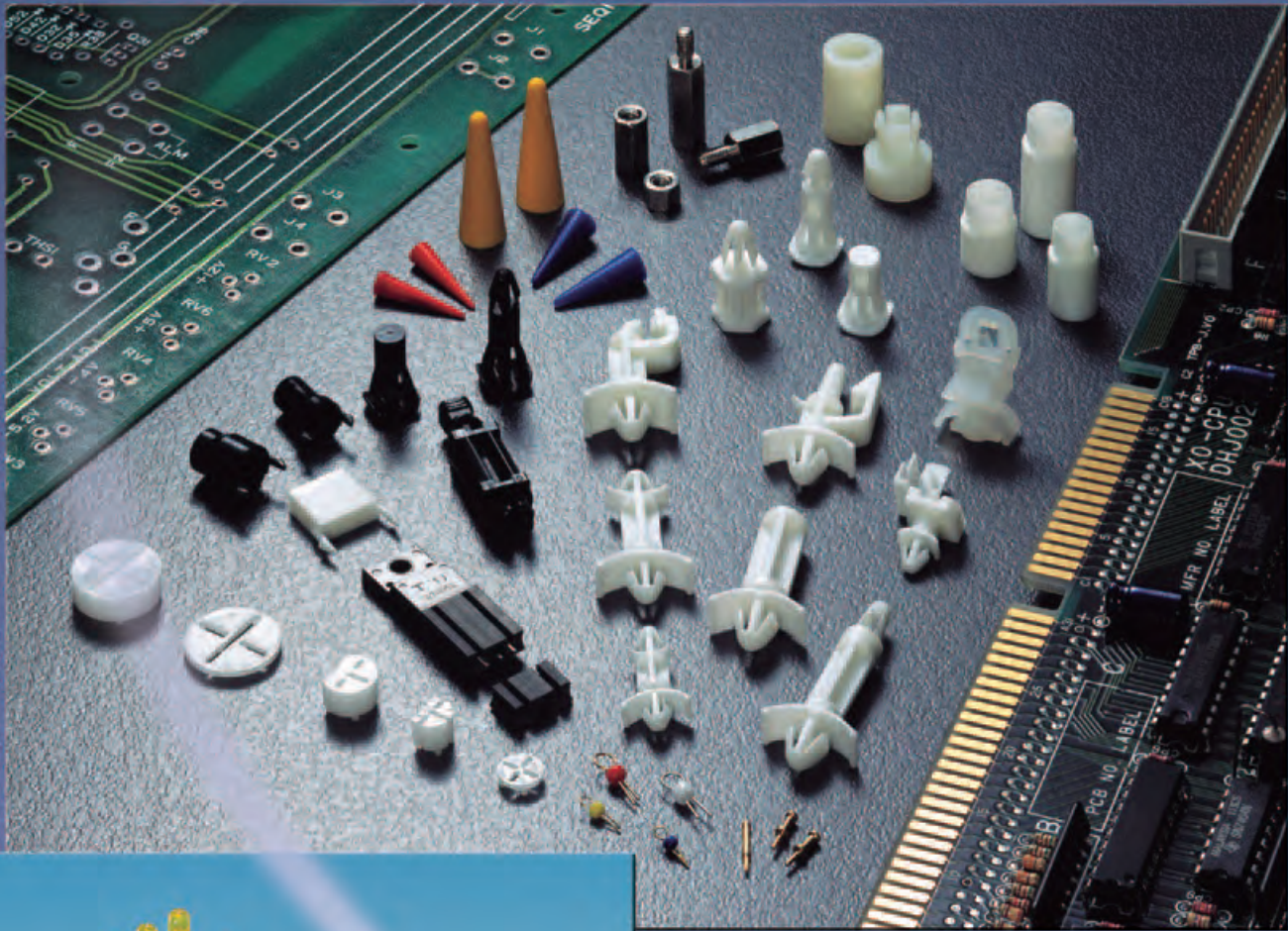
Feature

- DF series can be used for the terminal as below.
 - Flag type standard terminal
 - Positive-lock EX terminal Flag Type (Tyco Electronics "AMP")
 - PS connector-contact Flag Type (J.S.T.)
- Protect the foreign object coming into the sleeve.



Part No.	Applicable wire	Dimensions (mm)						Cat. No.	Packing unit (pieces)
		W ₁	W ₂	W ₃	W ₄	L ₁	L ₂		
DF-187U	Flag-type 187	5.7	2.3	11.0	3.0	12.5	14.5	30	1,000
DF-250U	Flag-type 250	8.3	2.8	13.8	3.7	14.8	17.2		

WIRING ACCESSORY



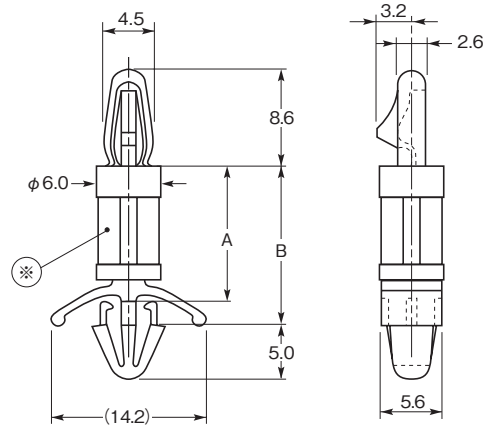
SHINAGAWA SHOKO

CIRCUIT BOARD ACCESSORY

● Circuit board spacer	SPLSN/SPSN series	20
	SPD/SPM series	21
	RSPLS/RSPS series	22
	RSPLS-L/RSPS-L series	23
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● Non-screw spacer	NS series	28
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● Automatic Insertion machine use Surface Mount type, check Terminal		
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Circuit board spacer

SPLSN series



※ SPLSN-3 has a different shape at mid-section.

Feature

- Maintain an uniform distance between chassis and P.C.B.
- Easy handling and installation of P.C.B.
- Easy to remove P.C.B.

Material

Nylon 66

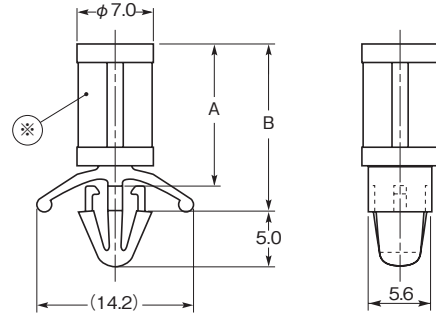
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)				Packing unit (pieces)		
UL94V-2	UL94V-0	A	B	Mounting hole				
				P.C.B.	Chassis			
SPLSN- 3	SPLSN- 3U	4.9	7.1	φ 4.0	φ 4.8	0.8 ~ 1.6	0.5 ~ 2.0	500
SPLSN- 4	SPLSN- 4U	6.2	8.4					
SPLSN- 6	SPLSN- 6U	9.4	11.6					
SPLSN- 7	SPLSN- 7U	11.0	13.2					
SPLSN- 8	SPLSN- 8U	12.5	14.7					
SPLSN-10	SPLSN-10U	15.7	17.9					
SPLSN-12	SPLSN-12U	18.9	21.1					
SPLSN-14	SPLSN-14U	22.0	24.2					
SPLSN-16	SPLSN-16U	25.1	27.3					
SPLSN-18	SPLSN-18U	28.3	30.5					
SPLSN-20	SPLSN-20U	31.5	33.7					
SPLSN-22	SPLSN-22U	34.6	36.8					

Circuit board spacer

SPSN series



※ SPSN-3 has a different shape at mid-section.

Feature

- Prevent P.C.B. from the deflection caMounted by the weight of the mounted parts.

Material

Nylon 66

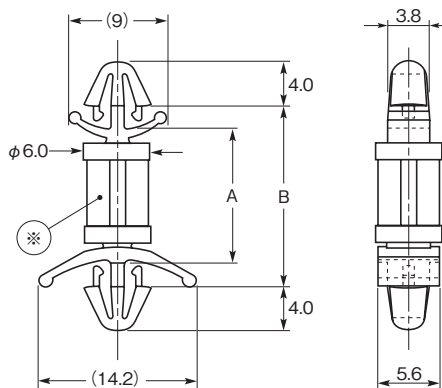
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)				Packing unit (pieces)
UL94V-2	UL94V-0	A	B	Mounting hole		
				Chassis	Chassis	
SPSN- 3	SPSN- 3U	4.9	7.1	φ 4.8	0.5 ~ 2.0	500
SPSN- 4	SPSN- 4U	6.2	8.4			
SPSN- 6	SPSN- 6U	9.4	11.6			
SPSN- 7	SPSN- 7U	11.0	13.2			
SPSN- 8	SPSN- 8U	12.5	14.7			
SPSN-10	SPSN-10U	15.7	17.9			
SPSN-12	SPSN-12U	18.9	21.1			
SPSN-14	SPSN-14U	22.0	24.2			
SPSN-16	SPSN-16U	25.1	27.3			
SPSN-18	SPSN-18U	28.3	30.5			
SPSN-20	SPSN-20U	31.5	33.7			
SPSN-22	SPSN-22U	34.6	36.8			

Circuit board spacer

SPD series



※ SPD-3, and SPD-4 have a different shape at mid-section.

Feature

- For φ4.0 mounting hole.

Material

Nylon 66

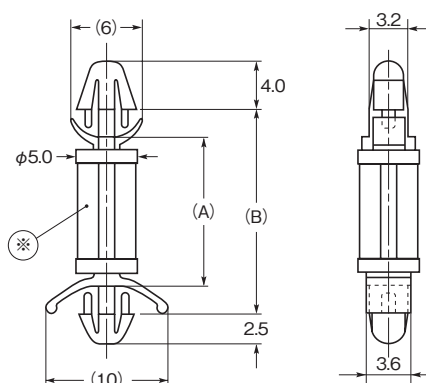
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)				Packing unit (pieces)		
UL94V-2	UL94V-0	A	B	Mounting hole			Applicable board thickness	
				P.C.B.	Chassis		P.C.B.	Chassis
SPD- 3	SPD- 3U	4.6	8.9	φ 4.0	φ 4.0	0.8 ~ 1.6	0.5 ~ 2.0	500
SPD- 4	SPD- 4U	5.9	10.2					
SPD- 6	SPD- 6U	9.1	13.4					
SPD- 7	SPD- 7U	10.7	15.0					
SPD- 8	SPD- 8U	12.2	16.5					
SPD-10	SPD-10U	15.4	19.7					
SPD-12	SPD-12U	18.6	22.9					
SPD-14	SPD-14U	21.7	26.0					

Circuit board spacer

SPM series



※ SPM-3 has a different shape at mid-section.

Feature

- For φ3.5 mounting hole.
- Stick out 2.5mm on the other side of chassis.

Material

Nylon 66

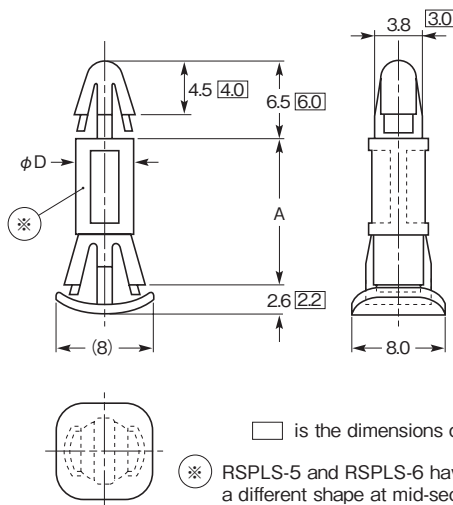
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)				Packing unit (pieces)		
UL94V-2	UL94V-0	A	B	Mounting hole			Applicable board thickness	
				P.C.B.	Chassis		P.C.B.	Chassis
SPM- 3	SPM- 3U	4.4	8.9	φ 3.5	φ 3.5	0.8 ~ 1.6	0.8 ~ 1.6	500
SPM- 4	SPM- 4U	6.0	10.5					
SPM- 5	SPM- 5U	7.6	12.1					
SPM- 6	SPM- 6U	9.2	13.7					
SPM- 7	SPM- 7U	10.8	15.3					
SPM- 8	SPM- 8U	12.3	16.8					
SPM- 9	SPM- 9U	14.0	18.5					
SPM-10	SPM-10U	15.5	20.0					
SPM-16	SPM-16U	25.5	30.0					

Circuit board spacer

RSPLS series



□ is the dimensions of M-type.

※ RSPLS-5 and RSPLS-6 have a different shape at mid-section.

Feature

- Can be easily snapped on from the other side of chassis.
- Stick out 2.1mm or less on the other side of chassis.

Material

Nylon 66

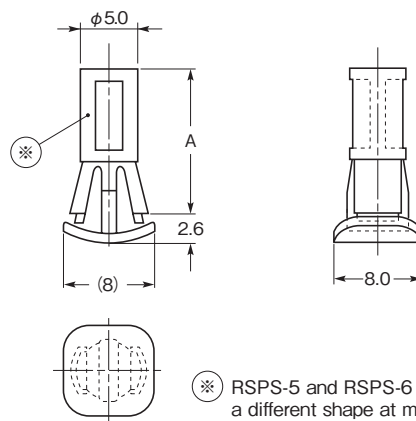
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)					Packing unit (pieces)	
UL94V-2	UL94V-0	A	φ D	Mounting hole		Applicable board thickness		
				P.C.B.	Chassis	P.C.B.		Chassis
RSPLS- 5	RSPLS- 5U	5.0	5.0	φ 4.0	φ 5.5	1.6	0.5 ~ 1.0	500
RSPLS- 6	RSPLS- 6U	6.0						
RSPLS- 8	RSPLS- 8U	8.0						
RSPLS- 10	RSPLS- 10U	10.0						
RSPLS- 12	RSPLS- 12U	12.0						
RSPLS- 14	RSPLS- 14U	14.0						
RSPLS- 16	RSPLS- 16U	16.0						
RSPLS- 18	RSPLS- 18U	18.0	4.6	φ 3.2	φ 4.8			
RSPLS-4M	RSPLS-4MU	6.2						
RSPLS-8M	RSPLS-8MU	12.8						

Circuit board spacer

RSPS series



※ RSPS-5 and RSPS-6 have a different shape at mid-section.

Feature

- Prevent P.C.B. from the deflection caused by the weight of the mounted parts.
- Can be easily snapped on from the other side of chassis.
- Stick out 2.1mm or less on the other side of chassis.

Material

Nylon 66

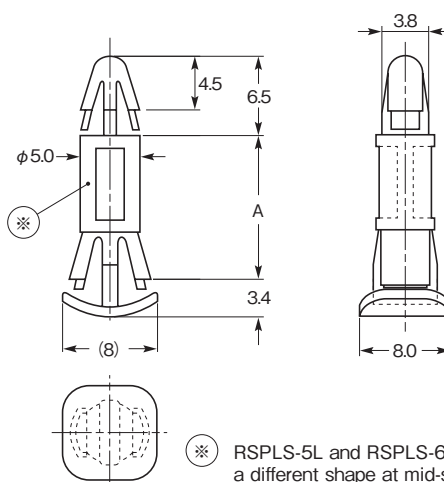
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)			Packing unit (pieces)
UL94V-2	UL94V-0	A	Mounting hole	Applicable board thickness	
RSPS- 5	RSPS- 5U	5.0	φ 5.5	0.5 ~ 1.0	500
RSPS- 6	RSPS- 6U	6.0			
RSPS- 8	RSPS- 8U	8.0			
RSPS-10	RSPS-10U	10.0			
RSPS-12	RSPS-12U	12.0			
RSPS-14	RSPS-14U	14.0			
RSPS-16	RSPS-16U	16.0			
RSPS-18	RSPS-18U	18.0			

Circuit board spacer

RSPLS-L series



Feature

- These are the modification of RSPLS to be compatible with 1.2t ~ 2.0t thickness of chassis.

Material

Nylon 66

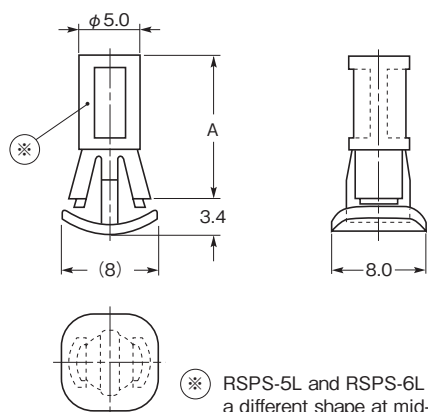
Standard color

UL94V-2: Black
UL94V-0: Black

Part No.		A	Dimensions (mm)				Packing unit (pieces)
UL94V-2	UL94V-0		Mounting hole		Applicable board thickness		
			P.C.B.	Chassis	P.C.B.	Chassis	
RSPLS- 5L	RSPLS- 5LU	5.0					
RSPLS- 6L	RSPLS- 6LU	6.0					
RSPLS- 8L	RSPLS- 8LU	8.0					
RSPLS-10L	RSPLS-10LU	10.0					
RSPLS-12L	RSPLS-12LU	12.0	φ 4.0	φ 5.5	1.6	1.2 ~ 2.0	500
RSPLS-14L	RSPLS-14LU	14.0					
RSPLS-16L	RSPLS-16LU	16.0					
RSPLS-17L	RSPLS-17LU	17.0					
RSPLS-18L	RSPLS-18LU	18.0					

Circuit board spacer

RSPS-L series



Feature

- These are the modification of RSPS to be compatible with 1.2t ~ 2.0t thickness of chassis.

Material

Nylon 66

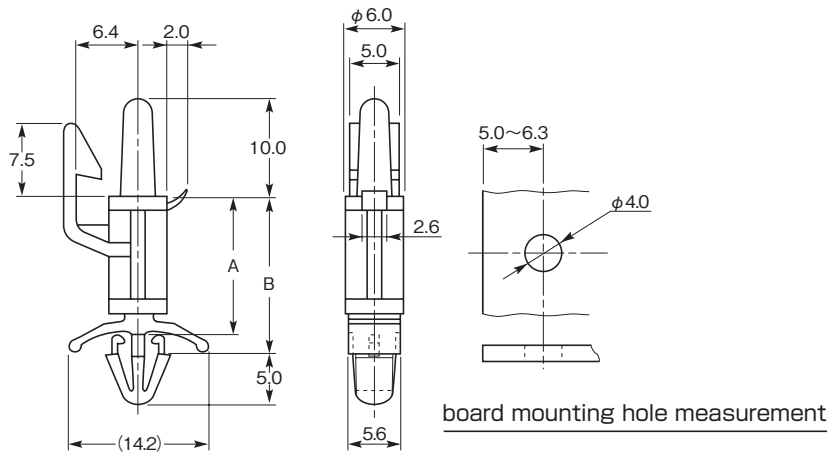
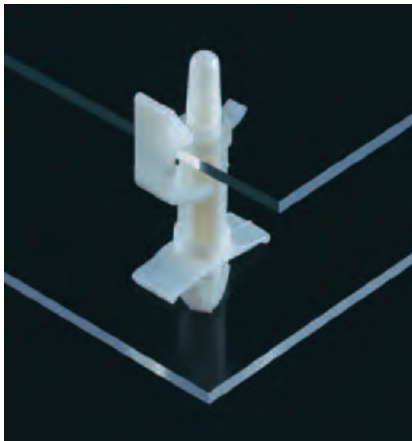
Standard color

UL94V-2: Black
UL94V-0: Black

Part No.		A	Dimensions (mm)		Packing unit (pieces)
UL94V-2	UL94V-0		Mounting hole	Applicable board thickness	
RSPS- 5L	RSPS- 5LU	5.0			
RSPS- 6L	RSPS- 6LU	6.0			
RSPS- 8L	RSPS- 8LU	8.0			
RSPS-10L	RSPS-10LU	10.0			
RSPS-12L	RSPS-12LU	12.0	φ 5.5	1.2 ~ 2.0	500
RSPS-14L	RSPS-14LU	14.0			
RSPS-16L	RSPS-16LU	16.0			
RSPS-17L	RSPS-17LU	17.0			
RSPS-18L	RSPS-18LU	18.0			

Circuit board spacer

SHCBS series



board mounting hole measurement

Feature

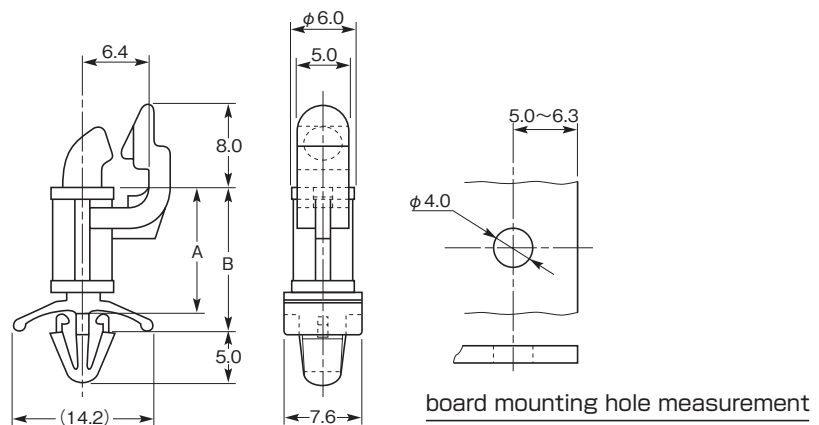
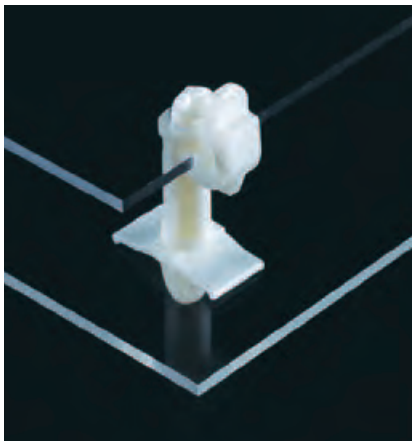
- Easy to unlock the P.C.B. and convenient at a time of inspection and maintenance.
- With the combined use with SRF series, it will be very convenient.

Material **Standard color**
 Nylon 66 UL94V-2: Natural
 UL94V-0: White

Part No.		Dimensions (mm)				Packing unit (pieces)		
		A	B	Mounting hole			Applicable board thickness	
UL94V-2	UL94V-0			P.C.B.	Chassis	P.C.B.	Chassis	
SHCBS- 5	SHCBS- 5U	7.9	10.3	φ 4.0	φ 4.8	1.6	0.5 ~ 2.0	500
SHCBS- 6	SHCBS- 6U	9.5	11.9					
SHCBS- 8	SHCBS- 8U	12.6	15.0					
SHCBS-10	SHCBS-10U	15.8	18.2					
SHCBS-12	SHCBS-12U	19.0	21.4					
SHCBS-14	SHCBS-14U	22.2	24.6					
SHCBS-16	SHCBS-16U	25.3	27.7					

"R"-free spacer

SRF series



board mounting hole measurement

Feature

- Enable to open/close and hold the P.C.B. vertically, which makes inspection and maintenance easy.
- With the combined use with SHCBS series, it will be very convenient.

Material **Standard color**
 Nylon 66 UL94V-2: Natural
 UL94V-0: White

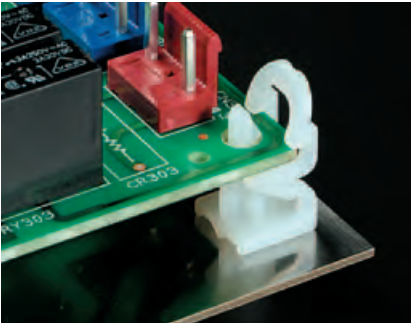
Part No.		Dimensions (mm)				Packing unit (pieces)		
		A	B	Mounting hole			Applicable board thickness	
UL94V-2	UL94V-0			P.C.B.	Chassis	P.C.B.	Chassis	
SRF- 5	SRF- 5U	7.9	10.3	φ 4.0	φ 4.8	1.6	0.5 ~ 2.0	500
SRF- 6	SRF- 6U	9.5	11.9					
SRF- 8	SRF- 8U	12.6	15.0					
SRF-10	SRF-10U	15.8	18.2					
SRF-12	SRF-12U	19.0	21.4					
SRF-14	SRF-14U	22.2	24.6					
SRF-16	SRF-16U	25.3	27.7					

Circuit board spacer

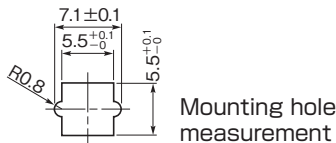
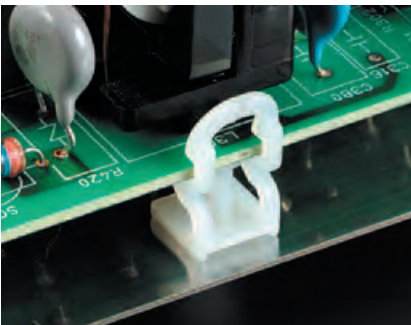
SPRH-10/SPRF-10



SPRH-10



SPRF-10

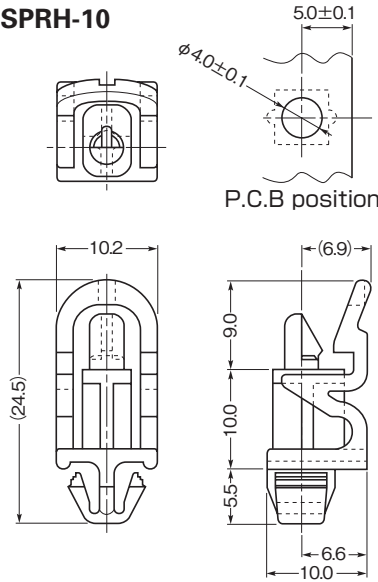


Feature

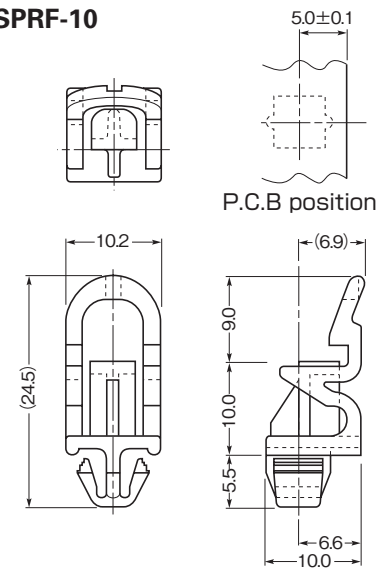
- Easy to unlock the fixation of P.C.B. at a time of maintenance.
- SPRF type is to hold the mid-section, not requiring mounting hole of P.C.board.

Material Nylon 66 **Standard color** UL94V-2: Natural

SPRH-10



SPRF-10



Part No.	Dimensions (mm)			Packing unit (pieces)
	Mounting hole P.C.B.	Applicable board thickness		
SPRH-10	φ 4.0	1.6	0.5 ~ 1.2	500
SPRF-10	-			

Circuit board spacer

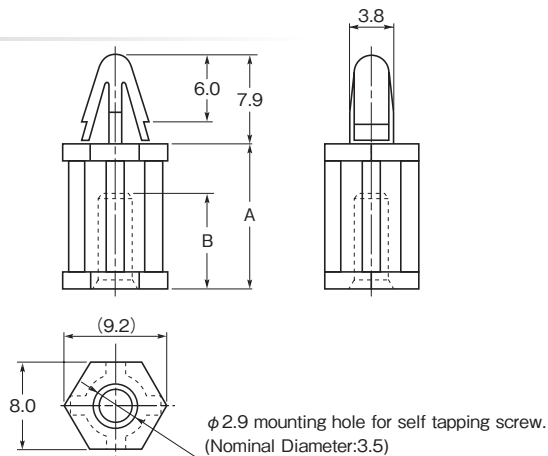
STBS series



Feature

- Fixed with the self tapping screws.
- Only its head part will stick out on the other side of the P.C.B.

Material Nylon 66 **Standard color** UL94V-2: Natural
UL94V-0: White



Part No.		Dimensions (mm)			Packing unit (pieces)
UL94V-2	UL94V-0	A	B	P.C.B.	
STBS- 4	STBS- 4U	6.4	5.0	φ 4.0	500
STBS- 6	STBS- 6U	9.6	7.0		
STBS- 8	STBS- 8U	12.7	8.4	1.6	
STBS-10	STBS-10U	15.9	8.4		
STBS-12	STBS-12U	19.1	8.4		
STBS-14	STBS-14U	22.3	8.4		
STBS-16	STBS-16U	25.4	8.4		
STBS-18	STBS-18U	28.6	8.4		
STBS-22.5	STBS-22.5U	35.7	8.4		



Non-hole spacer

NH series

Feature

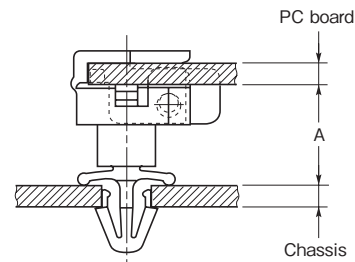
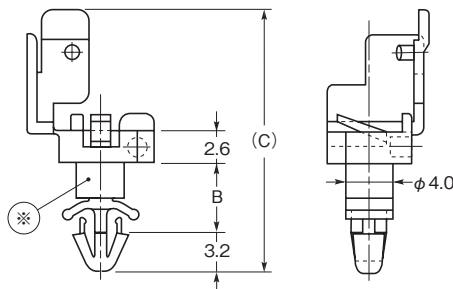
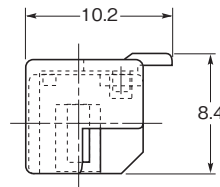
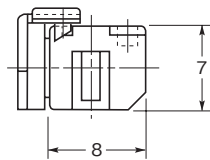
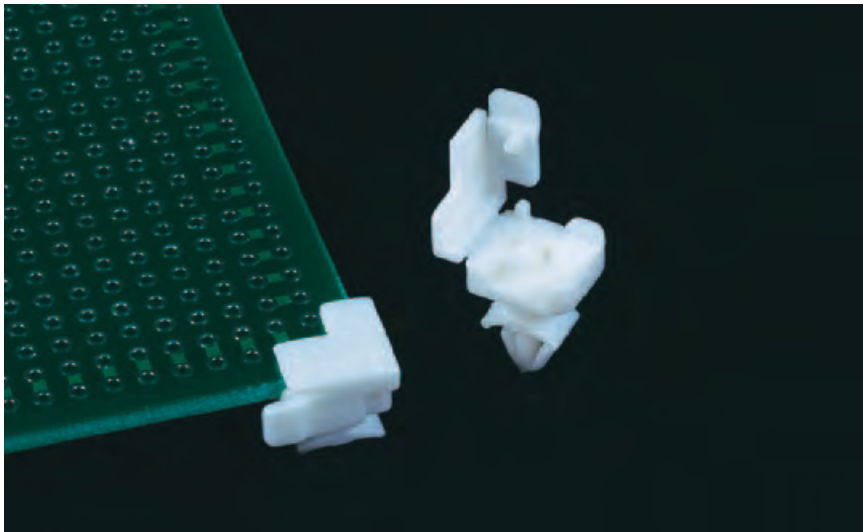
- Best Suited for the P.C.B. having no space to allocate the mounting hole such as hi-density or small P.C.B.
- Can be easily snapped-on.
- Easy to unlock the P.C.B. fixation and convenient at a time of maintenance and inspection.

Material

Nylon 66

Standard color

- UL94V-2: Natural
- UL94V-0: White



Fixed

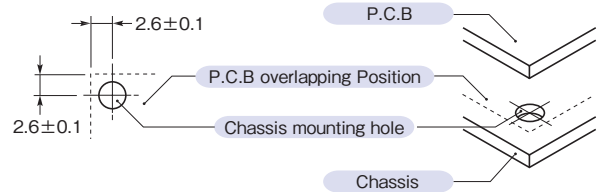
※ Each product has a different shape at mid-section in this series.

Vibration test

- Frequency : 4 cycles/sec.
- Amplitude : 2mm
- Duration : 4 hours
- Force : 9.8N (1kgf)
- Installed P.C.B. 57mm x 57mm t=1.6mm

Under above-mentioned vibration test, P.C.B did not come off the spacer. This data is only for the reference, but not for any warranty of the product.

Between the spacer mounting hole and the PC board position



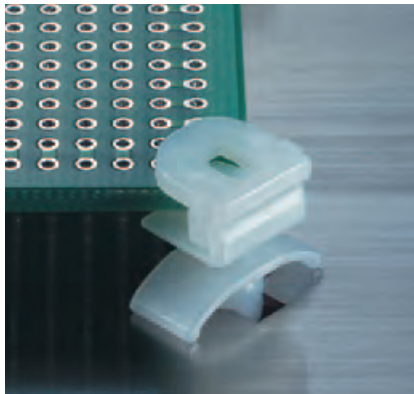
Part No.		Dimensions (mm)						Packing unit (pieces)
		A	B	(C)	Chassis			
Applicable board thickness	Mounting hole				Applicable board thickness			
UL94V-2	UL94V-0							
NH- 4	NH- 4U	4.0	2.9	18.7	1.2 ~ 1.6	φ 3.2	1.6	500
NH- 7	NH- 7U	7.0	5.8	21.6				
NH-12	NH-12U	12.0	10.8	26.6				

Edge lock spacer

ELS series



Re-usable type



Feature

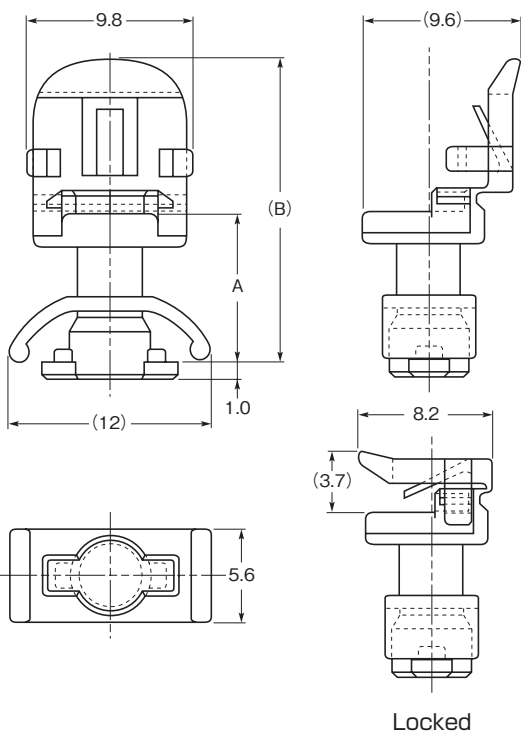
- Best suited for fixing the sub-P.C.B.
- Can be used for both straight and corner section without mounting hole on P.C.B.
- Easy to unlock, and to attach and remove the circuit boards.
- Easy to remove from the chassis and re-usable.

Material

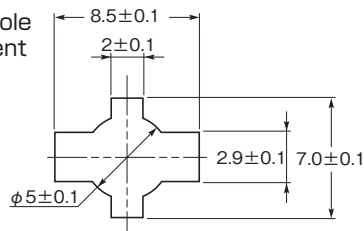
Nylon 66

Standard color

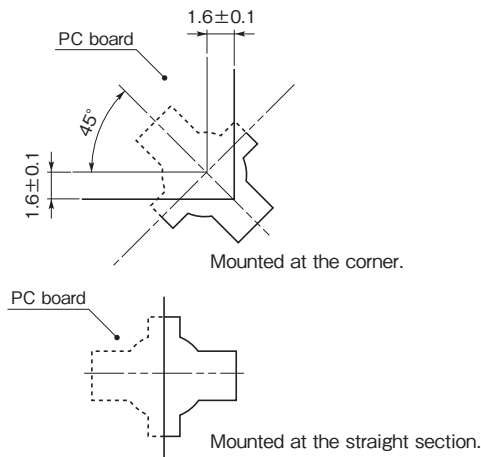
UL94V-2: Natural
UL94V-0: White



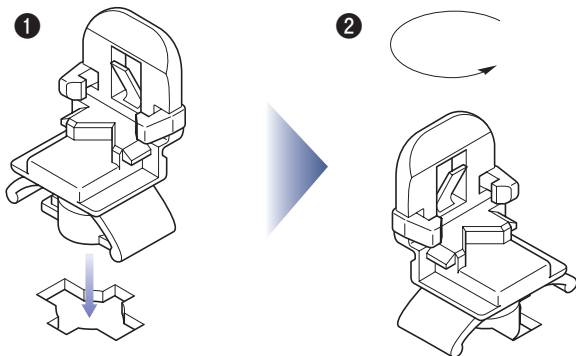
●Mounting hole measurement



●The position of mounting hole and P.C.B.



Installation Manual



- 1 Slot the edge lock spacer into the mounting hole.
- 2 Turn 90° while edge lock spacer is pressed. Once it is locked inside the mounting hole, the installation is completed.
- 3 In case of uninstallation, turn 90° while it is pressed, pull it out.

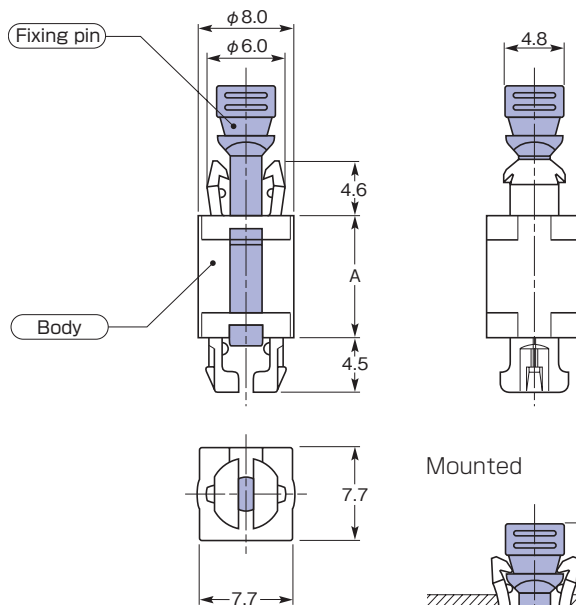
Part No.		Dimensions (mm)		Applicable board thickness		Packing unit (pieces)
		A	(B)	P.C. board	Chassis	
UL94V-2	UL94V-0	8	18.3	1.2 ~ 1.6	0.6 ~ 1.6	500
ELS-7	ELS-7U	9	19.3			
ELS-8	ELS-8U					



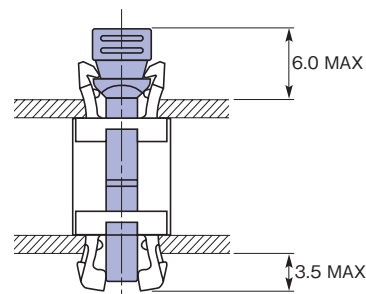
Non-screw spacer

NS series

Re-usable type



Mounted



Feature

- Maintain a uniform distance between chassis and P.C.B. by only squeezing the fixing pin into the body without using screws and nuts.
- Easily removable from a chassis and P.C.B. by only pulling out the fixing pin.
- Re-usable

Material

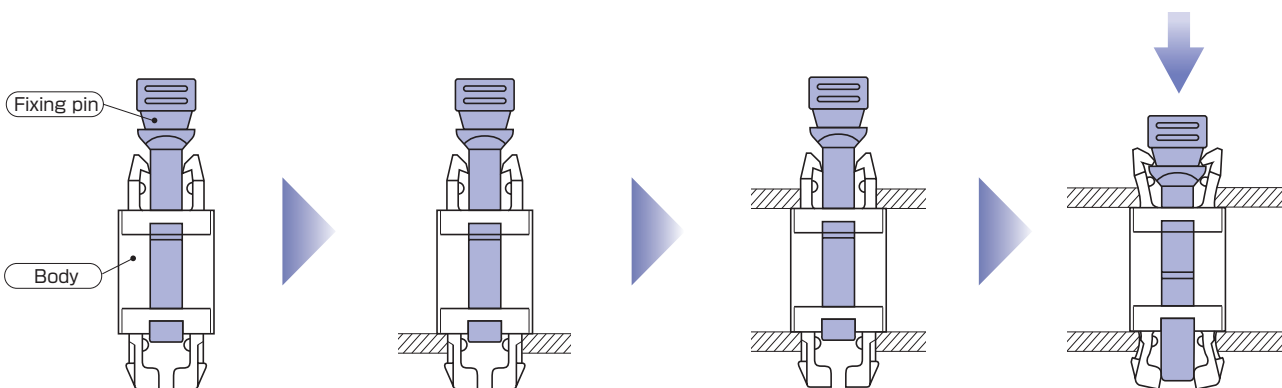
Nylon 66

Standard color

- UL94V-2: Black
- UL94V-0: Black

Part No.		A	Dimensions (mm)				Packing unit (pieces)
			Mounting hole		Applicable board thickness		
UL94V-2	UL94V-0		P.C.B.	Chassis	P.C.B.	Chassis	
NS- 5	NS- 5U	5.7	φ 6.0	φ 6.0	0.5 ~ 2.3	0.5 ~ 2.3	500
NS- 7	NS- 7U	7.5					
NS-10	NS-10U	10.0					
NS-15	NS-15U	15.0					
NS-20	NS-20U	20.0					

Installation Manual



① Initial condition

② Slot this spacer into the chassis mounting hole.

③ Mount the P.C.B.

④ Push down the fixing pin.

⑤ Reverse the procedure at the un-installation.

The fixing pin can be easily released by its head twisted 45° and pulled out with a plier.

Snap-collar bush

SB/SBW series



INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT



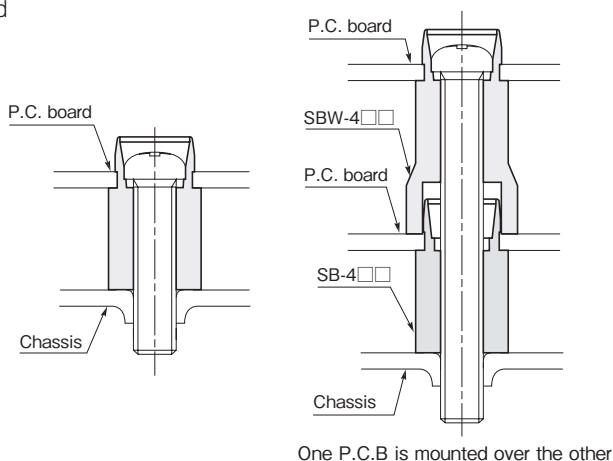
Feature

- Support for the P.C.B. screw fixation.
- Easy handling owing to one-piece structure.
- The screw head is concealed into the bush resulting excellent insulation and protection.
- Multiple board stacking type is also available.

Material Nylon 6 UL94V-0

Standard color White

Mounted



One P.C.B is mounted over the other

Fig. 1

Burr-like projection on the circumference to act as temporary stops.

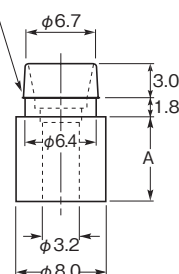


Fig. 2

Burr-like projection on the circumference to act as temporary stops.

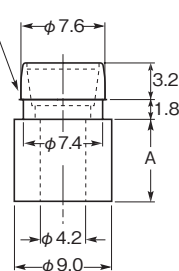
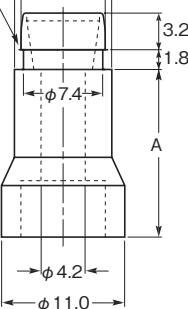


Fig. 3

Burr-like projection on the circumference to act as temporary stops.



Part No.	Dimensions (mm)			Figure	Packing unit (pieces)
	A	Mounting hole P.C.B.	Screw		
SB-305	5.7	φ 6.6	M3	1	200
SB-307	7.5				
SB-310	10.0				
SB-315	15.0				
SB-320	20.0				
SB-405	5.7	φ 7.5	M4	2	
SB-407	7.5				
SB-410	10.0				
SB-415	15.0				
SB-420	20.0				
※ SBW-410	12.5	φ 7.5	M4	3	
SBW-415	15.0				
SBW-420	20.0				
SBW-425	25.0				

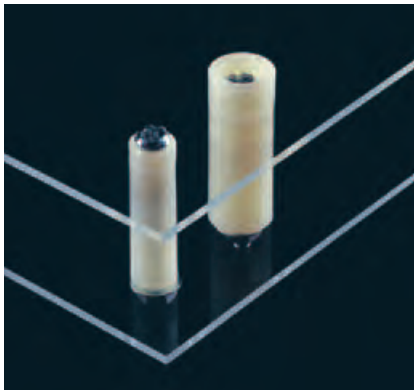
● The screw tightening torque
68.6N·cm ~ 78.4N·cm
(7kgf·cm ~ 8kgf·cm)

※ The SBW series are for mounting boards on top of each other.



One-touch collar bush

NA • NB/TA • TB series



Feature

- Maintain an uniform height of the P.C.B.
- Collar and bush shall be fitted onto the P.C.B., and screwed. Various height will be available by only changing the collar.
- Without any direct contact between P.C.B. and screws, it will avoid creating the damage such as crack.

Standard type **Material** ABS resin UL94HB

Standard color Natural

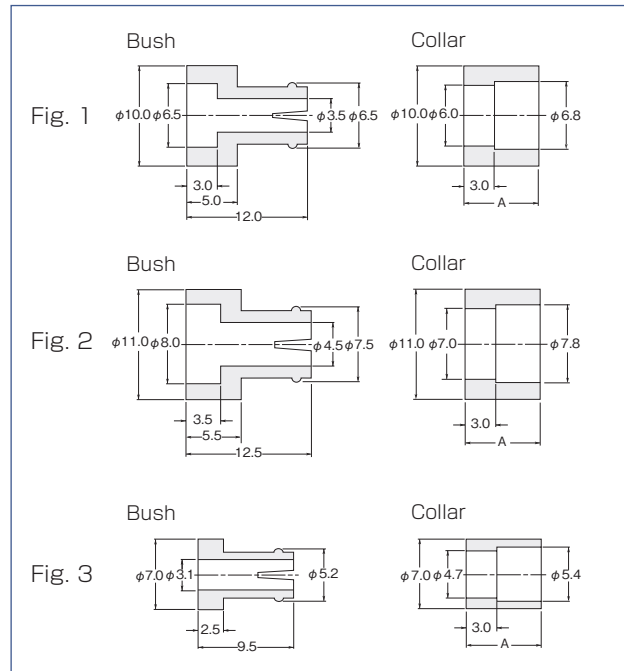
Heat-resistant type **Material** Poly-carbonate UL94V-0

Standard color Black

● The heat-resistant type is to have the suffix of "B". Example NB-300B

Bush				Collar				
Part No.	Figure	Mounting hole (mm)	Packing unit (pieces)	Part No.	A (mm)	Screw	Figure	Packing unit (pieces)
NB-300	1	φ 6.5	200	NA-305	5.7	M3	1	200
				NA-307	7.5			
				NA-310	10.0			
				NA-315	15.0			
				NA-320	20.0			
NB-400	2	φ 7.5	200	NA-405	5.7	M4	2	200
				NA-407	7.5			
				NA-410	10.0			
				NA-415	15.0			
				NA-420	20.0			
TB-300	3	φ 5.2	200	TA-305	5.7	M3	3	200
				TA-307	7.5			
				TA-310	10.0			
				TA-314	14.0			
				TA-320	20.0			

More range is also available. Please contact us for further information.



Transistor spacer

TR/TRC series



Feature

- Prevent transistor spacer from inclining, also maintain an uniform height from the P.C.B.
- Compatible with transistors of any manufacturers.

Standard type **Material** Polyacetal UL94HB

Standard color White

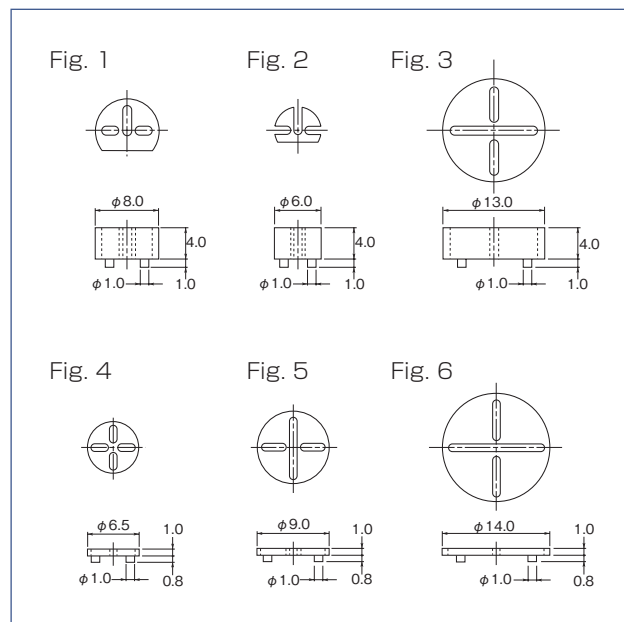
Flame-retardant type **Material** Nylon 6 UL94V-0

Standard color Black

● The flame-retardant type is to have the suffix of "B". Example TR-1B

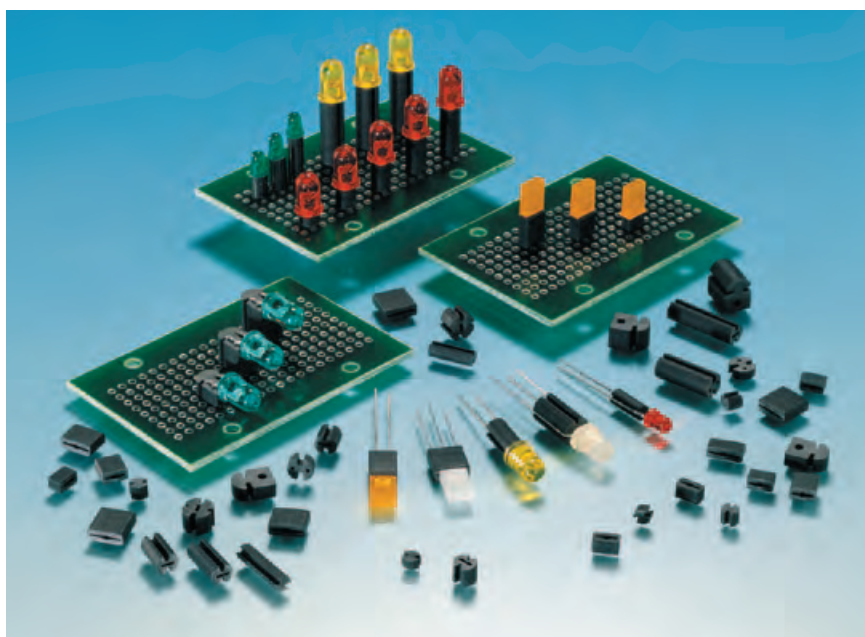
Part No.	Figure	Packing unit (pieces)
TR-1	1	1,000
TR-2	2	
TR-3	3	200
TRC-1	4	1,000
TRC-2	5	
TRC-3	6	

More range is also available. Please contact us for further information.



LED spacer

LH/LK series



Feature

- Create an uniform height for LED fixation.
- Prevent LED from tipping over, and protects and insulate LED lead wire.
- Reliable due to the excellence in heat-resistance, cold-resistance and chemical-resistance, and can be used during the soldering and cleaning procedure.
- Spacer for 3 ϕ , 5 ϕ , square shaped, two-color LEDs also available
- Length outside the standard range indicated below can be also customized.

LH-5 series



Feature

- For $\phi 5$ LED.
- Either the exterior channels (shown in Fig.1) or the central ellipse (shown in Fig.2) of a spacer can be used.
- Length outside the standard range indicated below can be also customized. (Please contact us for further information.)

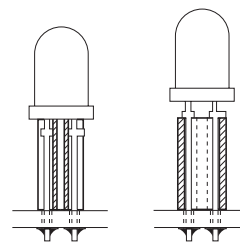
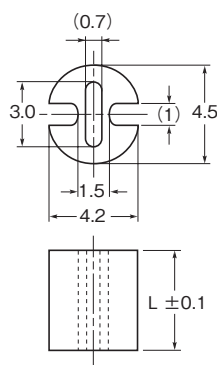


Fig. 1

Fig. 1

Material

Olefin elastomer UL94V-0

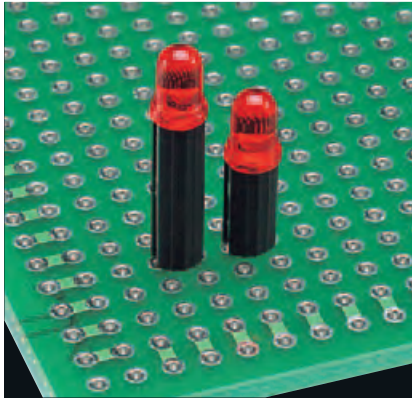
Standard color

Black

Part No.	Dimensions (mm)		Part No.	Dimensions (mm)	
	L			L	
LH-5-1	1.0		LH-5- 9	9.0	
LH-5-1.5	1.5		LH-5- 9.5	9.5	
LH-5-2	2.0		LH-5-10	10.0	
LH-5-2.5	2.5		LH-5-10.5	10.5	
LH-5-3	3.0		LH-5-11	11.0	
LH-5-3.5	3.5		LH-5-11.5	11.5	
LH-5-4	4.0		LH-5-12	12.0	
LH-5-4.5	4.5		LH-5-12.5	12.5	
LH-5-5	5.0		LH-5-13	13.0	
LH-5-5.5	5.5		LH-5-13.5	13.5	
LH-5-6	6.0		LH-5-14	14.0	
LH-5-6.5	6.5		LH-5-14.5	14.5	
LH-5-7	7.0		LH-5-15	15.0	
LH-5-7.5	7.5				
LH-5-8	8.0				
LH-5-8.5	8.5				

Packing unit : 1,000 pieces

LH-3 series



Feature

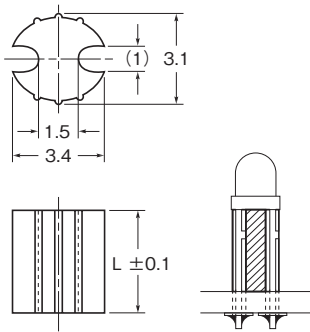
- For $\phi 3$ LED.
- Length outside the standard range indicated below can be also customized.
(Please contact us for further information.)

Material

Olefin elastomer UL94V-0

Standard color

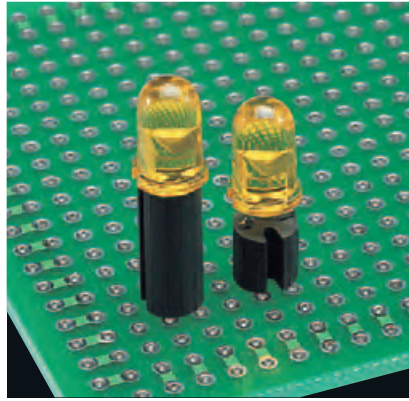
Black



Part No.	Dimensions (mm)	
	L	
LH-3- 1	1.0	
LH-3- 2	2.0	
LH-3- 3	3.0	
LH-3- 4	4.0	
LH-3- 5	5.0	
LH-3- 6	6.0	
LH-3- 7	7.0	
LH-3- 8	8.0	
LH-3- 9	9.0	
LH-3-10	10.0	
LH-3-11	11.0	
LH-3-12	12.0	
LH-3-13	13.0	
LH-3-14	14.0	
LH-3-15	15.0	

Packing unit : 1,000 pieces

LH-5S series



Feature

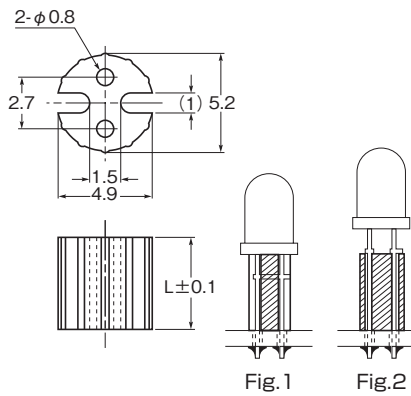
- For $\phi 5$ LED.
- Projection on the circumference will prevent from tipping over.
- With either the outside groove shown in fig. 1 or the hole shown in Fig.2, this spacer can be used.
- Length outside the standard range indicated below can be also customized.
(Please contact us for further information.)

Material

Olefin elastomer UL94V-0

Standard color

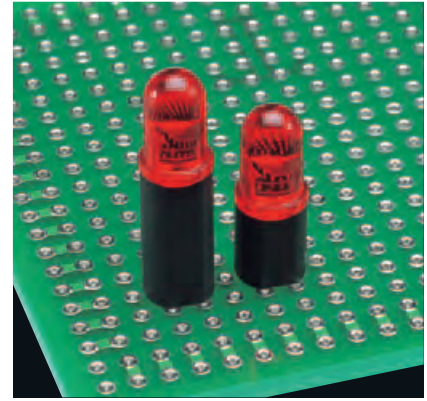
Black



Part No.	Dimensions (mm)	
	L	
LH-5S- 1	1.0	
LH-5S- 2	2.0	
LH-5S- 3	3.0	
LH-5S- 4	4.0	
LH-5S- 5	5.0	
LH-5S- 6	6.0	
LH-5S- 7	7.0	
LH-5S- 8	8.0	
LH-5S- 9	9.0	
LH-5S-10	10.0	
LH-5S-11	11.0	
LH-5S-12	12.0	
LH-5S-13	13.0	
LH-5S-14	14.0	
LH-5S-15	15.0	

Packing unit : 1,000 pieces

LH-5E series



Feature

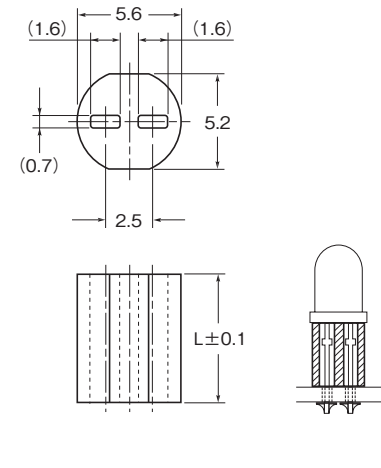
- For $\phi 5$ LED.
- Improved for the protection and insulation character of wire, also prevention from tipping.
- Length outside the standard range indicated below can be also customized.
(Please contact us for further information.)

Material

Olefin elastomer UL94V-0

Standard color

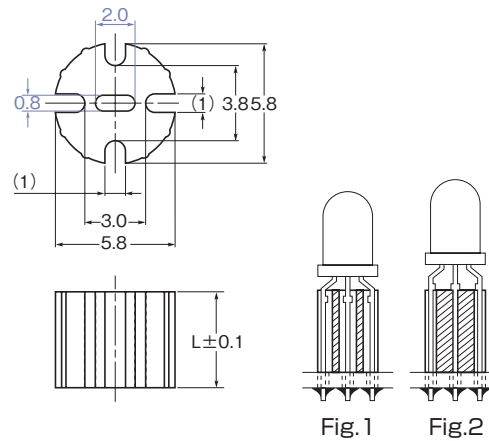
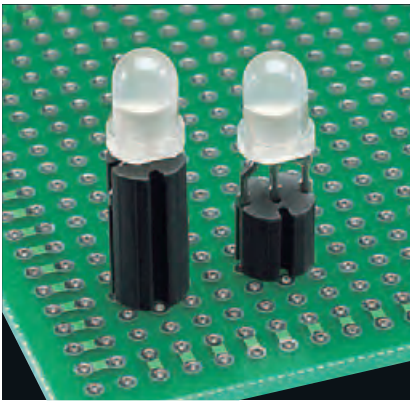
Black



Part No.	Dimensions (mm)	
	L	
LH-5E- 1	1.0	
LH-5E- 2	2.0	
LH-5E- 3	3.0	
LH-5E- 4	4.0	
LH-5E- 5	5.0	
LH-5E- 6	6.0	
LH-5E- 7	7.0	
LH-5E- 8	8.0	
LH-5E- 9	9.0	
LH-5E-10	10.0	
LH-5E-11	11.0	
LH-5E-12	12.0	
LH-5E-13	13.0	
LH-5E-14	14.0	
LH-5E-15	15.0	

Packing unit : 1,000 pieces

LH-36 series



Feature

- For two-color LED.
- LEDs can be mounted in either of two ways; the central ellipse can be used in a lengthwise orientation (shown in Fig.1) or in crosswise orientation.(shown in Fig.2)
- Length outside the standard range can be also customized.
(Please contact us for further information.)

Material

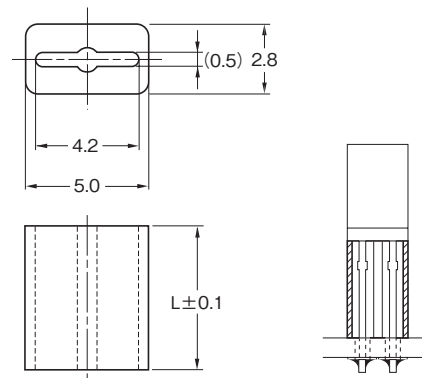
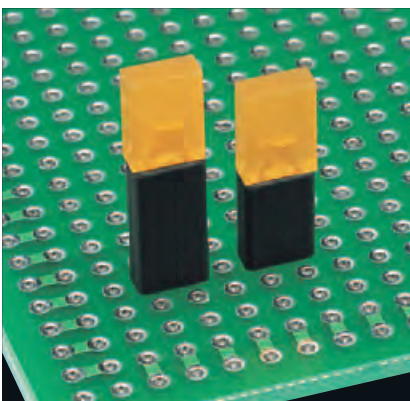
Olefin elastomer UL94V-0

Standard color

Black

Part No.	Dimensions (mm)	Packing unit (pieces)
	L	
LH-36- 1	1.0	1,000
LH-36- 2	2.0	
LH-36- 3	3.0	
LH-36- 4	4.0	
LH-36- 5	5.0	
LH-36- 6	6.0	
LH-36- 7	7.0	
LH-36- 8	8.0	
LH-36- 9	9.0	
LH-36-10	10.0	
LH-36-11	11.0	
LH-36-12	12.0	
LH-36-13	13.0	
LH-36-14	14.0	
LH-36-15	15.0	

LK series



Feature

- Best suited for square LED.
- Length outside the standard range can be also customized.
(Please contact us for further information.)

Material

Olefin elastomer UL94V-0

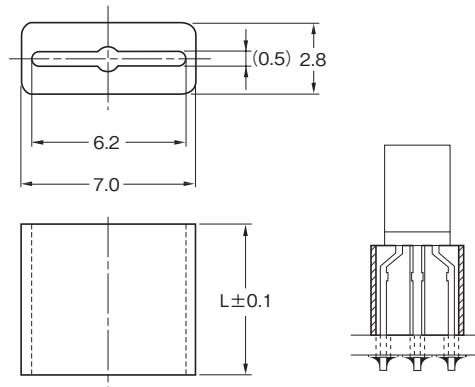
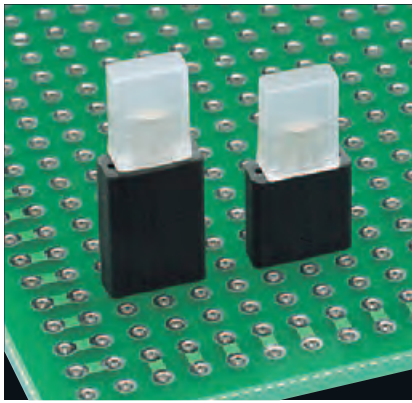
Standard color

Black

Part No.	Dimensions (mm)	Packing unit (pieces)
	L	
LK- 1	1.0	1,000
LK- 2	2.0	
LK- 3	3.0	
LK- 4	4.0	
LK- 5	5.0	
LK- 6	6.0	
LK- 7	7.0	
LK- 8	8.0	
LK- 9	9.0	
LK-10	10.0	
LK-11	11.0	
LK-12	12.0	
LK-13	13.0	
LK-14	14.0	
LK-15	15.0	



LK-36 series



Feature

- For two-color square LED.
- Length outside the standard range can be also customized.
(Please contact us for further information.)

Material

Olefin elastomer UL94V-0

Standard color

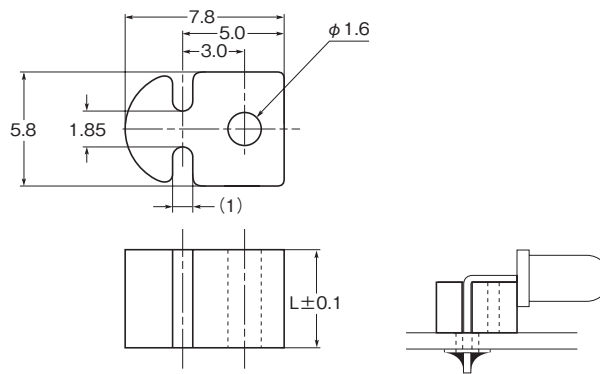
Black

Part No.	Dimensions (mm)	Packing unit (pieces)
	L	
LK-36- 1	1.0	1,000
LK-36- 2	2.0	
LK-36- 3	3.0	
LK-36- 4	4.0	
LK-36- 5	5.0	
LK-36- 6	6.0	
LK-36- 7	7.0	
LK-36- 8	8.0	
LK-36- 9	9.0	
LK-36-10	10.0	
LK-36-11	11.0	
LK-36-12	12.0	
LK-36-13	13.0	
LK-36-14	14.0	
LK-36-15	15.0	

Horizontal LED spacer



LA-5 series



Feature

- For the horizontal mounting of either φ3 or φ5 LED.
- The use of a square pin in φ1.6 hole will secure the better fixation.
- Length outside the standard range can be also customized.
(Please contact us for further information.)

Material

Olefin elastomer UL94V-0

Standard color

Black

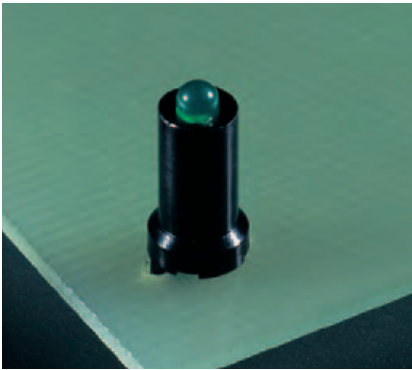
Part No.	Dimensions (mm)	Packing unit (pieces)
	L	
LA-5- 3	3.0	1,000
LA-5- 4	4.0	
LA-5- 5	5.0	
LA-5- 6	6.0	
LA-5- 7	7.0	
LA-5- 8	8.0	
LA-5- 9	9.0	
LA-5-10	10.0	
LA-5-11	11.0	
LA-5-12	12.0	
LA-5-13	13.0	
LA-5-14	14.0	
LA-5-15	15.0	

LED holder

LF series/LF5-9.2



LF series



LF5-9.2



Feature

- Prevent the LED from tipping, and the light from dissipation.
- Best suited for the LED with the shaped wire.
- LF series for $\phi 3$ LED.
- LF5-9.2 for $\phi 5$ LED.

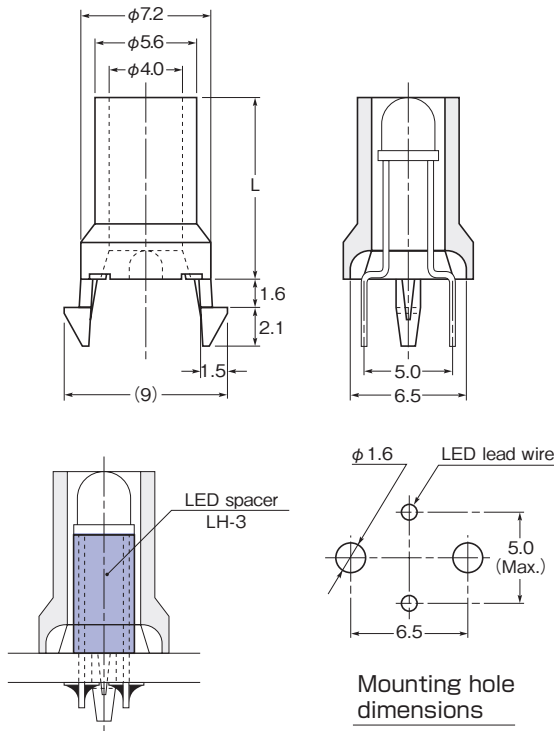
Material

Nylon 6 UL94V-2

Standard color

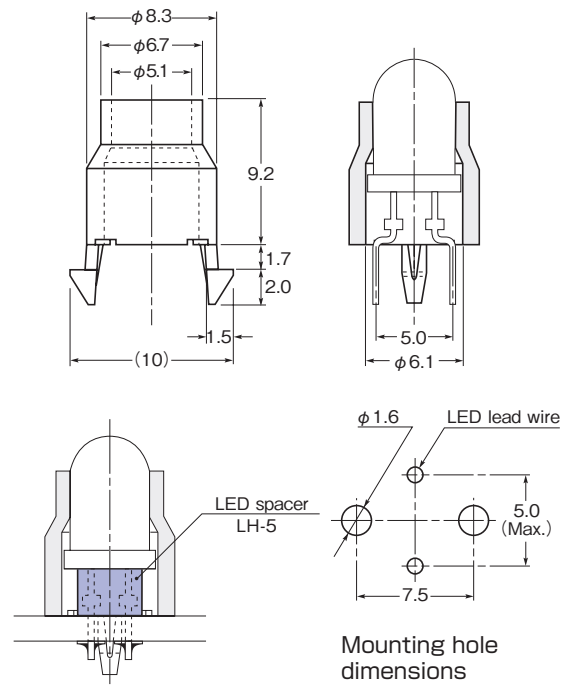
Black

LF series



- We recommend the combined use between LED spacer and LH-3 in case the lead wire are not shaped. (Easily adjustable of LED height.)

LF5-9.2



- We recommend the combined use between LED spacer and LH-5 in case the lead wire are not shaped. (Easily adjustable of LED height.)

LF series

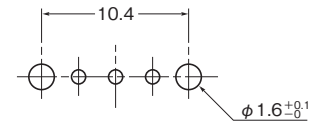
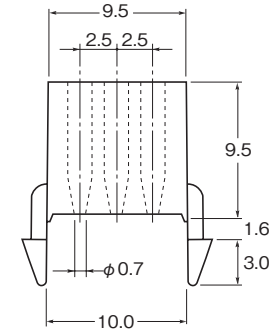
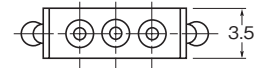
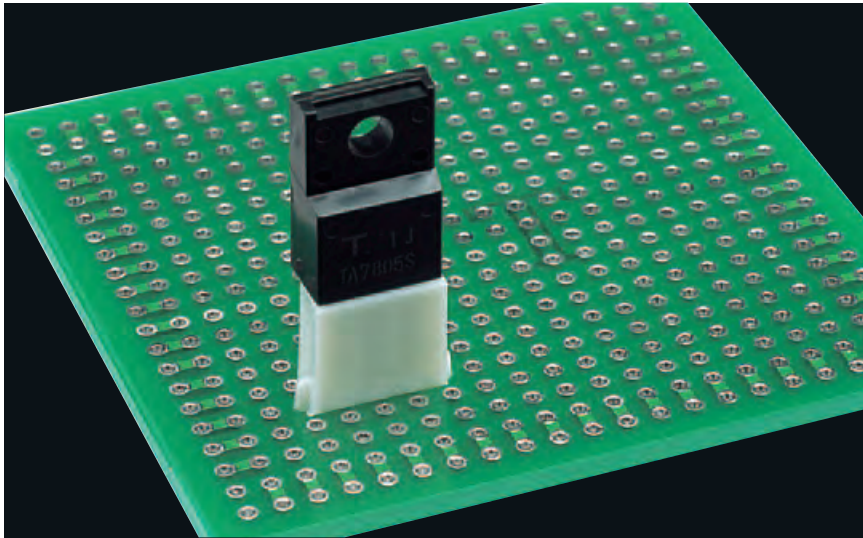
Part No.	Dimensions (mm)		Packing unit (pieces)
	L	Applicable board thickness	
LF- 8	8.0	1.6	500
LF-10	10.0		
LF-11	11.0		
LF-12	12.0		
LF-17	17.0		

LF5-9.2

Part No.	Applicable board thickness (mm)	Packing unit (pieces)
LF5-9.2	1.6	500

Power transistor spacer

PT-95U



Mounting hole dimensions

Feature

- For power transistors (TO-220 type)
- Best suited for the protection of lead wire and the insulation.
- Best suited for the preventing from tipping during the soldering and transportation.
- The height of spacer is 9.5mm.

Material

Nylon 66 UL94V-0

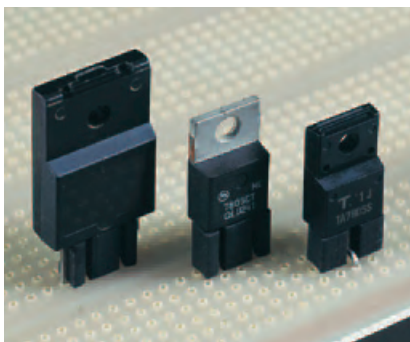
Standard color

White

Part No.	Packing unit (pieces)
PT-95U	500

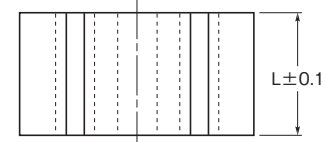
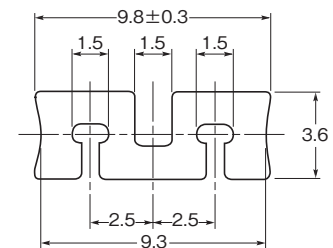
Triadic-terminal spacer

3T series



Feature

- For power transistors, triadic-terminal regulators etc.
- Reliable due to the excellence in heat-resistance, cold-resistance and chemical-resistance, and can be used during the soldering and cleaning procedure.
- Can be also used for 5-terminal electronic components.
- Length outside the standard range as below can be also customized. (Please contact us for further information.)



Material

Olefin elastomer UL94V-0

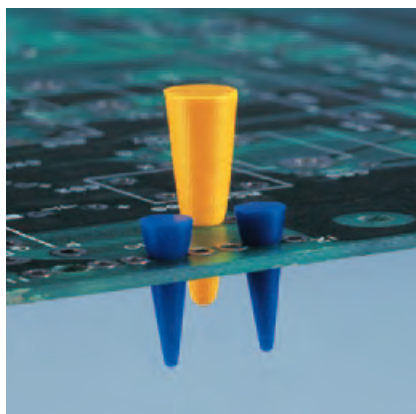
Standard color

Black

Part No.	Dimensions (mm)	Packing unit (pieces)
	L	
3T- 3	3.0	1,000
3T- 4	4.0	
3T- 5	5.0	
3T- 6	6.0	
3T- 7	7.0	
3T- 8	8.0	
3T- 9	9.0	
3T-10	10.0	
3T-11	11.0	
3T-12	12.0	
3T-13	13.0	
3T-14	14.0	
3T-15	15.0	

Non-through packing

NP series

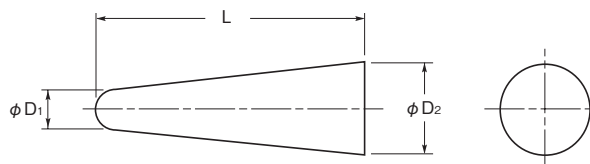


Feature

- Hole stopping cap that prevent plating for adhering during through-hole plating.
- Protect tap hole., etc., during the plating of equipment casing or cabinets.
- Flexible and elastic. Can be used to plug round, elliptical, oval hole, etc. Excellent heat resistant and chemical resistant properties.
- Recycle.

Material

Silicone rubber



Part No.	Dimensions (mm)			Color	Packing unit (pieces)
	ϕD_1	ϕD_2	L		
NP-1	0.8	4.0	15.0	Red	1,000
NP-2	1.3	5.5	15.0	Blue	
NP-3	3.0	7.5	22.0	Yellow	

Automatic Insertion machine use Surface Mount type, Check Terminal

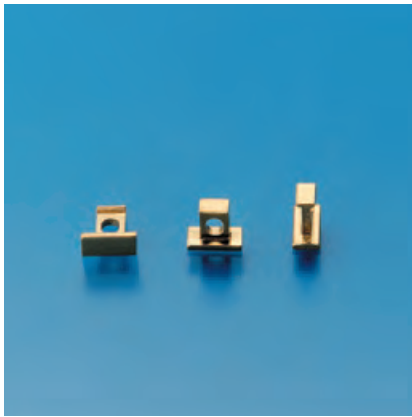


HK-2 series

(3.2 x 1.6 type)

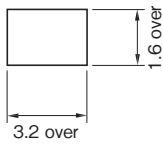
Feature

- HK-series are available to set chip-mounting machine.
- Packaging is by emboss taping.
- In case of using normal cream-soldering by reflow, land configuration is flat and size more than 1.6 mm × 3.2 mm.
- Material : Brass
- Surface treatment : HK-2-G Gold plated on nickel base.
HK-2-S Sn plated on nickel base.

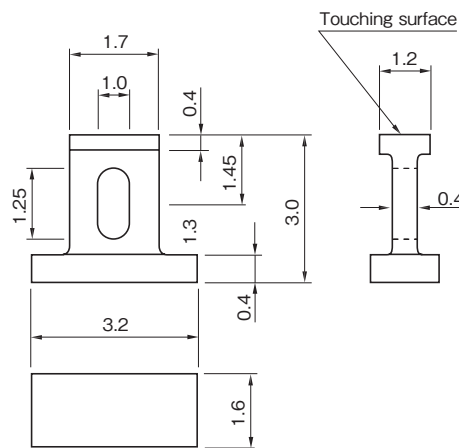


Part No.	Packaging conditions
HK-2-G	Reel (1000 pcs/reel)
HK-2-S	

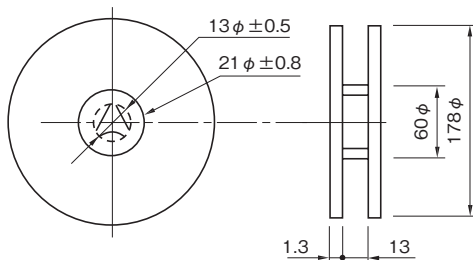
Recommended land size



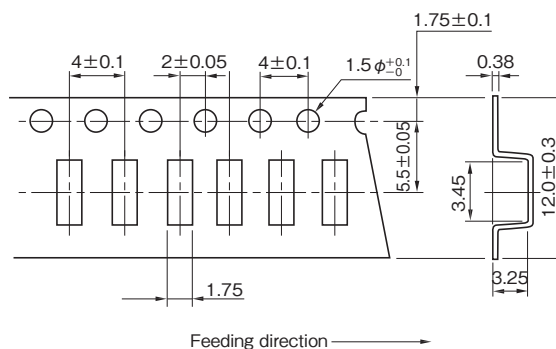
Dimensions



Reel dimensions



Tape dimensions



INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT

Automatic Insertion machine use Surface Mount type, Check Terminal



HK-3 series

(2 x 1.25 type)

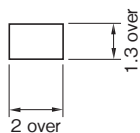


Feature

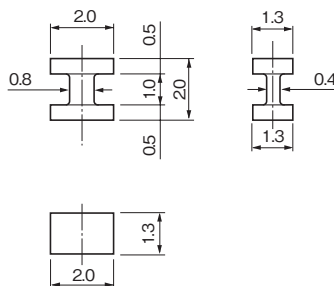
- HK-series are available to set chip-mounting machine.
- Suitable for small devices as the size is 2 × 1.25.
- Packaging is by emboss taping.
- In case of using normal cream-soldering by reflow, land configuration is flat and size more than 2 mm × 1.3 mm.
- Material : Brass
- Surface treatment : HK-3-G Gold plated on nickel base.
HK-3-S Sn plated on nickel base.

Part No.	Packaging conditions
HK-3-G-T	Reel (1500 pcs/reel)
HK-3-G	Bulk (1000 pcs/Pack)
HK-3-S-T	Reel (1500 pcs/reel)
HK-3-S	Bulk (1000 pcs/Pack)

Recommended land size

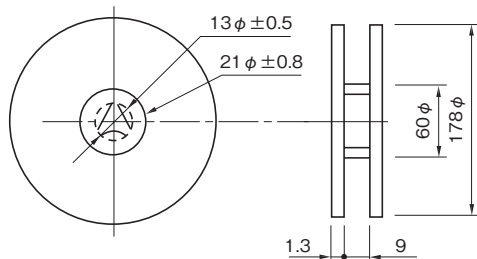


Dimensions

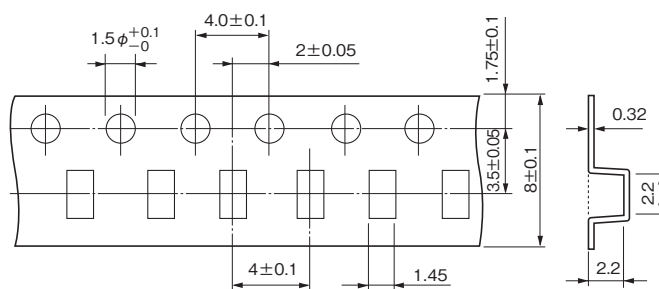


HK-3-□-T (Taping version)

Reel dimensions



Tape dimensions



Automatic Insertion machine use Surface Mount type, Check Terminal



HK-4 series

(1.2 x 1.0 type)

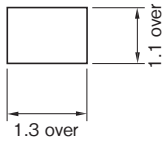


Feature

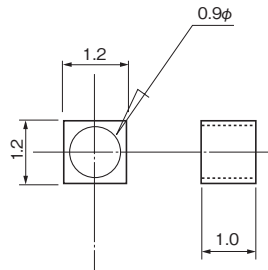
- HK-series are available to set chip-mounting machine.
- Suitable for small devices as the size is extremely small 1.2 × 1.0.
- Shall be used by oscilloscope hooked inner hole.
- In case of using normal cream-soldering by reflow, land configuration is flat and size more than 1.3 mm × 1.1 mm.
- Material : Brass
- Surface treatment : HK-4-G Gold plated on nickel base.
HK-4-S Sn plated on nickel base.

Part No.	Packaging conditions
HK-4-G-T	Reel (3000 pcs/reel)
HK-4-G	Bulk (1000 pcs/Pack)
HK-4-S-T	Reel (3000 pcs/reel)
HK-4-S	Bulk (1000 pcs/Pack)

Recommended land size

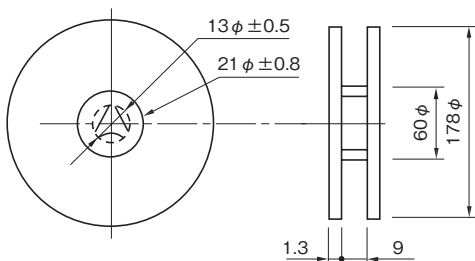


Dimensions

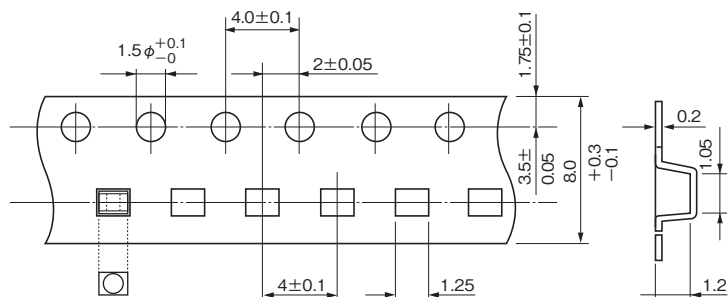


HK-4-□-T (Taping version)

Reel dimensions



Tape dimensions



INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT

Automatic Insertion machine use Surface Mount type, Check Terminal



HK-5 series

(2.5 x 3.0 type)

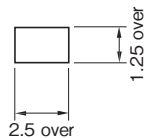


Feature

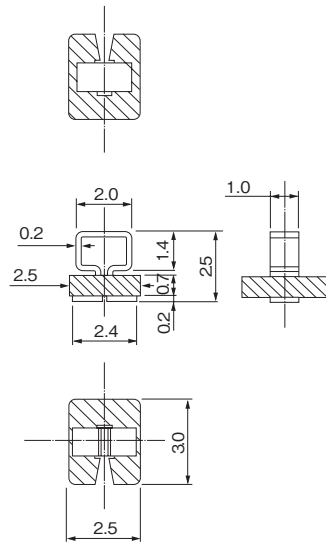
- Colored check terminal to be set on chip-mounting machine.
- Choice of 10 colors.
- Size : 2.5 × 3.0.
- In case of using normal cream-soldering by reflow, land configuration is flat and size more than 1.25 mm × 2.5 mm.
- Stored in emboss tape.
- Applicable temperature -40 ~ +150°C .
- Material : Pin Phosphor bronze 0.2t
Resin part (lined part) Fluorine (UL94V-0) Color (10 colors)
- Surface treatment : HK-5-G Gold plated on nickel base.
HK-5-S Sn plated on nickel base.
- How to order : Example HK-5-G ← Please designate the color.
Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Grey, White.

Part No.	Packaging conditions
HK-5-G □	Reel (1000 pcs/reel)
HK-5-S □	
HK-5-G-B □	Bulk (1000 pcs/Pack)
HK-5-S-B □	

Recommended land size

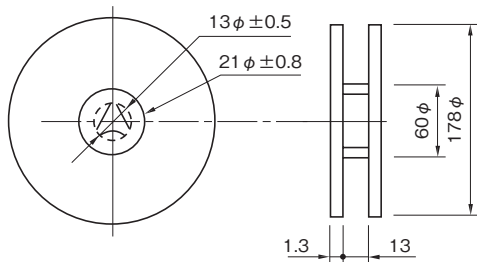


Dimensions

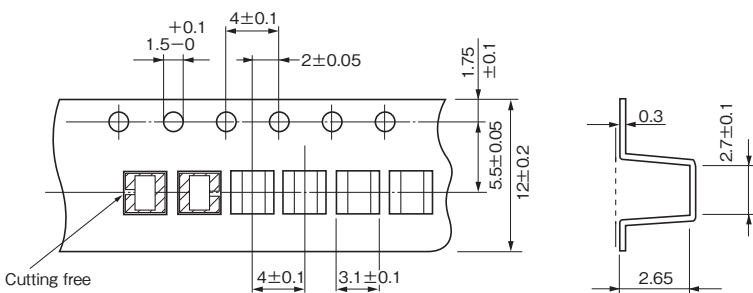


HK-5-G □ /HK-5-S □ (Taping version)

Reel dimensions



Tape dimensions



INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

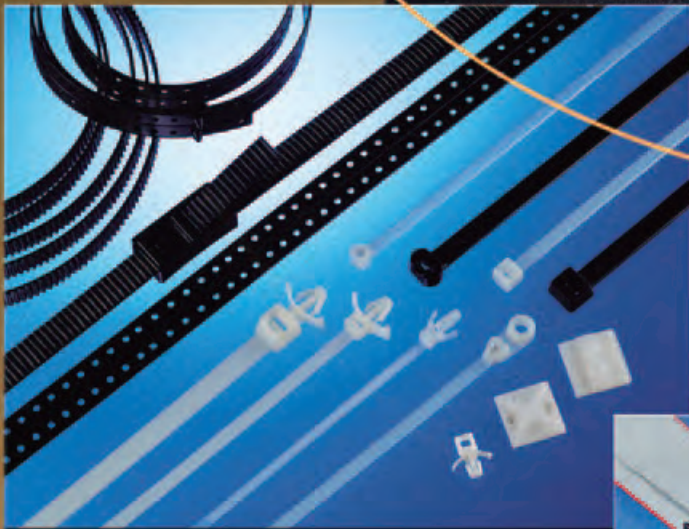
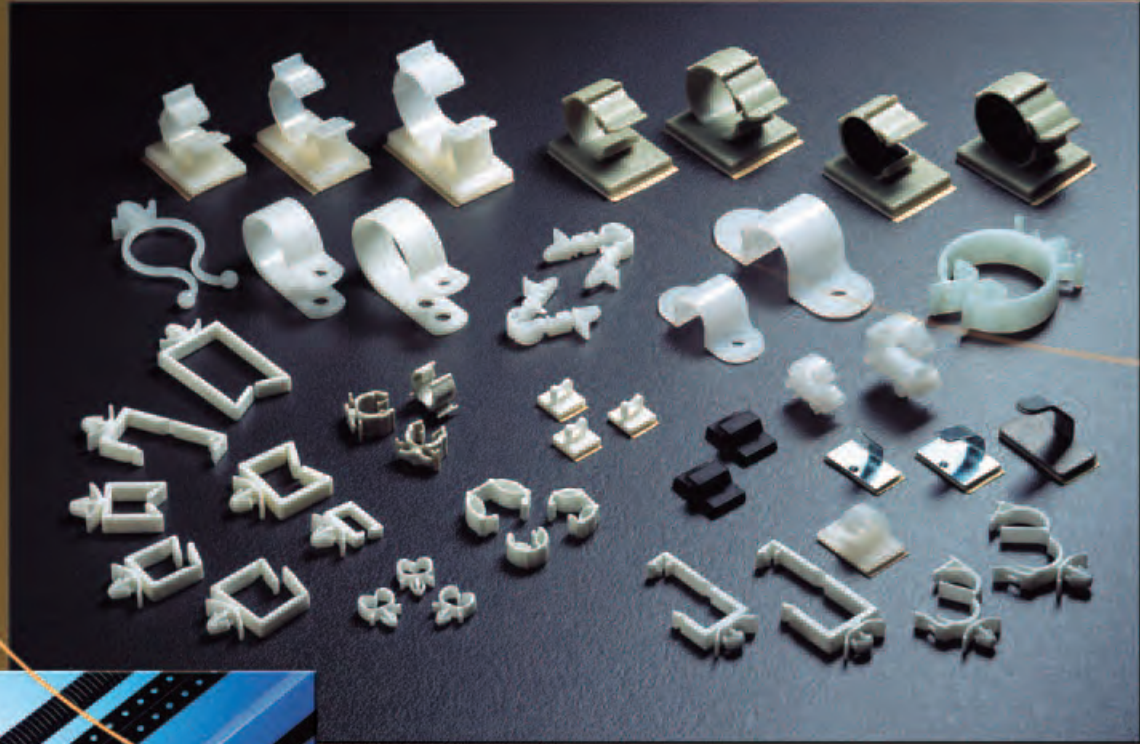
WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT

WIRING ACCESSORY



SHINAGAWA SHOKO

WIRING CLAMP

● Wire saddle	WS/WWS/WS-SE/BWS	44
	WSR/LWS series	45
	LWSR-E/PLWS series	46
	PLWS-RT series	47
● Easy lock	ES/EB series	48 · 49
● Cord hook	CH-MB	49
● Patchpul®	PA series	50
	PL series	51
	PJ series	52
● Clippul®	KU series	52
● Rod clip	RC series	53
● Sensor holder	SH series	54
● Twist clip®	TC-2006	55
	TCS series	55
	TCR series	56
● Harness clip	HC series	57
● Mini wire saddle	MWS series	57
● Just-fit clamp	JFC series	58
● Wire fixer	WF-08	58
● Wire clamp	S series	59
	SSP series	59
● Wire clip	CW-3048	60
● Wire saddle	P series	60
● Nylon clip	SL-N series	61
● High-heat clip	SL-H series	61
● Pitak®	P series	62
● Flaclip	A series	63
	B series	64
	C type	65
	D type	65
● ANP base	ANP series	66
● Cable tie holder	SFT series	66
● A band	A series	67
● Mini belt	B/C	67
● Free band & buckle	FB-11/BC-11	68

Wire saddle

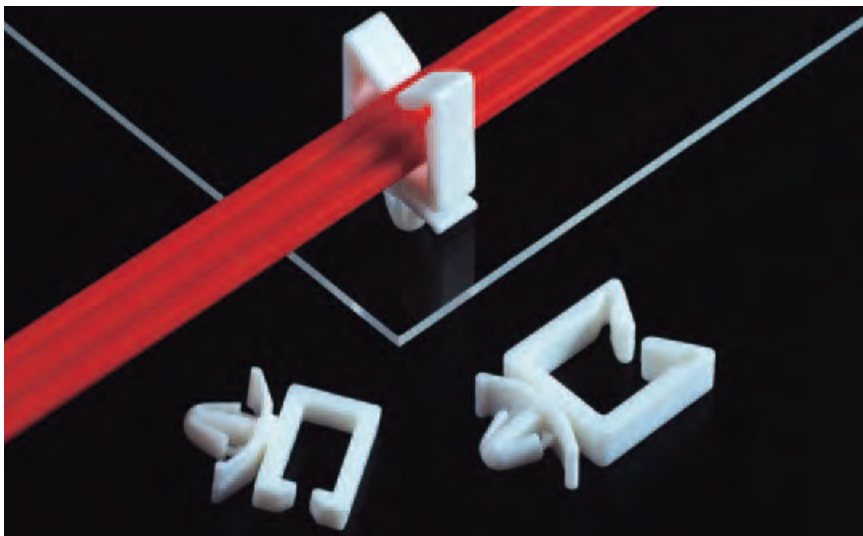
WS/WWS/WS-SE/BWS



Feature

- For holding a bundle of wire and cable.
- Can be snapped onto the chassis with single push.
- Easy to hold and maintain the wire.
- The WWS-2 is the wide model of WS series accomodating more wire.
- Wire to be inserted from the side for WS-SE-1.

Material **Standard color**
 Nylon 66 UL94V-2: Natural
 UL94V-0: White

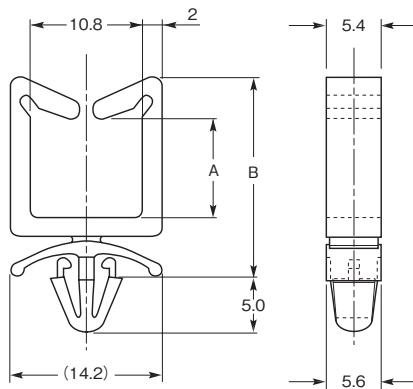


UL recognized product E191920 Cat. No. WS Rating: 85°C
 Cat. No. WWS Rating: 85°C

Cat. No. WS-U Rating: 105°C
 Cat. No. WWS-U Rating: 105°C

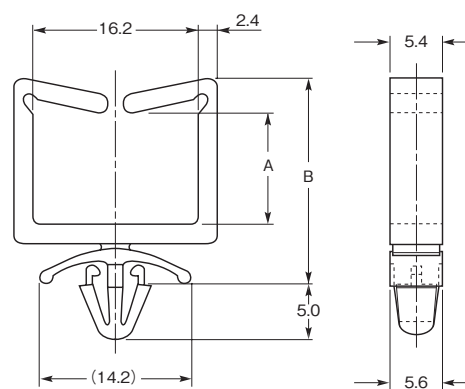
WS

Fig.1



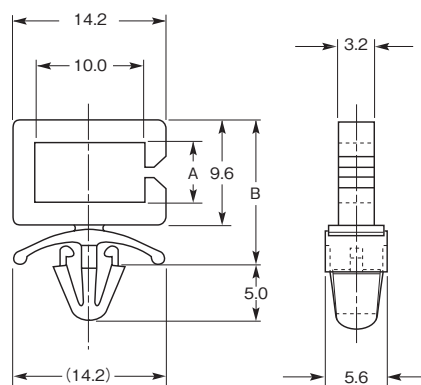
WWS-2

Fig.2



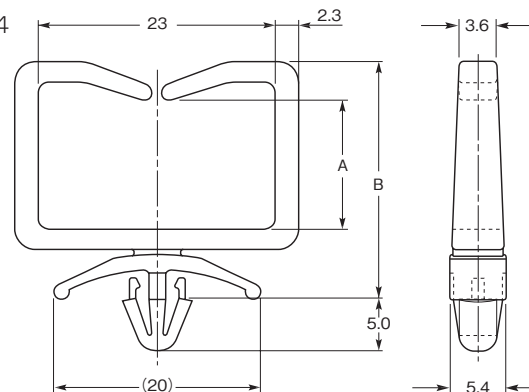
WS-SE-1

Fig.3



BWS-2 **New**

Fig.4



Part No.		Dimensions (mm)				Fig.	Packing unit (pieces)
UL94V-2	UL94V-0	A	B	Mounting hole	Applicable board thickness		
WS-1	WS-1U	4.2	15.5	φ 4.8	0.5 ~ 2.0	1	500
WS-2	WS-2U	9.5	20.4				
WS-2L	※ WS-2LU	9.5	20.4		0.5 ~ 2.3		
WS-3	WS-3U	18.3	29.5				
WS-4	WS-4U	26.3	37.3		0.5 ~ 2.0	2	
WWS-2	WWS-2U	10.6	21.5			3	
WS-SE-1	WS-SE-1U	5.6	13.7		0.6 ~ 2.3	4	
BWS-2	※ BWS-2U	12.3	23.0				

is UL recognized product. ※ is order made items.

INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

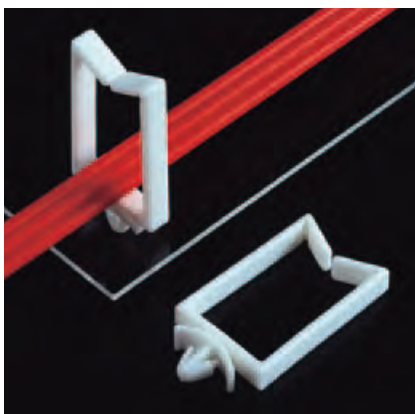
WIRING CLAMP

WIRING PROTECTOR

FASTENER

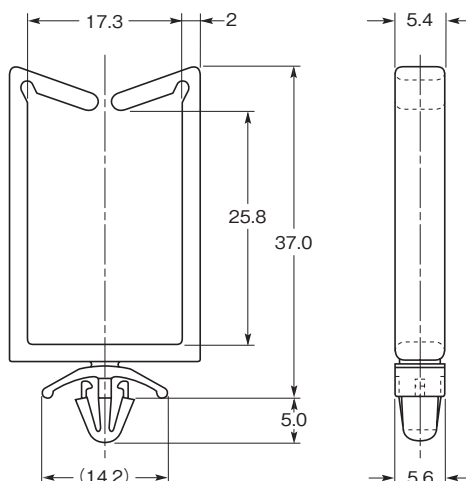
DIP-MOLDED PRODUCT

Wire saddle WSR series



Feature

- Best suited for holding optical fiber.
- Protect the optical fiber from the damage owing to the roundish structure.



Material

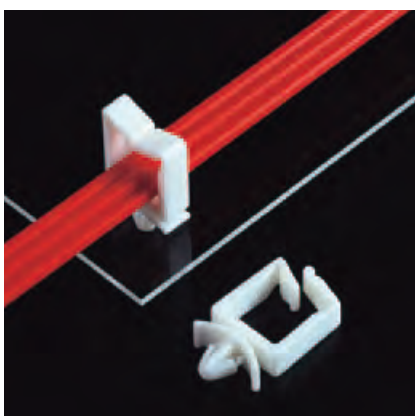
Nylon 66

Standard color

UL94V-2: Natural
UL94V-0: White

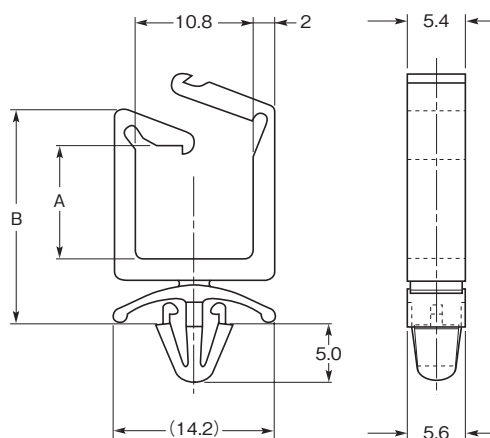
Part No.		Dimensions (mm)		Packing unit (pieces)
UL94V-2	UL94V-0	Mounting hole	Applicable board thickness	
WSR-4	WSR-4U	φ 4.8	0.5 ~ 2.0	500

Wire saddle LWS series



Feature

- Can be inserted and locked in the place by simple push.
- Can be fixed with single push.
- Can be installed in horizontal or reverse direction due to the insertion with locking system.



Material

Nylon 66

Standard color

UL94V-2: Natural
UL94V-0: White



UL recognized product

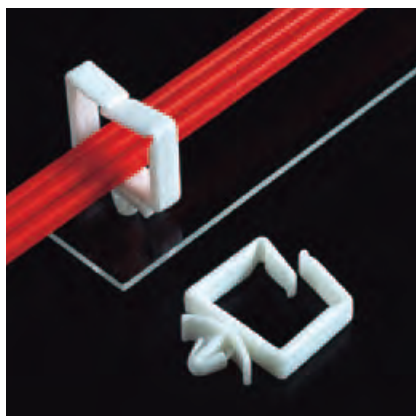
E191920

Cat. No. LWS..... Rating: 85°C
Cat. No. LWS-U Rating: 85°C

Part No.		Dimensions (mm)				Packing unit (pieces)
UL94V-2	UL94V-0	A	B	Mounting hole	Applicable board thickness	
LWS-1	LWS-1U	6.7	16.4	φ 4.8	0.5 ~ 2.0	500
LWS-2	LWS-2U	10.6	20.4			
LWS-3	LWS-3U	20.0	29.5			
LWS-4	LWS-4U	27.8	37.3			

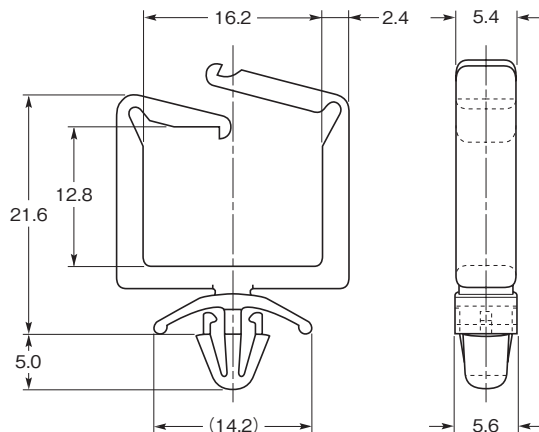
Wire saddle

LWSR-E series



Feature

- Best suited for holding the optical fiber.
- Protect the optical fiber from the damage owing to the roundish structure.
- Can be installed in horizontal or reverse direction due to the insertion with locking system.



Material

Nylon 66

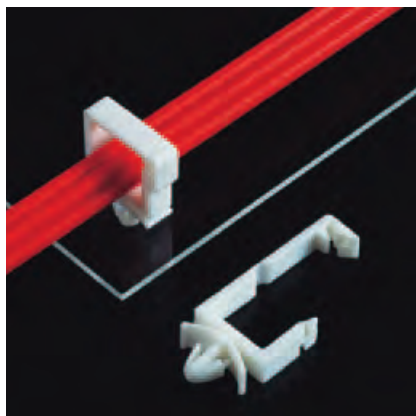
Standard color

UL94V-2: Natural
UL94V-0: White

Part No.		Dimensions (mm)		Packing unit (pieces)
UL94V-2	UL94V-0	Mounting hole	Applicable board thickness	
LWSR-E2	LWSR-E2U	φ 4.8	0.5 ~ 2.0	500

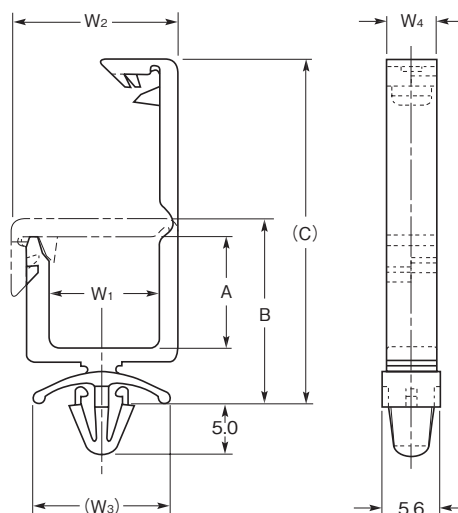
Wire saddle

PLWS series



Feature

- Shall be locked after the wire inserted.
- Enable to utilize the wiring space, and to be locked firmly.
- Can be installed in horizontal or reverse direction.



Material

Nylon 66

Standard color

UL94V-2: Natural
UL94V-0: White



UL recognized product

E191920

Cat. No. PLWS Rating: 85°C
Cat. No. PLWS-U Rating: 85°C

Part No.		Dimensions (mm)								Mounting hole	Applicable board thickness	Packing unit (pieces)
UL94V-2	UL94V-0	A	B	(C)	W ₁	W ₂	(W ₃)	(W ₄)				
PLWS-1	PLWS-1U	6.0	13.8	29.6	11.0	16.7	14.2	5.0	φ 4.8	0.6 ~ 2.0	500	
PLWS-2	PLWS-2U	11.1	18.8	35.4	11.4	17.3	14.2	5.0				
PLWS-3	PLWS-3U	16.4	24.8	42.5	12.9	19.0	14.2	5.5				
PLWS-4	PLWS-4U	22.5	32.1	55.3	17.5	24.5	18.2	6.0				
PLWS-4L	PLWS-4LU	22.5	33.3	56.5	17.5	24.5	18.2	6.0				2.0 ~ 3.2

Wire saddle PLWS-RT series



INSULATION SLEEVE
FOR TERMINAL

CIRCUIT BOARD ACCESSORY

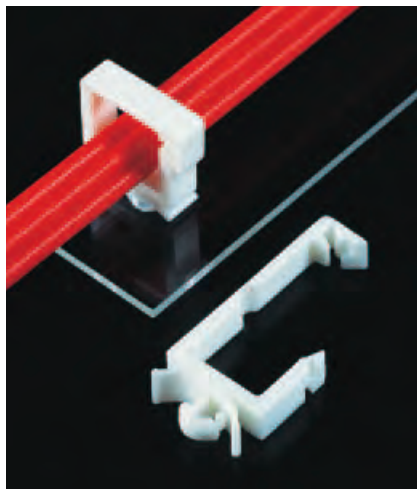
WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT

Re-usable type



Feature

- Excellent in maintenance and re-usability
- Hold the wire firmly due to the locking system.
- Easily removable from chassis.

Material Nylon 66
Standard color UL94V-2: Natural
UL94V-0: White

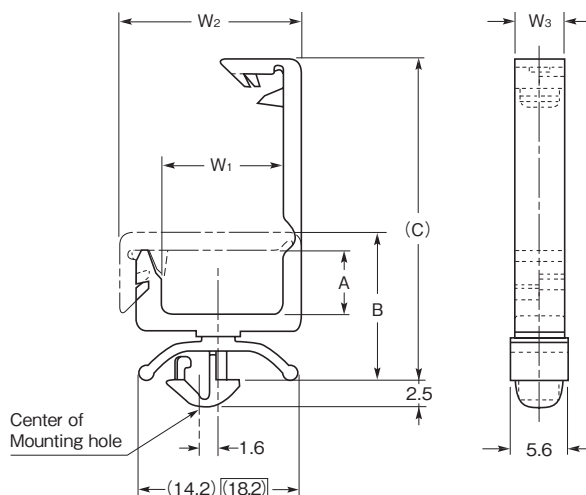


UL recognized product

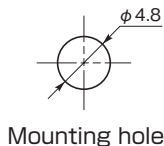
E191920

Cat. No. PLWS-RT····· Rating: 85°C

Cat. No. PLWS-RTU····· Rating: 85°C



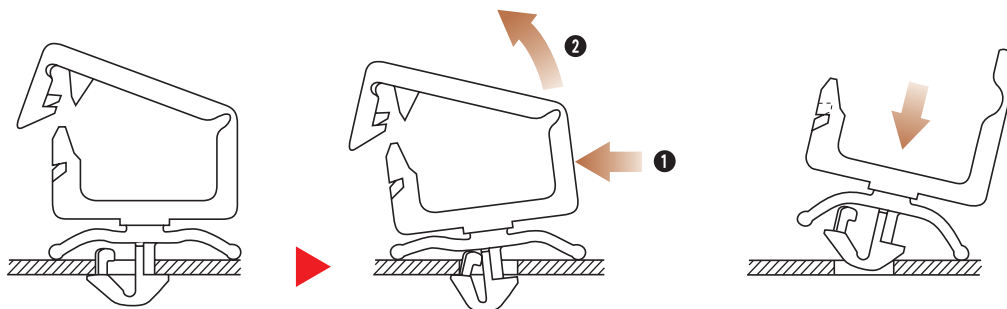
□ the dimensions of PLWS-4 series



Mounting hole

Un-Installation manual

- Installed on chassis



Easily removable by pushing towards ❶ direction and pulling towards ❷ direction at the same time.

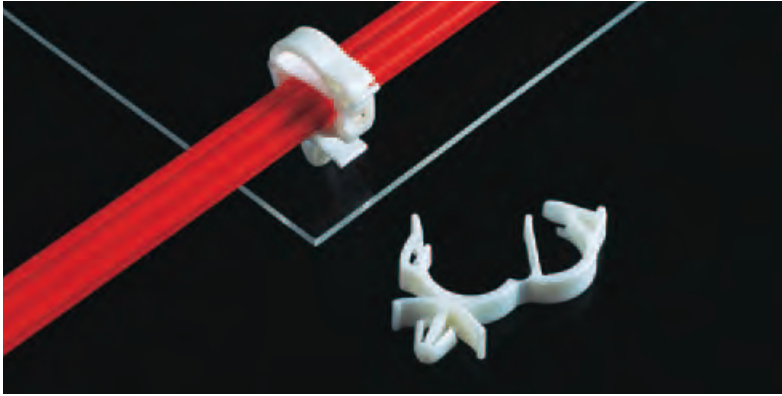
Easily installed with the insertion as per the figure at a time of installation.

- Please avoid putting force towards ❶ direction while wiring or installing

Part No.		Dimensions (mm)							Mounting hole	Applicable board thickness	Packing unit (pieces)
UL94V-2	UL94V-0	A	B	(C)	W ₁	W ₂	(W ₃)				
PLWS-1RT	PLWS-1RTU	6.0	13.7	29.5	11.0	16.7	5.0	φ 4.8	0.7 ~ 2.0	500	
PLWS-2RT	PLWS-2RTU	11.1	18.7	35.3	11.4	17.3	5.0				
PLWS-3RT	PLWS-3RTU	16.4	24.7	42.4	12.9	19.0	5.5				
PLWS-4RT	PLWS-4RTU	22.5	32.0	55.2	17.5	24.5	6.0				

Easy lock

ES series/EB series



Feature

- Easily lockable with the fingertips and the internal spring will hold the wire firmly.
- Best suited for holding the optical fiber.
- Easy to unlock with the function of release lever.
- ES series to be fixed with single push and to use the mounting hole.
- EB series (Double-side adhesive tape type), smooth remove backing paper with pull-tab.

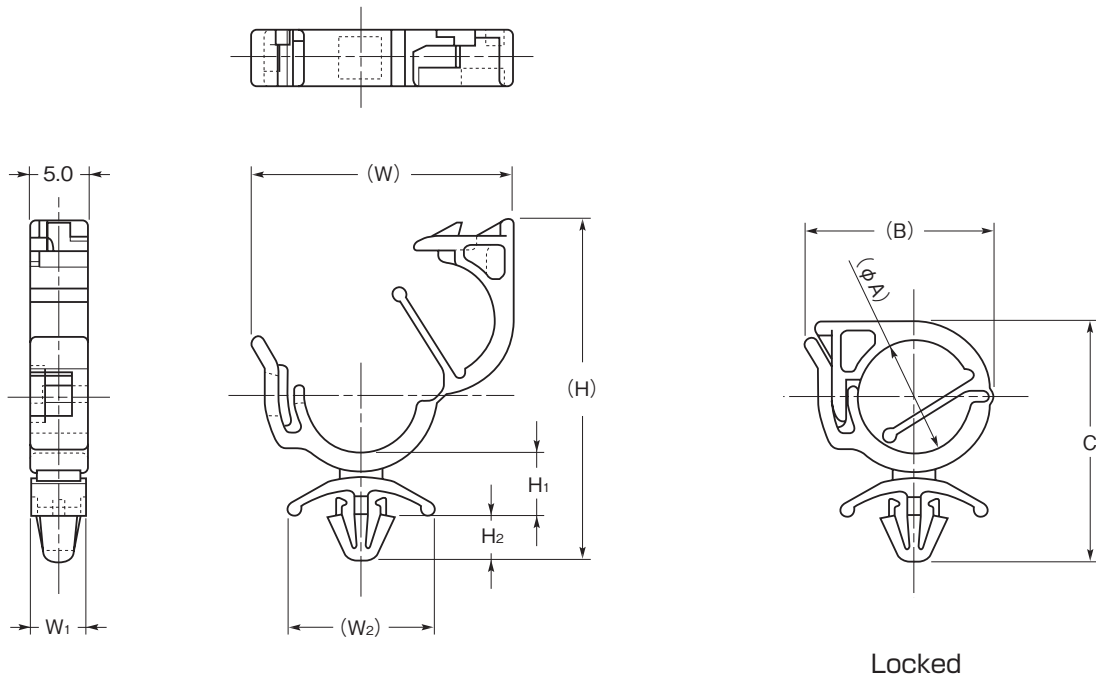
Material

Nylon 66

Standard color

UL94V-2: Natural
UL94V-0: White

ES series



Locked

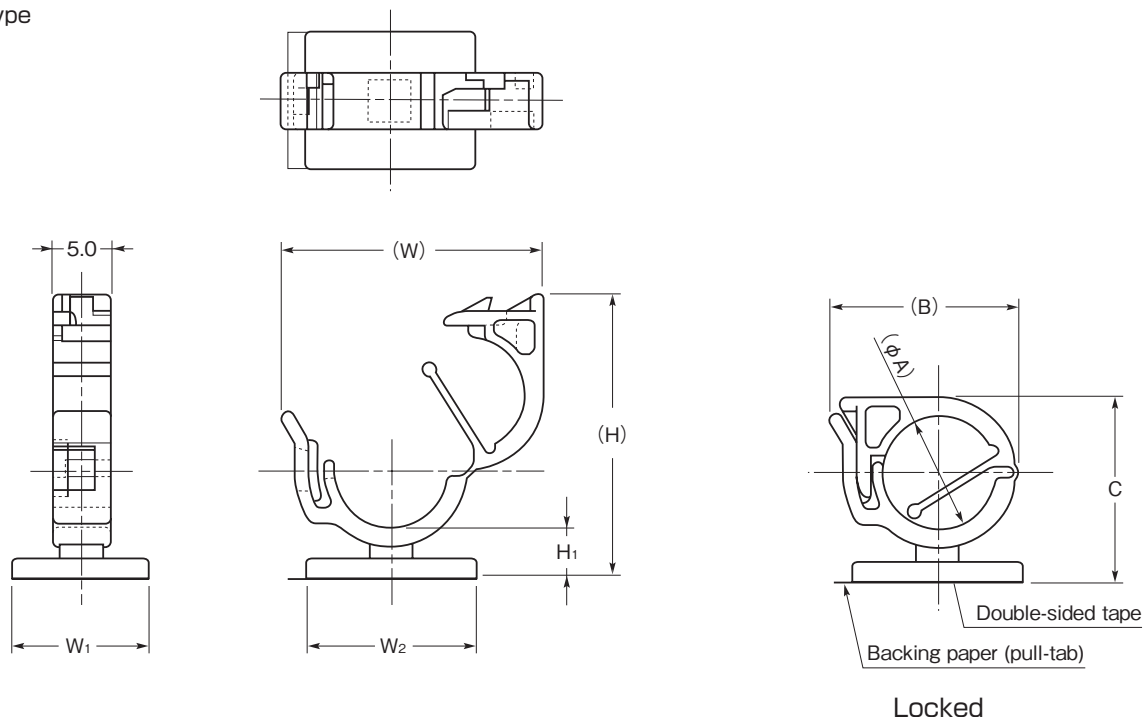
ES series

Part No.		Dimensions (mm)											Packing unit (pieces)	
UL94V-2	UL94V-0	Applicable wire size	(ϕA)	(B)	$C \pm 0.3$	(W)	W_1	W_2	(H)	H_1	H_2	Mounting hole		Applicable board thickness
ES- 6	ES- 6U	$\phi 4 \sim \phi 6$	7.6	13.9	19.0	19.2	4.8	(13.0)	25.9	5.5	4	$\phi 4.0$	0.6 ~ 1.6	500
ES- 8	ES- 8U	$\phi 6 \sim \phi 8$	10.0	16.5	21.7	23.2	4.8	(13.0)	30.2	5.6	4	$\phi 4.0$	0.6 ~ 1.6	
ES-10	ES-10U	$\phi 8 \sim \phi 10$	12.4	20.0	25.6	27.6	5.6	(14.2)	35.4	6.0	5	$\phi 4.8$	0.6 ~ 2.0	



EB series

Pull-tab type



EB series

Part No.		Applicable wire size	Dimensions (mm)								Packing unit (pieces)
UL94V-2	UL94V-0		(φ A)	(B)	C ± 0.3	(W)	W ₁	W ₂	(H)	H ₁	
EB- 6	EB- 6U	φ 4 ~ φ 6	7.6	13.9	13.5	19.2	12.0	12.0	20.6	4.1	500
EB- 8	EB- 8U	φ 6 ~ φ 8	10.0	16.5	16.5	23.2	12.0	15.0	24.9	4.2	
EB-10	EB-10U	φ 8 ~ φ 10	12.4	20.0	19.1	27.6	15.0	17.5	29.4	4.7	

Reference P120 Please refer to the "Cautions concerning the use of product with the double-sided tape."

Cord hook
CH-MB



Feature

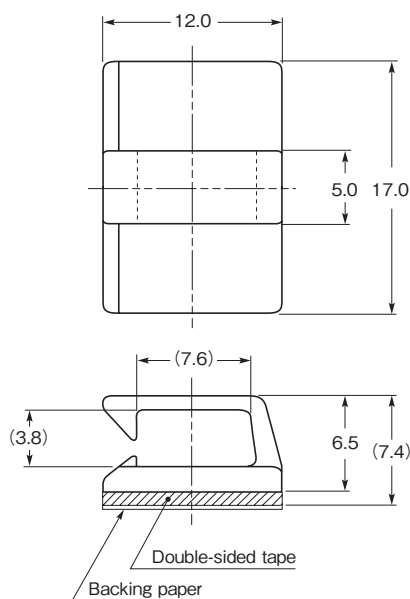
- Best suited for small wiring inside the various devices.
- Comes with double-sided tape.

Material

Nylon 6

Standard color

UL94V-2: Black



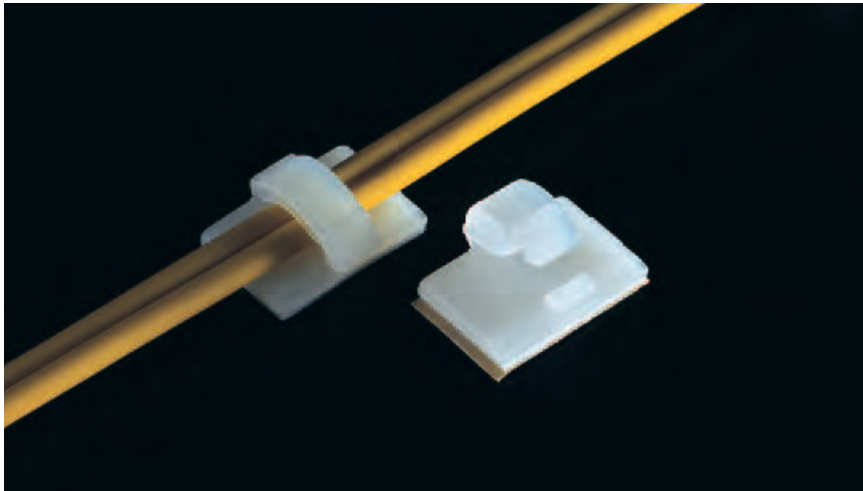
Part No.	Dimensions (mm)		Packing unit (pieces)
	Applicable wire size		
CH-MB	3.8x7.6		500

Reference P120 Please refer to the "Cautions concerning the use of product with the double-sided tape."

Patchpul® PA series



Pull-tab type



Feature

- Suited for fixing the cable or wire of various electronic and electric devices.
- Hold wire firmly with the internal spring excelling in elasticity.
- Double-side adhesive tape type, smooth remove backing paper with pull-tab.

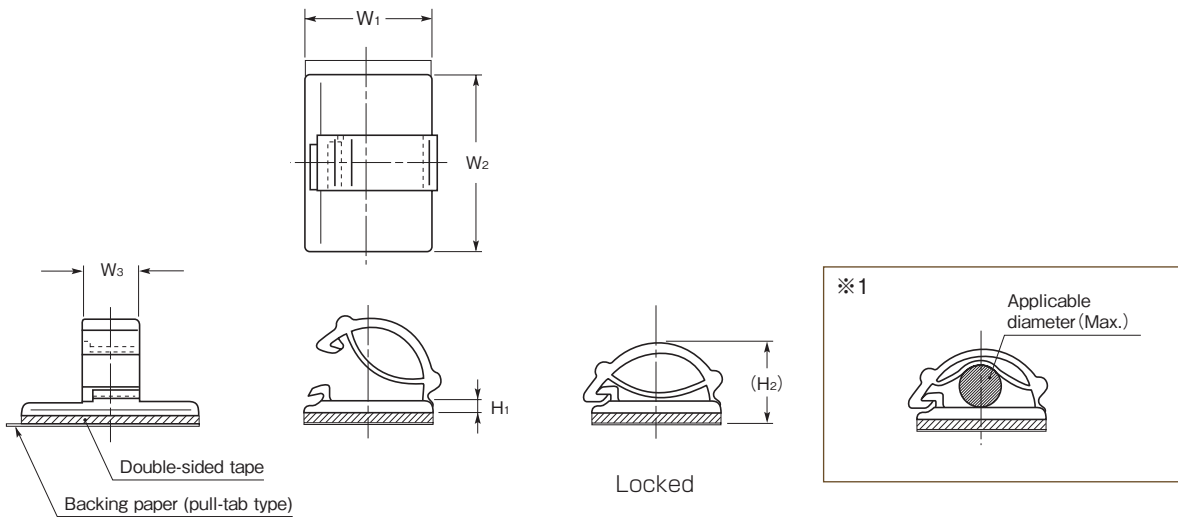
Material

Nylon 6 UL94V-2

Standard color

Natural

Black



Part No.	Applicable diameter (Max.) ^{※1}	Dimensions (mm)					Packing unit (pieces)
		W ₁	W ₂	W ₃	H ₁	(H ₂)	
PA-10	φ 2.1	10.0	19.6	6.0	1.4	5.6	500
PA-20	φ 4.5	14.2	19.6	6.0	1.4	8.5	
PA-30	φ 8.0	21.6	19.6	8.0	2.2	13.1	

● At a time of placing an order, please attach the color code at the end of part number. **Example: PA-10B (Black)**

Color	Color code
Natural	N
Black	B

● The ones with heat-resistant double-sided tape are order made items.

Contact us for further information.

(Tolerable temperature range for tape : -30 °C ~ 200°C)

Reference P120 Please refer to the "Cautions concerning the use of product with the double-sided tape."

Patchpul®

PL series



INSULATION SLEEVE
FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT



Feature

- The same as PA series, but with mounting legs.
- Can be fixed with single push.
- Choose between round or plus-shaped mounting hole permit patch-pul to be tuned to the desired angle.

Material

Nylon 6 UL94V-2

Standard color

Natural
Black

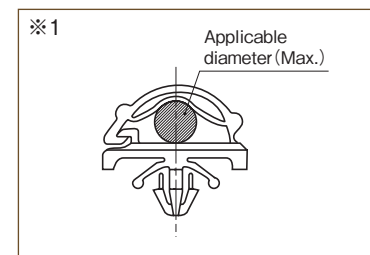
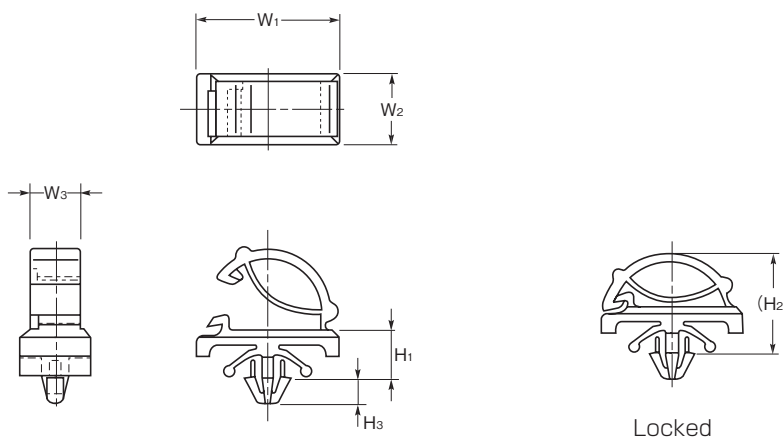


UL recognized product

E191920

Cat. No. PL-10 ····· Rating: 80°C

Cat. No. PL-20, -30 · Rating: 65°C



Part No.	Applicable diameter (Max.) ※1	Dimensions (mm)						Applicable board thickness		Packing unit (pieces)
		W ₁	W ₂	W ₃	H ₁	H ₂	(H ₃)	Round hole	Plus-shaped hole	
PL-10	φ 2.1	13.4	8.0	6.0	5.1	7.9	3.0	0.5 ~ 1.8	0.5 ~ 1.6	500
PL-20	φ 4.5	16.2	8.0	6.0	5.2	11.1	3.0	0.5 ~ 1.8	0.5 ~ 1.6	
PL-30	φ 8.0	21.4	10.0	8.0	5.3	15.2	5.0	0.5 ~ 2.0	0.5 ~ 2.0	

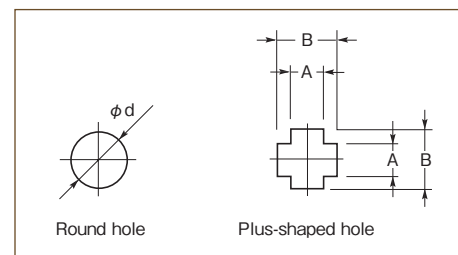
● At a time of placing an order, please attach the color code at the end of part number. **Example: PL-10B (Black)**

Color	Color code
Natural	N
Black	B

Mounting hole dimensions

Part No.	Dimensions (mm)		
	Round hole φ d	Plus-shaped hole A B	
PL-10	3.8	2.2	3.8
PL-20	3.8	2.2	3.8
PL-30	4.8	3.2	4.8

Mounting hole dimensions



Patchpul®

PJ series



Feature

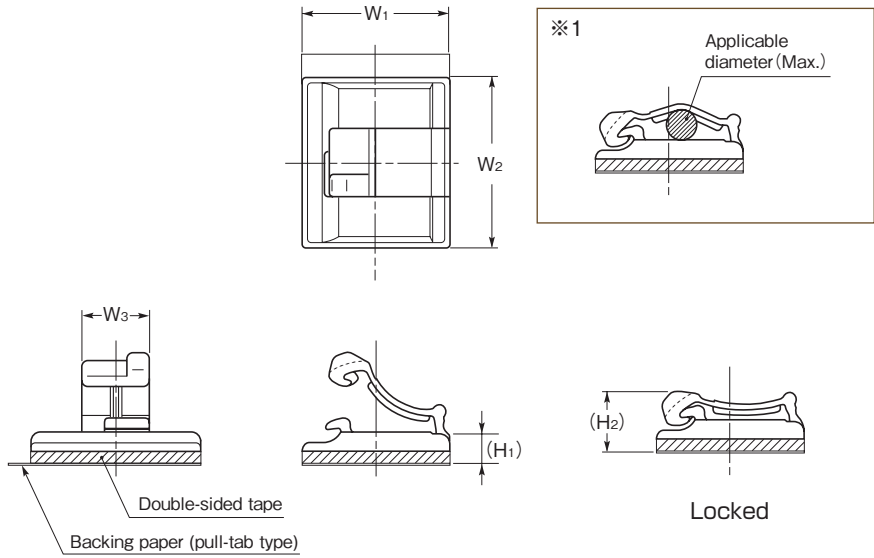
- These are lower height type of PA series.
- Hold wire firmly with the internal spring excelling in elasticity.
- Double-side adhesive tape type, smooth remove backing paper with pull-tab.

Material

Nylon 6 UL94V-2

Standard color

Black



Part No.	Applicable diameter (Max.) ※1	Dimensions (mm)					Packing unit (pieces)
		W1	W2	W3	(H1)	(H2)	
PJ-13B	φ 2.6	13	15	6	2.8	5.4	500
PJ-15B	φ 3.0	15	15	6	2.8	5.3	
PJ-21B	φ 3.8	21	15	8	2.8	5.3	

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."

Clippul®

KU series



Feature

- For bundling and tying the wire and cable of electronic and electric devices.
- Hold wire firmly with the internal spring excelling in elasticity.

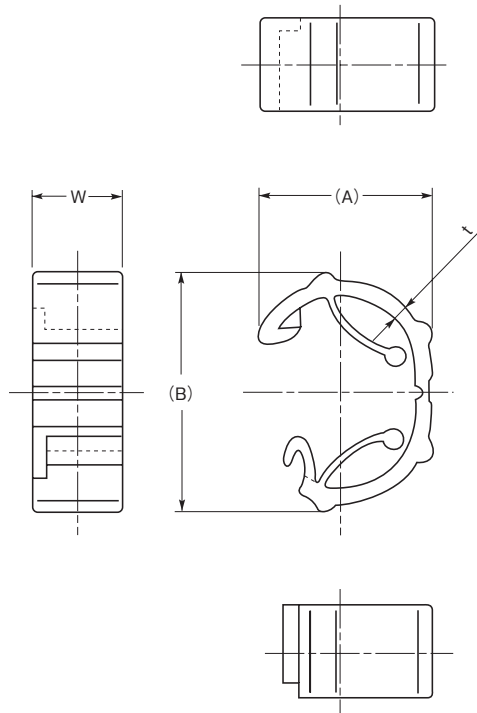
Material

Nylon 6

Standard color

UL94V-2: Natural

UL94V-0: White



Part No.		Applicable diameter	Dimensions (mm)				Packing unit (pieces)
UL94V-2	UL94V-0		(A)	(B)	W	t	
KU-3	KU-3U	φ 2 ~ φ 4	9.8	10.6	6.0	0.9	500
KU-5	KU-5U	φ 3.5 ~ φ 5.5	11.2	15.1	6.0	1.0	
KU-7	KU-7U	φ 5.5 ~ φ 8	14.6	18.5	6.0	1.1	

Rod clip

RC series



Re-usable type

RC-08U



RC-08SU



Locked : RC-08U



Feature

- Re-usable type that can be easily removed from the chassis.
- Can be used for holding the bundled wire, pipe etc., and excels for maintenance purpose.

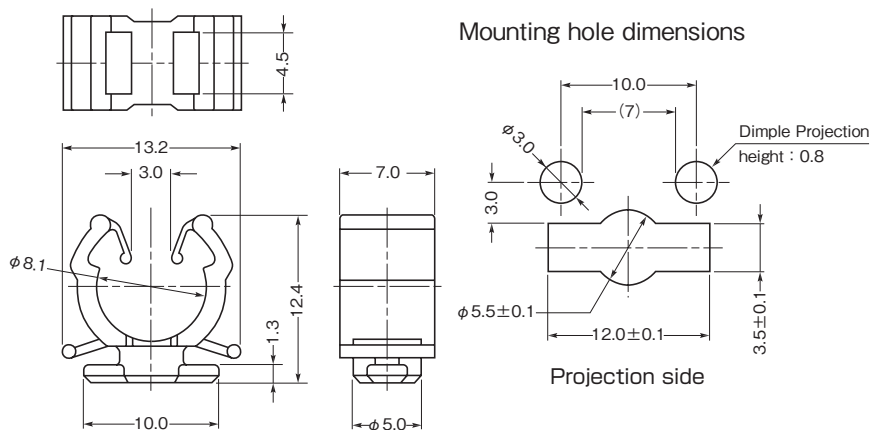
Material Nylon 6
UL94V-0

Standard color RC-08U: Gray
RC-08SU: White

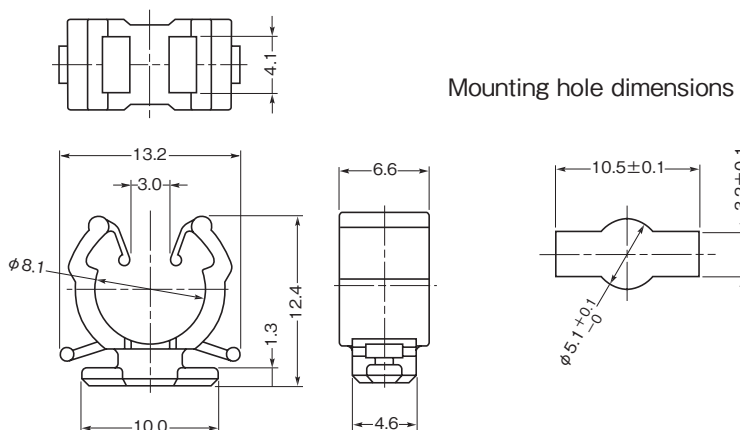
UL recognized product E191920
Cat. No. RC Rating: 85°C

Part No.	Dimensions (mm)		Packing unit (pieces)
	Applicable diameter (Max.)	Applicable board thickness	
RC-08U	φ 8	0.6 ~ 1.0	500
RC-08SU			

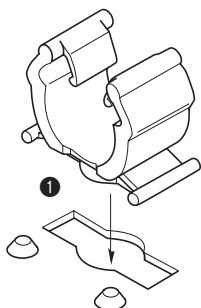
RC-08U



RC-08SU



Installation manual : RC-08U (RC-08SU: installation requires the procedure of only ①→②.)

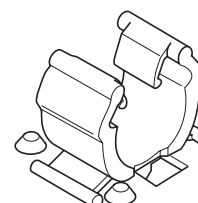


① Insert the rod clip into the mounting hole.



② Hold the body and turn the rod clip.

③ Completed



③ Installation is completed once the clip legs go past the dimples.

④ In case of un-installation, reverse the procedure.

Sensor holder

SH series



SH-05



Feature

- Hold sensors (thermistors, etc) having $\phi 1.3 \sim 1.5$ lead wire.
- Can be clipped onto sensors temporarily prior to itself mounted onto chassis.
- SH-05 maintain the uniform height of 4.8mm from the chassis to its center.
- SH-1545 maintain the uniform height of 15mm from the chassis to its center.
- By use of mounting hole 2, it protects the body from rotating.

Material

Nylon 66 UL94V-2

Standard color

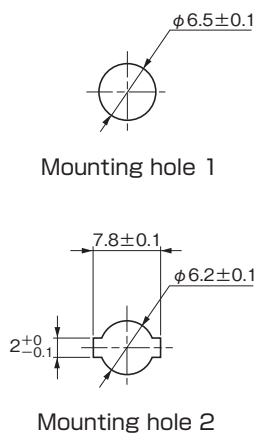
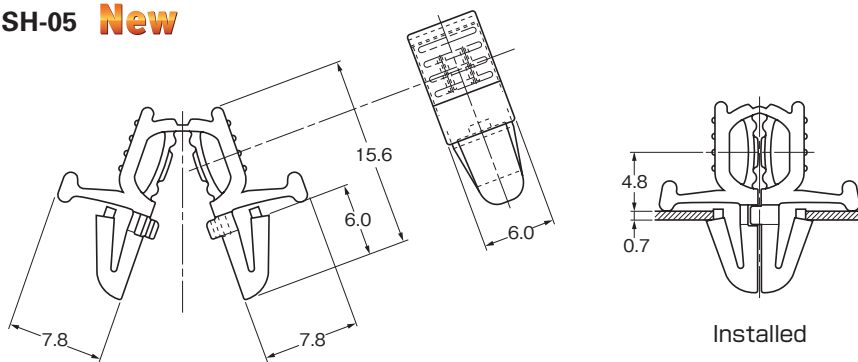
Natural

Part No.	Dimensions (mm)	Packing unit (pieces)
	Applicable board thickness	
SH-05	0.5 ~ 0.7	500
SH-1545		

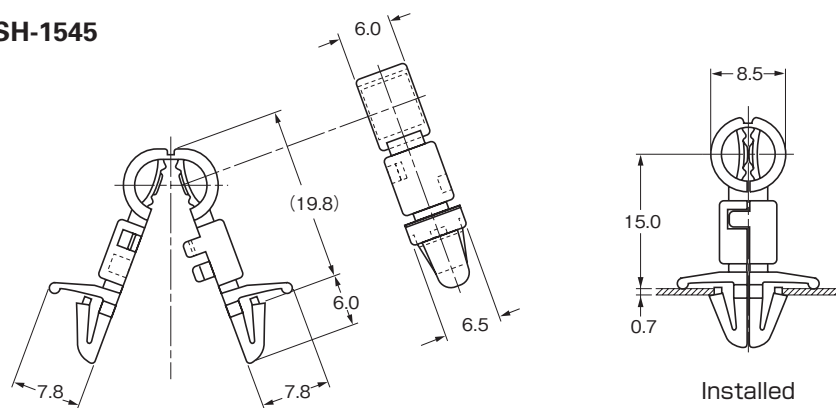
SH-1545



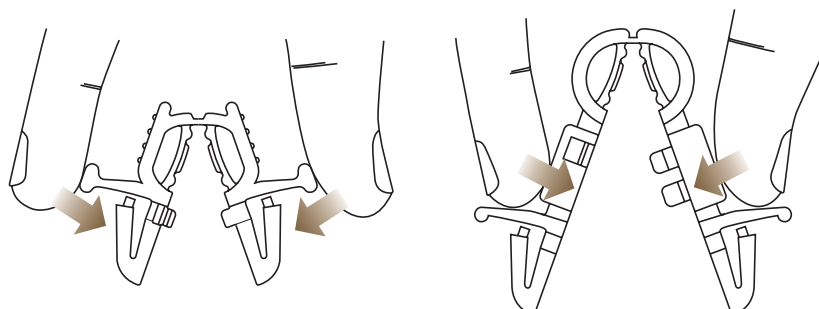
SH-05 **New**



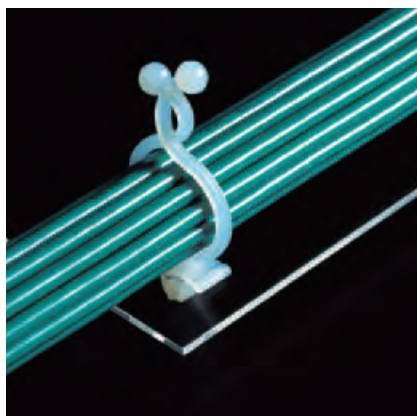
SH-1545



In case of clipping temporarily, hold the part indicated in the drawing and put the force towards the arrow.



Twist clip TC-2006



Feature

- For holding a bundle of wire and cable.
- Easy to bundle and release.
- After the installation, it will not rotate.

Material Standard color

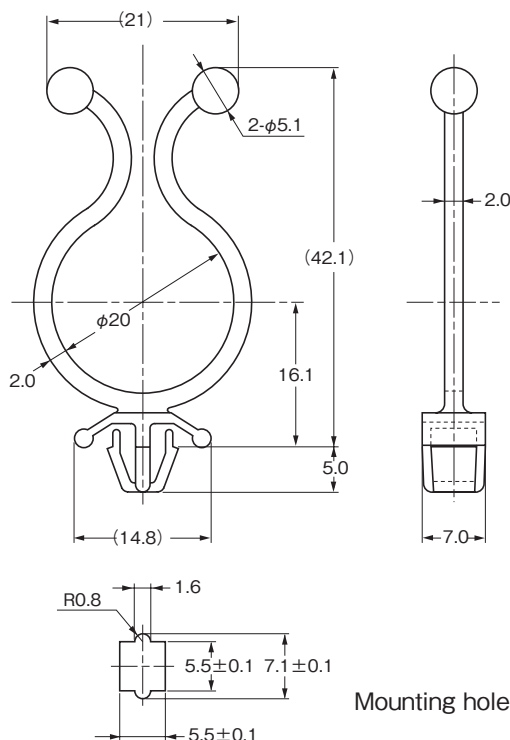
Nylon 6 Natural
UL94V-2



UL recognized product

E191920

Cat. No. TC-..... Rating: 65°C



Mounting hole dimensions

Part No.	Dimensions (mm)		Packing unit (pieces)
	Applicable board thickness		
TC-2006	0.8 ~ 1.6		500

Twist clip TCS series



Feature

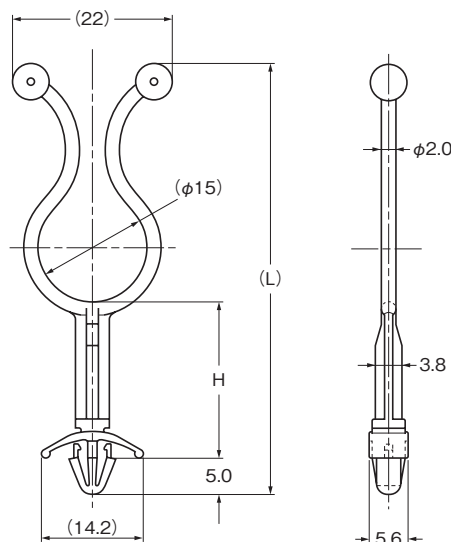
- For holding a bundle of wire and cable.
- Edge-less type having roundish body.
- Easy to bundle and release.
- Maintain the uniform height of the bundled wire.

Material

Nylon 66 UL94V-2

Standard color

Natural



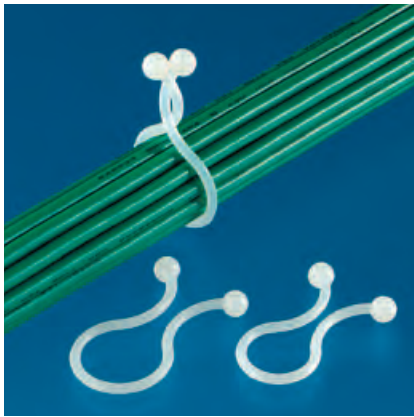
Part No.	H	(L)	Dimensions (mm)		Packing unit (pieces)
			Mounting hole	Applicable board thickness	
TCS-1512	11.6	49.6	$\phi 4.8$	0.6 ~ 2.0	500
TCS-1522	21.6	59.6			

Twist clip

TCR series



Re-usable type



Material

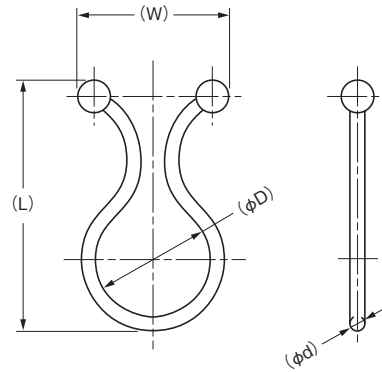
Nylon 66 UL94V-2

Standard color

Natural

Feature

- For holding a bundle of wire and cable.
- Edge-less type having roundish body.
- Easy to bundle and release.



Part No.	Dimensions (mm)				Packing unit (pieces)
	(W)	(L)	(φD)	(φd)	
TCR-05	16.4	21.0	5.2	1.8	500
TCR-08	18.1	25.5	8.3	1.8	
TCR-11	20.5	31.0	11.6	2.0	
TCR-15	22.0	35.0	15.0	2.0	
TCR-18	23.6	39.5	18.0	2.2	
TCR-20	25.1	42.5	20.0	2.2	
TCR-23	26.6	46.0	23.0	2.2	

Harness clip

HC series



Feature

- Best suited for small wiring.
- Save a lot of space due to compact sizing.

Material
 Nylon 6 UL94V-2
 Nylon 66 UL94V-0

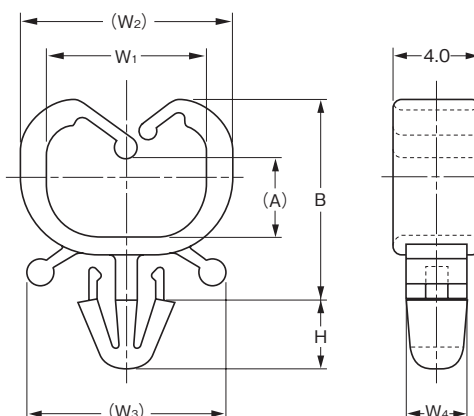
Standard color
 Nylon 6 Natural
 Nylon 66 White



UL recognized product

E191920

Cat. No. HC-6, -10 ·· Rating: 80°C



Part No.		Dimensions (mm)								Mounting hole	Applicable board thickness	Packing unit (pieces)
UL94V-2	UL94V-0	(A)	B	W ₁	W ₂	W ₃	W ₄	H				
HC-6	HC-6U	3.7	9.3	7.4	9.8	9.2	2.9	3.2	φ 3.0	0.6 ~ 1.6	500	
HC-10	HC-10U	8.1	15.0	9.4	12.0	12.2	3.4	3.0				φ 3.5

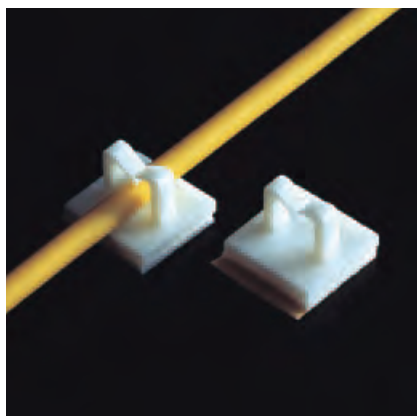
is UL recognized product.

Mini wire saddle

MWS series

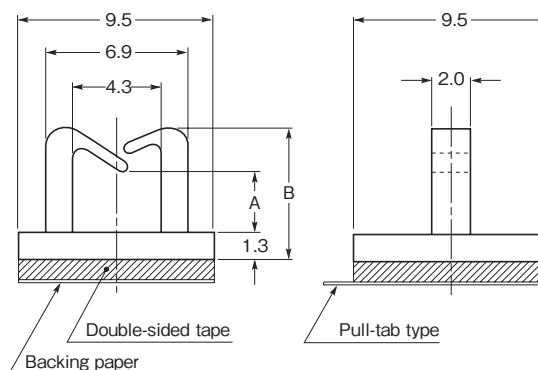


Pull-tab type



Feature

- Best suited for small wiring.
- Save a lot of space due to compact sizing.
- Double-side adhesive tape type, smooth remove backing paper with pull-tab.



Material

Nylon 66

Standard color

UL94V-2: Natural
 UL94V-0: White

Part No.		Dimensions (mm)		Packing unit (pieces)
UL94V-2	UL94V-0	A	B	
MWS-1B	MWS-1BU	3.0	6.4	500

Reference P120

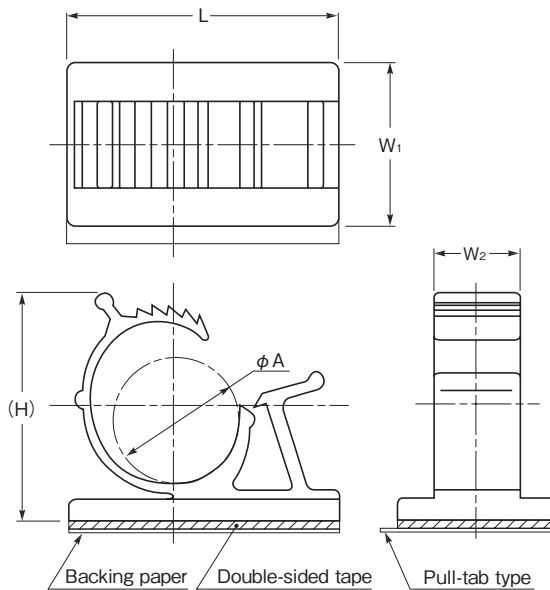
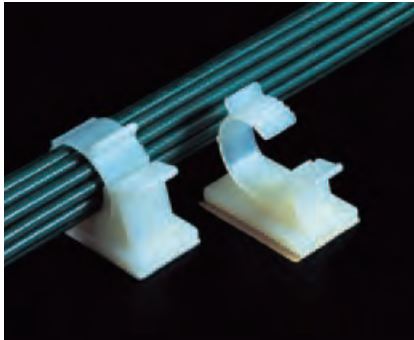
Please refer to the "Cautions concerning the use of product with the double-sided tape."

Just-fit clamp

JFC series



Pull-tab type



Feature

- For holding a bundle of wire and cable.
- Adjustable for the appropriate diameter with the five-stage ratch structure.
- Convenient owing to the single-push unlocking system.
- Double-side adhesive tape type, smooth remove backing paper with pull-tab.

Material Standard color

Nylon 66 Natural
UL94V-2

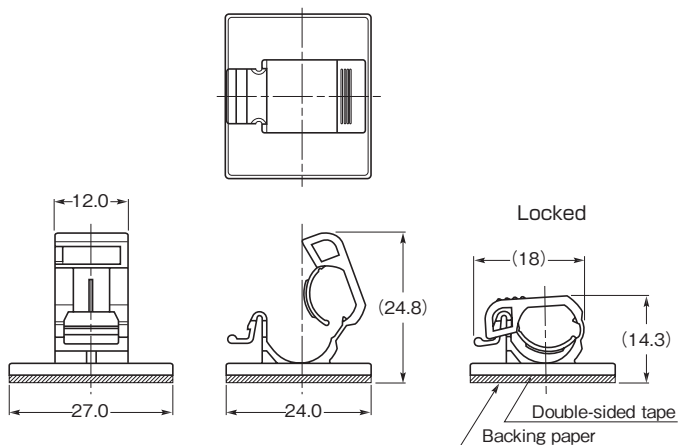
Part No.	Dimensions (mm)					Packing unit (pieces)
	L	W ₁	W ₂	(H)	(φA)	
JFC-1	25.4	19.1	10.2	22.0	7.8 ~ 9.8	100
JFC-2	31.8	19.1	10.2	26.9	11.4 ~ 14.3	
JFC-3	38.1	19.1	12.7	32.5	15.2 ~ 19.0	

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."

Wire fixer

WF-08

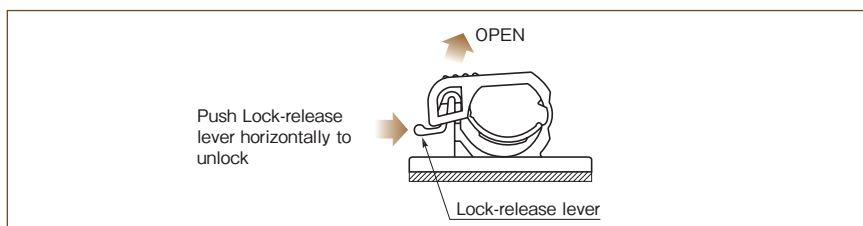


Feature

- For holding a bundle of wire and cable.
- Easily lockable with the fingertips.
- Hold the wire firmly due to the unique internal spring structure.

Material Standard color

Nylon 66 Gray
UL94V-2



Part No.	Applicable diameter (mm)	Packing unit (pieces)
WF-08	φ 8.0	100

Reference P120

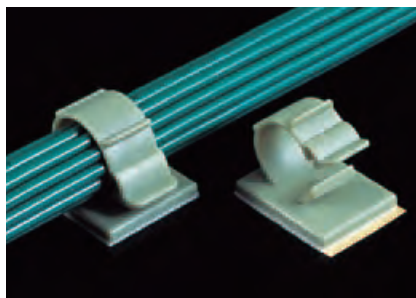
Please refer to the "Cautions concerning the use of product with the double-sided tape."

Wire clamp

S series



Pull-tab type



Feature

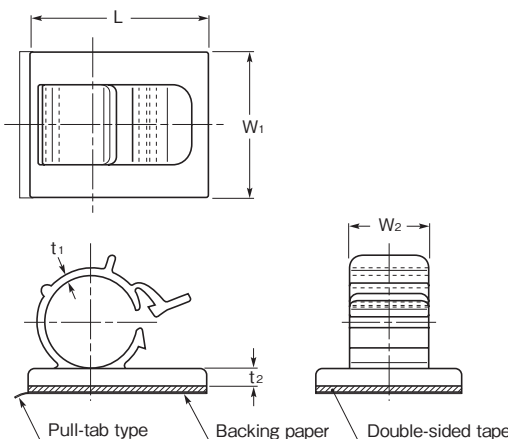
- For holding a bundle of wire and cable.
- Easily lockable, hard to come out, highly reliable.
- Double-side adhesive tape type, smooth remove backing paper with pull-tab.

Material

Nylon 6 UL94V-2

Standard color

Gray



Part No.	Applicable Dia. (Max.)	Dimensions (mm)					Packing unit (pieces)
		L ± 0.3	W ₁ ± 0.3	W ₂	t ₁	t ₂	
S-504	φ 4.5	12.0	17.5	5.0	0.9	1.9	100
S-506	φ 6.5	15.0	17.5	7.0	0.9	2.3	
S-508	φ 8.5	15.0	17.5	9.0	0.9	2.5	
S-510	φ 10.0	29.5	22.0	12.0	1.0	2.8	
S-514	φ 14.0	29.5	24.0	13.0	1.2	3.0	50
S-518	φ 18.0	29.5	27.0	14.0	1.2	3.0	
S-525	φ 25.0	45.0	34.0	17.5	1.5	3.0	20

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."

Wire clamp With sponge

SSP series



Pull-tab type



Feature

- Wire clamp: This is the series that SL series having sponge at the wire holding part.
- Protect wire, optical fiber etc from the damage due to the sponge.
- Effective for shock/vibration absorption.

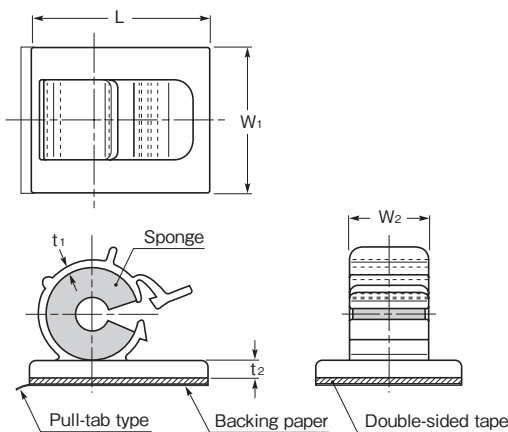
Material

Bodyng : Nylon 6 UL94V-2

Sponge : Synthetic rubber Hardness : 25

Standard color

Gray



Part No.	Applicable Dia. (Max.)	Dimensions (mm)					Packing unit (pieces)
		L ± 0.3	W ₁ ± 0.3	W ₂	t ₁	t ₂	
SSP-510	φ 6.0	29.5	22.0	12.0	1.0	2.8	50
SSP-514	φ 10.0	29.5	24.0	13.0	1.2	3.0	
SSP-518	φ 14.0	29.5	27.0	14.0	1.2	3.0	
SSP-525	φ 19.0	45.0	34.0	17.5	1.5	3.0	

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."

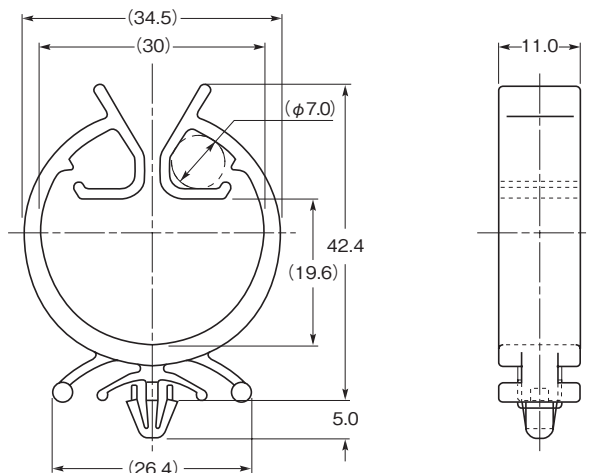
Wire clip

CW-3048



Feature

- For holding a bundle of wire and cable.
- Having 3 zones of storing wire and 2 zones can be used for holding branch lines.
- Can be fixed with single-push.
- Easy to hold and store wire.



Material

Nylon 6 UL94V-2

Standard color

Natural

Part No.	Dimensions (mm)		Packing unit (pieces)
	Mounting hole	Applicable board thickness	
CW-3048	φ 4.8	0.6 ~ 2.0	100

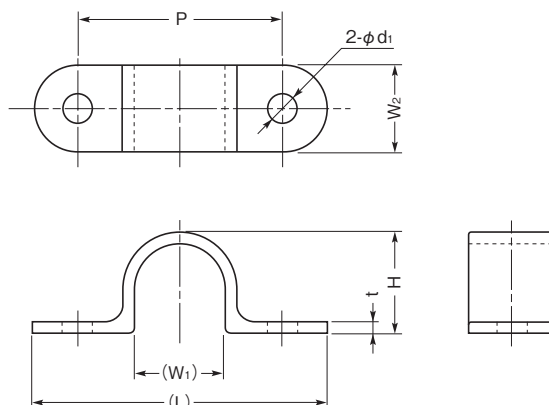
Wire saddle

P series



Feature

- Fix the bundle of wire and cable tightly with the fixation of screws.



Material

High-density polyethylene

Standard color

Natural

Part No.	Dimensions (mm)								Packing unit (pieces)
	Applicable Dia. (Max.)	W ₁	W ₂	P	L	H	φ d	t	
P-1	φ 11.8	11.8	15.0	24.0	38.0	13.8	4.2	2.0	200
P-2	φ 15.6	16.2	15.0	36.0	52.0	17.6	5.2	2.0	
P-3	φ 18.0	18.0	20.0	38.0	56.8	20.0	5.2	2.0	
P-4	φ 25.2	25.2	20.0	50.0	68.0	27.7	5.2	2.5	

Nylon clip / High-heat clip

SL series



INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY



Feature

- Fix the bundle of wire and cable tightly with the fixation of screws.
- Protect wire from damage owing to roundish shape inside the clip.
- Inner diameter is adjustable with SL-14N ~ SL-32N (see fig.2 and 3)
- Two different Materials are available depending on the use of temperature.

Material

Nylon 66 UL94V-2: Nylon clip
Nylon 46 UL94V-0: High-heat clip

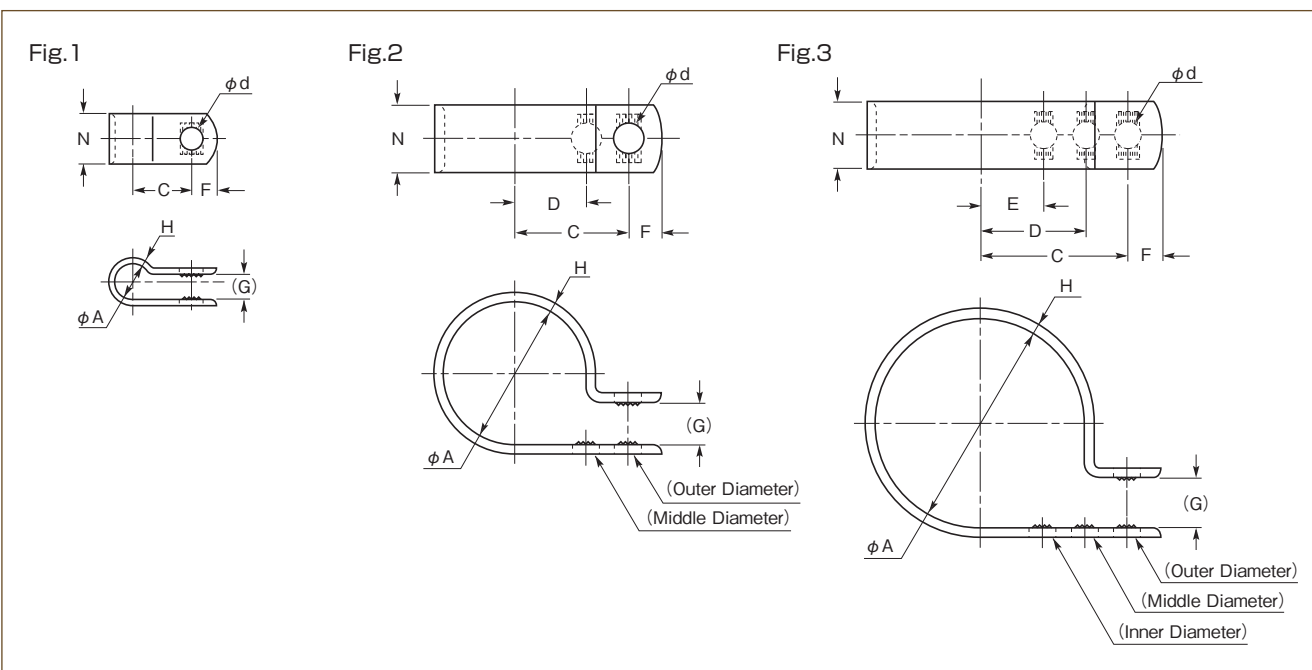
Standard color

Nylon 66: Natural
Nylon 46: White



UL recognized product E191920

Cat. No. SL-N Rating: 85°C



Nylon clip Part No. UL94V-2	High-heat clip Part No. UL94V-0	Dimensions (mm)									Internal Dia. Mounted (mm)			Fig.	Packing unit (pieces)
		phi A	phi d	C	D	E	F	(G)	H	N	Outer hole	Middle hole	Inner hole		
SL- 2N	SL-2H	3.3	4.3	9.5	—	—	4.8	3.2	1.1	9.5	3.0	—	—	1	100
SL- 3N	SL-3H	5.3	4.3	10.3	—	—	4.8	4.8	1.1	9.5	4.6	—	—		
SL- 4N	SL-4H	6.8	4.3	11.1	—	—	4.8	4.8	1.1	9.5	5.6	—	—		
SL- 5N	SL-5H	8.4	4.3	11.9	—	—	※ 4.8	4.8	1.1	9.5	7.4	—	—		
SL- 6N	SL-6H	10.6	※ 4.3	12.7	—	—	※ 4.8	6.4	1.1	9.5	10.0	—	—		
SL- 7N	—	12.2	4.3	13.5	—	—	4.8	6.4	1.1	9.5	10.7	—	—		
SL- 8N	—	13.2	4.3	14.3	—	—	4.8	6.4	1.1	9.5	11.9	—	—		
SL- 9N	—	15.2	4.3	15.1	—	—	4.8	6.4	1.1	9.5	13.5	—	—		
SL-10N	—	16.0	4.3	15.9	—	—	4.8	6.4	1.1	9.5	14.0	—	—		
SL-11N	—	19.0	5.1	17.5	—	—	6.3	7.9	1.8	12.7	16.8	—	—		
SL-12N	—	19.8	5.1	18.2	—	—	6.3	7.9	1.8	12.7	17.8	—	—		
SL-13N	—	22.1	5.1	19.0	—	—	6.3	7.9	1.8	12.7	20.8	—	—		
SL-14N	—	22.9	5.1	19.8	11.9	—	6.3	7.9	1.8	12.7	21.3	18.5	—	2	50
SL-16N	—	26.9	5.1	21.4	13.5	—	6.3	7.9	1.8	12.7	24.4	22.3	—		
SL-18N	—	29.2	5.1	23.0	15.1	—	6.4	7.9	1.8	12.7	26.7	24.1	—	3	25
SL-24N	—	39.4	5.1	27.8	19.9	11.9	6.4	9.5	1.8	12.7	37.3	35.0	31.2		
SL-32N	—	52.1	5.1	34.1	24.6	13.5	6.4	9.5	1.8	12.7	48.8	46.2	43.7		

※ SL-6H only. phi d=4.8

※ SL-5H, 6H only. F=5.0

UL is UL recognized product.

● Hi-heat clip are heat -retardant. (Continuous use under temperature : 140°C)

WIRING CLAMP

WIRING PROTECTOR

FASTENER

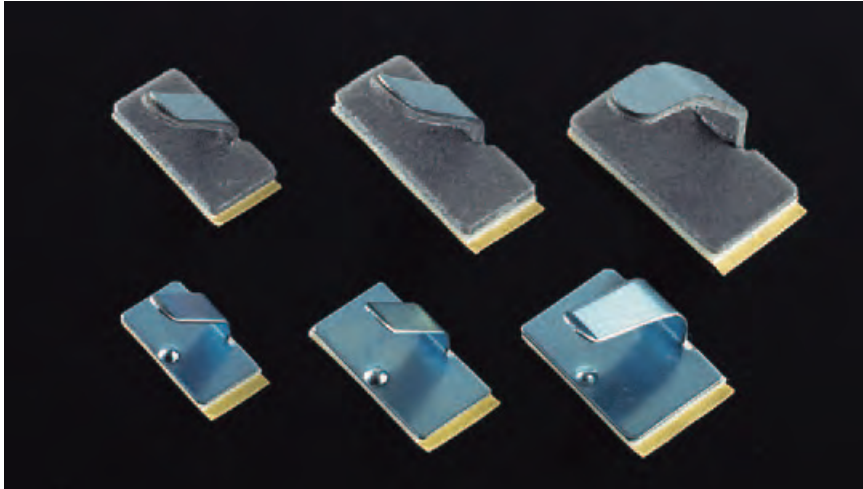
DIP-MOLDED PRODUCT

Pitak®

P series



Pull-tab type



Feature

- For holding cable and wire of electric and electronic devices.
- Double-side adhesive tape type, smooth remove backing paper with pull-tab.

Material

Unichromate-plated steel sheet (P-15 is made of aluminium.)

Insulation sponge stickers.

Material

- Color-galvanized steel sheet.
- Foam insulation material: Polyolefin foam t=1.0mm

Part No.				
P-15	P-18	P-20	P-23	P-25
Arm length: 8	13	15	20	23
t = 0.6	t = 0.4	t = 0.4	t = 0.5	t = 0.6
100×20 pags = 2,000 pcs.	50×30 pags = 1,500 pcs.	50×20 pags = 1,000 pcs.	50×14 pags = 700 pcs.	50×10 pags = 500 pcs.

Part No.				
P-28	P-30	PW-20	PK-30	PG-30
29	15 (9)	13	23	33.5
t = 0.6	t = 0.5	t = 0.5	t = 0.7	t = 0.6
50×8 pags = 400 pcs.	10×20 pags = 200 pcs.	50×14 pags = 700 pcs.	10×25 pags = 250 pcs.	10×20 pags = 200 pcs.

● Black Chrome-plated Pitak is available only with order-made. (Please contact us for production volume.)

Insulation sponge stickers

Feature

- A series of Pitak bearing insulating sponge protect the wiring coating.

Part No.				
P-102G	P-103G	P-104G	P-105G	P-106G
Arm length: 14.5	25	20	28	38
t = 0.3	t = 0.3	t = 0.45	t = 0.45	t = 0.45
250 pcs.	250 pcs.	250 pcs.	250 pcs.	250 pcs.

Not all the product are listed here. Please contact us for further information.

Reference P120 Please refer to the "Cautions concerning the use of product with the double-sided tape."

Flaclip

A series/B series/C type/D type



INSULATION SLEEVE
FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT



A series

Feature

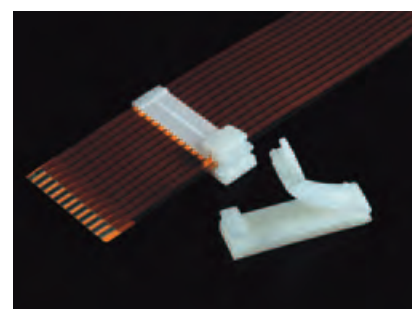
- Hold flat cable, ribbon wire etc.
- Three type of fixation method as double-sided, screw, and mounting legs for different usage. Also, the middle clip can be used for various usage.
- Can be used with multiple flat cable over to the other.



B series

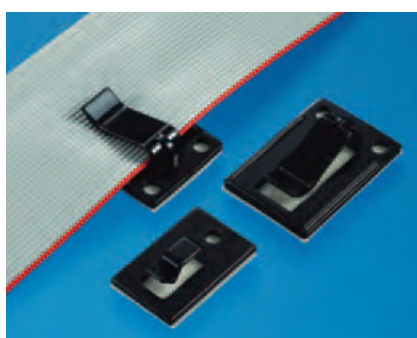


C type



D type

A series



Feature

- Hold flat cable, ribbon wire etc.
- Can be secured with either double-sided tape or screw.

Material

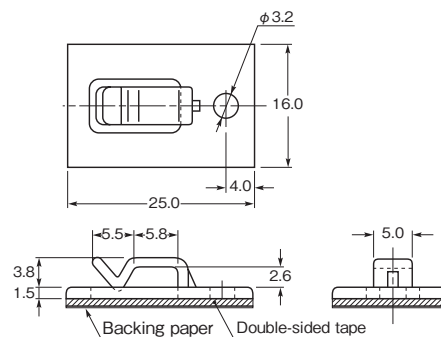
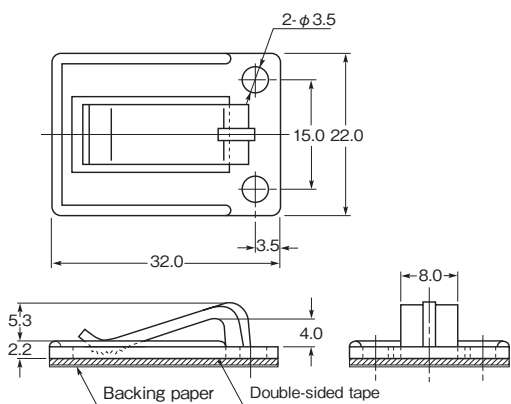
Polycarbonate UL94V-2: A-1, A-1S, A-2, A-2S
Nylon 6 UL94V-2: A-2N

Standard color

Polycarbonate Black
Nylon 6 Natural

A-1

A-2



Type	Part No.	Fixation method	Material	Flame-retardant	Standard color	Packing unit (pieces)		
A-1	A-1	Double-sided tape	Polycarbonate	UL94V-2	Black	500		
	A-1S	Screws						
A-2	A-2	Double-sided tape			Nylon 6		Natural	1,000
	A-2S	Screws						
	A-2N	Double-sided tape						

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."



B series



Feature

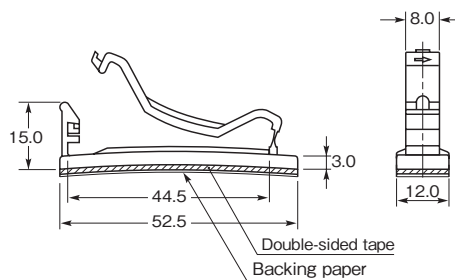
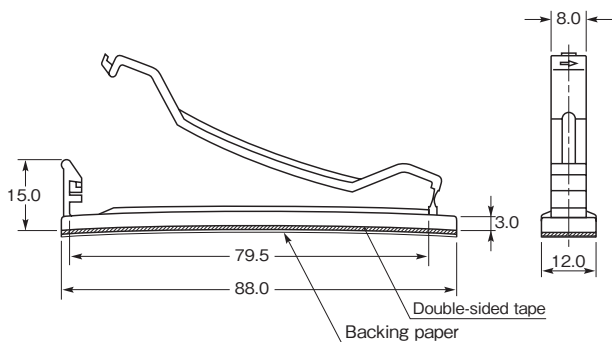
- Easy to secure flat cable owing to the arm lifting up high.
- Can be mounted upside down or in horizontal direction owing to the locking mechanism of arm.
- Easy to unlock and re-lock the arm at a time of maintenance.
- Can be mounted with 1 ~ 4 of cable over to the other.
- Part No.B-3, B-4 are for middle support clip for flat cable.

Material Standard color

Nylon 6 Black
UL94V-2

B-3T

B-4T



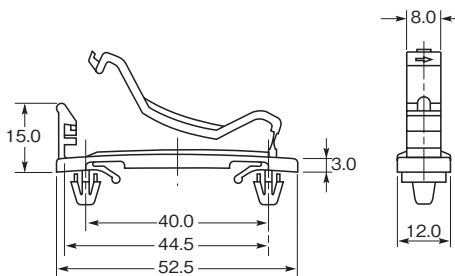
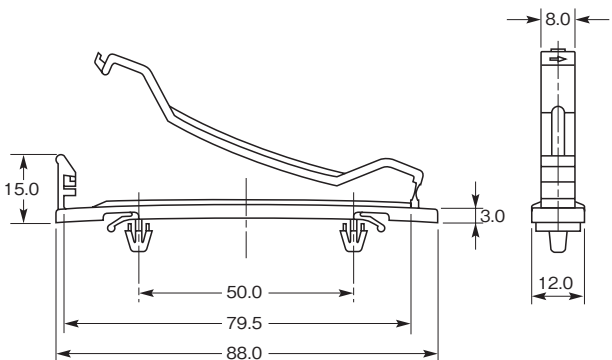
● B-3, B-4 Come without double-sided tape.

Type	Part No.	Fixation method	Max. no. of wire in flat cable	Applicable no-of flat cable	Packing unit (pieces)
B-3	B-3	(For middle support)	60 strands	1 ~ 4 cable	50
	B-3T	Double-sided tape			
	AB-3S	Mounting legs			
B-4	B-4	(For middle support)	34 strands	1 ~ 4 cable	100
	B-4T	Double-sided tape			
	AB-4S	Mounting legs			

Reference P120 Please refer to the "Cautions concerning the use of product with the double-sided tape."

B-3S

B-4S



Leg type (B-3S, B-4S)

Part No.	Dimensions (mm)		
	Mounting hole	Mounting leg pitch	Applicable board thickness
AB-3S	φ 4.8×2	50	0.8 ~ 2.0
AB-4S	φ 4.8×2	40	



E191920

Cat. No. B-S..... Rating: 80°C

is UL recognized product.

INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY
WIRING CLAMP
WIRING PROTECTOR
FASTENER
DIP-MOLDED PRODUCT



C type



Feature

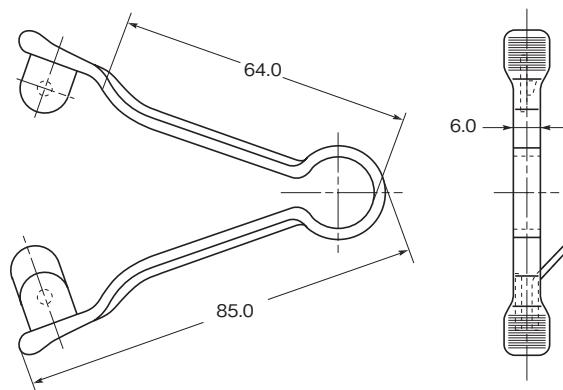
- For bundling the middle section of flat cable and ribbon wire crossover, etc.
- Easy to unlock and re-lock at a time of maintenance.
- Can hold up to 10 flat cable.

Material

Polycarbonate UL94V-2

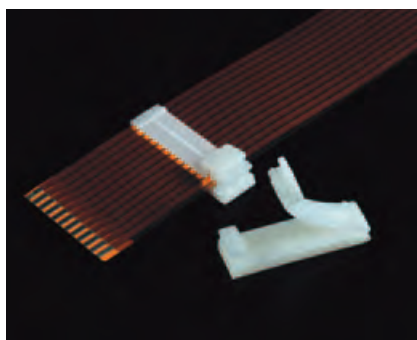
Standard color

Black



Part No.	Packing unit (pieces)
C-1	100

D type



Feature

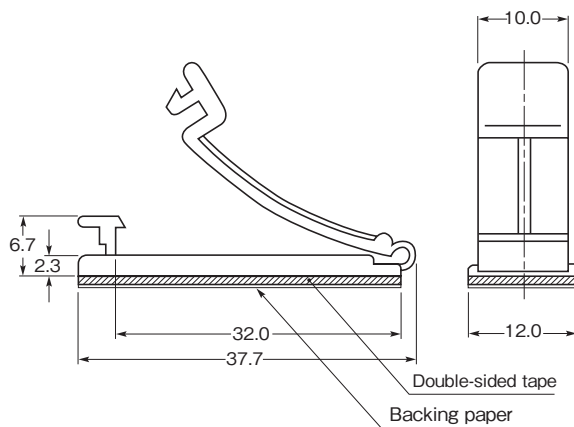
- Sister product of the Flacip series, designed for use with flexible printed circuits (FPSs)
- Easy to unlock and re-lock at a time of maintenance.
- Come with double-sided tape.

Material

Nylon 66 UL94V-2

Standard color

Natural



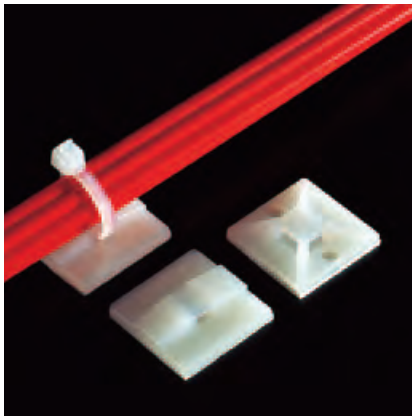
Part No.	Packing unit (pieces)
D	200

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."

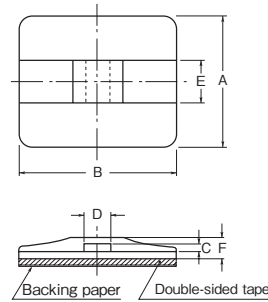
ANP base

ANP series



ANP

Fig.1



Part No.	Dimensions (mm)						Fig.	Packing unit (pieces)
	A	B	C	D	E	F		
ANP-1	20.0	20.0	1.6	3.6	7.0	3.8	1	1,000
ANP-2	25.0	30.0	1.7	5.0	8.2	4.2		500
ANP-3	30.0	40.0	2.8	8.2	12.0	6.0		200

Feature

- For combination use with cable tie.
- Come with double-sided tape.
- Applicable to any cable ties.
- ANP-○D allow the band to be inserted from all 4 directions, and can be fixed with screws.

Material

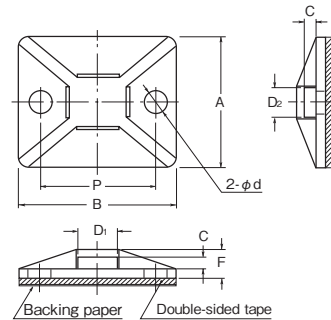
Nylon 6 UL94V-2

Standard color

Natural

ANP-D

Fig.2

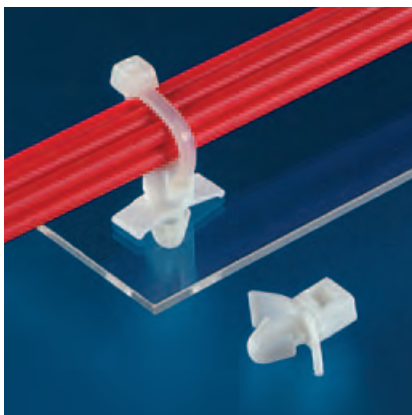


Part No.	Dimensions (mm)								Fig.	Packing unit (pieces)
	A	B	C	D ₁	D ₂	F	P	φ d		
ANP-SD	12.0	24.0	2.0	4.2	4.2	4.5	18.0	3.5	1	1,000
ANP-1D	19.2	19.2	1.6	4.4	4.4	4.0	13.6	3.2		500
ANP-2D	25.0	30.0	2.3	7.8	5.8	5.8	22.0	4.5		

Reference P120 Please refer to the "Cautions concerning the use of product with the double-sided tape."

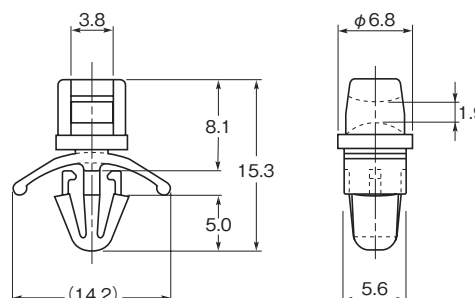
Cable tie holder

SFT series



Feature

- Shall be mounted in mounting hole.
- Applicable to the ties with 3.8mm width and less than 1.5mm thickness.



Material Nylon 66
Standard color UL94V-2: Natural
 UL94V-0: White

Part No.		Dimensions (mm)		Packing unit (pieces)
UL94V-2	UL94V-0	Mounting hole	Applicable board thickness	
SFT-3	SFT-3U	φ 4.8	0.5 ~ 2.0	500

A band

A series



Feature

- Made of soft PVC.
- Can be cut in the length of requirement.
- In case of securing band, exclusive button shall be used and can be removed.

A band

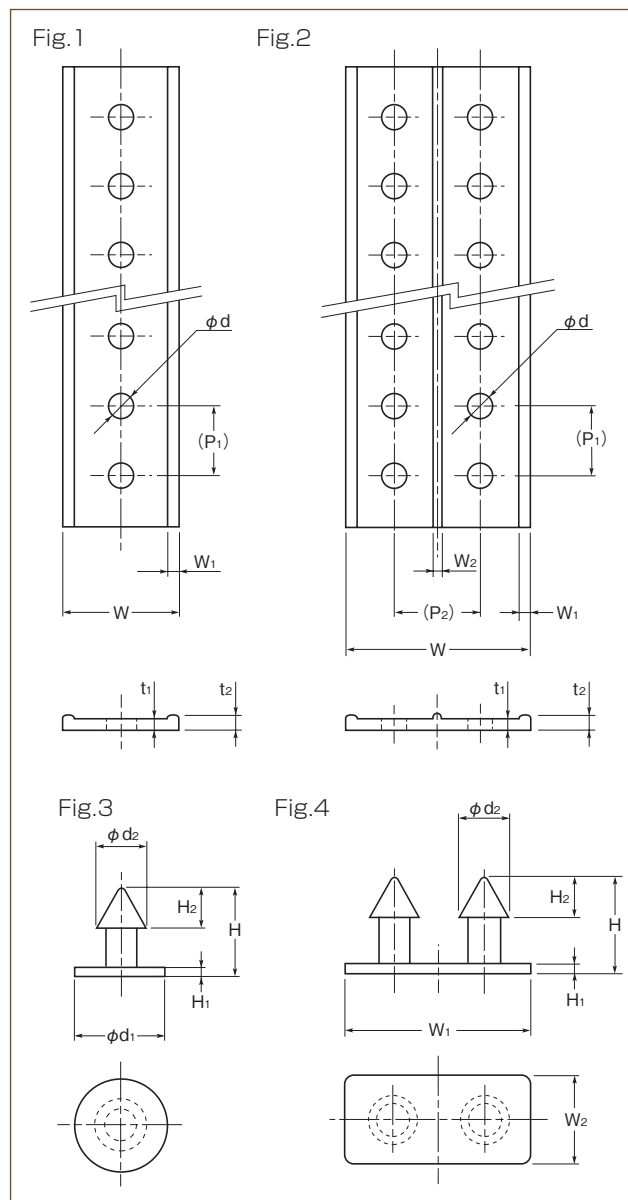
Material Standard color
Soft PVC Black, transparent (A-6, A-10);
Black (A-16, A-30)

Part No.	Dimensions (mm)						Button type	Fig.	Packing unit (m)	
	W	W ₁	W ₂	t ₁	t ₂	φ d (P ₁) (P ₂)				
A- 6	6	0.8	—	0.6	0.8	2.2	—	No.1	1	5×20 rolls
A-10	10	1.0	—	0.8	1.2		6	—		No.2
A-16	16	1.0	1.0	1.0	1.4	9	8	No.3	2	10× 1 rolls
A-30	30	1.5	1.5	1.5	2.0		15	No.4		10× 1 rolls

A band button

Material Standard color
Polyethylene Black, natural (No. 1, No. 2); Black (No. 3, No. 4)

Part No.	Dimensions (mm)							Fig.	Packing unit (pieces)
	H	H ₁	H ₂	W ₁	W ₂	φ d ₁	φ d ₂		
Button No.1	6.3	0.8	2.5	—	—	5.0	3.6	3	1,000
Button No.2	7.8	0.8	3.6	—	—	7.8	4.4		500
Button No.3	8.4	0.8	3.6	15.8	7.6	—	4.4	4	100
Button No.4	9.5	1.8	3.0	28.4	7.6	—	4.2		



Mini belt

B/C

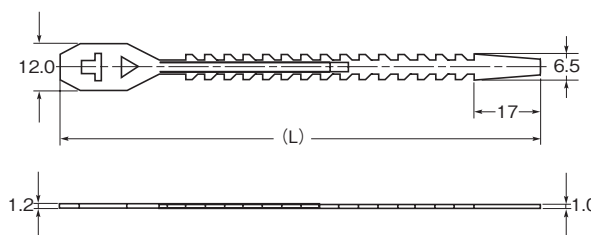


Feature

- For bundling power cord etc of various electric and electronic devices.

Material
Polyethylene

Standard color
Natural



Part No.	Dimensions (mm)		Packing unit (pieces)
	(L)	Maximum inside dia	
Mini belt B	125	φ 30	1,000
Mini belt C	150	φ 38	

Free band & buckle

FB-11/BC-11



Feature

- Best suited for bundling thick wire, pipe etc. owing to free size.
- Can be cut in the length of requirement.
- Can be fixed firmly with high tensile strength.
- Can be removed
- Excellent in heat/water-resistant.

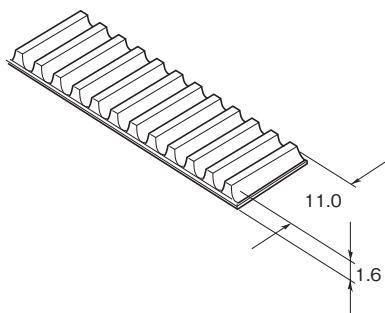
Material

PBT UL94V-2

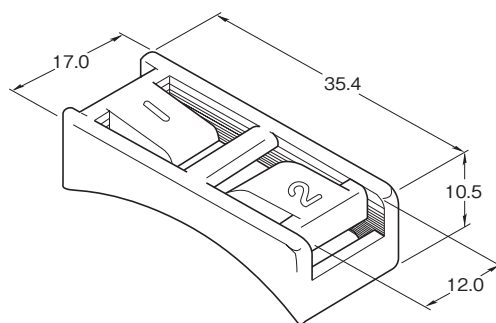
Standard color

Black

Free band



Buckle

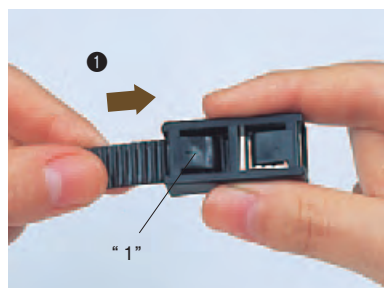


Model	Part No.	Packing unit (pieces)
Free band	FB-11	100m
Buckle	BC-11	200 pieces

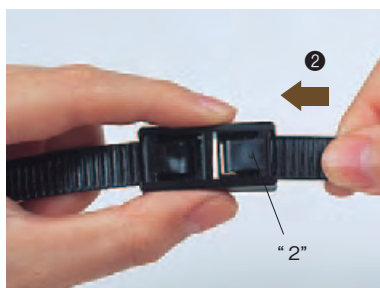
● Tensile strength 637 N (65 kgf)

(This data is only for the reference, but not for any warranty of the product.)

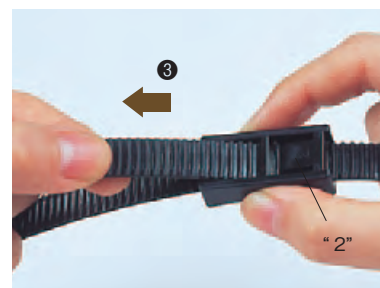
Installation manual



- ① Cut the band in length of requirement and insert in "1".



- ② Wrap the band around the object and insert it in "2".



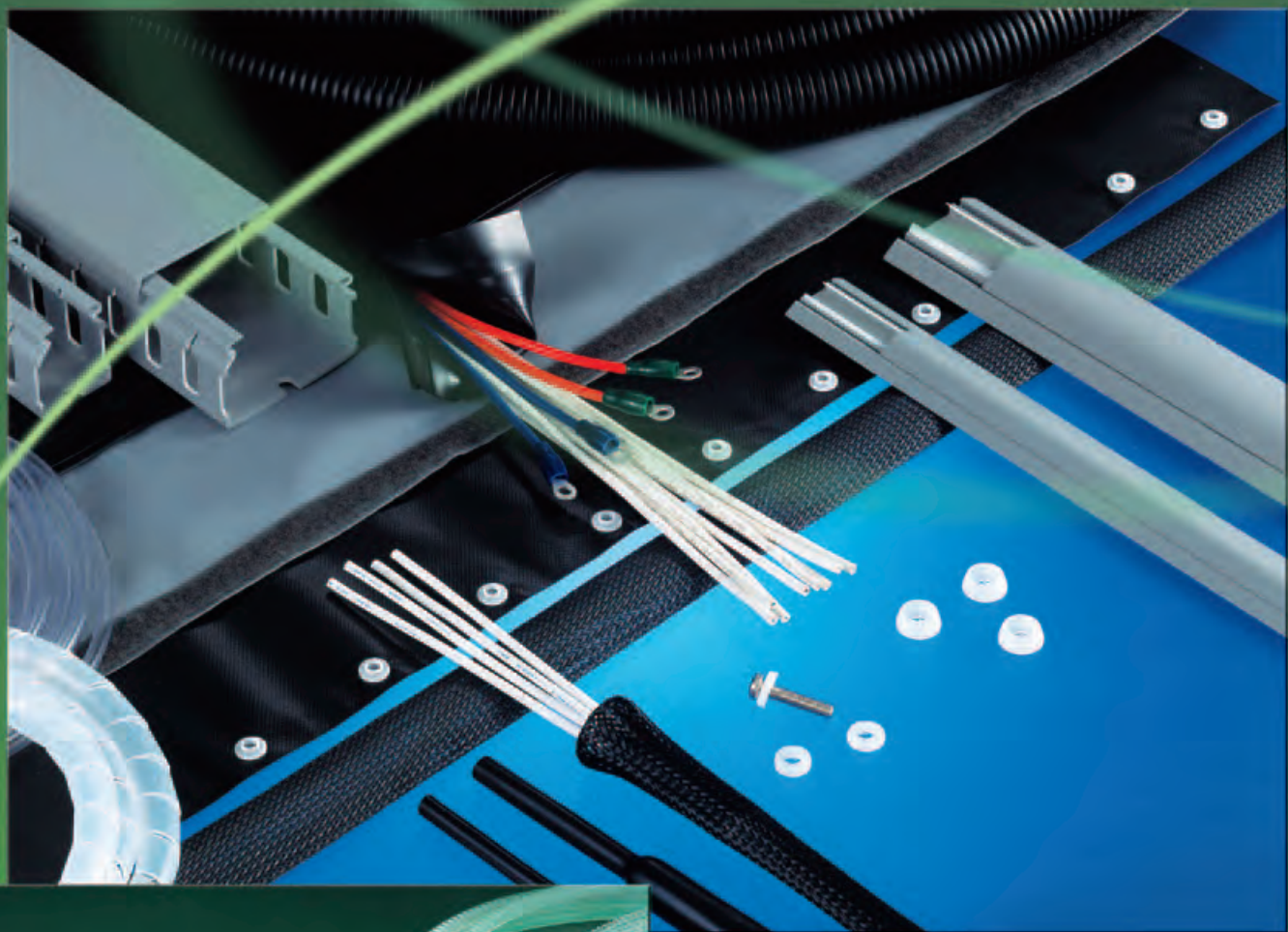
- ③ Hold the buckle firmly and pull the band tightly.
- ④ At a time of un-installation, lift up "2" with drivers or such and un-lock/release.

Memo



A series of horizontal lines for writing.

WIRING ACCESSORY



SHINAGAWA SHOKO

WIRING PROTECTOR

● Edge holder	EH-1 series	72
	EHS/EHP series	73
	LT series	74
● Free bush	SG series	75
● EL free bush	EL series	75
● Grommet	ESG series	76
● Edging	EE/EO series	76
● Spiral tubing	SS series	77
● Corrugated tubing	CDP-B series	78 · 79
	CDP-K series	78 · 79
● SF tubing®	SF series	80
	SF-A series	81
● Net Protector SS®	NPSS series	81
● EXLON UL tubing		82
● EXLON Flow-ling tubing		83

Edge holder

EH-1 series



Recyclable Model



Feature

- Holders that reliably protect and insulate electrical wiring from the edges of chassis, frames, etc.
- Attach with a single touch.
- Recyclable model that is easy to remove from chassis.

Material

Nylon 66

Standard color

UL94V-2: Black

UL94V-0: Black



UL recognized product E191920

Cat. No. EH-1 Rating: 85°C

Cat. No. EH-1107U, -1409U ... Rating: 85°C

Cat. No. EH-1411U, -1814U ... Rating: 85°C

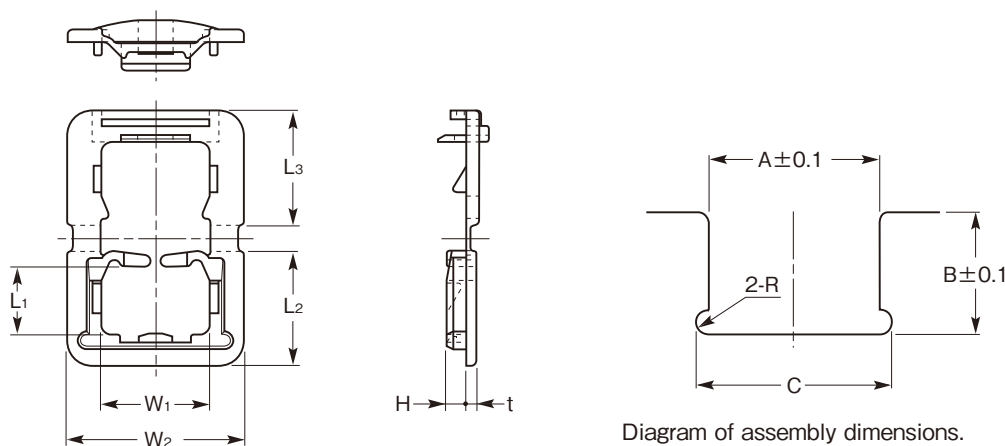


Diagram of assembly dimensions.

Part No.		Dimensions (mm)							Packing unit (pieces)	
UL94V-2	UL94V-0	W ₁	W ₂	L ₁	L ₂	L ₃	H	t	Applicable board thickness	500
EH-1107	EH-107U	11.0	18.0	(7)	11.7	11.7	2.0	1.0		
EH-1409	EH-1409U	14.0	22.0	(9)	14.3	14.3	2.0	1.3		
EH-1411	EH-1411U	14.0	22.0	(10.7)	16.0	16.0	2.0	1.3		
EH-1814	EH-1814U	18.0	26.0	(13.8)	19.0	19.0	2.0	1.3		

Mounting dimensions

Part No.		Dimensions (mm)			
		A	B	C	R
EH-1107	EH-1107U	14.0	10.0	16.0	1.0
EH-1409	EH-1409U	17.0	12.5	19.2	1.1
EH-1411	EH-1411U	17.0	14.5	19.2	1.1
EH-1814	EH-1814U	21.0	17.5	23.4	1.2

Edge holder

EHS series



Feature

- Holders that reliably protect and insulate electrical wiring from the edges of chassis, frames, etc.
- Attach with a single touch.

Material

Nylon 66

Standard color

UL94V-2: Black

UL94V-0: Black

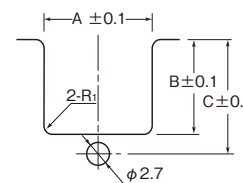
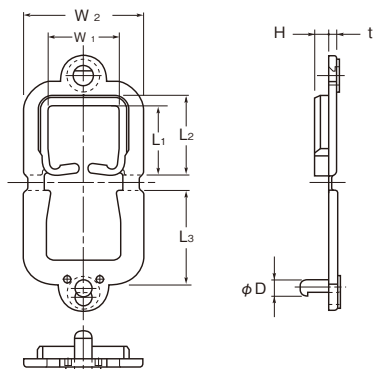


UL recognized product E191920

Cat. No. EHS..... Rating: 85°C

Cat. No. EHS-11U..... Rating: 65°C

Cat. No. EHS-18U..... Rating: 85°C



Mounting dimensions

Part No.		Dimensions (mm)									Packing unit (pieces)
UL94V-2	UL94V-0	W1	W2	L1	L2	L3	H	φD	t	Applicable board thickness 0.8 ~ 2.0	500
EHS-11	EHS-11U	11.0	18.4	10.8	12.3	14.5	2.0	2.5	1.3		
EHS-18	EHS-18U	18.0	25.4	19.5	21.0	23.4	2.0	2.5	1.3		

Mounting dimensions

Part No.		Dimensions (mm)			
		A	B	C	R1
EHS-11	EHS-11U	14.0	12.3	15.0	1.0
EHS-18	EHS-18U	21.0	21.0	23.4	1.5

Edge holder

EHP series

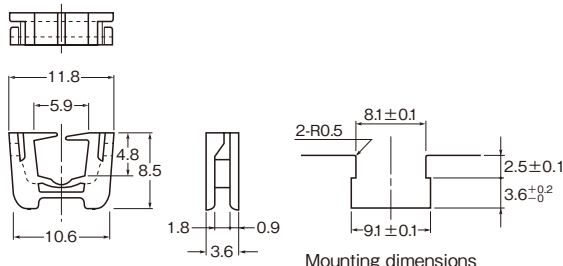


Feature

- Protect and insulate wire and cable from the edge of chassis and frame, etc.
- Can be mounted with single-push.
- Best suited for small wiring.



UL recognized product E191920 Cat. No. EHP-U..... Rating: 85°C



Mounting dimensions

Material

Nylon 66

Standard color

UL94V-2: Natural

UL94V-0: White

Part No.		Dimensions (mm)		Packing unit (pieces)
UL94V-2	UL94V-0	Applicable board thickness		500
EHP-6	EHP-6U	0.8 ~ 1.6		

is UL recognized product.



Edge holder

LT series

Feature

- Protect and insulate wire and cable from the edge of chassis and frame, etc.
- The wire guide locking mechanism enables these edge holder to be mounted sideways or upside down.
- Can be mounted on either side or upper edge of chassis.
- Utilize the wiring spaces effectively.

Material

Nylon 66

Standard color

UL94V-2: Black

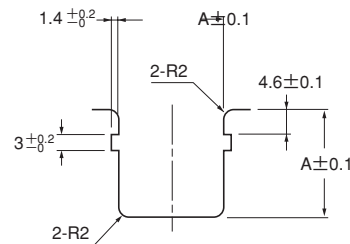
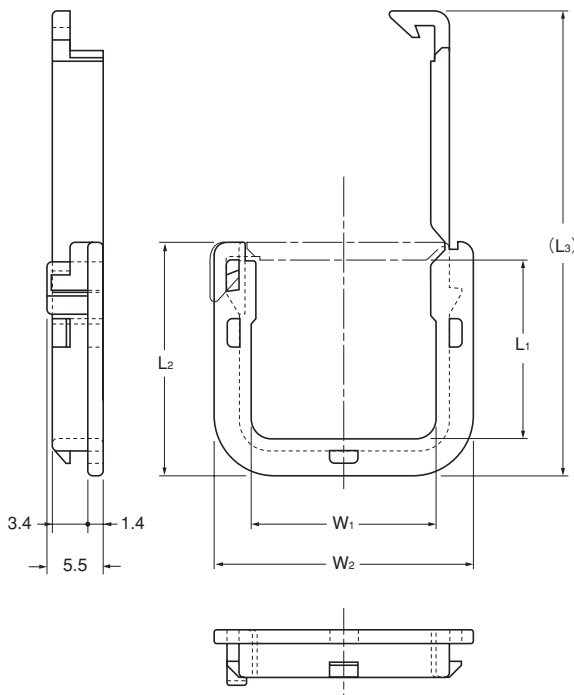
UL94V-0: Black



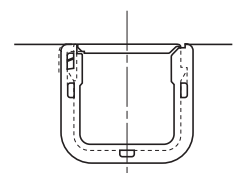
UL recognized product

E191920

Cat. No. LT Rating: 85°C



Mounting hole dimensions



Mounted

Part No.		Dimensions (mm)						Applicable board thickness	Packing unit (pieces)
UL94V-2	UL94V-0	W ₁	W ₂	L ₁	L ₂	(L ₃)	A		
LT-11	LT-11U	11.6	18.0	11.1	15.8	31.4	14.0	0.5 ~ 1.6	500
LT-18	LT-18U	18.4	25.8	17.7	23.2	46.1	21.0		

INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

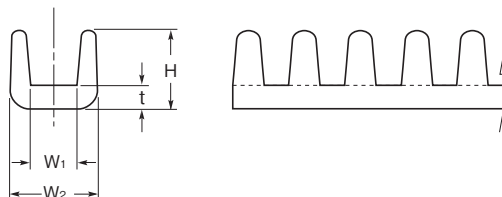
WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT

Free bush SG series



Feature

- Protect the wiring passing through the chassis and frame etc.
- Protect the wire from edge.
- Fit various shape of hole.

Material

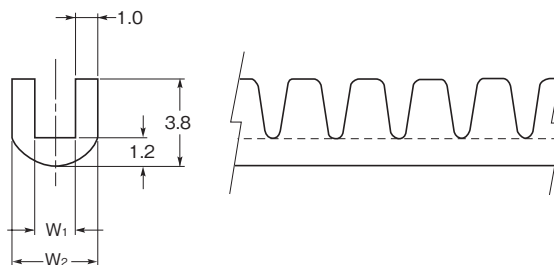
Nylon 6 UL94V-2

Standard color

Natural

Part No.	Dimensions (mm)					Packing unit (pieces)
	W ₁	W ₂	t	H	Applicable board thickness	
SG-12	1.2	4.0	1.2	4.1	1.2	250mm×100
SG-16	1.6	4.1		4.1	1.6	
SG-24	2.4	4.5		4.0	2.3	
SG-32	3.2	5.5	2.0	4.1	3.2	320mm×100
SG-45	5.1	8.3		6.1	4.5	
SG-62	6.6	9.8	2.1	6.1	6.2	500mm×50
SG-16L	1.6	4.1	1.2	4.1	1.6	
SG-24L	2.4	4.5		4.0	2.3	
SG-32L	3.2	5.5		4.1	3.2	

EL free bush EL series



Feature

- Protect the wiring passing through the chassis and frame etc.
- Protect the wire from edge.
- 100 metres per roll. Can be cut in the length of requirement.

Material

Nylon 6 UL94V-2

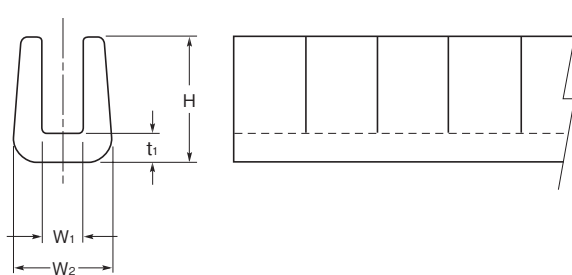
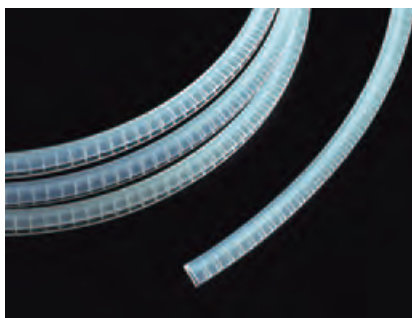
Standard color

Natural

Part No.	Dimensions (mm)			Packing unit (m)
	W ₁	W ₂	Applicable board thickness	
EL-10	1.2	3.2	1.0	100
EL-12	1.4	3.4	1.2	
EL-16	1.8	3.8	1.6	
EL-24	2.6	4.6	2.3	
EL-32	3.4	5.4	3.2	

Grommet

ESG series



Feature

- Serrated, slit-type bush.
- 100 metres per roll. Can be cut in the length of requirement.

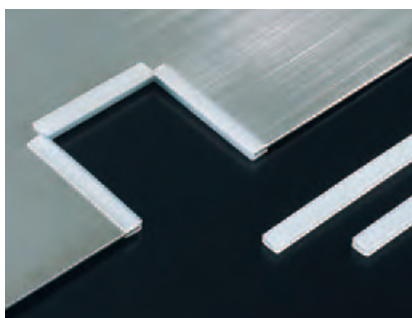
Material Standard color

Nylon 6 Natural
UL94V-2

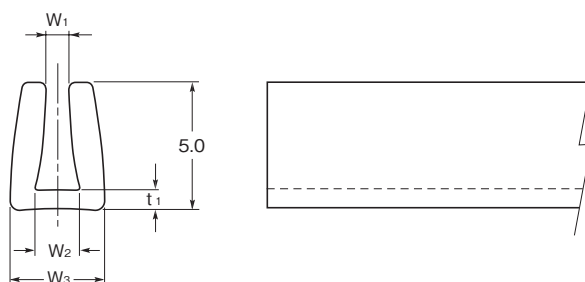
Part No.	Dimensions (mm)					Packing unit (m)
	W ₁	W ₂	t ₁	H	Applicable board thickness	
ESG-10	1.1	3.1	1.0	5.0	1.0	100
ESG-12	1.3	3.3			1.2	
ESG-16	1.7	3.7	1.6			
ESG-24	2.4	4.4	2.3			
ESG-32	3.2	5.3	3.2			

Edging

EE/EO series



EE series



EE series

Feature

- Protect wire from edge.

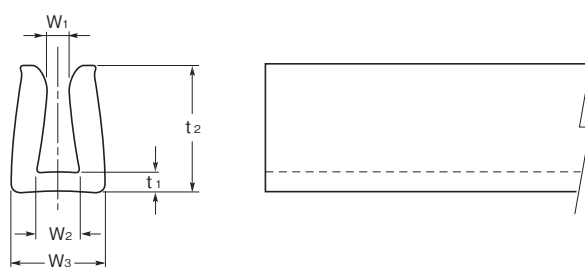
Material

Nylon 6 UL94V-2

Standard color

Natural

EO series



EO series

Feature

- Easy to fit on edge, but hard to come off.

Material

Nylon 6 UL94V-2

Standard color

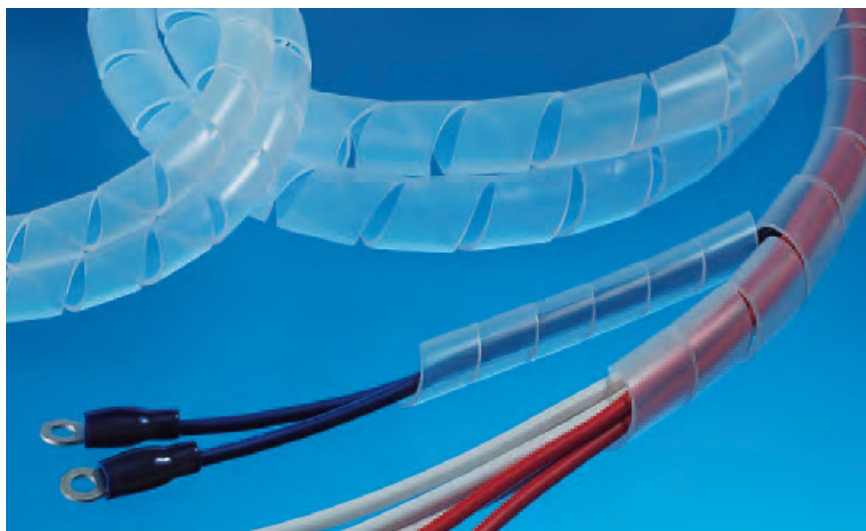
Natural

Part No.	Dimensions (mm)					Packing unit (pieces)
	W ₁	W ₂	W ₃	t ₁	Applicable board thickness	
EE-12	0.6	1.3	3.3	0.7	1.0 ~ 1.2	1m x 100
EE-16	0.9	1.7	3.7		1.2 ~ 1.6	
EE-24	1.2	2.4	4.4	0.8	1.6 ~ 2.3	
EE-32	1.9	3.3	5.3		2.3 ~ 3.2	

Part No.	Dimensions (mm)						Packing unit (pieces)
	W ₁	W ₂	W ₃	t ₁	t ₂	Applicable board thickness	
EO- 8N	0.3	1.0	3.0	0.7	5.0	0.5 ~ 0.8	1m x 100
EO-10N	0.5	1.1	3.1	0.7	5.0	0.8 ~ 1.0	
EO-12N	0.6	1.3	3.3	0.7	5.0	1.0 ~ 1.2	
EO-16N	0.9	1.7	3.7	0.7	5.0	1.2 ~ 1.6	
EO-24N	1.2	2.4	4.4	0.8	5.0	1.6 ~ 2.3	
EO-32N	1.9	3.3	5.0	0.8	5.5	2.3 ~ 3.2	

Spiral tubing

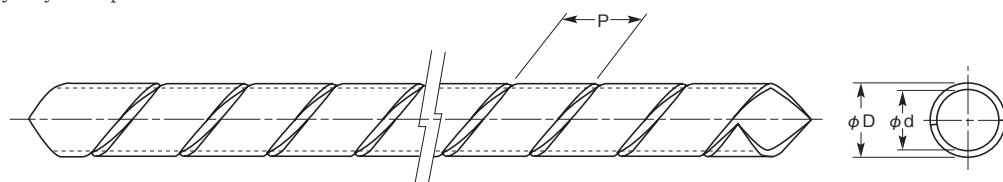
SS series



Feature

- For protecting and bundling of wire.
- Effective for the protection of bundled wire having branches, flexibility etc.

● IMAGE : Polyethylene spiral



Polyethylene spiral

Material

Low-density polyethylene

Standard color

Natural

Black

(Black color is to have the suffix of "B".)

Part No.	Dimensions (mm)				Packing unit (m)
	ϕD	ϕd	P (pitch)	Bundle diameter range	
SS- 2.6	4.0	2.6	5.2 ± 1.5	2.6 ~ 7	100
SS- 4	5.4	4.0	7.7 ± 1.5	4 ~ 12	
SS- 6	7.9	6.0	8.7 ± 1.5	6 ~ 18	
SS- 8	9.9	8.0	11.0 ± 1.5	8 ~ 25	
SS-10	11.9	10.0	11.0 ± 1.5	10 ~ 30	50
SS-12	14.5	12.0	14.0 ± 1.5	12 ~ 35	
SS-15	17.2	15.0	19.0 ± 2.0	15 ~ 45	25
SS-20	22.8	20.0	19.0 ± 2.0	20 ~ 60	
SS-25	27.8	25.0	27.0 ± 3.0	25 ~ 75	

Nylon spiral

Material

Nylon 6 UL94V-2

Standard color

Natural

Part No.	Dimensions (mm)				Packing unit (m)
	ϕD	ϕd	P (pitch)	Bundle diameter range	
SS- 2.6N	3.4	2.6	4.1 ± 1.5	2.6 ~ 7	100
SS- 4N	4.9	4.0	7.0 ± 1.5	4 ~ 12	
SS- 6N	7.2	6.0	7.5 ± 1.5	6 ~ 18	
SS- 9N	10.4	9.0	10.0 ± 1.5	9 ~ 25	
SS-12N	13.4	12.0	14.0 ± 1.5	12 ~ 35	50
SS-15N	16.6	15.0	16.1 ± 2.0	15 ~ 45	
SS-20N	21.8	20.0	16.5 ± 2.0	20 ~ 60	25
SS-25N	27.0	25.0	24.8 ± 2.0	25 ~ 75	

Flame retardant nylon spiral

Material

Nylon 6 UL94V-0

Standard color

White

Part No.	Dimensions (mm)				Packing unit (m)
	ϕD	ϕd	P (pitch)	Bundle diameter range	
SS- 2.6U	3.4	2.6	4.1 ± 1.5	2.6 ~ 7	100
SS- 4U	4.9	4.0	7.0 ± 1.5	4 ~ 12	
SS- 6U	7.2	6.0	7.5 ± 1.5	6 ~ 18	
SS- 9U	10.4	9.0	10.0 ± 1.5	9 ~ 25	
SS-15U	16.6	15.0	16.1 ± 2.0	15 ~ 45	50
SS-20U	21.8	20.0	16.5 ± 2.0	20 ~ 60	
SS-25U	27.0	25.0	24.8 ± 2.0	25 ~ 75	25

Dimensions of outer dia./inner dia. and length in all materials are the ones prior to the process.

Corrugated tubing

CDP series



Feature

- For protecting and bundling of wire and cable.
- Very light and flexible.
- Robust structure, hard to get squashed.
- Available for two type having slit or none.
- Excellent cold-resistance and for applications in cold location.
- Easy to store with the boxed packaging that protects from scratches and dusts.

Material

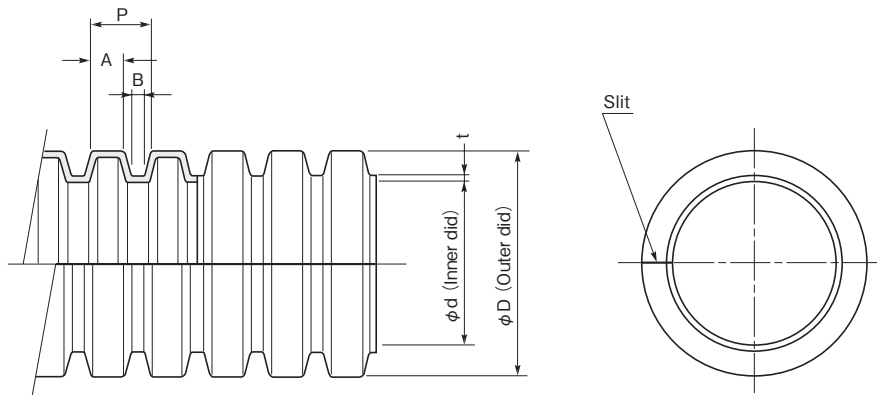
Flame-retardant PR

Standard color

Flame-retardant: Black

Rodent-resistant: Light Gray

- Red · White · Blue · Yellow · Grey
- Orange is order-made.
- Available with only flame retardant type. (Contact us for size and production volume.)



Part No.		Slit	Dimensions (mm)						Packing unit (m)	
Flame-retardant	Rodent-resistant (Flame-retardant)		φ d	φ D	(P)	(A)	(B)	t ^{±0.1}	Small box	Large box
CDP-B903-1	CDP-K903-1	W	3.2 ^{±0.3}	5.2 ^{±0.3}	2.2	1.3	0.5	0.20	1,000	-
CDP-B903-0	CDP-K903-0	W/O								
CDP-B905-1	CDP-K905-1	W	5.3 ^{±0.3}	7.5 ^{±0.3}	2.3	1.3	0.5	0.20	500	1,500
CDP-B905-0	CDP-K905-0	W/O								
CDP-B907-1	CDP-K907-1	W	7.4 ^{±0.3}	10.2 ^{±0.4}	2.7	1.5	0.6	0.25	250	1,000
CDP-B907-0	CDP-K907-0	W/O								
CDP-B910-1	CDP-K910-1	W	10.7 ^{±0.3}	14.1 ^{±0.4}	2.7	1.5	0.6	0.25	150	500
CDP-B910-0	CDP-K910-0	W/O								
CDP-B913-1	CDP-K913-1	W	13.2 ^{±0.4}	17.5 ^{±0.4}	3.5	2.2	0.7	0.25	100	350
CDP-B913-0	CDP-K913-0	W/O								
CDP-B915-1	CDP-K915-1	W	15.3 ^{±0.4}	19.5 ^{±0.4}	3.6	2.0	0.8	0.25	80	300
CDP-B915-0	CDP-K915-0	W/O								
CDP-B919-1	CDP-K919-1	W	19.5 ^{±0.4}	23.7 ^{±0.4}	3.6	2.0	0.8	0.25	60	200
CDP-B919-0	CDP-K919-0	W/O								
CDP-B922-1	CDP-K922-1	W	22.3 ^{±0.4}	27.1 ^{±0.4}	4.3	2.4	0.8	0.30	50	140
CDP-B922-0	CDP-K922-0	W/O								
CDP-B925-1	CDP-K925-1	W	25.2 ^{±0.4}	30.0 ^{±0.5}	4.3	2.4	1.0	0.35	40	120
CDP-B925-0	CDP-K925-0	W/O								
CDP-B928-1	CDP-K928-1	W	28.4 ^{±0.5}	33.8 ^{±0.5}	4.4	2.4	0.7	0.35	30	100
CDP-B928-0	CDP-K928-0	W/O								
CDP-B932-1	CDP-K932-1	W	32.7 ^{±0.5}	38.0 ^{±0.6}	4.4	2.4	0.7	0.35	-	50
CDP-B932-0	CDP-K932-0	W/O								

※ Rodent-resistant tube is order-made. (Contact us for production volume.)

● Rodent-resistant tube is available only with large box. (Except CDP-K903-1, -0)

● In case of ordering flame-retardant tube with small box, attach the suffix of "B" as below.

i.e.: CDP-B905B-1, CDP-B905B-0

Feature of Anti-rodent corrugated tubing

Feature

1. Tubing contains rodent repellent

When rodents gnaw on the tubing, they taste a sharp, fiery flavor (agent found in chili peppers) that discourages further chewing. This feature results in a far lower incidence of rodent damage (gnawing) than observed in conventional wiring and protective tubing.

2. Easy to shape and install

Tubing can be easily bent by hand, and installed in any location. Easily cut by knife; light and easy to carry. Simply slides over cable without splitting or cracking. Excellent fitting ability under cold conditions.

3. Safe (flame extinguishing properties, voltage withstanding properties, non-conducting)

Heat durable, and has fire extinguishing properties. Can withstand a voltage of 200V for 15 minutes, and has an insulating resistance of at least 100MΩ. Will not crack under strong impacts or pressures, and exhibits a very high rate of shape recovery. Use with confidence.

4. Maintains rodent-repellent effect for a long period

The rodent repelling agent is resistant to heat, water and UV radiation, and maintains its effectiveness for a long time.

※. Change in the concentration of the effective ingredient of the rodent repellent (outdoor durability test)

Conditions		Initial value	3 month	6 month	1 year	2 year	3 year
Exposure to sunlight Rain	Concentration of effective ingredient	0.413%	0.373%	0.343%	0.300%	0.242%	0.207%
	Residual percentage	100%	90%	83%	73%	59%	50%
No sunlight No rain	Concentration of effective ingredient	0.413%	0.391%	0.378%	0.363%	0.337%	0.316%
	Residual percentage	100%	95%	92%	88%	82%	77%
Kept indoors	Concentration of effective ingredient	0.413%	—	—	0.409%	0.401%	0.375%
	Residual percentage	100%	—	—	99%	97%	91%

Applications



■ Sewer cable



■ OA equipment



■ Factory machinery



■ Agricultural machinery



■ Automatic vending machines



■ Poultry farms

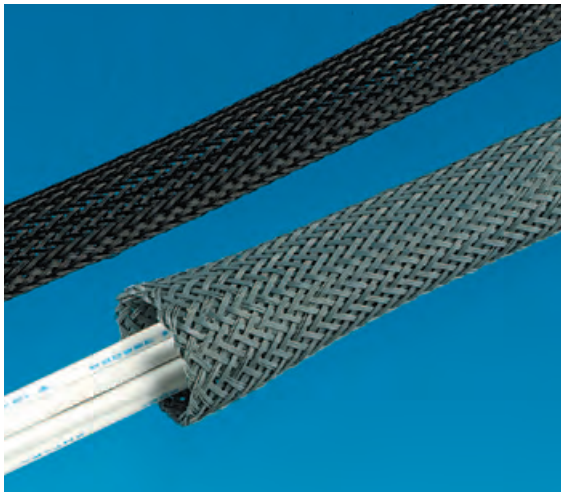
■ Also available for use for kitchen equipment, indoor and warehouse circuitry.

Use cautions

- The repellent ingredient used in this product will irritate the human skin, nose and eyes. Please observe the following points when using this product.
 1. Wear gloves when processing or fitting this product.
 2. Make sure that the outer surfaces of the gloves do not touch the skin, mucous membranes (particularly the eyes and nose) or clothing.
 3. If the skin, mucous membranes, clothes, etc., come in direct contact with this product and a burning sensation is experienced, wash the affected parts immediately.
 4. Covering the surface of the product with tape, etc., reduces the rodent repelling effect. If taping is necessary, use rodent repelling tape.
 5. Store indoors, out of the reach of children.
- The tiny specks visible on the surface of the anti-rodent corrugated tubing are particles of the repellent.

SF tubing®

SF series



Feature

- Wiring protection tube braided with polyester fiber.
- Excellent in elasticity and flexibility by woven construction, and it will expand 1.5 ~ 4 times by pressing from side to side.
- Can be used with a wide applicable range of bundled wire. Economical.
- Effective for protection of electric and electronic wiring.
- Recognized for "Flame-retardant" at the Anti-flammable test of Railway-Car-Material.

Material

Polyester (monofilament)

Standard color

Standard color: Black

Flame-retardant (Halogen-Free): Gray

How to use

- ① Open the end of the tubing, then fold several centimeters of the tubing back inside the tubing, as shown in the photographs.
 - ② Insert the wire bundle into the mouth of the SF tubing. (Insertion will be easier if you first cover the end of the wire bundle with a cap, etc. For example, you may use one of our VCP cap.)
- SF tubing is best cut with a heated knife. Be sure to leave no frayed ends on the cut end when cutting SF tubing.



UL recognized product

E108566 VW-1
Cat. No. SF



CSA recognized product

LR85455 VW-1/FT-1
Cat. No. SF..... Rating: 125°C

Part No.		Dimensions (mm)			Packing unit (m)
Standard	Flame-retardant	Min. Diameter	Max. expanded diameter	Flattened Width	
SF- 3	SF- 3U	3	12	approx 6	100
SF- 6	SF- 6U	6	24	approx 15	
SF-10	SF-10U	10	28	approx 19	
SF-12	SF-12U	12	33	approx 22	
SF-19	SF-19U	19	45	approx 30	
SF-30	SF-30U	30	55	approx 35	

is UL recognized product.

SF-A Series : Fray-resistance series are also available

Preparing the tube end for wire insertion



① Hold both ends and compress.



② Fold an end back into the tubing.



③ Insertion has been made.

Heated knife



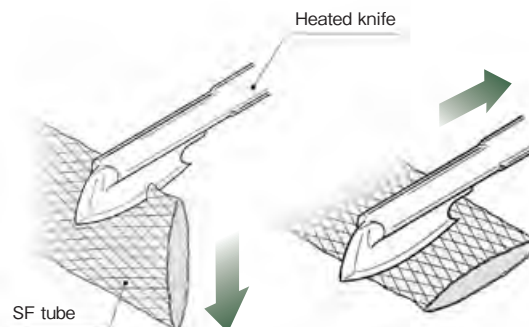
Part No.

Heated knife

Rating : AC100V 71W

Note : During use, the metal part of the heated knife becomes very hot. Avoid direct contact.

How to use a heated knife



- Once the cutting edge of the knife is sufficiently hot, press it down on the SF tubing to cut as shown in the diagram.

SF tubing® SF-A series



The cut surfaces of SF Tubes do not fray.

Feature

- We used a new production technique to make it more difficult for cut surfaces to fray.
- Contributes to more efficient cutting.
- It is extremely easy to insert electrical wiring because the tube holds its shape well.
- Braided material is extremely bendable, flexible and stretchable.
- We offer standard and flame-resistant (UL- and CSA-approved products) models.

Material

Polyester (monofilament)

Standard color

Standard Product: Black

Flame-Resistant (Halogen-Free) Product: Gray



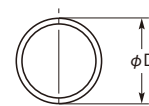
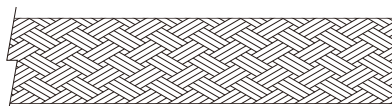
UL recognized product

E108566 VW-1
Cat. No. SF



CSA recognized product

LR85455 VW-1/FT-1
Cat. No. SF-A Rating: 125°C



Part No.		Dimensions (mm)		Packing unit (m)
Standard	Flame-retardant	Bound Wire Diameter	φD	
SF-A02	SF-A02U	2~ 3	(3)	(300)
SF-A05	SF-A05U	5~13	(6)	
SF-A08	SF-A08U	8~21	(9)	
SF-A11	SF-A11U	11~29	(12)	

is UL recognized product.

Net Protector SS® NPSS series



Feature

- Highly wear-resistant, protects against wear from the friction of hoses against pipes, etc.
- Braided material is extremely bendable and stretchable, fits many different types of pipes and hoses and creates a smart, neat look.
- Netted pattern resists heat and humidity and is lighter than other protective covers.
- Expandable diameter means one size fits many applications and saves money.
- The Secret of the Net Protector SS

The innovative, fanned ends of the Net Protector SS are what give it an edge over existing products¹. The ends are fanned out wide through a distinct manufacturing process and prevent fraying, slip on quickly, largely improve operational efficiency and contribute to cost-cutting. ¹Shinagawa Shoko has applied for intellectual property rights in major countries.

Part No.	Recommended Diameter Range (mm)
NPSS-05	φ5~φ10
NPSS-09	φ9~φ14
NPSS-12	φ12~φ22
NPSS-17	φ17~φ30

Material

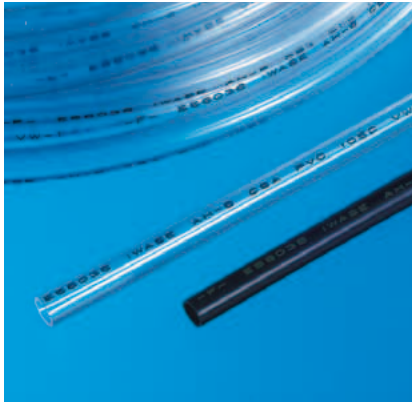
Nylon 66 + PET plastic

Standard color

Black

- We will cut the Net Protector SS to the length you specify before delivery.
When you order, specify the finished length in terms of natural length by adding "L" and a three-digit length to the end of the Product Number (Ex: NPSS-12-L150 for an NPSS-12 with natural length of 150 mm)

EXLON UL tubing



Feature

- Electrically insulating vinyl tube with a performance based on UL and CSA standards.
- Excellent heat- and incombustible properties.
- Has passed the Japan Electrical Appliance and Material Control Law's incombustibility tests and bears the "F" mark.

Material

Soft PVC
Registered under the Japan Electrical Appliance and Material Control Law
AHT-50-1 011CA0295
AHC-60-1 011CA0294

Standard color

Transparent, Black

Tube surface printing

For 300 V applications:
-F- AH-3 VW-1 IWASE CSA PVC
105°C OFT

For 600 V applications:
-F- AH-6 VW-1 IWASE CSA PVC
105°C OFT

EXLON - Flow-link tubing

NHX series



Feature

- Halogen-free product not containing either halogen compound or environmentally hazardous substances which will cause the contamination and dioxin pollution.
- Excellent in heat-resistance due to high flame retardation.(VW-1 recognized)
 - NHX-105:105°C
 - NHX-125:125°C
- Excellent in flexibility and re-usable.

Material Standard color

Elastomer Black

	UL224	CSA C22.2	PSE	
			Clear	Except Clear
File No.	E56036	LR33763	Max. temp. use registration	
Rated temperature			011CA0295	011CA0294
Rated voltage	105°C		105°C (Max.)	110°C (Max.)
Rating	300V (AH-3) · 600V (AH-6)		-	-
Flame-retardant	VW-1		- F -	

Size	Internal diameter (mm)	Internal diameter tolerance (mm)	Cat.No. AH-6	Cat.No. AH-3	Packed length (m) (1per roll)
			UL, CSA600V	UL, CSA300V	
			Min. thickness (mm)	Min. thickness (mm)	
AWG 24	0.55	± 0.1	0.60	0.40	300
22	0.65	± 0.1	0.60	0.40	
20	0.85	± 0.1	0.60	0.40	
19	0.9	± 0.1	0.60	0.40	
18	1.0	± 0.15	0.60	0.40	
17	1.2	± 0.15	0.62	0.40	
16	1.3	± 0.15	0.62	0.40	
15	1.5	± 0.15	0.62	0.40	
14	1.7	± 0.15	0.62	0.40	
13	1.9	± 0.2	0.62	0.40	
12	2.1	± 0.2	0.62	0.40	
11	2.4	± 0.2	0.62	0.40	
10	2.7	± 0.2	0.62	0.50	
9	3.0	± 0.25	0.62	0.50	
8	3.3	± 0.25	0.62	0.50	
7	3.7	± 0.25	0.62	0.50	
6	4.2	± 0.3	0.62	0.50	
5	4.7	± 0.3	0.62	0.50	
4	5.3	± 0.3	0.62	0.50	
3	5.9	± 0.3	0.62	0.50	
2	6.6	± 0.3	0.62	0.50	
1	7.4	± 0.35	0.62	0.50	
0	8.3	± 0.35	0.62	0.50	
5/16"	8.0	± 0.35	0.62	-	200
6/16"	9.5	± 0.35	0.62	-	
7/16"	11.1	± 0.35	0.62	-	
8/16"	12.7	± 0.35	0.62	-	100
9/16"	14.3	± 0.4	0.80	-	
10/16"	16.0	± 0.4	0.80	-	
12/16"	19.0	± 0.4	0.90	-	
14/16"	22.0	+0.7 -0.5	0.90	-	50
16/16"	25.0	+0.7 -0.5	0.90	-	
1-1/16"	27.0	+0.7 -0.5	1.00	-	
1-1/4"	32.0	+1.0 -0.5	1.05	-	
1-1/2"	38.0	+1.0 -0.5	1.20	-	
1-3/4"	44.0	+1.5 -1.0	1.40	-	
16/8"	50.0	+1.5 -1.0	1.50	-	

● Red, Blue, Yellow, Grey, White, Green, and Orange color is order-made items.

Property (EXLON UL tubing)

	Actual spec	Standard spec (UL · CSA)	Test condition etc.	
Anti-expansion	17.0 or more	10.4 or more	-	
Extension	250 or more	100 or more	-	
Tolerable voltage	10,000V 1 min or more	2,500V 1 min or more	-	
After heat-aging	Tensile strength	15.0MPa or more	7.4MPa or more	
	Extension	200% or more	100% or more	
	Tolerable voltage	10,000V 1 min or more	2,500V 1 min or more	136°C 7 days
	Copper stability	Extension 200% or more	Extension 100% or more	
Flexibility	No defect	No crack or deformity		
Volume resistance	10 ¹² Ω - cm or more	10 ¹⁰ Ω - cm or more	-	
Flame-retardation	VW-1	VW-1	-	
Bent in cold temp	No crack	No crack	- 30°C 1 hour	
Shrinkage	4.0 or less	- 5 ~ + 5	100°C 2 hour	

INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY
WIRING CLAMP
WIRING PROTECTOR
FASTENER
DIP-MOLDED PRODUCT

EXLON Flow-ling tubing

NHR series



Feature

- Halogen-free product not containing either halogen compound or environmentally hazardous substances which will cause the contamination and dioxin pollution.
- Excellent in flexibility and re-usable.
- Best suited for replacement of PVC soft tubing.

Material

Elastomer

Standard color

Black

Contact us for size and production volume.

Properties comparison table (Soft-Eco-PVC)

Item	Unit	EXLON Soft-Eco NHR-80	EXLON-PVC J (black)	Test condition
Hardness (shore-A)	—	85	85	after 15s.
Tensile strength	MPa	> 8.0	> 12.0	—
Elongation	%	> 300	> 200	—
after heat aging	Minimum tensile strength	%	—	121°C × 168 hr. the ratio to unaged
	Minimum elongation	%	—	
Dielectric voltage	—	Not break	Not break	2,500 V × 1 min.
Cold bend	—	No crack	No crack	for 1hr. at - 10°C
Flame retardant level	—	HB	HB	UL-94 method

WIRING ACCESSORY



SHINAGAWA SHOKO FASTENER

● Push fastener	F series	86
● Push rivet	P series	87
● Case leg	FF series	88

Push fastener

F series



Feature

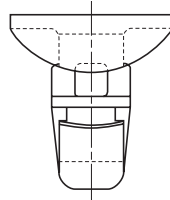
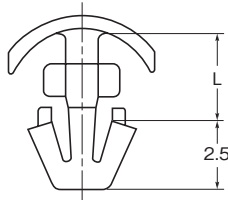
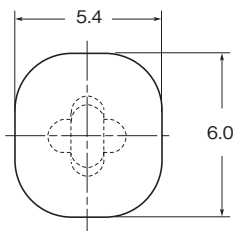
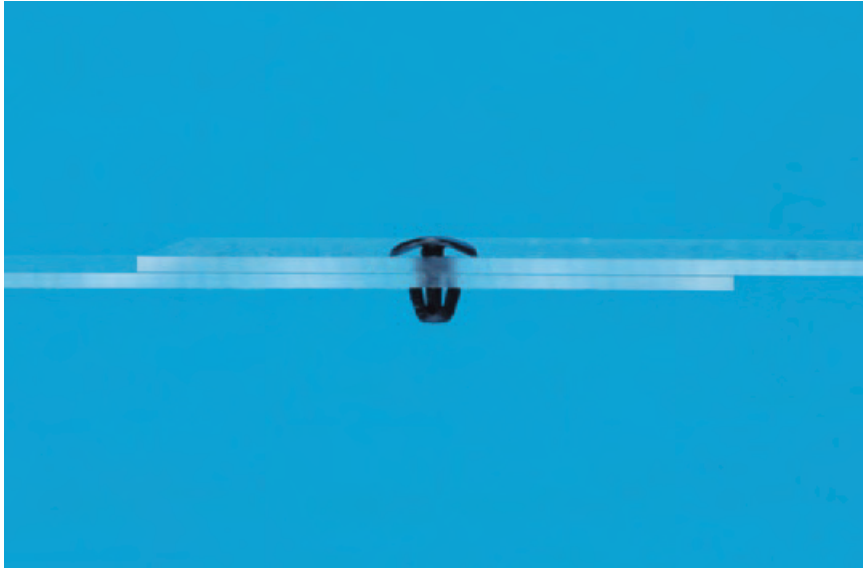
- New kind of fixation fitting replacing screws.
- Can be used for mounting PC boards, plates etc.
- Easy to mount with single-push owing to one-piece structure.

Material

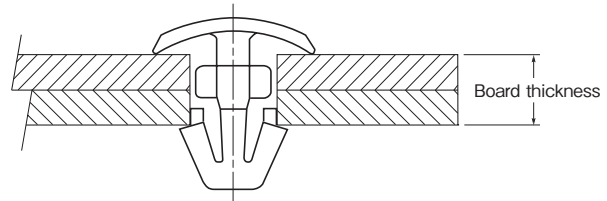
Nylon 66 UL94V-2

Standard color

Black



Mounted



Part No.	Dimensions (mm)			Insertion force N (kgf)	Extraction force N (kgf)	Packing unit (pieces)
	L	Mounting hole	Applicable board thickness			
F32025	2.9	φ 3.0	2.0 ~ 2.5	14.7 ~ 24.5 (1.5 ~ 2.5)	88.2 (9) or more	500
F32530	3.4		2.5 ~ 3.0			

Push rivet

P series



Feature

- New kind of fixation fitting replacing screws.
- Push the pin in to spread the rivet leg to secure the panel.

Material

Nylon 6 UL94V-2

Standard color

White, Black

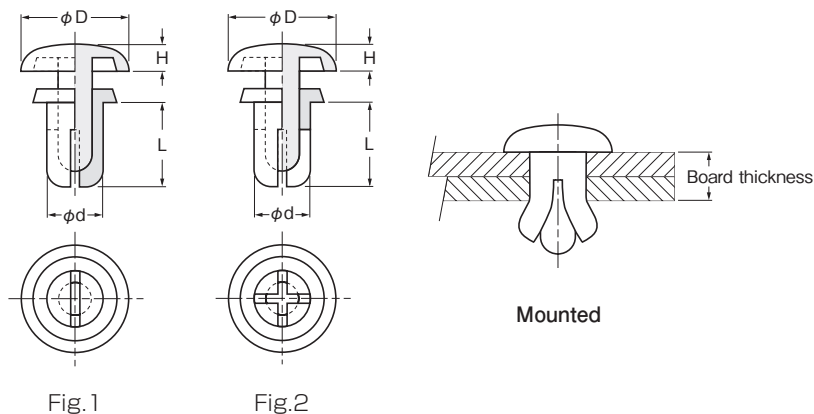


Fig.1

Fig.2

Part No.	Dimensions (mm)						Fig.	Extraction force N (kgf)	Packing unit (pieces)
	Mounting hole	Applicable board thickness	ϕD	H	ϕd	L			
P2024	2.1	0.6 ~ 1.2	4.2	1.2	2.0	2.4	1	29.4 (3)	1,000
P2032		1.3 ~ 2.0				3.2			
P2040		2.1 ~ 2.8				4.0			
P2048		2.9 ~ 3.6				4.8			
P2064		3.7 ~ 4.4				6.4			
P2632	2.7	1.0 ~ 2.0	5.0	1.4	2.6	3.2	1	49 (5)	1,000
P2642		2.1 ~ 3.0				4.2			
P2648		2.7 ~ 3.6				4.8			
P2655		3.4 ~ 4.3				5.5			
P3035	3.1	1.0 ~ 2.0	6.4	1.6	3.0	3.5	1	78.4 (8)	1,000
P3045		2.0 ~ 3.0				4.5			
P3055		3.0 ~ 4.0				5.5			
P3065		4.0 ~ 5.0				6.5			
P3075		5.0 ~ 6.0				7.5			
P3080		5.5 ~ 6.5				8.0			
P3090		6.5 ~ 7.5				9.0			
P3100	7.5 ~ 8.5	10.0							
P3535	3.6	1.2 ~ 2.1	6.4	1.6	3.5	3.5	2	117.6 (12)	1,000
P3545		2.2 ~ 3.1				4.5			
P3550		2.7 ~ 3.6				5.0			
P3555		3.2 ~ 4.1				5.5			
P3560		3.7 ~ 4.6				6.0			
P3570		4.7 ~ 5.6				7.0			
P3580	5.7 ~ 6.6	8.0							
P4050	4.1	2.5 ~ 3.5	8.0	1.8	4.0	5.0	2	196 (20)	1,000
P4060		3.5 ~ 4.5				6.0			
P4070		4.5 ~ 5.5				7.0			
P4080		5.5 ~ 6.5				8.0			
P4090		6.5 ~ 7.5				9.0			
P4100	7.5 ~ 8.5	10.0							
P5045	5.1	1.5 ~ 2.5	9.0	2.2	5.0	4.5	2	245 (25)	1,000
P5055		2.5 ~ 3.5				5.5			
P5065		3.5 ~ 4.5				6.5			
P5075		4.5 ~ 5.5				7.5			
P5085		5.5 ~ 6.5				8.5			
P5095		6.5 ~ 7.5				9.5			
P5105	7.5 ~ 8.5	10.5							
P6060	6.1	2.5 ~ 4.0	12.0	2.5	6.0	6.0	2	294 (30)	1,000
P6080		4.5 ~ 5.5		3.0					

Not all product are listed here. Please contact us for details.

Case leg

FF series



Feature

- Easy to mount by only pushing the pin in.

Applications

- Leg of desktop devices etc.

Material

Body: Elastomer UL94V-2, 94HB
 Rivet: Nylon 6 UL94V-2
 Screw pin: Polyacetate UL94HB

Standard color

Black

Fig.1

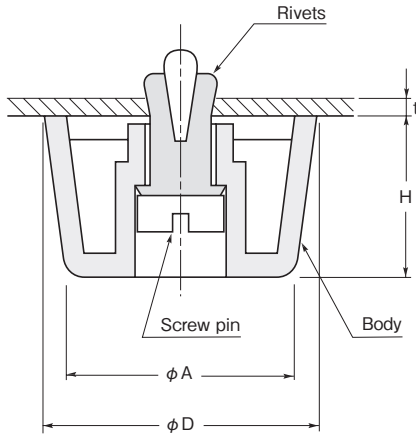
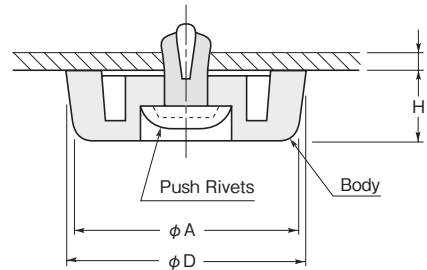


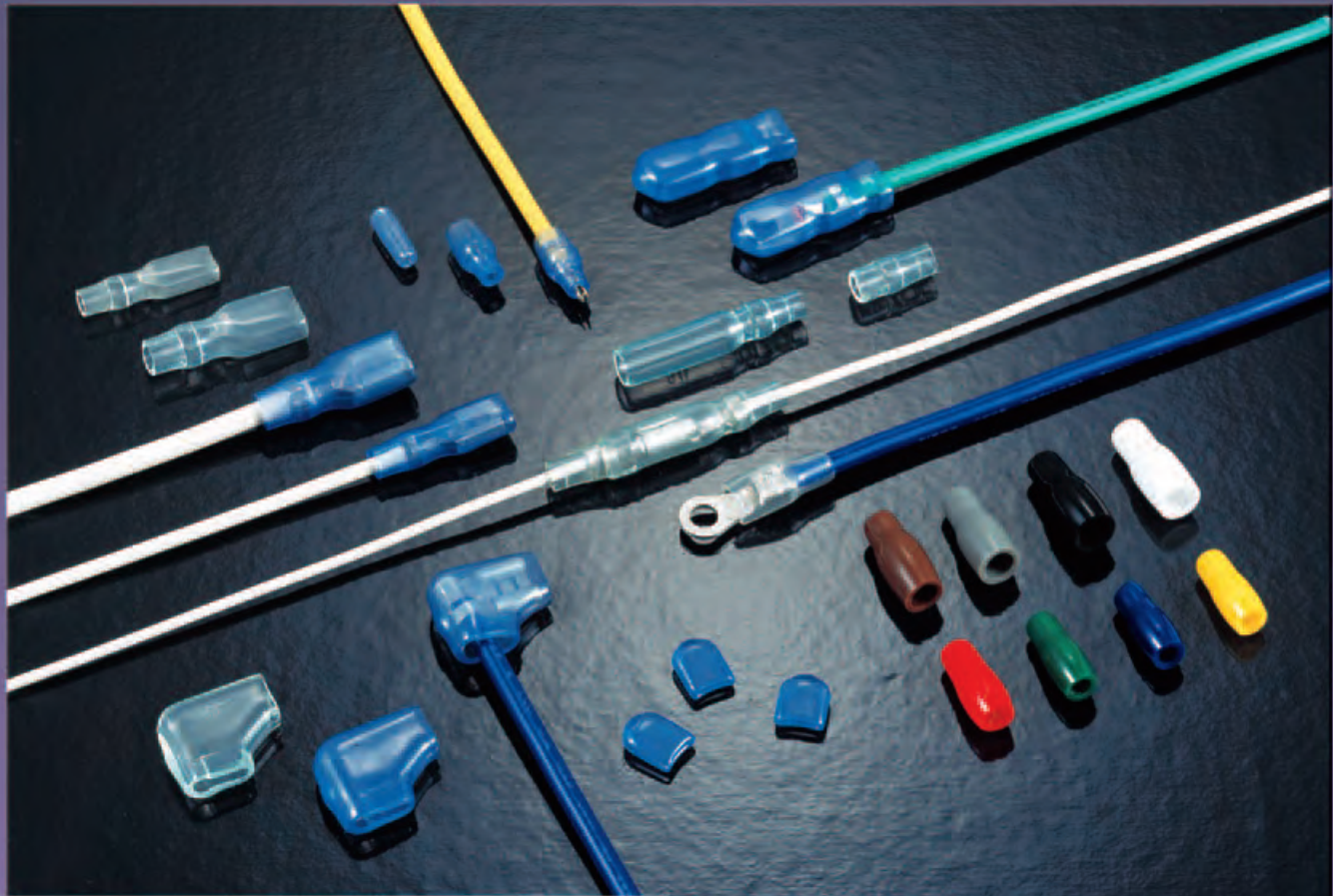
Fig.2



Part No.	Dimensions (mm)										Extraction force N (kgf)	Fig.	Packing unit (pieces)	
	φ A	φ D	H	Mounting hole	Screw pin	Applicable board thickness								
						At mounted								
P3055	P4050	P4060	P4070	P4080	P5065									
FF001-AR79	20.0	24.0	14.0	φ 5.0	1.0 ~ 2.3							294 or more (30)	1	200
FF004-AR79	18.0	20.0	10.0	φ 5.0	1.0 ~ 2.3									
FF015-AR79	28.0	30.0	15.0	φ 5.0	0.8 ~ 2.0									
FF003-AR79	13.5	14.2	5.5	φ 3.1		0.8 ~ 1.8						78 or more (7.9)	2	500
FF005-AR79	20.0	21.0	4.2	φ 4.1			0.8 ~ 1.8	1.8 ~ 2.8	2.9 ~ 3.7	3.8 ~ 4.8		147 or more (15)		
FF006-AR79	14.0	15.0	6.0	φ 4.1				0.6 ~ 1.0	1.0 ~ 2.0			294 or more (30)		
				φ 5.1							0.8 ~ 1.2	294 or more (30)		
FF008-AR79	20.0	21.0	6.0	φ 4.1			0.8 ~ 1.8	1.9 ~ 2.8	2.9 ~ 4.0			147 or more (15)		
FF009-AR79	20.0	21.0	8.0	φ 4.1				1.5 ~ 2.5	2.1 ~ 3.0			147 or more (15)		
FF010-AR79	14.0	15.0	9.0	φ 4.1				0.6 ~ 1.0	1.0 ~ 2.0			294 or more (30)	500	
				φ 5.1							0.8 ~ 1.2	294 or more (30)		
FF013-AR79	10.0	10.8	4.0	φ 3.6				P3545 0.6 ~ 1.0	P3555 1.0 ~ 2.0			98 or more (10)	100	

Not all product are listed here. Please contact us for details.

WIRING ACCESSORY



SHINAGAWA SHOKO

DIP-MOLDED PRODUCT

Outline of dip-molded product	92 · 93
■ Insulation cover	
● Connect sleeve	
For plug 5-mm diameter series	94
For receptacle 5-mm diameter series	94
For straight-type receptacle 110/187 series	95
For straight-type receptacle 205/250/00 series	96
For flag-type receptacle 110/187/205/250 series	97
● TCV cap	TCV series
	98
● TCM cap	TCM series
	99
● VCC cap	VCC series
	100
● Earth terminal cap	ETC-40
	101
● Spare tab cap	STC series
	101
● Board-in sleeve	102
● VCP cap	VCP series
	103
● Capacitor cover	Round-type/post-fit-type series
	104
	Square-type/tubular-type series
	105
● Fuse cover	106
● Switch cover	107
● Coupler cover	108 · 109
● Dust cover	DC series
	110
● Dust cover (for D-sub)	P/R series
	111
● Flat cable cover	112
● Insulation cover for bus bar	IC/BS series
	112
● Shield cap	113
	Straight type
	114
	Two-pronged type
	114 · 115
	Two-pronged type (for housing)
	115
■ Wire bundle	
● Coated clip	CP series
	116
● Coated clip (PB free)	CS/CA series
	117
	CP-SA/CS-A series
	118

DIP-MOLDED PRODUCT

We manufacture various cap, cover etc through the dip-molded process with the material of soft PVC sol compound that we developed originally. The dip-molded product made of these material is excellent in insulation property and has been recognized by UL standard. Also, our dip-molded product do not contain either Cadmium or Pb.

Features of dip-molded product

- Excellent electrical and anti heat-aging resistance.
- Flexible to allow fitting to electronic components, terminals and wire.
- Since no pressure is used in manufacture, there is no internal distortion of dip-molded product and no heat-aging distortion.
- The metal molds are inexpensive and can quickly manufacture product.
- Excellent surface gloss, and has a wide Color Variations.

Recognition by industrial standards

● The Japan Electrical Appliance and Material Control Law

Registered	Dip material	Max. usable temp.
042GAC0435	SS107UFTT	105°C
042GAC0394	SS107UFTC	100°C

● Material recognized by Underwriters Laboratories (UL)

UL File No.	Dip material
E58538	SS107UFTT SS107UFTC S-flex E-0 S-flex E-10 S-flex E-20

● Product recognized by Underwriters Laboratories (UL)

UL File No.	Rating
E55167	105°C— 300V, 600V

● Product recognized by CSA

CSA File No.	Rating
LR52853 · LR52854	90°C— 300V, 600V 105°C— 300V, 600V

Specifications of Dip Materials

Test item	Unit	Standard material	Materials recognized by UL					Test method
		General type	Heat-aging resistant and incombustible applications		High-insulation and high-heat-deformation applications			
		SS108	SS107 UFTT	SS107 UFTC	S-flex E-0	S-flex E-10	S-flex E-20	
Specific gravity	—	1.2 ~ 1.3	1.2 ~ 1.3	1.2 ~ 1.3	1.2 ~ 1.3	1.2 ~ 1.3	1.2 ~ 1.3	JIS K7112
Hardness (A-type)	—	67±3	77±3	83±3	86±3	93±3	96±3	JIS K6301
Tensile strength	MPa	11.7 ~ 15.6	14.7 ~ 19.6	13.7 ~ 17.6	13.7 ~ 17.6	15.7 ~ 21.5	17.6 ~ 23.5	JIS K6723
Tensile strength after aging (100°C × 120 h)	MPa	13.7 ~ 19.6	14.7 ~ 19.6	13.7 ~ 17.6	13.7 ~ 17.6	15.7 ~ 21.5	17.6 ~ 23.5	
Elongation	%	300 ~ 400	300 ~ 400	300 ~ 400	300 ~ 400	200 ~ 300	150 ~ 250	
Elongation after aging (100°C × 120 h)	%	300 ~ 350	300 ~ 400	300 ~ 400	300 ~ 400	200 ~ 300	150 ~ 250	
Insulation	KV	5 ~ 8	7 ~ 10	7 ~ 10	14 ~ 17	16 ~ 20	18 ~ 24	JIS K6911 (in air)
Insulation after aging (100°C × 120 h)	KV	5 ~ 8	7 ~ 10	7 ~ 10	14 ~ 17	16 ~ 20	18 ~ 24	
Volume resistivity	Ω · cm	10 ⁹ ~ 10 ¹⁰	10 ¹⁰ ~ 10 ¹¹	10 ¹⁰ ~ 10 ¹¹	10 ¹¹ ~ 10 ¹²	10 ¹¹ ~ 10 ¹²	10 ¹² ~ 10 ¹³	JIS K6723
Continuous use temperature	°C	60	85	100	—	—	—	IEC pub-216
Heat deformation temperature	°C	120	130	135	155	190	200	Loop test
Cold resistance (Tf)	°C	— 40	— 40	— 40	—	—	—	JIS K6723
Combustibility	—	—	UL94V-0	UL94V-0	UL94V-0	UL94V-0	UL94V-0	UL94
Copper stability	—	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	UL224
Weatherproof qualities (excluding transparent product)	—	Very good	Very good	Very good	Very good	Very good	Very good	
Ozone resistance	—	Very good	Very good	Very good	Very good	Very good	Very good	
Chemical resistance	Acids	—	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	JIS K7114
	Alkalis	—	Outstanding	Outstanding	Outstanding	Outstanding	Outstanding	
Note Non-migration	—	Good	Good	Good	Good	Good	Good	

Note: Please conduct anti-styrene tests before using.

- This data should only be used as a guide for general applications.
- Flame retardant dip material SS107UF (UL94V-0) is also available.
- No substances classified as ozone layer depleting substances (Classes I and II) under Article 611 of the U.S. Clean Air Act are used as the dip materials, or used in the manufacturing process or in the packaging of dip-molded product.

UL RECOGNIZED

UL YELLOW CARD

QMFZ2 February 13, 2003
Plastics - Component
SHINAGAWA SHOKO CO LTD
7-22 HIGASHI-KOBIYA 4-CHOME OHTA-KU, TOKYO 144-
0033 JAPAN E58538

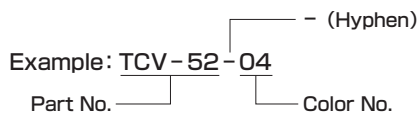
Material Desg	Color	Min. TIA mm	Flare Claw	H W	H A	Die	RTI		H V	D 4	C T
							Temp	Str			
Polymethyl Methacrylate (PMMA), furnished as molded parts or parts.											
Emagous SD	BL	0.6	54	—	—	50	50	50	—	—	—
		12.0	54	—	—	50	50	50	—	—	—
Polyvinylchloride (PVC), furnished as parts, molded parts.											
S-FLEX E-C	ALL	0.75	54	—	—	50	50	50	—	—	—
		0.91	54	1	4	50	50	50	—	—	—
		1.0	54	1	5	50	50	50	2	7	II
S-FLEX E-10	ALL	0.75	54	1	5	50	50	50	—	—	—
		0.91	54	1	7	50	50	50	—	—	—
		0.5	54	1	5	50	50	50	2	7	II
S-FLEX E-20	ALL	0.75	54	1	5	50	50	50	—	—	—
		0.91	54	1	5	50	50	50	—	—	—

10/8/2003 Underwriters Laboratories Inc. Card 1 of 3

QMFZ2 February 13, 2003
Plastics - Component
SHINAGAWA SHOKO CO LTD E58538

Material Desg	Color	Min. TIA mm	Flare Claw	H W	H A	Die	RTI		H V	D 4	C T
							Temp	Str			
Marking. Company name and material designation on container, wrapper or finished part.											
See General Information Preceding These Recognitions											
UL84 small-scale test data does not pertain to building materials, furnishings, and related											
10/8/2003 Underwriters Laboratories Inc. Card 2 of 3											

● Color code of dip-molded product



● Color code

DIP-MOLDED MATERIAL	COLOR	RED	WHITE	BLUE	BLACK	YELLOW	GREEN	BROWN	GRAY	TRANS PARENT
General type SS108		01	02	03	04	05	06	07	08	09
UL recognized Material (Opacity)SS107UFTC	Color Code	11	12	13	14	15	16	17	18	—
UL recognized Material (Colored transparency)SS107UFTT		21	22	23	24	25	26	27	28	—
UL recognized Material (Opacity)SS107UFTT		—	32	—	34	—	—	—	—	—
UL recognized Material (Colored transparency)SS107UF		—	—	—	—	45	—	—	—	—

Cantion on the use of dip-molded product

- Shall be used under the continuous use temperature designated in the spec of dip materials chart. Recognized product to be used under rated temperature.
- Avoid the use under hi-humidity or water as it deteriorates the electric property.
- Avoid the use in mineral or vegetable oil as it deteriorates the mechanical property.
- Avoid the use in organic solvent as it softens the product and deteriorates the mechanical property.
- Shall be used after the test upon its use with the styrene contained product.
- Though transparent product possibly deteriorates its transparency after a while, it does not affect the function of the product.

※ Contact us for any queries.

Connector sleeve



φ5/110/187/205/250/00 series



Feature

- For SURE plug and its receptacle, and Straight/Flag type terminal.

Material

Soft PVC
 Standard material: SS108
 UL recognized material
 (File No. E58538): SS107UFTT

Standard color

SS108: Transparent (09)
 SS107UFTT: Blue transparent (23)



UL recognized product E55167

Cat. No. 10, 11, 16
 SS107UFTT..... Rating: 105°C, 600V



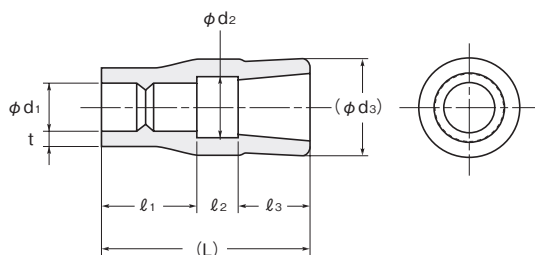
CSA recognized product LR52853 • LR52854

Cat. No. 11, 16 SS107UFTT..... Rating: 105°C, 600V
 Cat. No. 10 SS107UFTT..... Rating: 90°C, 600V

Classification

Part No.	Type
22 □□□□	Round connector sleeve (for SURE plug)
21 □□□□	Round connector sleeve (for receptacle)
23 □□□□	Straight connector sleeve (for straight-type receptacle)
24 □□□□	Flag connector sleeve (for flag-type receptacle)
25 □□□□	Post-fit connector sleeve (for flag-type receptacle)

φ5 series

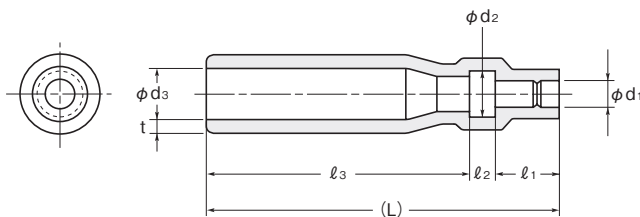


Cat. No.10

Part No.	Dimensions (mm)							ID No.	Packing unit (pieces)
	φ d ₁	φ d ₂	(φ d ₃)	l ₁ ± 1	l ₂	l ₃ ± 1	(L)		
※ 224222	2.2	4.5	5	7	2.5	4.5	14	1.0	1,000
224225	2.5	4.0		6			13		
224228	2.8	4.5		7			14		
224230	3.0	4.0		6			13		
224232	3.2	4.5		7			14		
224235	3.5	4.5		6			13		
224240	4.0	4.5		6			13		

※ Order-made (Contact us for production volume.)

φ 5 series



Cat. No.10

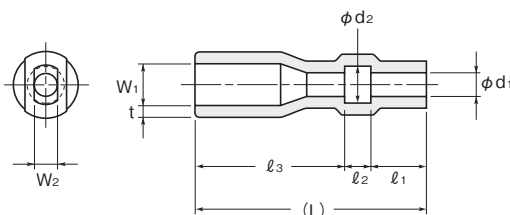
Part No.	Dimensions (mm)								ID No.	Packing unit (pieces)
	φ d ₁	φ d ₂	(φ d ₃)	l ₁ ± 1	l ₂	l ₃ ± 1	(L)	t ^{+0.3} / _{-0.2}		
215025	2.5	4.5	5	6	2.5	4.5	33	1.0	S 9	1,000
※ 215028	2.8	4.5		6					S10	
215030	3.0	4.5		6					S11	
215032	3.2	4.5		7					S12	
215035	3.5	4.0		6					S13	
215040	4.0	5.0		6					S14	

※ Order-made (Contact us for production volume.)

For straight-type receptacle 110/187 series



110 series

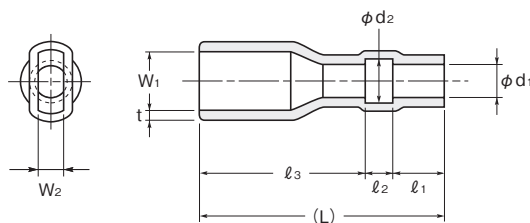


Cat. No.11

Part No.	Dimensions (mm)									ID No.	Packing unit (pieces)				
	φ d ₁	φ d ₂	l ₁ ± 1	l ₂	l ₃ ± 1	(L)	W ₁	W ₂	t ^{+0.3} / _{-0.2}						
234015	1.5	3.0	5	2.5	15.5	23	4.0	2.0	0.8	S16	1,000				
※ 234016	1.6	2.8	3							12.5		18	2.1	1.0	S17
234018	1.8	3.3	5							13.5		21	2.1	1.0	S18
234020	2.0	3.5	5							15.5		23	2.0	0.8	S19
234025	2.5	3.5	5							15.5		23	2.0	0.8	S20
234028	2.8	4.3	5							13.5		21	2.1	1.0	S21
234030	3.0	3.8	5							15.5		23	2.0	0.8	S22
234035	3.5	4.5	5							15.5		23	2.0	0.8	S23

※ Order-made (Contact us for production volume.)

187 series



Cat. No.11

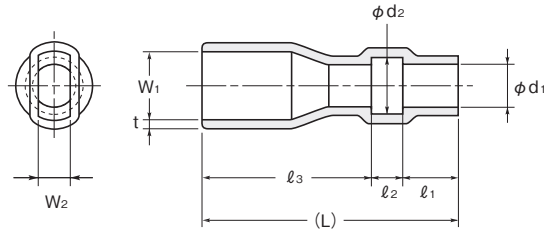
Part No.	Dimensions (mm)									ID No.	Packing unit (pieces)		
	φ d ₁	φ d ₂	l ₁ ± 1	l ₂	l ₃ ± 1	(L)	W ₁	W ₂	t ^{+0.3} / _{-0.2}				
※ 235815	1.5	3.0	5	3.0	15.0	23	5.8	2.2	0.8	S26	1,000		
※ 235818	1.8	3.3		2.5						15.5		1.0	S27
235820	2.0	3.5		2.5						15.5		0.8	S28
※ 235822	2.2	3.7		2.5						15.5		1.0	S29
235825	2.5	3.5		2.5						15.5		0.8	S30
235830	3.0	4.0		2.5						15.5		0.8	S31
235835	3.5	4.5		3.0						15.0		0.8	S32
235840	4.0	5.0		3.0						15.0		0.8	S33
235845	4.5	5.5		3.0						15.0		0.8	S34

※ Order-made (Contact us for production volume.)

For straight-type receptacle **205/250/00** series



205 series

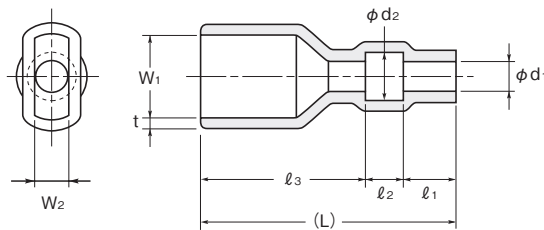


Cat. No.11

Part No.	Dimensions (mm)									ID No.	Packing unit (pieces)
	ϕd_1	ϕd_2	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)	W_1	W_2	$t^{+0.3}_{-0.2}$		
236520	2.0	3.5	5	3.0	16	24	6.5	3.0	0.9	S36	1,000
236525	2.5	3.5								S37	
236530	3.0	4.0								S38	
236535	3.5	4.5								S39	
236540	4.0	5.0								S40	
※ 236548	4.8	6.0								S41	

※ Order-made (Contact us for production volume.)

250 series



Cat. No.11

Part No.	Dimensions (mm)									ID No.	Packing unit (pieces)
	ϕd_1	ϕd_2	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)	W_1	W_2	$t^{+0.3}_{-0.2}$		
238020	2.0	3.2	5	3.0	16.0	24.0	8.0	3.5	1.0	S43	1,000
238025	2.5	4.5		3.0	16.0	24.0				S44	
238030	3.0	4.5		3.5	15.5	24.0				S45	
238032	3.2	4.7		2.5	16.5	24.0				S46	
238035	3.5	4.5		3.0	16.0	24.0				S47	
238038	3.8	5.3		2.5	17.5	25.0				S48	
238040	4.0	5.0		3.0	16.5	24.5				S49	
238048	4.8	6.3		2.5	17.5	25.0				S50	
238060	6.0	7.5		2.5	19.5	27.0				S51	

00 series

Fig.1

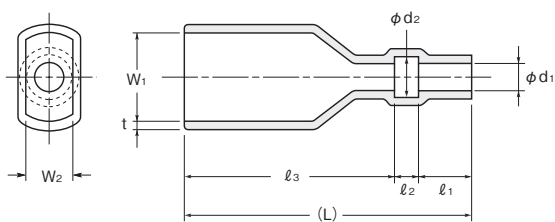
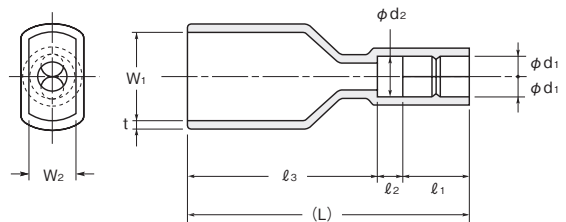


Fig.2



Part No.	Dimensions (mm)									Fig.	ID No.	Packing unit (pieces)
	ϕd_1	ϕd_2	W_1	W_2	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)	$t^{+0.3}_{-0.2}$			
※ 230032	3.2	4.5	11.6	5.6	5	2.5	28.0	35.5	1.0	1	S71	1,000
※ 230035	3.5	4.5			5						S72	
※ 230025W	2.5	5.0			7						25.5	

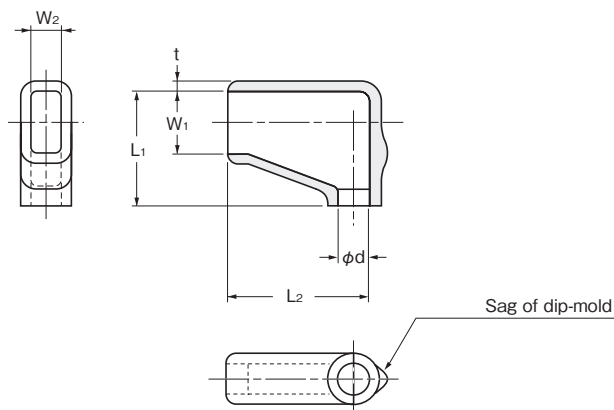
※ Order-made (Contact us for production volume.)

INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY
WIRING CLAMP
WIRING PROTECTOR
FASTENER
DIP-MOLDED PRODUCT

For flag-type receptacle **110/187/205/250** series



Pre-fit flag-type series

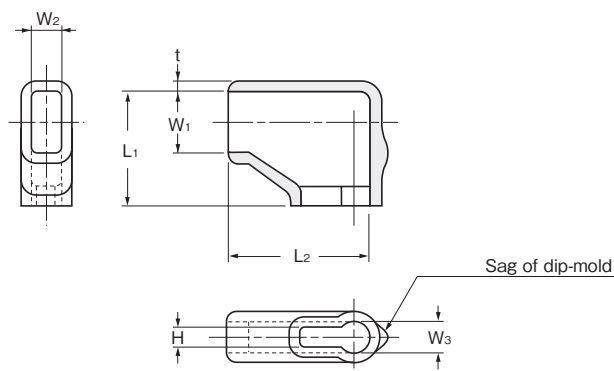


Cat. No.16

Terminal type	Part No.	Dimensions (mm)						ID No.	Packing unit (pieces)
		ϕd_1	$L_1 \pm 1$	$L_2 \pm 1$	W_1	W_2	$t^{+0.3}_{-0.2}$		
※ 110	244535	3.5	13.5	12.0	4.5	2.5	1.0	S53	1,000
187	246225	2.5	11.5	14.0	6.2	3.0		S54	
	246230	3.0						S55	
	246232	3.2						S56	
250	248525	2.5	13.5	17.5	8.5	4.5		S61	
	248530	3.0						S62	
	248532	3.2						S63	
	248540	4.0						S64	
	248548	4.8						S65	
	248550	5.0	S66						

※ Order-made (Contact us for production volume.)

Post-fit flag-type series



Cat. No.16

Terminal type	Part No.	Dimensions (mm)						ID No.	Packing unit (pieces)	
		$L_1 \pm 1$	$L_2 \pm 1$	W_1	W_2	$t^{+0.3}_{-0.2}$	H			W_3
187	250187	11.5	13.0	5.0	2.9	1.0	2.0	3.2	S91	1,000
※ 205	250205	12.5	14.0	5.5	3.2				S93	
250	250250	14.0	16.5	6.5	3.5				S92	

※ Order-made (Contact us for production volume.)

TCV cap

TCV series



Feature

- Best suited for the insulation and color coding of the terminals nipped onto wire.
- Choice of nine colors.

Material

Soft PVC
 Standard material: SS108
 UL recognized material (E58538): SS107UFTT (order-made)
 SS107UFTC (order-made)

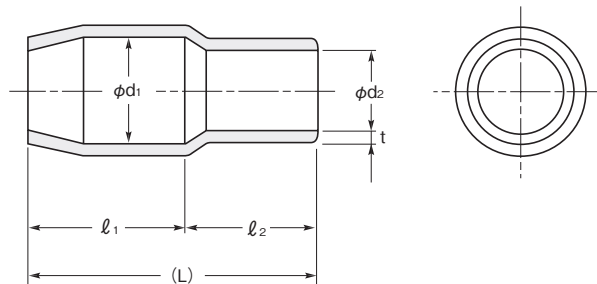
Standard color

SS108
 Red (01) White (02) Blue (03) Black (04) Yellow (05)
 Green (06) Brown (07) Gray (08) Transparent (09)



Cat. No. 21

SS107UFTT Rating: 105°C, 600V
 SS107UFTC Rating: 105°C, 600V



Cat. No. 21

Part No.	Applicable (mm ²)	Dimensions (mm)						Packing unit (pieces)
		ϕd_1	ϕd_2	l_1	l_2	(L)	t	
TCV- 10	0.3	3.1	2.0	6 \pm 0.7	7 \pm 0.7	13	0.6 ^{+0.3} _{-0.2}	100×10 = 1,000
TCV- 12	0.5 ~ 1.25	3.3	3.1	6 \pm 0.7	7 \pm 0.7	13	0.6 ^{+0.3} _{-0.2}	
TCV- 21	2.0	4.5	3.7	7 \pm 0.7	7 \pm 0.7	14	0.7 ^{+0.3} _{-0.2}	
TCV- 52	3.5	5.7	4.1	9 \pm 0.7	8 \pm 0.7	17	0.8 ^{+0.3} _{-0.2}	
TCV- 53	5.5	5.7	5.2	9 \pm 0.7	8 \pm 0.7	17	0.8 ^{+0.3} _{-0.2}	
TCV- 81	8.0	7.2	6.2	10 \pm 0.7	9 \pm 0.7	19	1.0 ^{+0.3} _{-0.2}	100×5 = 500
TCV- 141	14	10.0	8.0	13 \pm 1.0	11 \pm 1.0	24	1.1 \pm 0.3	
TCV- 221	22	12.0	9.5	15 \pm 1.0	14 \pm 1.0	29	1.2 \pm 0.3	
TCV- 381	38	14.0	11.8	17 \pm 1.0	16 \pm 1.0	33	1.4 \pm 0.3	50×5 = 250
TCV- 601	60	17.0	13.9	20 \pm 1.0	19 \pm 1.0	39	1.5 \pm 0.3	
TCV- 801	80	19.5	16.0	25 \pm 1.5	21 \pm 1.5	46	1.5 \pm 0.3	20×5 = 100
TCV-1001	100	22.0	18.0	30 \pm 1.5	24 \pm 1.5	54	1.7 \pm 0.3	
TCV-1251	125	24.4	20.0	32 \pm 1.5	25 \pm 1.5	57	1.8 \pm 0.4	
TCV-1501	150	24.4	22.0	34 \pm 1.5	31 \pm 1.5	65	1.8 \pm 0.4	10×5 = 50
TCV-2001	200	32.2	24.0	38 \pm 1.5	31 \pm 1.5	69	2.0 \pm 0.4	
TCV-2501	250	37.5	26.5	42 \pm 1.5	33 \pm 1.5	75	2.0 \pm 0.4	
TCV-3251	325	37.5	30.0	42 \pm 1.5	33 \pm 1.5	75	2.0 \pm 0.4	

INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY
WIRING CLAMP
WIRING PROTECTOR
FASTER



TCM cap

TCM series



Feature

- Excellent in anti-heat aging and flame-retardant.
- Best suited for color-coding.

Material

Soft PVC
UL recognized material (E58538): SS107UFTC

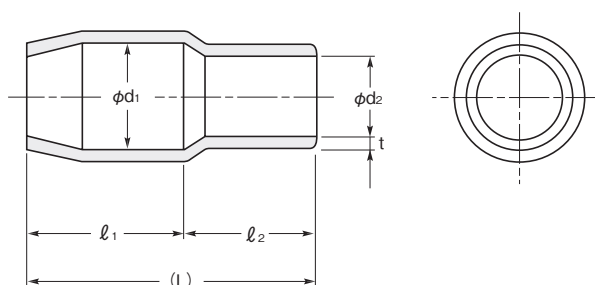
Standard color

Red (11) White (12) Blue (13) Black (14) Yellow (15) Green (16)



UL recognized product **E55167**

Cat. No. 21 Rating: 105°C, 600V



Cat. No. 21

Part No.	Applicable (mm ²)	Dimensions (mm)						Packing unit (pieces)
		ϕd_1	ϕd_2	$l_1 \pm 1$	$l_2 \pm 1$	(L)	t	
TCM- 12	0.75	3.8	3.5	7	7	14	0.8	1,000
TCM- 21	2.0	4.4	4.1	7	7	14	0.8	
TCM- 52	3.5	5.0	4.7	9	8	17	0.8	
TCM- 53	5.5	5.7	5.4	9	8	17	0.8	
TCM- 81	8.0	7.2	6.0	10	9	19	1.0	
TCM- 141	14	10.0	7.4	13	11	24	1.1	500
TCM- 221	22	12.0	9.8	15	14	29	1.2	250
TCM- 381	38	14.0	12.0	17	16	33	1.5	
TCM- 601	60	17.0	15.0	20	19	39	1.5	
TCM- 801	80	19.0	17.0	25	21	46	1.6	100
TCM-1001	100	22.0	20.0	30	24	54	1.7	
TCM-1501	150	28.0	26.0	34	31	65	1.8	50

The green of TCM-801, -1001, 1501(16) is order-made. (Contact us for production volume.)

VCC cap

VCC series



Feature

- Insulation cap of spare terminals.
- Substitutes for the taping.

Material

Soft PVC
 Standard material: SS108
 UL recognized material (E58538):
 SS107UFTT
 SS107UFTC (order-made)

Standard color

SS108: Black (04) Transparent (09)
 SS107UFTT: Blue Transparent (23)



UL recognized product E55167

Cat. No. 20

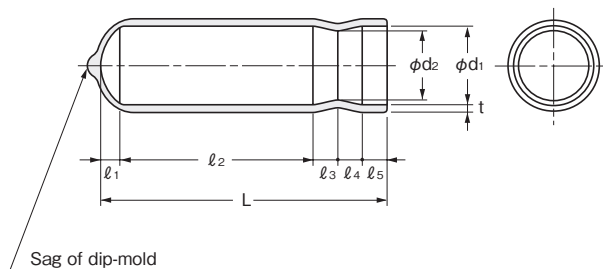
SS107UFTT..... Rating: 105°C, 600V
 SS107UFTC Rating: 105°C, 600V



CSA recognized product LR52853 • LR52854

Cat. No. 20

SS107UFTT..... Rating: 90°C, 300V
 SS107UFTC Rating: 105°C, 300V



Cat. No. 20

Part No.	Dimensions (mm)									Packing unit (pieces)
	ϕd_1	ϕd_2	l_1	l_2	l_3	l_4	l_5	(L)	$t_{-0.2}^{+0.3}$	
VCC- 1	10.0	8.5	3.0	21.0	3.0	3.0	3.0	33	1.0	1,000
VCC- 2	12.0	10.0	4.0	27.0	4.5	4.5	4.0	44	1.0	
VCC- 3	16.0	14.0	4.0	39.0	5.0	5.0	5.0	58	1.2	500
VCC- 4	20.0	17.0	6.0	49.0	5.0	5.0	5.0	70	1.2	
VCC- 5	24.0	22.0	7.0	48.0	5.0	5.0	5.0	70	1.5	250
VCC- 6	29.0	27.0	7.0	48.0	5.0	5.0	5.0	70	1.5	
VCC- 7	32.0	27.0	13.5	41.5	5.0	5.0	5.0	70	1.5	100
VCC- 8	40.0	35.0	20.0	46.0	4.5	4.5	5.0	80	1.5	
VCC- 9	6.0	3.5	2.0	18.0	5.0	5.0	3.0	33	0.8	1,000
VCC-10	8.0	6.0	3.0	17.0	5.0	5.0	3.0	33	0.8	
VCC-11	12.0	9.5	5.0	15.0	5.0	5.0	3.0	33	1.0	
VCC-12	14.0	12.0	3.5	31.5	4.5	5.0	4.5	49	1.0	

※ Order-made (Contact us for production volume.)

Earth terminal cap

ETC-40



Feature

- Excellent earth terminal cap in Anti-heat aging and flame-retardant.

Material

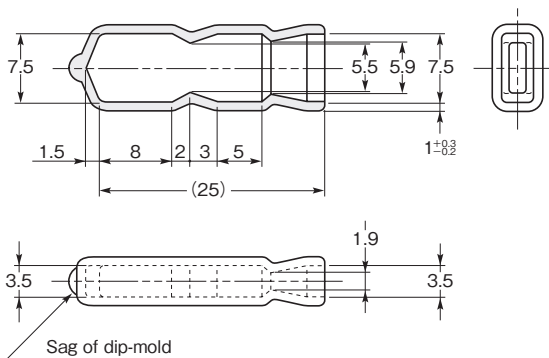
Soft PVC

UL recognized material (E58538): SS107UFTT

Standard color

Blue Transparent (23)

Part No.	Packing unit (pieces)
ETC-40	1,000



Spare tap cap

STC series



Feature

- For spare terminal tab, such as those found on tab-type breaker terminal blocks and other components that have tab terminals.
- STC-187 is for the 187 series, and also can be used for the 205 series.

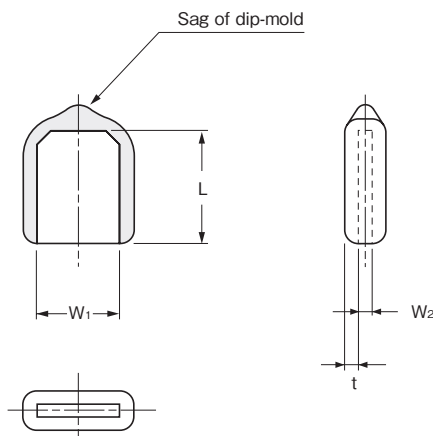
Material

Soft PVC

UL recognized material (E58538): SS107UFTT

Standard color

Blue Transparent (23)



Part No.	Dimensions (mm)				Packing unit (pieces)
	W ₁	W ₂	L ± 0.9	t ^{+0.3} / _{-0.2}	
※ STC-187	4.0	0.8	7.0	1.0	1,000
STC-250	6.1		8.3		

※ Order-made (Contact us for production volume.)

Board in-sleeve



Feature

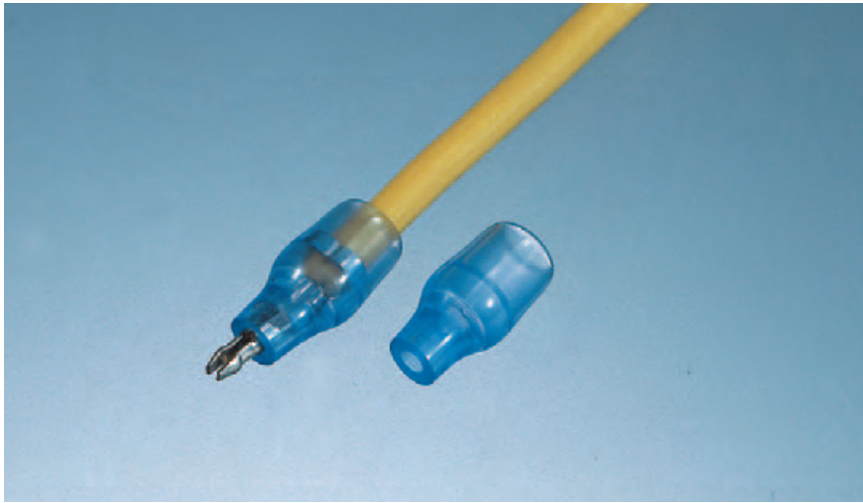
- For board-in connector.

Material

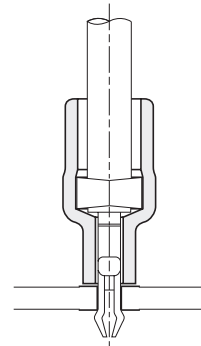
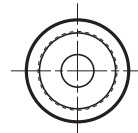
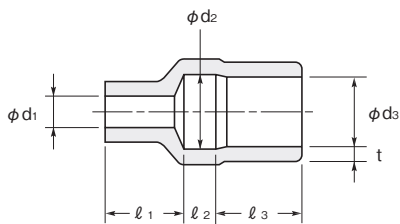
Soft PVC
UL recognized material (E58538):
SS107UFTT

Standard color

Blue Transparent (23)



Example of use



Part No.	Dimensions (mm)							Applicable terminals	Packing unit (pieces)
	ϕd_1	ϕd_2	ϕd_3	$l_1 \pm 1$	l_2	$l_3 \pm 0.7$	$t \begin{smallmatrix} +0.3 \\ -0.2 \end{smallmatrix}$		
※ 201618	1.6	2.0	1.8	0.4	1.8	5.0	0.7	SIN-002T-1.2N SIN-002T-1.0	1,000
201919	1.9	2.1	1.9	3.0	2.0	5.0	0.7	170072-1	
								SIN-01T-1.2	
								SIN-001T-1.8	
								SIN-01T-1.8N	
170197-1									
※ 201928	1.9	3.3	2.8	3.0	2.0	5.0	0.8	SIN-01T-1.2	
								SIN-001T-1.2	
								SIN-01T-1.8	
201840	1.8	4.3	4.0	4.5	2.0	5.0	0.8	SIN-01T-1.8N	
								SIN-21T-1.8	

※ Order-made (Contact us for production volume.)

VCP cap

VCP series



Feature

- Can be used for the insulation of electronic capacitors etc.
- Can be used for the protection of wire and cable from dust, moisture etc.
- Can be used for the protection of pipe screws from dust, moisture etc.

Material

Soft PVC
 Standard material: SS108
 UL recognized material (E58538): SS107UFTT (order-made)
 SS107UFTC (order-made)

Standard color

SS108: Black (04)



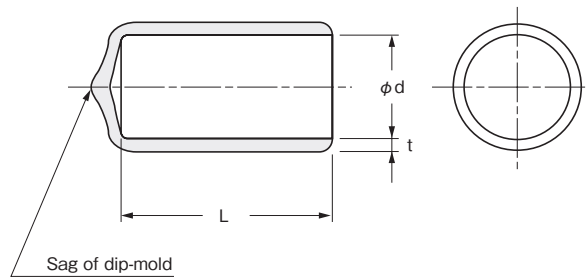
UL recognized product E55167

Cat. No. 20
 SS107UFTT Rating: 105°C, 600V
 SS107UFTC Rating: 105°C, 600V



CSA recognized product LR52853 • LR52854

Cat. No. 20
 SS107UFTT Rating: 90°C, 300V
 SS107UFTC Rating: 105°C, 300V



Cat. No. 20

Part No.	Dimensions (mm)			Packing unit (pieces)
	φ d	L	t	
※ VCP- 1.4	1.4	10 ^{±1}	0.8 ^{±0.3}	1,000
※ VCP- 2	2			
※ VCP- 2.4	2.4			
※ VCP- 2.7	2.7			
※ VCP- 3.0	3			
※ VCP- 3.3	3.3			
※ VCP- 3.5	3.5			
※ VCP- 4	4			
※ VCP- 4.7	4.7			
※ VCP- 5	5			
※ VCP- 5.5	5.5			
※ VCP- 6	6			
※ VCP- 7.5	7.5			
※ VCP- 8	8			
※ VCP- 9	9	20 ^{±1}	1.5 ^{±0.4}	500
※ VCP-10	10			
※ VCP-12	12			
※ VCP-13	13			
※ VCP-14	14	30 ^{±1}	1.5 ^{±0.4}	500
※ VCP-15	15			
※ VCP-16	16			
※ VCP-18	18			
※ VCP-20	20	40 ^{±1}	1.5 ^{±0.4}	250
※ VCP-22	22			
※ VCP-24	24			
※ VCP-26	26			
※ VCP-28	28			

Part No.	Dimensions (mm)			Packing unit (pieces)
	φ d	L	t	
※ VCP-30	30	50 ^{±1.5}	1.5 ^{±0.4}	250
※ VCP-32	32			
※ VCP-34	34			
※ VCP-36	36	60 ^{±1.5}	1.7 ^{±0.4}	100
※ VCP-38	38			
※ VCP-40	40			
※ VCP-42	42			
※ VCP-44	44	70 ^{±2}	2.0 ^{±0.5}	50
※ VCP-46	46			
※ VCP-48	48			
※ VCP-50	50			
※ VCP-52	52			
※ VCP-54	54	80 ^{±2}	2.0 ^{±0.5}	30
※ VCP-56	56			
※ VCP-58	58			
※ VCP-60	60			
※ VCP-62	62	90 ^{±2}	2.0 ^{±0.5}	20
※ VCP-64	64			
※ VCP-66	66			
※ VCP-68	68			
※ VCP-70	70			
※ VCP-72	72	100 ^{±2}	2.0 ^{±0.5}	20
※ VCP-74	74			
※ VCP-76	76			
※ VCP-78	78			
※ VCP-80	80			

※ Order-made (Contact us for production volume.)



Capacitor cover

Round-type/post-fit-type series



Feature

- Protective insulation cover for various capacitor bodies, wire etc.
- Best suited for double insulation.
- Effective as a barrier against active electrical parts.

Material

Soft PVC
 UL recognized material (E58538):
 SS107UFTT

Standard color

SS107UFTT: Blue Transparent (23)



UL recognized product E55167

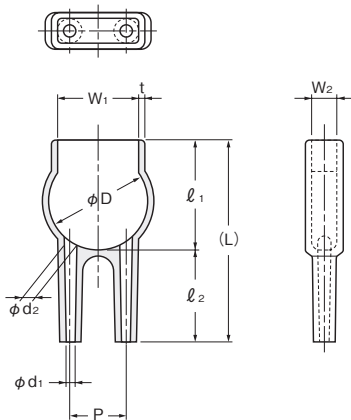
Cat. No. 12, 13, 14, 22..... Rating: 105°C, 600V



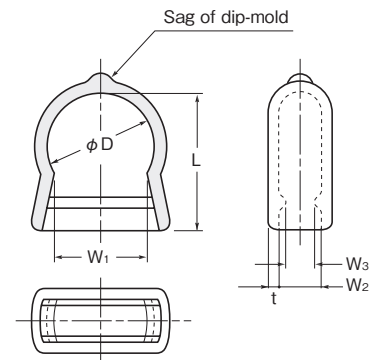
CSA recognized product LR52853 • LR52854

Cat. No. 12, 13, 14, 22..... Rating: 105°C, 600V

Round-type



Post-fit type



Round-type series Cat. No. 14

Part No.	Dimensions (mm)											ID No.	Packing unit (pieces)
	φ D	φ d ₁	φ d ₂	P	ℓ ₁ ± 1	ℓ ₂ ± 1	(L)	W ₁	W ₂	t ± ^{0.3} / _{0.2}			
810906	9.0	1.4	1.8	5.5	10.0	11	21.0	7.5	2.2	0.8	S 1	1,000	
811207	12.0	1.5	1.5	6.4	13.0	5	18.0	9.6	5.0	0.8	S 2		
811409	14.0	1.5	2.0	9.0	16.0	24	40.0	12.0	4.0	1.0	S 3	500	
※ 811409-1	14.0	2.0	2.0	9.0	21.0	5	26.0	12.0	4.0	1.0	S 3		
811609	16.0	1.5	2.0	9.0	18.0	15	33.0	13.0	4.0	1.0	S 4		
811810	18.0	1.5	2.0	10.0	21.0	15	36.0	14.0	4.0	1.0	S 5		
811810-1	18.0	1.5	2.2	10.0	20.0	25	45.0	14.0	3.0	1.0	S 6		
※ 811810-2	18.0	1.5	2.0	10.0	20.0	20	40.0	14.0	3.0	1.0	S 7		
※ 812010	20.0	1.4	2.0	10.0	22.0	27	49.0	17.0	5.0	1.0	S 8		
※ 812214	22.0	2.0	3.5	14.0	24.0	20	44.0	17.0	7.0	1.0	S 9		
※ 812216	22.0	2.0	3.0	16.0	27.0	15	42.0	20.0	8.0	1.0	S10		
※ 812316	23.0	1.5	3.0	16.0	28.0	10	38.0	21.0	4.5	1.0	S11		
※ 812510	25.0	2.0	2.0	10.0	28.5	10	38.5	22.0	6.0	1.0	S12		
※ 812816	28.0	2.0	3.0	15.8	35.0	20	55.0	23.0	6.0	1.0	S13		

※ Order-made (Contact us for production volume.)

Post-fit type series Cat. No. 22

Part No.	Dimensions (mm)						Packing unit (pieces)
	φ D	W ₁	W ₂	W ₃	L ± 1	t ± ^{0.3} / _{0.2}	
850830	8.0	7.5	3.0	3.0	10.5	1.0	1,000
851040	10.5	9.0	4.0	3.0	13.0		
851248	12.5	10.0	4.8	3.8	19.0		
※ 851348	13.0	11.5	4.8	3.8	19.0		
851440	14.0	12.0	4.0	3.0	16.0		
851640	16.0	13.0	4.0	3.0	18.5		

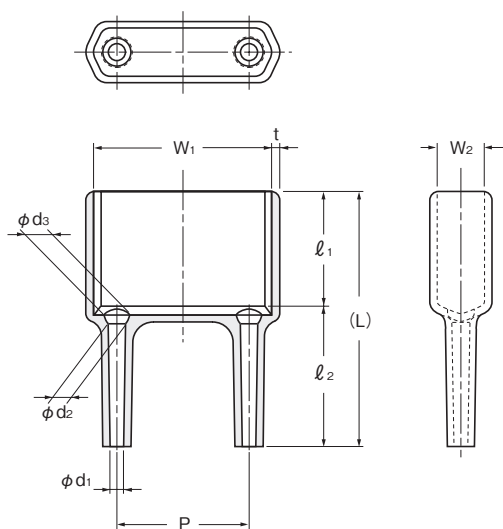
※ Order-made (Contact us for production volume.)

Capacitor cover

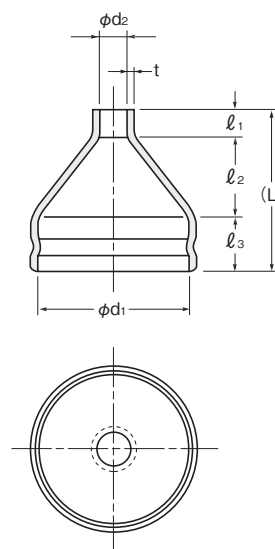
Square-type/Tubular-type series



Square-type



Tubular-type



Square-type series Cat. No. 13

Part No.	Dimensions (mm)											ID No.	Packing unit (pieces)
	ϕd_1	ϕd_2	ϕd_3	P	$l_1 \pm 1$	l_2	(L)	W ₁	W ₂	$t^{+0.3}_{-0.2}$			
※ 820526	1.5	2.0	3.0	15.0	10.0	16.0 ±1.5	26.0	20.5	5.5	1.0	S31	500	
※ 820536	1.3	—	3.0	6.0	14.0	22.0 ±1.5	36.0	8.0	5.0	1.0	S43		
※ 820642	1.6	—	2.4	13.0	10.0	32.0 ±1.5	42.0	17.0	6.0	1.0	S32		
820731	1.5	2.0	3.0	18.5	17.0	14.0 ±1	31.0	22.5	7.5	1.0	S33		
※ 820836	2.0	—	3.0	22.0	9.5	26.5 ±1	36.0	26.0	8.0	0.8	S34		
※ 821030	1.5	2.0	3.0	14.0	15.0	15.0 ±1	30.0	22.0	10.0	1.0	S35		
※ 821033	1.5	—	2.0	19.0	18.0	15.0 ±1	33.0	26.0	10.0	1.0	S36		
※ 821035	1.5	2.0	3.0	18.5	20.0	15.0 ±1	35.0	22.5	10.0	1.0	S37		
※ 821037	1.5	2.0	3.0	18.5	23.0	14.0 ±1	37.0	22.5	10.0	1.0	S38		
821030-1	2.5	—	2.5	28.0	27.2	3.0 ±1	30.2	35.0	10.0	1.0	S39		
※ 821135	1.5	2.0	4.0	21.0	21.0	14.0 ±1	35.0	29.0	11.0	1.0	S40		
821237	1.5	2.0	3.0	19.0	23.0	14.0 ±1	37.0	25.0	12.0	1.0	S41		
※ 821525	2.5	—	3.0	16.0	20.0	5.0 ±1	25.0	25.0	15.0	0.8	S42		
※ 820534	1.5	2.0	3.0	15.0	19.0	15.0 ±1.5	34.0	20.5	5.5	1.0	S47		
※ 820633	1.5	2.0	3.0	14.5	18.0	15.0 ±1.5	33.0	21.0	6.5	1.0	S44		
821040	1.5	2.0	3.0	14.0	13.0	27.0 ±1	40.0	22.0	10.0	1.0	S45		
※ 821232	2.0	2.0	3.0	21.0	25.0	7.0 ±1	32.0	26.0	12.0	1.0	S46		

※ Order-made (Contact us for production volume.)

Tubular-type series Cat. No. 12

Part No.	Dimensions (mm)								ID No.	Packing unit (pieces)
	ϕd_1	ϕd_2	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)	$t^{+0.3}_{-0.2}$			
※ 832406	24.0	6.0	5	15.0	10	30	1.0	S61	500	
※ 832906	29.5	6.0	5	15.0	10	30	1.0	S62		
※ 833010	30.0	10.0	5	15.0	10	30	1.5	S63		
※ 833406	34.5	6.0	5	16.0	14	35	1.0	S64		
※ 833910	39.0	10.0	20	20.0	30	70	2.0	S65		
※ 836410	64.0	10.0	20	20.0	50	90	2.0	S66		
※ 837710	77.0	10.0	20	20.0	50	90	2.0	S67		

※ Order-made (Contact us for production volume.)

■ UL unrecognized



Fuse cover



Feature

- For protection and insulation of fuse.
- Holder type to cover the entire fuse on the P.C.B. (Fig. 1, 2)
- Excellent handling owing to wide entrance, and preventive from falling off owing to the constriction behind the mouth.
- Lead wire type to cover the metal cap and lead wire (Fig. 3)

Material

Soft PVC
 UL recognized material (E58538): SS107UFTT

Standard color

SS107UFTT: Blue Transparent (23)



UL recognized product E55167

Cat. No. 15, 19..... Rating: 105°C, 600V



CSA recognized product LR52853 • LR52854

Cat. No. 15, 19..... Rating: 105°C, 600V

Fig.1

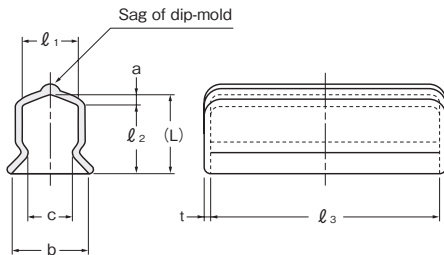


Fig.3

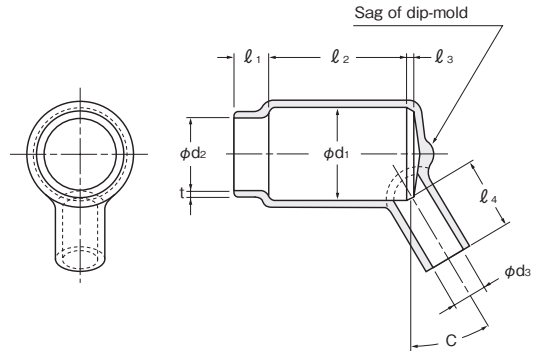
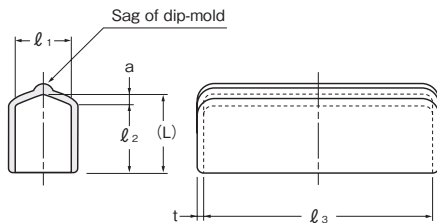


Fig.2



Cat. No. 19

Part No.	Dimensions (mm)								Fig.	Packing unit (pieces)
	l_1	$l_2 \pm 1$	l_3	(L)	a	b	c	$t \pm_{0.2}^{0.3}$		
845220A	5.2	8.5	21.5	10.0	1.5	6.2	3.8	1.0	1	1,000
846430A	6.4	10.0	32.5	11.5	1.5	7.4	5.0			
845220B	6.0	8.5	23.0	10.0	1.5	9.0	4.5			
846430B	8.0	10.0	32.5	11.5	1.5	11.0	6.5			
840522	6.0	10.0	22.0	11.5	1.5	8.0	5.0			
840620	6.0	10.0	20.0	11.5	1.5	—	—			
840622	6.0	8.0	22.5	10.0	2.0	—	—			
840730	7.0	10.0	30.0	12.0	2.0	—	—			
840832	8.0	14.1	32.0	15.5	1.5	—	—			
※ 840832-1	8.0	10.0	32.0	11.5	1.5	—	—			
840836	8.0	10.0	36.0	12.0	2.0	—	—	2		

※ Order-made (Contact us for production volume.)

Cat. No. 15

Part No.	Dimensions (mm)										Fig.	Packing unit (pieces)
	l_1	l_2	l_3	$l_4 \pm 1$	ϕd_1	ϕd_2	ϕd_3	$t \pm_{0.2}^{0.3}$	$C \pm 4^\circ$			
840610	3.0	7.0	0.5	10	7.0	6.0	1.5	0.8	23°	3	1,000	
※ 841210	5.0	20.0	2.0	10	13.5	10.5	5.0	1.0	30°			

※ Order-made (Contact us for production volume.)

■ UL unrecognized

Switch cover



INSULATION SLEEVE
FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT



Feature

- For protection of various switch and its lead wire connection from dust, moisture etc.
- Effective as a barrier against active electrical parts.

Material

Soft PVC
UL recognized material (E58538):
SS107UFTT

Standard color

SS107UFTT: Blue Transparent (23)

Fig.1

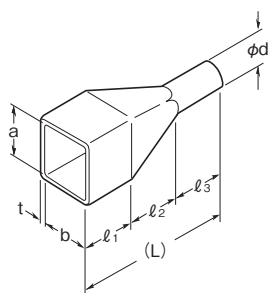
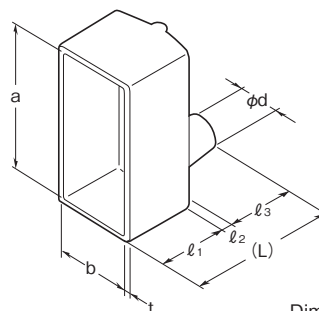


Fig.2



Dimensions are internal ones

Part No.	Dimensions (mm)									Fig.	Packing unit (pieces)
	a	b	ϕd	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)	$t^{+0.3}_{-0.2}$			
※ 718126	18.3	12.5	6.0	13.0	20.0	10.0	43.0	1.0	1	1,000	
※ 719115	19.0	11.5	5.9×3.4	10.0	9.0	10.0	29.0	$2.2^{+0.5}_{-0.3}$			
※ 719128	19.0	12.0	8.0	23.0	10.0	6.0	39.0	1.0			
※ 720138	20.5	13.0	8.5	10.0	20.0	35.0	65.0	1.0			
※ 721126	21.5	12.0	6.0	16.5	10.0	6.0	32.5	1.0			
※ 721128	21.5	12.0	8.5	10.0	10.0	9.0	29.0	1.0			
※ 721128-1	21.5	12.0	8.5	26.0	10.0	6.0	42.0	1.0			
※ 724125	24.0	12.0	5.0	18.0	10.0	10.0	38.0	1.2			
※ 724129	24.0	12.5	9.0	18.0	15.0	10.0	43.0	1.0			
※ 724247	24.0	24.0	7.0	30.0	20.0	3.0	53.0	1.2			
※ 725100	25.0	10.0	10.0	35.0	10.0	10.0	55.0	1.2	2	500	
※ 725147	25.0	14.4	7.0	13.0	2.0	15.0	30.0	1.2			
※ 725148	25.0	14.8	8.5	18.5	1.5	9.5	29.5	1.2			
※ 725186	25.0	18.5	6.0	21.0	15.0	15.0	51.0	$1.7^{+0.3}$			
※ 727125	27.0	12.5	5.0	15.0	10.0	10.0	35.0	1.0	1		
※ 727127	27.0	12.5	7.0	20.0	10.0	10.0	40.0	1.0			
※ 727206	27.5	20.5	6.8	25.0	20.0	15.0	60.0	1.3			
※ 734165	34.6	16.2	5.0	35.0	15.0	15.0	65.0	1.3			
※ 745239	45.0	23.0	9.0	20.0	3.0	12.0	35.0	1.2			
											2

※ Order-made (Contact us for production volume.)

Coupler cover



Feature

- Best suited for the protection of multi-electrode connector wire and cable from dust, moisture etc.
- Flexible and snug fitting to connectors, wire etc, also useful for bundling cable.

Material

Soft PVC

Standard material: SS108

UL recognized material (E58538): SS107UFTT (order-made)

SS107UFTC (order-made)

Standard color

SS108: Black (04)

Fig.1

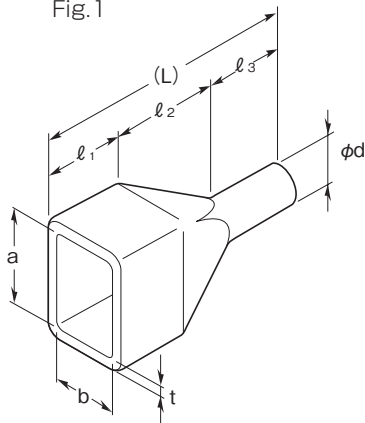


Fig.2

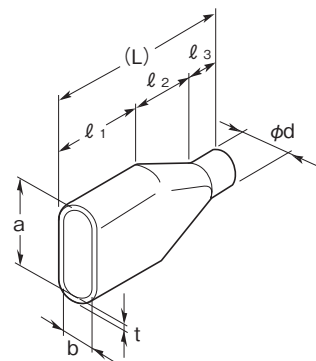


Fig.3

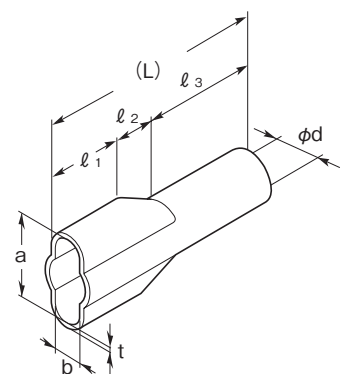


Fig.4

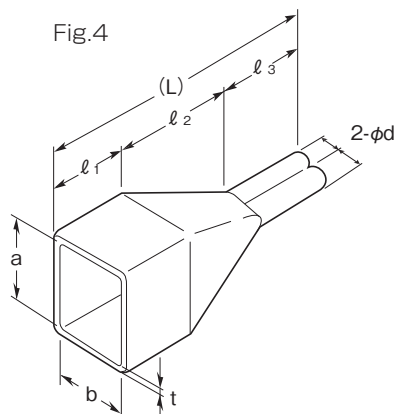
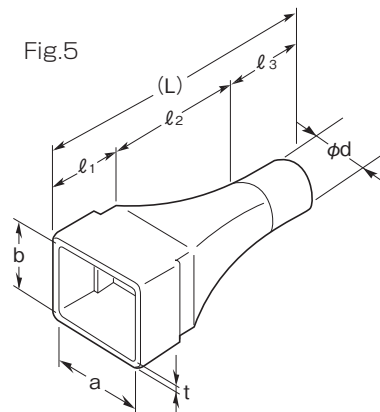


Fig.5



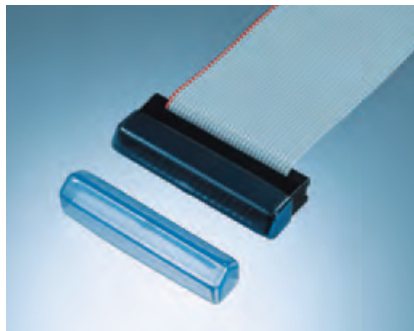
Dimensions are internal ones

Part No.	Dimensions (mm)									Fig.	ID No.	Packing unit (pieces)
	a	b	ϕd	$\ell_1 \pm 1$	ℓ_2	$\ell_3 \pm 1$	(L)	$t \pm 0.3$				
※ 510104	10.0	10.0	4.9	8.0	12.0	20.0	40.0	1.0	1	S1	1,000	
※ 511073	11.2	7.2	3.0	14.5	5.0	20.0	39.5	1.0				
※ 512083	12.0	8.0	3.0	20.0	5.0	10.0	35.0	1.0				
※ 512126	12.5	12.5	6.1	10.0	30.0	15.0	55.0	1.2				
※ 512127	12.5	12.5	7.0	9.0	10.0	10.0	29.0	1.1				
※ 512127-1	12.5	12.5	7.5	10.0	30.0	15.0	55.0	1.1				
※ 512089	12.6	8.8	9.0	10.0	30.0	10.0	50.0	1.0				
※ 513069	13.5	6.8	9.7	16.0	16.0	20.0	52.0	1.8				
※ 513083	13.5	8.6	3.0	22.0	5.0	20.0	47.0	1.0				
※ 513066	13.6	6.4	6.0	14.0	—	31.0	45.0	1.0				
※ 514118	14.0	11.0	8.5	15.0	8.0	22.0	45.0	1.0				
※ 514137	14.0	13.0	7.0	10.0	8.0	17.0	35.0	1.0				
※ 515094	15.4	9.0	4.8	32.0	4.0	10.0	46.0	1.0				
※ 515103	10.5	15.5	3.0	14.0	22.0	14.0	50.0	1.2	4	S14	1,000	
※ 516138	16.0	13.0	8.5	12.0	10.0	23.0	45.0	1.0	1	S15		
※ 516122	16.2	12.5	12.0	9.5	15.0	20.0	44.5	1.0		S16		
※ 517065	17.0	6.0	5.5	16.0	11.0	6.0	33.0	1.5	2	S17		
※ 517065-1	17.0	6.2	5.6	14.0	—	31.0	45.0	1.0		S18		
※ 517068	17.0	6.2	8.5	14.0	21.0	10.0	45.0	1.0	1	S19		
※ 517077	17.0	7.5	7.0	16.0	15.0	20.0	51.0	1.0		S20		
※ 517166	17.0	16.0	6.0	15.0	20.0	15.0	50.0	1.2	3	S21		
※ 518069	18.0	6.0	9.0	15.0	8.0	22.0	45.0	1.0		S22		
※ 518067	18.0	6.0	7.5	15.0	8.0	22.0	45.0	1.0	5	S23		
※ 518139	18.2	13.6	9.0	14.0	—	31.0	45.0	1.0		S24		
※ 519068	19.0	6.0	8.5	17.0	13.0	20.0	50.0	1.3	1	S25		
※ 519173	19.0	17.5	13.0	14.0	16.0	20.0	50.0	1.0		S26		
※ 519199	19.5	19.5	9.0	15.0	10.0	20.0	45.0	1.0		S27		
※ 520077	20.0	7.5	7.0	11.0	15.0	24.0	50.0	1.5	2	S28	1,000	
※ 520128	20.0	12.5	8.5	10.0	30.0	15.0	55.0	1.2	1	S29	500	
※ 520120-1	20.0	12.5	10.0	10.0	15.0	8.0	33.0	1.2		S30		
※ 520123	20.0	12.5	13.5	9.5	15.0	20.0	44.5	1.0		S31		
※ 520120	20.0	12.5	10.0	10.0	30.0	15.0	55.0	1.2	4	S32	1,000	
※ 520166	16.0	20.0	6.0	15.0	20.0	15.0	50.0	1.2		S33	500	
※ 520126	20.5	12.0	6.0	8.0	17.0	10.0	35.0	1.0	2	S34	1,000	
※ 521095	21.0	9.0	5.5	32.0	5.0	10.0	47.0	1.0	1	—		
※ 521156	21.0	15.0	6.0	15.0	15.0	15.0	45.0	1.3		S36		
※ 521201	21.5	20.0	11.5	30.0	20.0	40.0	90.0	1.1		S37	250	
※ 522060	22.0	6.0	10.5	16.0	11.0	18.0	45.0	1.0	2	S38	1,000	
※ 522067	22.0	6.2	7.0	14.0	—	31.0	45.0	1.0		S39		
※ 522067-1	22.0	6.2	7.6	14.0	—	31.0	45.0	1.1		S40		
※ 522068	22.0	6.0	8.0	16.0	11.0	18.0	45.0	1.0		S41		
※ 522078	22.0	7.0	8.0	14.0	21.0	10.0	45.0	1.2		S42		
※ 522136	22.0	13.0	6.5	20.0	40.0	20.0	80.0	1.0		1		S43
※ 522150	22.5	15.5	10.5	10.0	15.0	10.0	35.0	1.0	S44		1,000	
※ 523169	23.0	16.0	9.0	17.0	13.0	10.0	40.0	1.7	5	S45	500	
※ 525197	25.6	19.0	7.2	10.0	35.0	20.0	65.0	1.2		S46		
※ 526077	26.0	7.5	7.0	11.0	15.0	24.0	50.0	1.5	2	S47	1,000	
※ 526078	26.0	7.5	8.0	12.0	15.0	23.0	50.0	1.5	1	S48		
※ 527163	27.0	16.0	13.0	18.0	17.0	10.0	45.0	1.0		S49	500	
※ 527195	27.0	19.0	5.0	30.0	5.0	10.0	45.0	1.0		5	S50	1,000
※ 528117	28.0	11.0	7.0	14.0	12.0	18.0	44.0	1.0	S51			
※ 528217	28.2	21.6	7.2	10.0	35.0	20.0	65.0	1.2	5	S52	500	
※ 528083	28.2	8.2	13.0	12.0	15.0	15.0	42.0	1.0		S53		
※ 529216	29.0	21.0	6.0	25.0	15.0	10.0	50.0	1.2	1	S54	1,000	
※ 530206	30.0	20.0	6.0	18.0	7.0	8.0	33.0	1.0		S55		
※ 531186	31.0	18.0	6.0	35.0	5.0	10.0	50.0	1.0		1		S56
※ 532129	32.0	12.0	9.2	7.0	13.0	30.0	50.0	1.0	S57		500	
※ 532201	32.0	20.0	11.0	24.0	22.0	10.0	56.0	1.3	S58		250	
※ 533110	33.0	11.0	10.2	16.5	17.0	15.5	49.0	1.2	5		S59	500
※ 535120	35.0	12.0	10.0	7.0	13.0	30.0	50.0	1.0			S60	
※ 500258	100.0	25.0	8.0	40.0	10.0	20.0	70.0	1.2			S61	100

※ Order-made (Contact us for production volume.)

Dust cover

DC series



Feature

- For protection of connectors from dust, moisture etc prior to the installation.
- Best suited at a time of transport and storage.

Material

Soft PVC
 Standard material: SS108
 UL recognized material (E58538): SS107UFTT

Standard color

SS107UFTT: Blue Transparent (23)



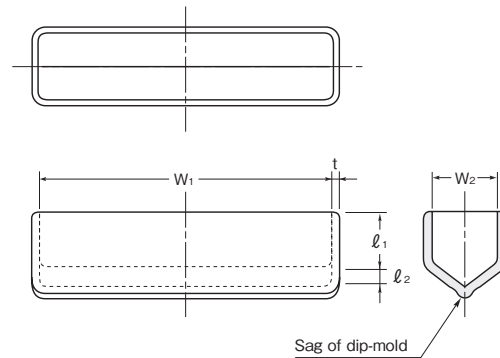
UL recognized product E55167

Cat. No. 19..... Rating: 105°C, 600V



CSA recognized product LR52853 • LR52854

Cat. No. 19..... Rating: 105°C, 600V



Part No.	Dimensions (mm)					Packing unit (pieces)
	W ₁	W ₂	l ₁ ± 1	l ₂	t ± _{0.2} ^{0.3}	
※ ■ DC-1204	12.0	4.5	8.0	0.7	1.0	1,000
※ ■ DC-1306	13.7	6.0	5.0	2.0	1.0	
※ Ⓢ DC-1504	15.6	4.5	5.5	2.0	1.0	
※ Ⓢ DC-2006	20.0	6.0	11.0	1.5	1.0	
※ Ⓢ DC-2013	20.0	13.0	8.5	3.0	1.0	
※ Ⓢ DC-2508	25.0	8.5	10.5	1.5	1.0	
※ Ⓢ DC-2520	25.0	20.0	8.5	3.0	1.0	
※ Ⓢ DC-2716	27.0	16.0	10.0	2.0	1.2	
※ ■ DC-3025	30.0	25.0	10.5	2.5	1.2	
※ Ⓢ DC-3605	36.0	5.0	6.0	1.0	1.0	
※ ■ DC-4007	40.0	7.0	31.0	2.0	1.0	
※ Ⓢ DC-4103	41.4	3.0	6.4	2.0	1.0	
※ Ⓢ DC-4114	41.0	14.0	22.0	2.0	1.0	
※ Ⓢ DC-4304	43.0	4.9	6.0	1.0	1.0	
※ Ⓢ DC-4308	43.5	8.0	6.6	1.0	1.0	
※ Ⓢ DC-4317	43.0	17.5	10.0	3.0	1.0	
※ Ⓢ DC-4416	44.0	16.8	22.0	2.5	1.2	
※ ■ DC-4807	48.0	7.0	31.0	2.0	1.0	
※ Ⓢ DC-4819	48.0	19.0	14.0	3.0	1.0	
※ ■ DC-5222	52.5	22.0	20.0	3.0	1.0	
※ DC-5312	53.7	12.5	9.5	1.5	1.0	
※ DC-5410	54.3	10.0	8.0	3.0	1.0	
※ DC-6110	61.3	10.5	4.3	1.0	1.0	
※ ■ DC-6307	63.0	7.0	31.0	2.0	1.0	
※ DC-6405	64.5	5.9	10.5	1.0	1.0	
※ ■ DC-6522	65.0	22.0	13.0	2.0	1.2	
※ DC-7106	71.5	6.0	6.0	1.5	1.0	
※ ■ DC-7225	72.0	25.0	25.0	2.0	1.5	
※ DC-7310	73.2	10.8	8.7	1.5	1.0	
※ ■ DC-7342	73.0	42.0	25.0	3.0	1.5	
※ ■ DC-7921	79.4	21.4	9.0	1.5	1.0	
※ DC-8009	80.6	9.0	5.0	1.5	1.0	
※ DC-8506	85.0	6.0	6.0	1.5	1.0	
※ DC-8608	86.0	8.0	7.0	1.5	1.0	
※ DC-9012	90.0	12.5	10.0	2.0	1.0	
※ DC-9020	90.0	20.0	14.0	3.0	1.0	
※ DC-9310	93.6	10.8	10.2	1.5	1.0	
※ ■ DC-1161	116.0	11.7	5.0	1.5	1.0	

※ Order-made (Contact us for production volume.)

Ⓢ CSA unrecognized product

■ UL unrecognized

INSULATION SLEEVE FOR TERMINAL

CIRCUIT BOARD ACCESSORY

WIRING CLAMP

WIRING PROTECTOR

FASTENER

DIP-MOLDED PRODUCT

Dust cover (for D-sub)

P/R series



Feature

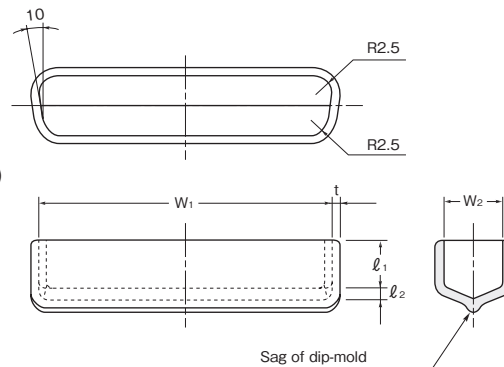
- For protection of D-type sub miniature connector from dust, moisture etc prior to installation.

Material

Soft PVC
UL recognized material
(E58538): SS107UFTT

Standard color

SS107UFTT: Blue Transparent (23)



UL recognized product E55167

Cat. No. 19..... Rating: 105°C, 600V



CSA recognized product LR52853 • LR52854

Cat. No. 19..... Rating: 105°C, 600V

Part No.	Dimensions (mm)					Packing unit (pieces)
	W ₁	W ₂	l ₁ ± 1	l ₂	t ± _{-0.2} ^{0.3}	
Ⓢ P- 9P	16.4	7.8	6.2	1.5	1.0	1,000
Ⓢ P-15P	24.6	7.8	6.2			
Ⓢ P-25P	38.3	7.8	6.2			
※ P-37P	54.8	7.8	6.2	2.0		
※ P-50P	52.4	10.6	6.2			
Ⓢ R- 9P	17.7	9.2	6.0	2.0		
Ⓢ R-15P	26.0	9.2	6.0			
Ⓢ R-25P	40.0	9.4	5.9			
※ R-37P	56.7	9.6	5.9			
※ R-50P	54.0	12.3	5.9			

※ Order-made (Contact us for production volume.)

Ⓢ CSA recognized product

Flat cable cover



Feature

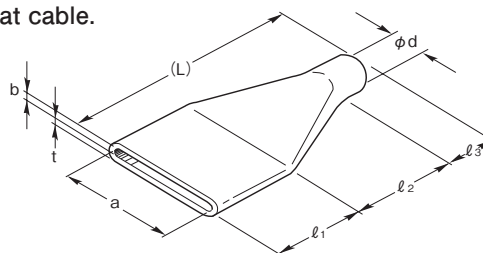
- For protection and bundling of flat cable.
- Flexible and snug fitting to flat cable.

Material

Soft PVC
Standard material: SS108

Standard color

SS108: Black (04)



Part No.	Dimensions (mm)							Packing unit (pieces)
	a	b	φ d	l ₁ ± 1	l ₂	l ₃	(L)	
※ 612157	12.0	1.5	7.5	8	25.0	23.0	56	1,000
※ 626039	26.0	2.5	10.2	10	14.0	10.0	34	
※ 633018	33.0	1.1	8.7	18	32.0	15.0	65	
※ 638019	38.5	1.0	9.0	20	24.0	15.0	59	
※ 638013	38.5	1.0	13.0	30	17.0	15.0	62	
※ 642021	42.0	2.5	11.5	10	31.0	24.0	65	
※ 643019	43.0	1.1	9.7	18	22.0	15.0	55	500
※ 651023	51.0	2.5	13.0	25	10.0	15.0	50	
※ 654011	54.0	1.3	11.2	24	32.0	15.0	71	
※ 663025	63.5	2.5	15.0	25	10.0	15.0	50	
※ 664012	64.0	1.3	12.2	24	32.0	15.0	71	
※ 674025	74.5	2.5	15.5	25	15.0	15.0	55	

※ Order-made (Contact us for production volume.)



Insulation cover for bus bar

IC/BS series

Feature

- Insulation cover for bus bar connecting points.
- IC series fits I-shaped, L-shaped and T-shaped bus bar connecting points.

Material

Soft PVC
 UL recognized material (E58538):
 SS107UFTC

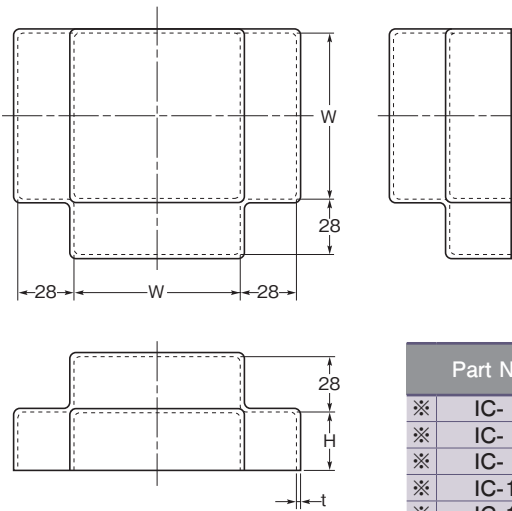
Standard color

SS107UFTC: Black (04)



Example of bus bar cover

IC series

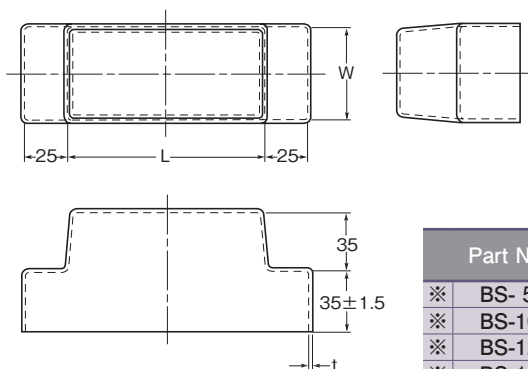


Part No.	Dimensions (mm)			ID No.
	W	H ± 1.5	t ± 0.5	
※ IC- 30	34	10	2.0	S6
※ IC- 50	54	10		S1
※ IC- 75	84	30		S2
※ IC-100	104	30		S3
※ IC-150	154	30		S4
※ IC-200	204	30		S5

(Dimensions are internal ones)

※ Order-made (Contact us for production volume.)

BS series



Part No.	Dimensions (mm)			ID No.
	W	L	t ± 0.5	
※ BS- 50B	54	115	2.0	S25
※ BS-100B	104	205		S21
※ BS-125B	129	255		S22
※ BS-150B	154	305		S23
※ BS-200B	204	405		S24

(Dimensions are internal ones)

※ Order-made (Contact us for production volume.)

Shield cap



Feature

- Insulation cap that spread the core wire into shield wire.
- No need for heat shrinking.
- Available in straight type and two-pronged type.

Material

Soft PVC

Standard material: SS108

UL recognized material (E58538): SS107UFTC

Standard color

Straight type SS108: Black (04), transparent (09)

 SS107UFTT: Blue transparent (23)

Two-pronged type SS108: Transparent (09)

 SS107UFTT: Blue transparent (23)



UL recognized product **E55167**

Cat. No. 2, 6 (Straight type)

 4, 8 (Two-pronged type)

SS107UFTT..... Rating: 105°C, 300V



CSA recognized product **LR52853 • LR52854**

Cat. No. 2, 6 (Straight type)

 4, 8 (Two-pronged type)

SS107UFTT..... Rating: 105°C, 300V

Straight type



Fig.1

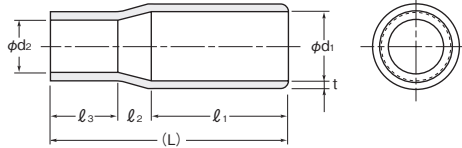
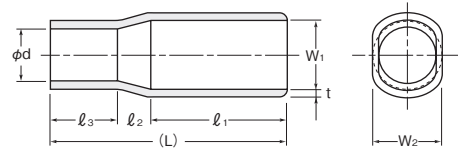


Fig.2



Cat. No. 2

Part No.	Dimensions (mm)							Fig.	Packing unit (pieces)
	ϕd_1	ϕd_2	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)	$t^{+0.3}_{-0.2}$		
■ 312309	2.3	0.8	6.0	2.0	4.0	12	0.6	1	1,000
■ 312314	2.3	1.4	7.0	2.0	11.0	20			
■ 312715	2.7	1.5	8.5	0.5	2.0	11			
■ 313015	3.0	1.5	11.0	1.0	3.0	15			
■ 313020	3.0	2.0	10.0	1.0	3.0	14			
■ 313314	3.3	1.4	11.0	1.0	5.0	17	0.8		
■ 313320	3.3	2.0	7.0	2.0	11.0	20			
■ 313525	3.5	2.5	8.0	2.0	3.0	13			
■ 314420	4.4	2.0	13.0	3.0	6.0	22			
■ 314428	4.4	2.8	14.0	1.0	6.0	21			
■ 315131	5.1	3.1	10.0	1.0	4.0	15	1.0		
■ 315228	5.2	2.8	14.0	1.0	6.0	21			
※ ■ 315242	5.2	4.2	20.0	1.0	14.0	35			
■ 315530	5.5	3.0	12.0	1.0	2.0	15			
■ 316228	6.2	2.8	15.0	2.0	7.0	24			
■ 317045	7.0	4.5	13.0	1.5	2.5	17	1.0		
■ 317240	7.2	4.0	16.0	1.0	8.0	25			
■ 318665	8.6	6.5	20.0	2.0	13.0	35			

※ Order-made (Contact us for production volume.)

■ UL/CSA unrecognized

Cat. No. 6

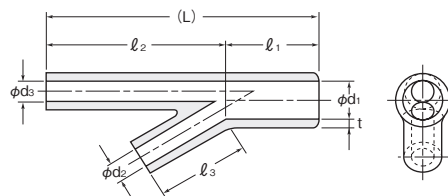
Part No.	Dimensions (mm)							Fig.	Packing unit (pieces)	
	W_1	W_2	ϕd	$l_1 \pm 1$	l_2	$l_3 \pm 1$	(L)			$t^{+0.3}_{-0.2}$
■ 322315	2.3	1.5	1.5	8	1.0	3	12	0.6	2	1,000
※ ■ 322418	2.4	2.0	1.8	10	2.0	3	15	0.6		
■ 323215	3.2	2.4	1.5	8	2.0	5		0.8		
※ ■ 324020-1	4.0	2.1	2.0	10	2.0	3		0.6		
※ ■ 324020	4.0	2.3	2.0	10	2.0	3		0.8		
※ ■ 324125	4.1	2.4	2.5	8	2.0	5		0.8		
■ 324332	4.3	3.7	3.2	8	2.0	5		0.8		

※ Order-made (Contact us for production volume.)

Two-pronged type



Fig.3



Cat. No. 4

Part No.	Dimensions (mm)							Fig.	Packing unit (pieces)	
	ϕd_1	ϕd_2	ϕd_3	$l_1 \pm 1$	$l_2 \pm 1$	$l_3 \pm 1.5$	(L)			$t^{+0.3}_{-0.2}$
■ 334525	4.5	2.5	1.5	10	30	10.0	40	0.8	3	1,000
■ 335032	5.0	3.2	1.5	20	15	15.0	35	1.0		
■ 335530	5.5	3.0	3.0	13	15	12.0	28			
■ 335830	5.8	3.0	3.0	20	40	40.0	60			
■ 336235	6.2	3.5	2.5	15	30	15.0	45			
※ ■ 339030	9.0	3.0	3.0	13	15	12.0	28			

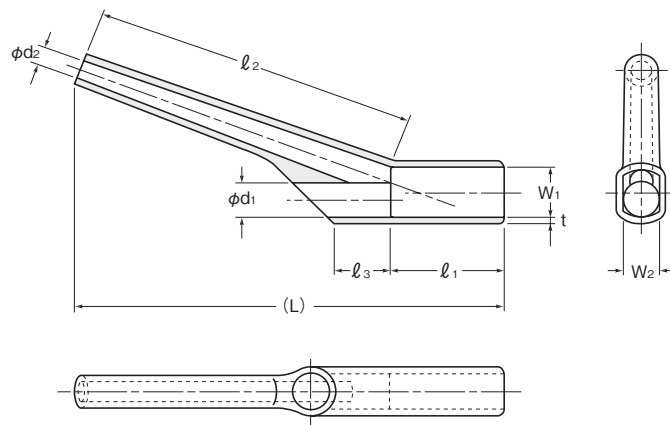
※ Order-made (Contact us for production volume.)

INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY
WIRING CLAMP
WIRING PROTECTOR
FASTENER
DIP-MOLDED PRODUCT



Two-pronged type

Fig.4



Cat. No. 8

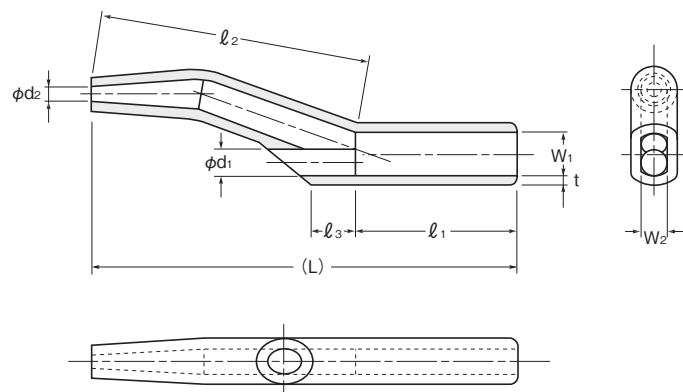
Part No.	Dimensions (mm)									Fig.	Packing unit (pieces)
	W ₁	W ₂	φ d ₁	φ d ₂	l ₁ ± 1	l ₂ ± 1	l ₃ ± 1.5	(L)	t ^{+0.3} _{-0.2}		
342316	2.3	1.6	1.6	1.5	7	30	3.0	37	0.6	4	1,000
※ 342618	2.6	1.8	1.8	1.5	10	25	4.0	35			
※ 342615	2.6	2.0	1.5	1.5	10	30	5.0	40			
※ 343218	3.2	2.3	1.8	1.3	10	30	10.0	40			
※ 343220	3.2	2.3	2.0	1.4	10	30	7.0	40	0.8		
343120	3.1	2.0	2.0	2.0	7	30	4.0	37			
※ 343215	3.2	2.4	1.5	1.5	8	32	4.0	40			
※ 343525	3.5	2.5	2.5	2.0	12	30	8.0	42			
※ 343525-1	3.5	2.5	2.5	1.5	10	30	8.0	40			
※ 344023	4.0	2.3	2.3	1.5	10	25	4.0	35			
344125	4.1	2.4	2.5	1.5	8	30	6.0	38			
344325	4.3	3.7	2.5	1.5	8	32	4.0	40			

※ Order-made (Contact us for production volume.)

Two-pronged type For housing



Fig.5



Cat. No. 8

Part No.	Dimensions (mm)									Fig.	Packing unit (pieces)
	W ₁	W ₂	φ d ₁	φ d ₂	l ₁ ± 1	l ₂ ± 1	l ₃ ± 1.5	(L)	t ^{+0.3} _{-0.2}		
※ 352313	2.3	1.8	1.3	0.7	8	15	3.5	23	0.6	5	1,000
※ 352417	2.4	2.0	1.7	0.8	10	15	3.5	25			
※ 352417-1	2.4	2.0	1.7	0.8	10	20	3.5	30			
※ 352417-2	2.4	2.0	1.7	0.8	10	25	3.5	35			
※ 352417-3	2.4	2.0	1.7	0.8	10	30	3.5	40			
※ 354023	4.0	2.1	2.3	0.8	10	20	3.5	30			
※ 354023-1	4.0	2.1	2.3	0.8	10	25	3.5	35			
■ 354023-2	4.0	2.1	2.3	0.5	10	30	3.5	40			

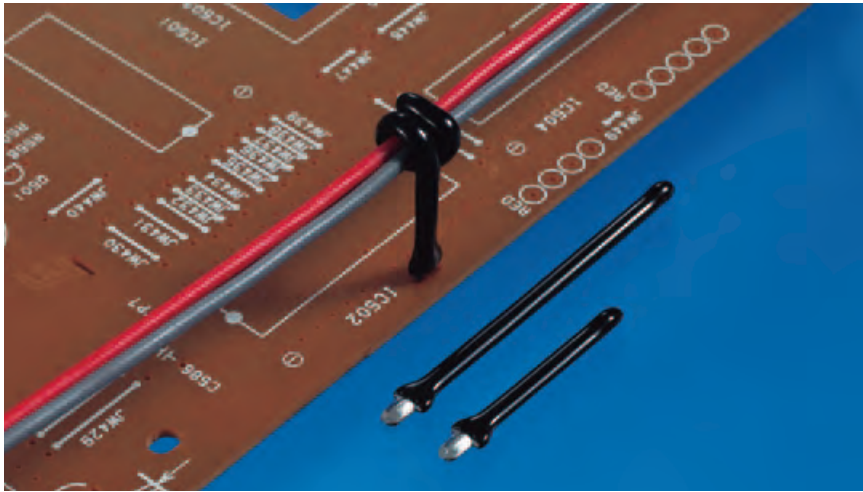
※ Order-made (Contact us for production volume.)

■ UL/CSA unrecognized



Coated clip

CP series



Feature

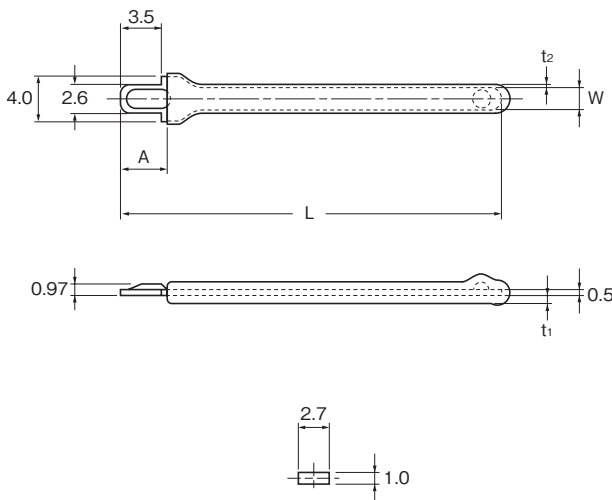
- Insulated clip, coated with the soft PVC, are best suited for fixing small wiring on P.C. Board.
- Secure the wire at the desired position.
- Clip's projection at the bottom prevent from tipping during soldering process.
- Can be secured by soldering at the same time as the other board components.

Material

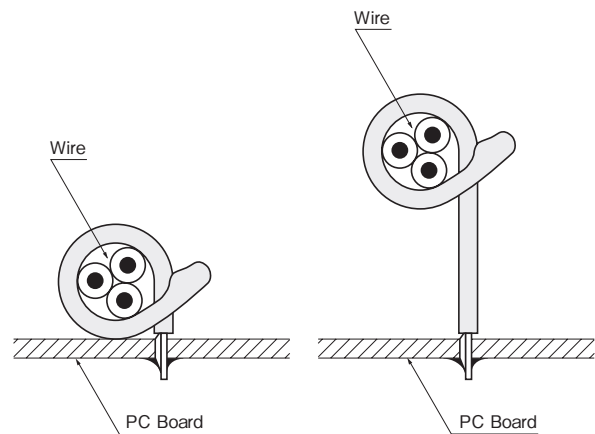
Tin-plated steel sheet: $t = 0.5$ mm
 Soft PVC
 UL recognized material (E58538):
 SS107UFTT

Standard color

Black (34)



Mounting dimensions



Part No.	Dimensions (mm)					Packing unit (pieces)
	$A_{-0.5}^{+1}$	W	L	$t_1_{-0.2}^{+0.4}$	t_2	
CP-1S	4	2.0	50	0.7	0.2 or more	500
CP-2S			30			

● Mounting hole: 1.0 × 2.7 (Square hole)

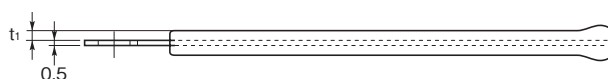
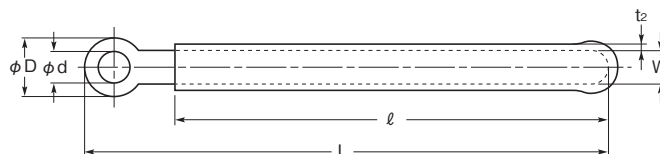
INSULATION SLEEVE FOR TERMINAL
CIRCUIT BOARD ACCESSORY
WIRING CLAMP
WIRING PROTECTOR
FASTENER
DIP-MOLDED PRODUCT

Coated clip CS series



Feature

- Insulated clip, coated with the soft PVC, are best suited for fixing small wiring on P.C. Board.
- Secure the wire at the desired position.
- Shall be secured with screw.



Material

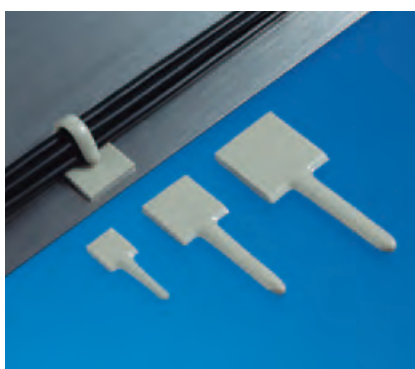
Chrome-free galvanized steel sheet:
t = 0.5 mm
Soft PVC
Standard material: SS108
UL recognized material (E58538):
SS107UFTT

Standard color

SS108: Black (04)
SS107UFTT: Black (34)

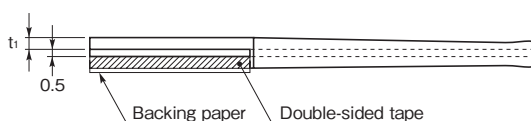
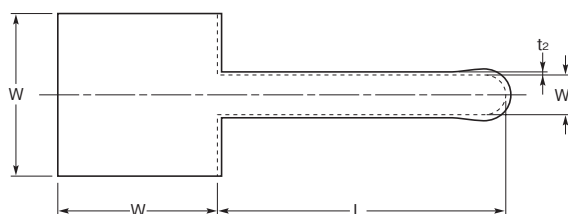
Part No.		Dimensions (mm)							Packing unit (pieces)
Standard material	Material	ϕD	ϕd	W	l	L	$t_1 \pm 0.5$	t_2	
CS-1	CS-1U	6.0	3.3	3.5	45	54	1.0	2.0 or more	500
CS-2	CS-2U	8.0	3.3	3.5	30	41			
CS-3	CS-3U	8.0	3.3	3.5	45	56			
CS-4	CS-4U	8.0	3.3	4.5	55	66			
CS-5	CS-5U	8.0	4.4	4.5	45	56			
CS-6	CS-6U	8.0	4.4	4.5	55	66			
CS-7	CS-7U	8.0	4.4	4.5	65	76			
CS-8	CS-8U	8.0	3.3	3.0	49	60			
CS-9	CS-9U	8.0	3.5	5.0	22.5	34.5			

Coated clip CA series



Feature

- Insulated clip, coated with the soft PVC, are best suited for fixing small wiring on P.C. Board.
- Secure the wire at the desired position.
- Come with double-sided tape.



Material

Chrome-free galvanized steel sheet:
t = 0.5 mm
Soft PVC: SS108 Flame-retardant

Standard color

Ivory

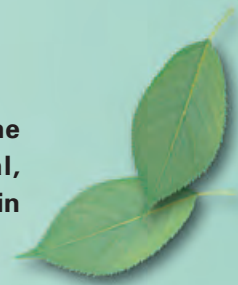
Part No.	Dimensions (mm)					Packing unit (pieces)
	W	W ₁	L	$t_1 \pm 0.5$	t_2	
CA- 8	8.0	2.1	15	1.0	0.2 or more	100×10=1000
CA-14	14.0	3.5	25			50×10=500
CA-19	19.0	4.0	30			50×10=500

Reference P120

Please refer to the "Cautions concerning the use of product with the double-sided tape."

Introduction of PB-free product.

Based on our policy "environmental friendly", we have newly developed the soft acrylic resin sol compound. This acrylic sol is halogen free material, recognized by UL (UL94V-0), has been highly evaluated as PB-free material in the market.

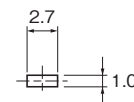
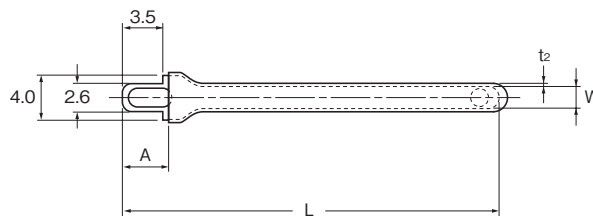


Coated clip CP-SA series



Feature

- Insulated clip, coated with newly developed acrylic sol, are best suited for fixing small wiring.
- Can be secured by soldering at the same time as the other board components.



Mounting dimensions



Material

Tin-plated steel sheet: $t = 0.5$ mm
Soft Acrylic
UL recognized material (E58538):
Envaplus SD-C3

Standard color

Blue

Part No.	Dimensions (mm)					Packing unit (pieces)
	$A \pm 0.5$	W	L	$t_1 \pm 0.4$	t_2	
CP-1SA	4	2.0	50	0.7	0.2 or more	500
CP-2SA			30			

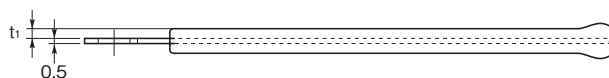
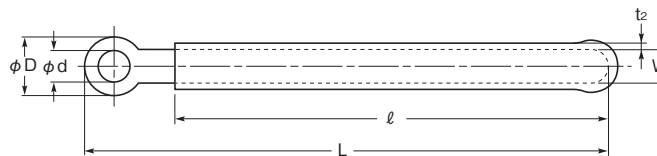
● Mounting hole: 1.0×2.7 (Square hole)

Coated clip CS-A series



Feature

- Insulated clip, coated with newly developed acrylic sol, are best suited for fixing small wiring.
- Can be secured with screw.



Material

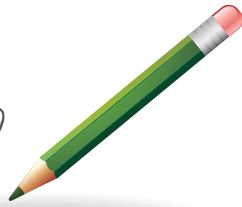
Chrome-free galvanized steel sheet:
 $t = 0.5$ mm
Soft Acrylic
UL recognized material (E58538):
Envaplus SD-C3

Standard color

Blue

Part No.	Dimensions (mm)						Packing unit (pieces)	
	ϕD	ϕd	W	l	L	$t_1 \pm 0.5$		
CS-1A	6.0	3.3	3.5	45	54	1.0	0.2 or more	500
CS-2A	8.0	3.3	3.5	30	41			
CS-5A	8.0	4.4	4.5	45	56			
CS-6A	8.0	4.4	4.5	55	66			
CS-7A	8.0	4.4	4.5	65	76			

Memo



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Cautions concerning the use of nylon product

- We have hygroscopically treated our nylon product so that you can use them at their optimum performance levels. After fitting is completed, seal the polythene bags and make sure that the product do not dry out.
- If stored at temperatures below freezing point (during winter, etc.) warm the product to about 20°C for a period of 2 hours before using.



Cautions concerning the use of product that have double-sided adhesive tape

Observe the following procedure to optimize the adhesive ability of double-sided tape.

- Be sure to remove all traces of oil, dust, water, etc. from the place where you will apply the adhesive tape.
- Do not use on a rough surface.
- Peel off the backing paper, then apply the adhesive surface to the point of application and press down firmly.
- To maximize tape adhesion, apply at room temperatures.
- Avoid exposure to direct sunlight, and store in a cool, dark place. (In the case of nylon product with double-sided tape, seal tightly in polythene bags and store.)
- Do not use product that have been pulled off after being previously stuck down.

List of product that use double-sided adhesive tape

Product name	Page
Easy lock: EB series	48 · 49
Cord hook	49
Patch-pull®: PA series	50
Patch-pull®: PJ series	52
Mini wire saddle	57
Just-fit clamp	58
Wire fixer	58
Wire clamp	59
Pitak®	62
Flaclip: A-1/A-2/A-2N	63
Flaclip: B-3T/B-4T	64
Flaclip: D type	65
ANP base	66
Coated clip: CA series	117

- The product listed in this catalog are subject to change in specifications to enhance performance (materials, dimensions, appearance, etc.) without prior notice.
- If any points concerning the use, conditions for application, etc., of these product, please contact us.

Product code index

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A		
A ~	A band	67
A ~	Flaclip	63
ANP ~	ANP base	66
B		
B ~	Mini belt	67
B ~	Flaclip	64
BC ~	Buckle	68
BS ~	Insulated cover for bus bar	112
BWS ~	Wire saddle	44
C		
C ~	Mini belt	67
C ~	Flaclip	65
CA ~	Coated clip	117
CDP ~	Corrugated tubing	78, 79
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EHS ~	Edge holder	73
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ELS ~	Edge look spacer	27
EO ~	Edging	76
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ETC ~	Earth terminal cap	101
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HC ~	Harness clip	57
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J		
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KU ~	Clippul	52
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LK-36 ~	LED spacer	34
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Part No. Alphabetical code	Product name	Page
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M		
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NB ~	One-touch collar bush	30
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NS ~	Non-screw spacer	28
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PG ~	Pitak	62
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SBW ~	Snap-collar bush	29
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SFT ~	Cable tie-holder	66
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SHCBS ~	Circuit board spacer	24
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Product code index

Part No.	Product name	Page
Alphabetical code		

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25 □□□□~	Connector sleeve For flag-type receptacles (post-fit)	97
31 □□□□~	Shield cap Straight type	114

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33 □□□□~	Shield cap Two-pronged type	114
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53 □□□□~	Coupler cover	108, 109
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62 □□□□~	Cover for flat cable	111
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64 □□□□~	Cover for flat cable	111
65 □□□□~	Cover for flat cable	111
66 □□□□~	Cover for flat cable	111
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71 □□□□~	Switch cover	107
72 □□□□~	Switch cover	107
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82 □□□□~	Capacitor cover Square-type	105
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84 □□□□~	Fuse cover	106
85 □□□□~	Capacitor cover Post-fit-type	104

Table of registration with and recognition by industrial standard

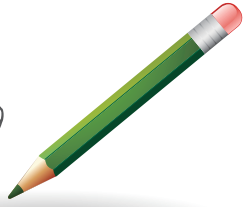
Product that comply with UL standards	
UL File No. E55167 VW-1	Rating 105°C 600 V
● Connector sleeve	DS series DS-P series DF series
UL File. No.E55167	Rating 105°C 600 V
● One-touch sleeve	OS-U series OF-U series PS-U series PF-U series FPS-U series
● Connector sleeve For SURE plug For SURE receptacle For straight-type receptacle For flag-type receptacle	5-mm diameter series 5-mm diameter series 110/187 series 205/250/00 series 110/187 series 205/250 series
● TCV cap	TCV series
● TCV cap	TCM series
● VCP cap	VCP series
● Capacitor cover	Round-type/post-fit-type series Square-type/tubular-type series
● Fuse cover	
● Dust cover (for D-sub)	DC series Plug-type/receptacle-type
UL File. No.E55167	Rating 105°C 300 V
● Shield cap	Straight type Two-pronged type
UL File. No.E55167	Rating 80°C 600 V
● One-touch sleeve	OS series OF series PF series
UL File. No.E108566 VW-1	
● SF tubing	SF-U series
● Wire saddle	WS-U series WWS-2U
● Edge holder	EH-U series
UL File. No.E191920	Rating 85°C
● Wire saddle	WS series/WWS-2 LWS/LWS-U series PLWS/PLWS-U series PLWS-RT/PLWS-RTU series
● Rod clip	RC series
● Nylon clip	SL-N series
● Edge holder	EH series EHS series EHP-6U LT/LT-U series
UL File. No.E191920	Rating 80°C
● Patchpul	PL-10
● Harness clip	HC-6 series
● Flaclip	B-S series
UL File. No.E191920	Rating 65°C
● Patchpul	PL-20/30
● Twist clip	TC-2006
● Edge holder	EHS-11

Product that comply with CSA standards	
CSA File. No.LR85820	Rating: 105°C 600 V
● Connector sleeve	DS series DS-P series DF series
CSA File. No.LR52853 · 52854	Rating: 105°C 600 V
● Connector sleeve For straight-type receptacle For flag-type receptacle	110/187 series 205/250 series 110/187 series 205/250 series
● Capacitor cover	Round-type/post-fit-type series Square-type/tubular-type series
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● Dust cover	DS series
● Dust cover For D-Sab	P/R series
CSA File. No.LR52853 · 52854	Rating: 105°C 300 V
● VCC cap (SS107UFTC)	VCC series
● VCP cap (SS107UFTC)	VCP series
● Stud cover	SC series
● Shield cap	Straight/Two-pronged type
CSA File. No.LR52853 · 52854	Rating: 90°C 600 V
● Connector sleeve (SS107UFTT) For plug For receptacle	5-mm diameter series 5-mm diameter series
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● VCP cap (SS107UFTT)	VCP series
CSA File. No.LR85455 FT-1	
● SF tubing	SF-U series

Materials that comply with UL standards	
UL File. No.E58538 94V-0 (all colors)	
● SS107UFTT	
● SS107UFTC	
● SS107UF	
● S-Flex E-0/E-10/E-20	
● Envaplus SD	

Registrations	
The Japan Electrical Appliance and Material Control Law (Registered for testing to confirm the upper limit for the resistance of an organic insulating compound.)	
042GAC0394	SS107UFTC (all colors) 100°C
042GAC0435	SS107UFTT (all colors) 105°C

Memo



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About us

- **Registered name:**
SHINAGAWA SHOKO CO., LTD.
- **President:**
Rie Nakamura
- **Establishment:**
July 13, 1959
- **Capital:**
24 million yen (owned capital: 3.4 billion yen)
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Factory, Product distribution center
- **Trading banks:**
Bank of Tokyo-mitsubishi Gotanda Branch
Mizuho Bank, Gotanda Branch



WIRING ACCESSORY CATALOG

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Products listed in this catalog may be changed without advance notice for improvements to performance.

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