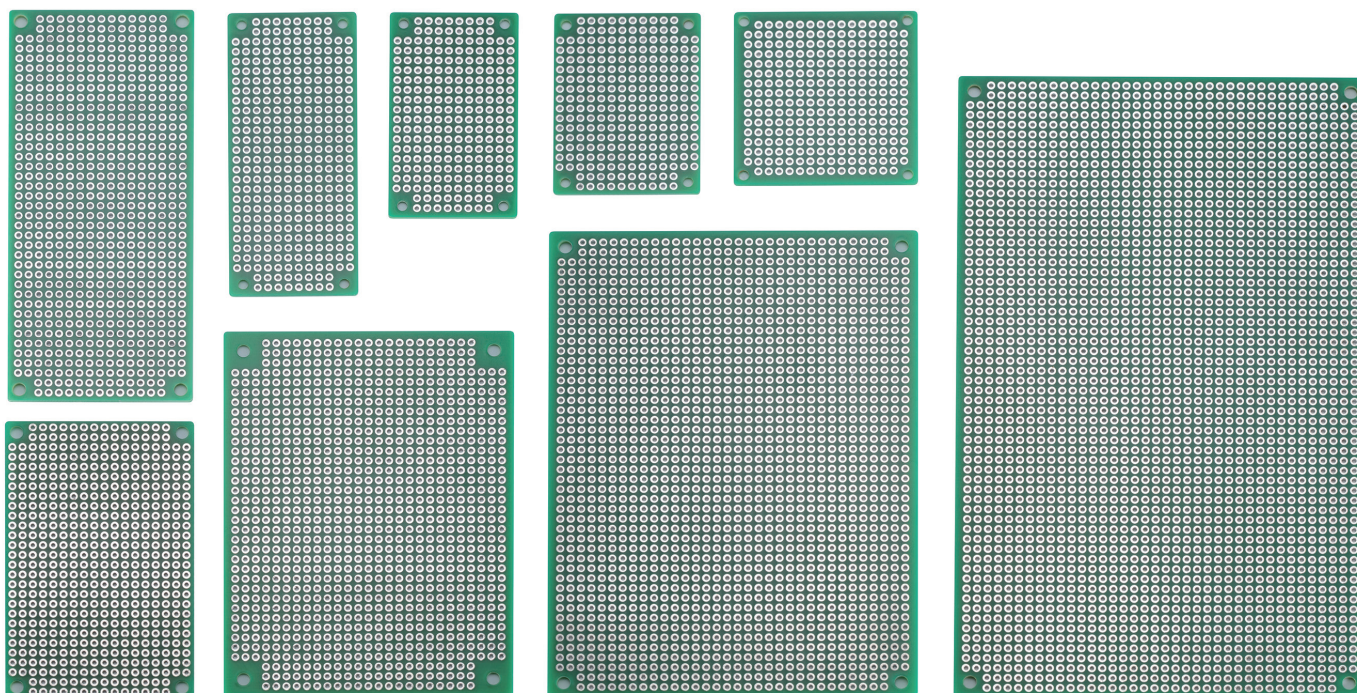
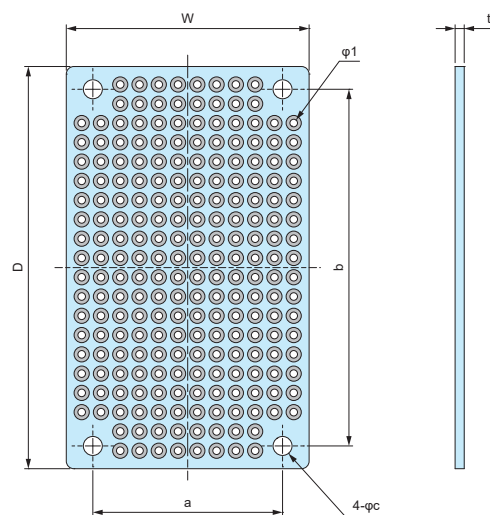
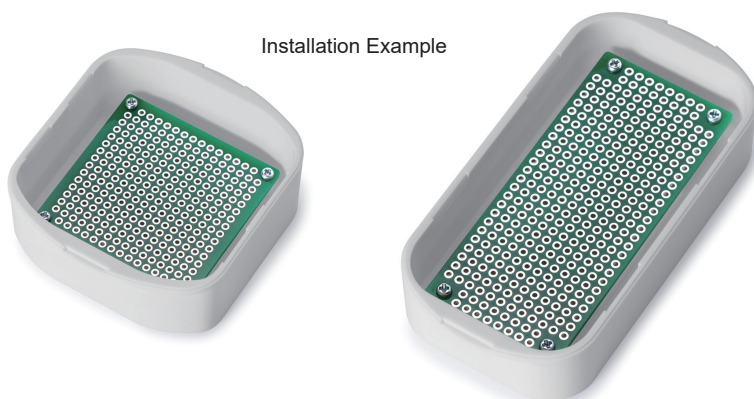




- Plated Through Hole (PTH) type PCB with a 2.54mm hole-to-hole pitch.
Inexpensive and economical PCB made with robust, heat-resistant and non-conductive glass epoxy material.
- Easily mounted onto bosses or standoffs with the mounting holes at each corner.
- Made with environmentally friendly lead-free solder. RoHS3 compliant.
- 4 new sizes added to extend the lineup to a total of 9 sizes. PCB100-160 is Eurocard (3U) format size.
- 3 new SIC and SIM plastic case series compatible sizes have been released, now with 4 compatible sizes available.
- DXF/DWG/PDF drawings available on our website.

Installation Example



Material / Finish : Glass epoxy (FR-4) / Through-hole - Lead-free solder resist

*When installing PCB46-101 with M2 mounting screws, use EM-B2 (see page 398).

Product no. / Details

Product no.	W	D	a	b	c	t	Mounting screw	Weight (g)	Compatible SIC & SIM size
PCB 32- 53	32	53	25	47	2.5	1.2	M2 / M2.5	3.9	SIC • SIM5- 7-□
NEW PCB 32- 73	32	73	25	67	2.5	1.2	M2 / M2.5	5.2	SIC • SIM5- 9-□
NEW PCB 36- 47	36	47	30	41	2.5	1.2	M2 / M2.5	3.7	—
NEW PCB 45- 45	45	45	40	40	2.5	1.2	M2 / M2.5	4.6	SIC • SIM6- 7-□
NEW PCB 46-101	46	101	40	95	3.2	1.6	M2 / M2.5 / M3	13.2	SIC • SIM6-12-□
PCB 47- 72	47	72	41	66	3.2	1.2	M3	7.4	—
PCB 72- 95	72	95	62	85	3.2	1.2	M3	15.7	—
PCB 90-120	90	120	82	112	3.2	1.6	M3	32.5	—
PCB100-160	100	160	92	152	3.2	1.6	M3	49.2	—

CBS series**RUBBER STRAIN RELIEF CORD PROTECTOR****Application example**

Installed onto SIC series

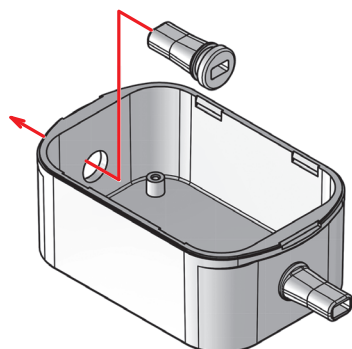


Installed onto EX series

- A total of 8 different sizes available for selection.
- Strain relief cord protector helps relieve flex stress and prevents damage to cables.
※ Does not prevent cables from being dislodged.
- 2 types - round and flat - are available.
- Insert from the inner side of the case / panel of the enclosure.
- Made from high heat resistant silicone material.

Technical Data

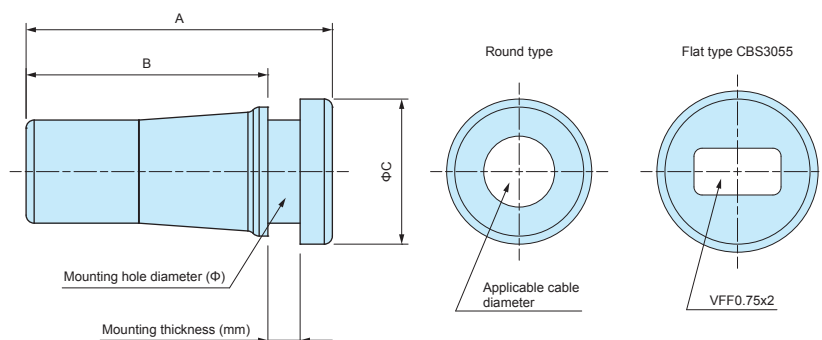
Operating temperature:
-40°C ~ +100°C

Installation steps

- ① Insert into the mounting hole from the inside.
 - ② Thread the cable through the protector.
- ※ Protector must be installed first.

CBS dimensions

■ DXF/DWG/PDF drawings available on our website.

**Product no. / Details**

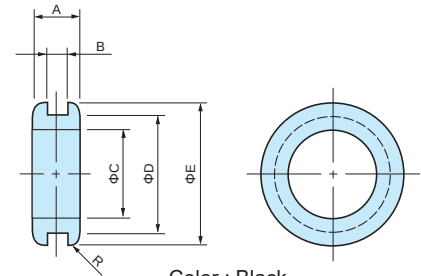
Product no.		A	B	C	Applicable cable diameter / type	Mounting hole diameter (Φ)	Mounting thickness (mm)	Material	Pack of
● Black	● Off-white								
CBS3055-15B	CBS3055-15W	18.5	15	10	VFF0.75x2	7.6 ~ 7.8	1.5 ~ 2.0	Silicone	10
CBS3055-20B	CBS3055-20W	19	15	10	VFF0.75x2	7.6 ~ 7.8	2.0 ~ 2.5	Silicone	10
CBS35-15B	CBS35-15W	16.5	13	8	Φ3.5	5.6 ~ 5.8	1.5 ~ 2.0	Silicone	10
CBS35-20B	CBS35-20W	17	13	8	Φ3.5	5.6 ~ 5.8	2.0 ~ 2.5	Silicone	10
CBS45-15B	CBS45-15W	18.5	15	9	Φ4.5	6.6 ~ 6.8	1.5 ~ 2.0	Silicone	10
CBS45-20B	CBS45-20W	19	15	9	Φ4.5	6.6 ~ 6.8	2.0 ~ 2.5	Silicone	10
CBS60-15B	CBS60-15W	20.5	17	10.5	Φ6.0	8.1 ~ 8.3	1.5 ~ 2.0	Silicone	10
CBS60-20B	CBS60-20W	21	17	10.5	Φ6.0	8.1 ~ 8.3	2.0 ~ 2.5	Silicone	10

NG series

RUBBER GROMMET



■ DXF/DWG/PDF drawings available on our website.



■ A total of 40 different sizes available for selection.

Product no. / Details

Product no.	Old product no.	A	B	C	D	E	R	Mounting thickness	Mounting hole diameter	Material	Hardness	Pack of	Operating temperature
NG2.3-8	—	4	0.8	2.3	5.8	7.8	0.2	0.5 ~ 0.8	5.8 ~ 6.1	NBR	A53°	10	-40°C ~ +100°C
NG3-10	NG-74	4	1	3	5	7	1	0.8 ~ 1.0	5.0 ~ 5.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG3-20	NG-742	5	2	3	5	7	1	1.8 ~ 2.0	5.0 ~ 5.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG3.5-12	NG-79-1	3.7	1.2	3.5	6	9	0.6	1.0 ~ 1.2	6.0 ~ 6.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG4-15	—	7	1.5	4	6.7	10.2	2.5	1.2 ~ 1.6	6.7 ~ 7.2	PVC	A60°	10	-15°C ~ + 75°C
NG5-10	NG-79-A1	4	1	5	8	11	0.6	0.8 ~ 1.0	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG5-15	NG-79-A	4.5	1.5	5	8	11	0.6	1.2 ~ 1.6	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG5-20	NG-79-A2	5	2	5	8	11	0.6	1.8 ~ 2.0	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG5-30	NG-79-B	6	3	5	8	11	0.6	2.8 ~ 3.0	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG6.5-15	—	7.5	1.5	6.5	9.8	15.2	2.5	1.2 ~ 1.6	9.8 ~ 10.3	PVC	A60°	10	-15°C ~ + 75°C
NG7-15	NG-79-C	4.5	1.5	7	10	13	0.6	1.2 ~ 1.6	10.0 ~ 10.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG7-20	—	6.7	2	7	10.2	15	2	1.8 ~ 2.0	10.2 ~ 10.7	PVC	A60°	10	-15°C ~ + 75°C
NG7-30	NG-79-D	6	3	7	10	13	0.6	2.8 ~ 3.0	10.0 ~ 10.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG8-15	—	8.7	1.5	8	12	16	3.5	1.2 ~ 1.6	12.0 ~ 12.5	PVC	A60°	10	-15°C ~ + 75°C
NG8-20	—	6.7	2	8	10	16	2	1.8 ~ 2.0	10.0 ~ 10.5	PVC	A60°	10	-15°C ~ + 75°C
NG9-15	NG-79-E	4.5	1.5	9	12	15	0.6	1.2 ~ 1.6	12.0 ~ 12.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG9-20	—	7.9	2	9	15	19.6	2.5	1.8 ~ 2.0	15.0 ~ 15.5	PVC	A60°	10	-15°C ~ + 75°C
NG9-30	NG-79-F	6	3	9	12	15	0.6	2.8 ~ 3.0	12.0 ~ 12.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG10-15	—	8.7	1.5	10	13.3	18	3.5	1.2 ~ 1.6	13.3 ~ 13.8	PVC	A60°	10	-15°C ~ + 75°C
NG10-20	—	7.2	2	10	11.2	17	2	1.8 ~ 2.0	11.2 ~ 11.7	PVC	A60°	10	-15°C ~ + 75°C
NG11-15	NG-79-G	5.5	1.5	11	15	19	1	1.2 ~ 1.6	15.0 ~ 15.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG11-30	NG-79-H	7	3	11	15	19	1	2.8 ~ 3.0	15.0 ~ 15.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG12-25	—	9.6	2.5	12	14.5	21.5	3.5	2.3 ~ 2.5	14.5 ~ 15	PVC	A60°	10	-15°C ~ + 75°C
NG13-15	NG-79-J	5.5	1.5	13	17	21	1	1.2 ~ 1.6	17.0 ~ 17.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG13-30	NG-79-K	7	3	13	17	21	1	2.8 ~ 3.0	17.0 ~ 17.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG14-25	—	9.6	2.5	14	16.5	23.5	3.5	2.3 ~ 2.5	16.5 ~ 17	PVC	A60°	10	-15°C ~ + 75°C
NG15-15	NG-79-L	5.5	1.5	15	19	23	1	1.2 ~ 1.6	19.0 ~ 19.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG15-30	NG-79-M	7	3	15	19	23	1	2.8 ~ 3.0	19.0 ~ 19.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG16-25	—	9.7	2.5	16	19	25.8	3.5	2.3 ~ 2.5	19.0 ~ 19.5	PVC	A60°	10	-15°C ~ + 75°C
NG18-25	—	9.4	2.5	18	21.5	27.5	3	2.3 ~ 2.5	21.5 ~ 22	PVC	A60°	10	-15°C ~ + 75°C
NG20-15	NG-79-N	6.5	1.5	20	25	30	1.2	1.2 ~ 1.6	25.0 ~ 25.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG20-25	—	9	2.5	20	24	30	3.5	2.3 ~ 2.5	24.0 ~ 24.5	PVC	A60°	10	-15°C ~ + 75°C
NG20-30	NG-79-O	8	3	20	25	30	1.2	2.8 ~ 3.0	25.0 ~ 25.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG22-30	—	11.8	3	22	27	35.5	4	2.8 ~ 3.0	27.0 ~ 27.5	PVC	A60°	10	-15°C ~ + 75°C
NG25-15	NG-79-P	6.5	1.5	25	30	35	1.2	1.2 ~ 1.6	30.0 ~ 30.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG25-30	NG-79-Q	8	3	25	30	35	1.2	2.8 ~ 3.0	30.0 ~ 30.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG30-15	NG-79-R	7.5	1.5	30	36	42	1.2	1.2 ~ 1.6	36.0 ~ 36.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG30-30	NG-79-S	9	3	30	36	42	1.2	2.8 ~ 3.0	36.0 ~ 36.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG35-30	—	12	3	35	38	52	4	2.8 ~ 3.0	38.0 ~ 38.5	PVC	A60°	5	-15°C ~ + 75°C
NG40-30	—	12	3	40	48.5	62	4	2.8 ~ 3.0	48.5 ~ 49.0	PVC	A60°	5	-15°C ~ + 75°C

NB series

NYLON SNAP BUSHING GROMMET

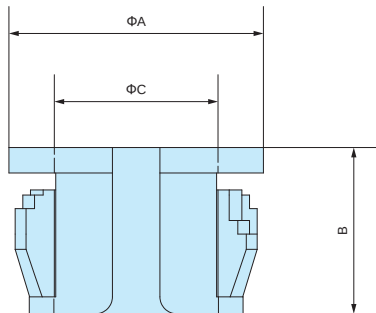
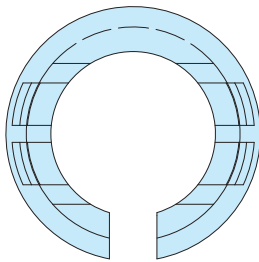


Installation example

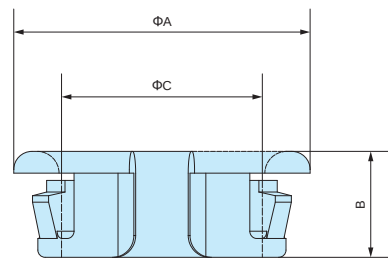
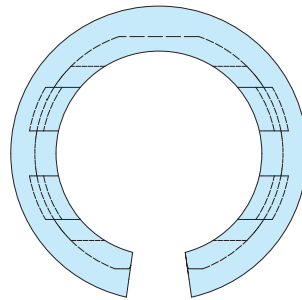


■ DXF/DWG/PDF/STP drawings available on our website.

■ Bushing grommet to be installed on the cut edge of the hole to protect cables and components from damage.



NB7-15, NB10-35, NB11-30,
NB13-35, NB15-35



NB8-10, NB11-10, NB14-10,
NB17-10, NB20-10, NB22-15

Product no. / Details

■ Material / Color : PA66 / Black

Product no.	A	B	C	Mounting hole	Mounting thickness (mm)	Weight (g)	Pack of
NB 7-15	11.9	6.5	7.3	Φ 9.5	0.6 ~ 1.6	0.2 (1 piece)	10
NB 8-10	12.4	6	7.6	Φ 9.5	0.8 ~ 1.2	0.2 (1 piece)	10
NB10-35	15	9.8	9.7	Φ12.7	0.8 ~ 3.3	0.5 (1 piece)	10
NB11-30	16.6	10.3	10.6	Φ14.3	0.8 ~ 3.2	0.5 (1 piece)	10
NB11-10	16.8	7.3	10.8	Φ12.7	0.8 ~ 1.2	0.4 (1 piece)	10
NB13-35	18.4	10.4	12.8	Φ15.9	0.8 ~ 3.3	0.7 (1 piece)	10
NB14-10	20.3	7.3	14.1	Φ15.9	0.8 ~ 1.0	0.5 (1 piece)	10
NB15-35	20.7	10.4	15.1	Φ19.5	0.8 ~ 3.3	0.9 (1 piece)	10
NB17-10	22.5	7.3	16.5	Φ19.5	0.8 ~ 1.0	0.7 (1 piece)	10
NB20-10	26	7.3	20	Φ22.0	0.8 ~ 1.0	0.8 (1 piece)	10
NB22-15	28.6	7.9	22	Φ25.4	0.8 ~ 1.6	1.3 (1 piece)	10

SG series

RUBBER MEMBRANE GROMMET

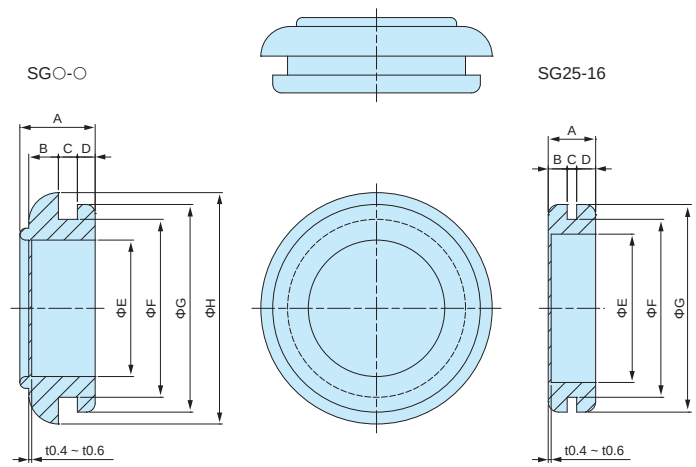
■ DXF/DWG/PDF drawings available on our website.



Components

Material	Hardness	Color
EPDM	A50 ± 5	Black

■ Membrane thickness = 0.4 ~ 0.6mm



Technical Data

Operating temperature: -30°C ~ +100°C

Product no. / Details

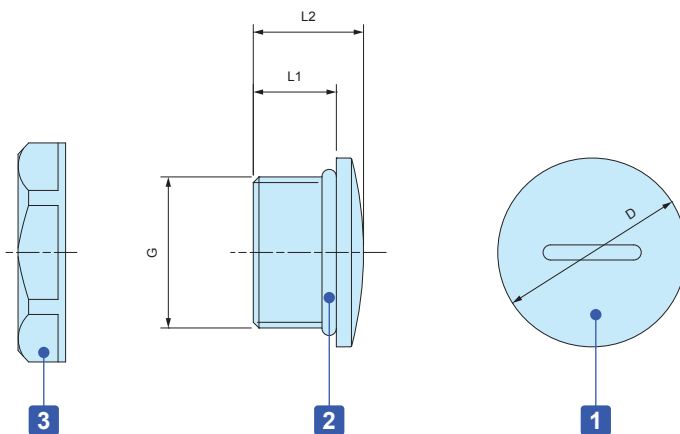
Product no.	A	B	C	D	E	F	G	H	Mounting thickness	Mounting hole	Pack of
SG4.5-23	8.5	3.5	2.3	2	4.5	9	13	16	2.0 ~ 2.3	9.0 ~ 9.5	10
SG7-16	6.3	2.5	1.6	1.5	7	12	16	19	1.2 ~ 1.6	12.0 ~ 12.5	10
SG9-23	8	2.7	2.3	2	9	14	18	21	2.0 ~ 2.3	14.0 ~ 14.5	10
SG11-16	8.1	3.5	1.6	2	11	16	20	23	1.2 ~ 1.6	16.0 ~ 16.5	10
SG13-23	8.8	3.5	2.3	2	13	18	22	25	2.0 ~ 2.3	18.0 ~ 18.5	10
SG15-16	9.1	4	1.6	2.5	15	20	24	27	1.2 ~ 1.6	20.0 ~ 20.5	10
SG17-23	9.8	4	2.3	2.5	17	22	26	29	2.0 ~ 2.3	22.0 ~ 22.5	10
SG19-23	11.3	5	2.3	3	19	24	28	31	2.0 ~ 2.3	24.0 ~ 24.5	10
SG19-32	12.2	5	3.2	3	19	26	31	35	3.0 ~ 3.2	26.0 ~ 26.5	10
SG21-23	11.8	5	2.3	3	21	28	33	37	2.0 ~ 2.3	28.0 ~ 28.5	10
SG23-32	12.7	5	3.2	3	23	30	35	39	3.0 ~ 3.2	30.0 ~ 30.5	10
SG25-16	8	3.2	1.6	3.2	25	30	35	—	1.2 ~ 1.6	30.0 ~ 30.5	10
SG25-23	11.8	5	2.3	3	25	32	37	41	2.0 ~ 2.3	32.0 ~ 32.5	10
SG27-32	12.7	5	3.2	3	27	34	39	43	3.0 ~ 3.2	34.0 ~ 34.5	10
SG28-23	13.8	6	2.3	4	28	36	42	45	2.0 ~ 2.3	36.0 ~ 36.5	10
SG30-32	14.7	6	3.2	4	30	38	44	48	3.0 ~ 3.2	38.0 ~ 38.5	10
SG34-32	14.7	6	3.2	4	34	42	48	52	3.0 ~ 3.2	42.0 ~ 42.5	10

SHP series**BLIND PLUG with O-ring**

IP67



- A hole plug for sealing holes that are not in use.
- IP67 rating is achieved through the use of a lock nut.
- Waterproofing is not guaranteed when directly secured through thread holes.

SHP dimensions

A gloss-like finish distinctive to injection molded products may be visible in certain areas of the black color type. This does not affect the performance of the product.

Components

■ PA = Polyamide

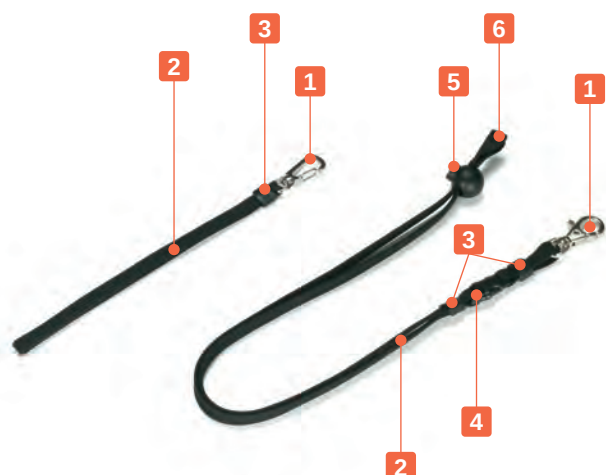
No.	Part name	Material
1	Housing	PA66 (UL94V-2)
2	O-ring	NBR
3	Lock nut	PA66 (UL94V-2)

Product no. / Details

Product no.		G		D	L1	L2	Pack of
● Black	● Light gray	Thread size	Mounting hole				
SHP-12B	SHP-12S	M12×1.5	Φ12.2	Φ16	9	12.2	1
SHP-16B	SHP-16S	M16×1.5	Φ16.2	Φ20	9	12.2	1
SHP-20B	SHP-20S	M20×1.5	Φ20.2	Φ25	11	14.6	1
SHP-25B	SHP-25S	M25×1.5	Φ25.2	Φ30	11	14.5	1
SHP-32B	SHP-32S	M32×1.5	Φ32.3	Φ38	11	15	1
SHP-40B	SHP-40S	M40×1.5	Φ40.3	Φ46	12	16	1

STP series

STRAP



- Strap with a metal hook
- Recommended to be used with CR key ring.

Wrist strap (STP-200)



Neck strap (STP-450)



Neck strap detail



- Only the neck strap has a joint and an adjuster.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Metal hook	1	Diecast zinc & steel	Nickel plated
2	Strap	1	Nylon / Polyester	Black
3	Cap	1 / 2	Polyurethane / Elastomer	Black
4	Joint (Neck strap only)	1	Polyacetal	Black
5	Adjuster (Neck strap only)	1	Nylon	Black
6	Clamp (Neck strap only)	1	PE	Black

Product no. / Details

Product no.	Strap width	Strap length	Strap material	Cap material
STP-200	8	200	Nylon	Polyurethane x 1
STP-450	10	450	Polyester	Elastomer x 2

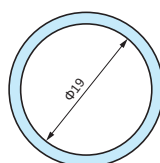
CR-20

KEY RING

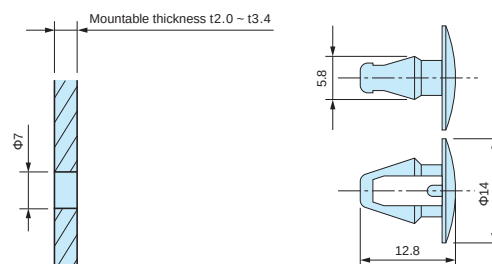


- Hole milling is required for case installation.

CR-20 dimensions



- DXF/DWG/PDF drawings available on our website.



Components

Part name	Material	Color / Finish
Ring	SWRM 6 Steel	Nickel plated
Insert clip	Nylon	Black

Product no. / Details

Product no.	Ring Φ	Installation hole	Mounting thickness
CR-20	Φ19	Φ7	t2.0 ~ t3.4

GDH series

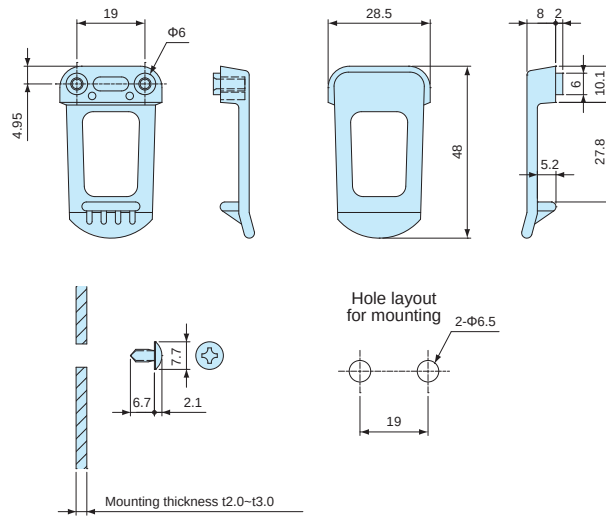
PLASTIC BELT CLIP



Installation example

GDH dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Clip	1	ABS UL94HB	White • Black
2	Screw	2	Steel M3.5-6	Zinc plated

Product no. / Details

Product no.		W	H	D
● White	● Black			
GDH-1W	GDH-1B	28.5	10	48

DK series

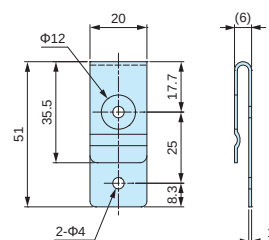
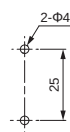
STEEL BELT CLIP

DK dimensions

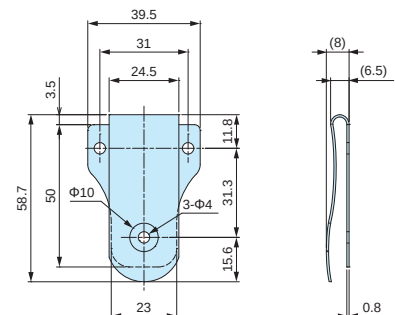
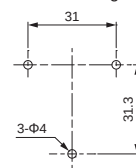
■ DXF/DWG/PDF drawings available on our website.



DK-1

Hole layout
for mounting

DK-2

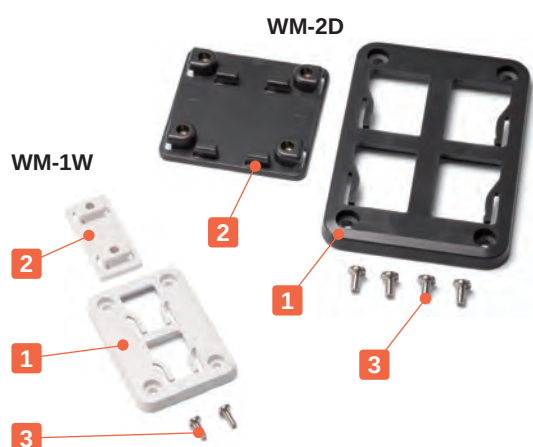
Hole layout
for mounting

Product no. / Details

Product no.	Material	Finish
DK-1	Steel SPCC t=1.0	Chrome plated
DK-2	Steel SPCC t=0.8	Chrome plated

WM series

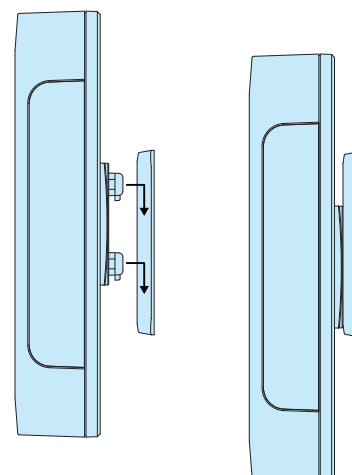
SUSPENSION BRACKET



Installation example



How to install



- Plastic wall mounting bracket. Easy attachment and removal.
- Large and small bracket types are available.
- Applicable to be used on plastic or metallic enclosures with a panel thickness of 0.8 ~ 3.5mm.
- To attach the suspension hook onto the enclosure, hole milling is required.
- Please be aware of the insertion direction of the suspension hook against the mounting base when attaching.
- DXF/DWG/PDF/STP drawings available on our website.

Technical Data

Max load : WM-1 - 2kg
WM-2 - 5kg

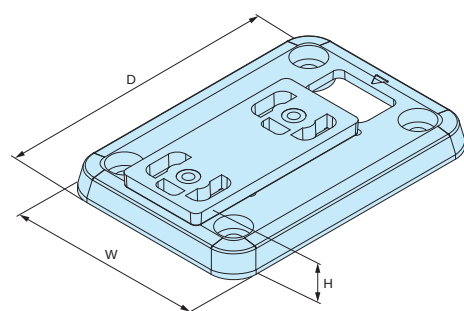
* The max load values listed are static load values only. Use caution when handling.

Components

No.	Name	Pcs	Material	Color / Finish
1	Mounting base	1	PC + ABS UL94HB	Off-white • Dark gray
2	Suspension hook	1	PC + ABS UL94HB	Off-white • Dark gray
3	Screw	2 (WM-1) 4 (WM-2)	Steel	Nickel plated

Included Screw

WM-1□ : Bind M3-8
WM-2□ : Bind M4-88



Product no. / Details

Product no.		W	H	D	Mountable thickness	Weight (g)
● Off-white	● Dark gray					
WM-1W	WM-1D	45	9	65	t0.8~t3.5	11.5
WM-2W	WM-2D	80	11	115	t0.8~t3.5	48

PMB-1

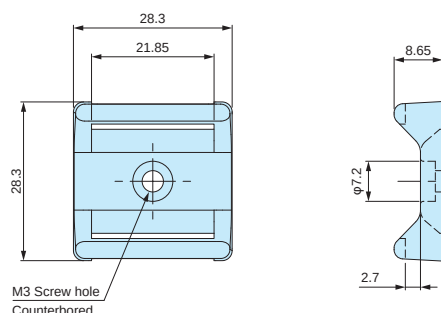
POLE MOUNTING BRACKET



Installation example



- DXF/DWG/PDF drawings available on our website.



- Small size pole mounting bracket suitable for indoor use.
- Installation screws (M3 size) are separately sold.
See page HES • HOS • MT for compatible MT3-4 screws.
- Minimum applicable pole diameter is $\Phi 35$.
- Use SNB • PKB • SCT mounting belt to install onto a pole.

Product no. / Details

Material / Color : PA66+GF (UL94HB) / Black

Product no.	Maximum load (kg)	Weight (g)	Pack of
PMB-1	1	3 (1 piece)	2

NMG series

NEODYMIUM MAGNET

Round magnet

■ DXF/DWG/PDF drawings available on our website.

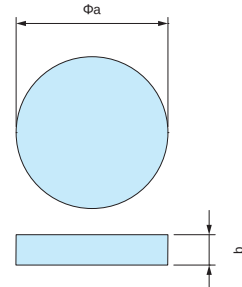


- Material / Finish: Neodymium / Nickel plated
- Please attach using a strong adhesive.

Product no. / Details

Product no.	a	b	Weight (g)	Flux Density	Absorption
NMG3-15N	15	3	4	214.4 mT	2.44 kgf
NMG3-20N	20	3	7.1	170.7 mT	3.26 kgf
NMG5-22N	22	5	11.4	247.2 mT	5.91 kgf
NMG5-25N	25	5	18.4	221.9 mT	6.89 kgf

NMG dimensions



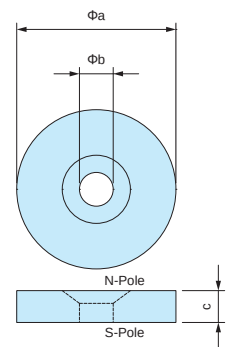
Round magnet with countersunk hole



- Please fasten with a screw.

Product no. / Details

Product no.	a	b	c	Countersunk size	Weight (g)	Flux Density	Absorption
NMG3-15M3	15	3.2	3	M3	3.8	214.3 mT	2.33 kgf
NMG3-20M3	20	3.2	3	M3	6.9	170.6 mT	3.17 kgf
NMG5-22M4	22	4.3	5	M4	13.7	247.2 mT	5.68 kgf
NMG5-25M5	25	5.3	5	M5	17.6	221.9 mT	6.58 kgf



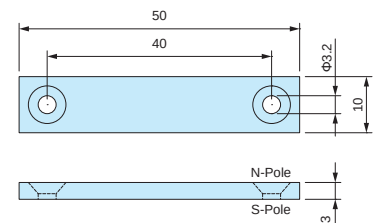
Rectangular magnet with countersunk holes



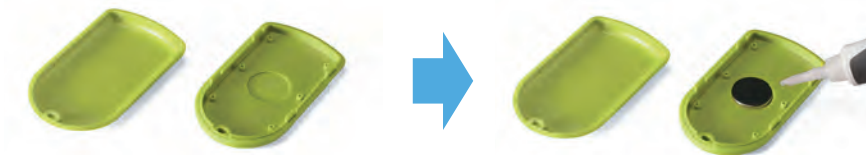
- Please fasten with a screw.

Product no. / Details

Product no.	a	b	c	Countersunk size	Weight (g)	Flux Density	Absorption
NMG3-50M3	50	10	3	M3	11.3	210.0 mT	9.1 kgf



Example 1 The magnetic force remains strong even through plastic.

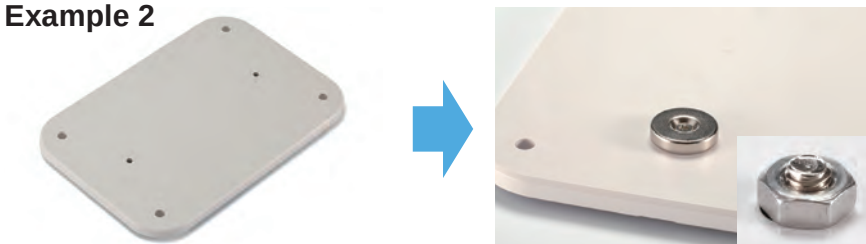


Make recessed pocket on the inside wall.

Glue on.

Attach onto a metallic surface.

Example 2



Make holes

Fasten with a screw and nut.

Attach onto a metallic surface.

CAUTION: Handle with care to avoid personal injury or damage to the magnet.

DST series

DOUBLE-SIDED MOUNTING TAPE



- Super strong double-sided mounting tape with excellent cold and heat resistance.
- Allow cases to be attached onto any place.
- Easily attached onto walls where holes cannot be drilled.
- Can be used with a range of products, such as small IoT type enclosures.

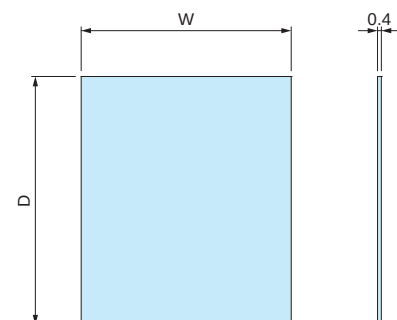
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

Notes:

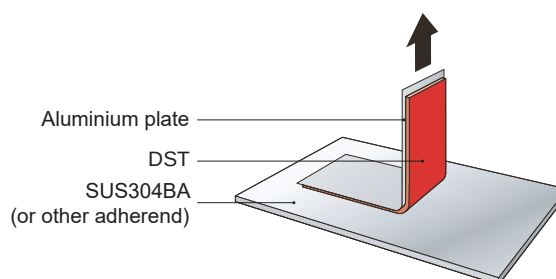
Due to the strong adhesive strength,
do ensure that the surface or product is suitable to be adhered onto.

Technical Data

Operating temperature:
-30°C ~ +200°C

**Adhesion Performance (90° peel adhesion)**

90° direction peel force N/cm	Stainless steel (SUS304BA)	24
	Aluminium (A1050P)	21
	Bonded steel plate (SECC)	30
	ABS	10
	Acrylic (PMMA)	16
	Polypropylene	6
	Polyethylene (HDPE)	3
	Glass	27

**[Test Method]**

Backed with specially treated Aluminium foil (130 μ m), crimped with a 10kg steel roller back and forth twice,
cured at room temperature for 72 hours, tensile speed 300mm/min.

*Data values listed are test results based on the test conditions, and are to be used as reference only.

*Adhesive strength and other physical properties vary depending on the adherend, bonding and curing conditions, and other factors.

Product no. / Details

■ Material / Color: Acrylic foam base, acrylic adhesive / gray

Product no.	W	D	Suitable models	Weight (g)	Pack of
NEW DST14-22	14	22	SIC2-4-1 SW-30	0.3 / pc	5
NEW DST14-36	14	36	SIC2-5-1	0.4 / pc	5
DST18-40	18	40	SIC3-5-2 SW-(T)40 • 60	0.7 / pc	5
DST22-26	22	26	SIC3-4-2 SW-(T)40	0.5 / pc	5
DST24-48	24	48	SIC3-6-2 SW-50 • 53 • (N)(T)55 • (N)65 TW/TWN4-2-5 • 4-2-6 • 4-2-8	0.8 / pc	5

AST series

INSERT NUT ADHESIVE STANDOFF

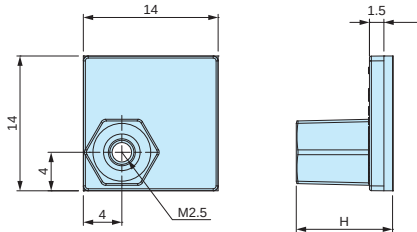


- Double-sided adhesive tape allows the standoff to be mounted quickly and easily; allows PCB mounting in non-boss enclosures.
- Convenient for installing PCBs into enclosures without the need for customization.
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

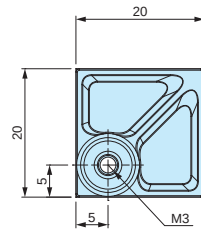
AST dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

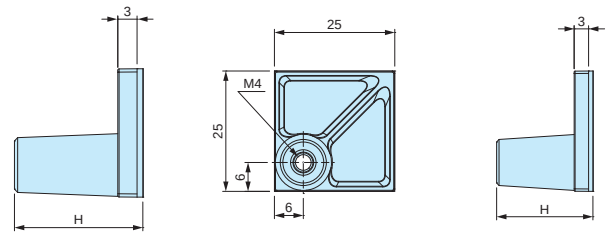
AST2.5-□



AST3-□



AST4-□



Product no. / Details

Bulk package

Product no	H dimension	Included screw	Recommended PCB thickness (mm)	Recommended torque (N • m)	Weight (g)	Pack of	Product no	Pack of
AST2.5-5B	5	M2.5-5 pan head	1.0 ~ 2.0	0.3	0.6 (1 piece)	4	AST2.5-5B-P	100
AST2.5-10B	10	M2.5-5 pan head	1.0 ~ 2.0	0.3	0.8 (1 piece)	4	AST2.5-10B-P	100
AST3-6B	6	M3-6 pan head	1.0 ~ 3.0	0.4	1.5 (1 piece)	4	AST3-6B-P	100
AST3-10B	10	M3-6 pan head	1.0 ~ 3.0	0.4	1.6 (1 piece)	4	AST3-10B-P	100
AST3-15B	15	M3-6 pan head	1.0 ~ 3.0	0.4	1.8 (1 piece)	4	AST3-15B-P	100
AST3-20B	20	M3-6 pan head	1.0 ~ 3.0	0.4	2.1 (1 piece)	4	AST3-20B-P	100
AST4-10.5B	10.5	M4-8 pan head	1.0 ~ 3.5	0.8	2.6 (1 piece)	4	AST4-10.5B-P	50
AST4-20B	20	M4-8 pan head	1.0 ~ 3.5	0.8	3.2 (1 piece)	4	AST4-20B-P	50

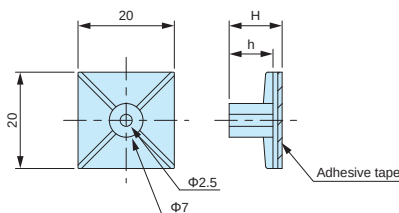
- Base material / color : Nylon 66 (UL94V-2) / Black
- Nut • screw material / finish : Steel / Trivalent chromate

- Bulk packaging is available. See "Bulk package" column above.
- Screws are not included for bulk packages.

ASR series

ADHESIVE PCB STANDOFF

ASR dimensions



■ DXF/DWG/PDF drawings available on our website.

Technical Data

Recommended torque : 0.4N • m

- M3 tapping screw use adhesive standoff.
Recommended to be used with EM-3 or EM-3-6 self-tapping screws (See page 398).
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

Product no. / Details

■ Material / Color: Nylon 66 (UL94V-2) / Natural

Product no	H	h	Weight (g)	Pack of
ASR- 5	5.1	3.1	0.9 (1 piece)	10
ASR- 6	6.4	4.4	1.0 (1 piece)	10
ASR- 7	7.2	5.1	0.9 (1 piece)	10
ASR- 8	8.1	6.3	0.9 (1 piece)	10
ASR- 9	9	7	1.0 (1 piece)	10
ASR-11	11	9	1.0 (1 piece)	10
ASR-13	12.7	10.7	1.2 (1 piece)	10
ASR-14.5	14.7	12.8	1.1 (1 piece)	10
ASR-16	15.9	13.9	1.3 (1 piece)	10
ASR-19	19.1	17.1	1.4 (1 piece)	10

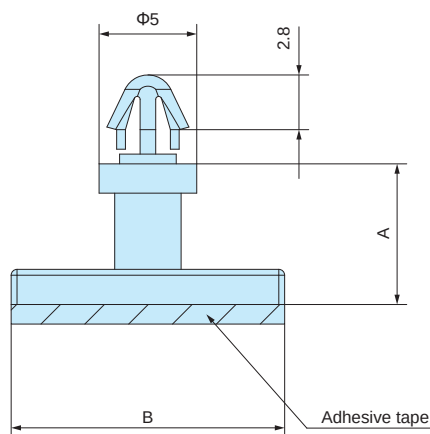
ASL series

LOCKING PCB ADHESIVE STANDOFF

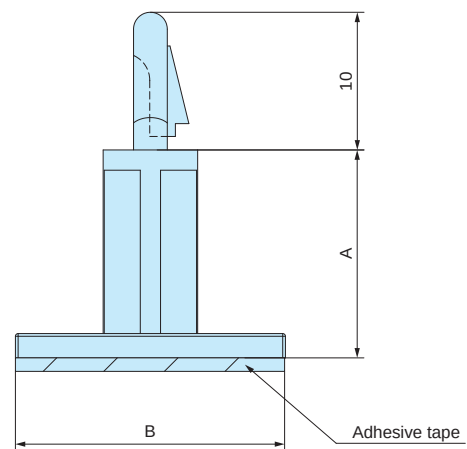


- Standoff for securing PCB by simply snapping it in.
- Adhesive standoff can be freely and easily affixed on.
- Once removed, it cannot be adhered on again.

ASL-3 ~ 12



ASL-15 & 19

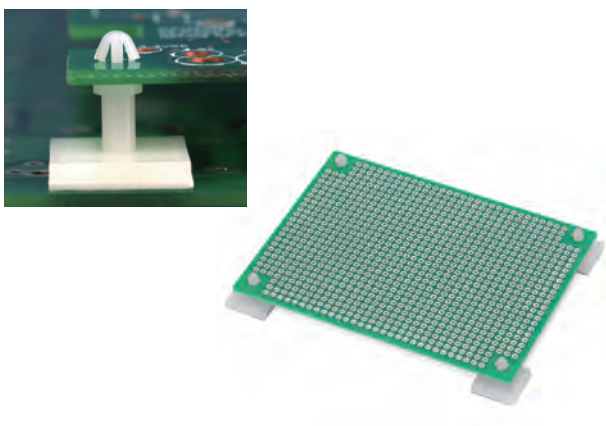


Product no. / Details

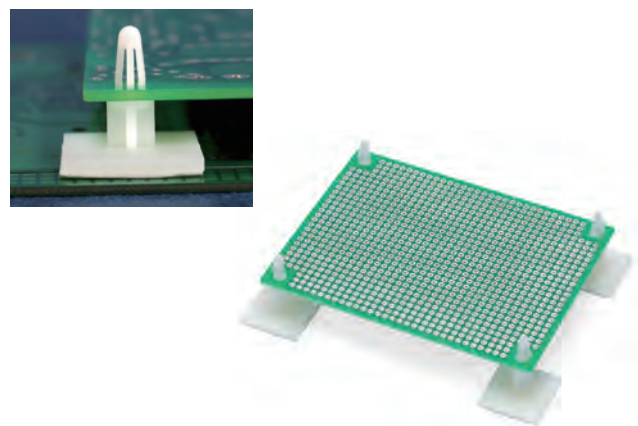
■ Material / Color : PA66 / Natural

Product no.	A	B	Mounting hole	Mounting thickness	Weight (g)	Pack of
ASL- 3	2.7	□14	Φ3	1.2 ~ 1.6	0.5 (1 piece)	10
ASL- 4	4	□14	Φ3	1.2 ~ 1.6	0.5 (1 piece)	10
ASL- 6	5.6	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL- 7	7.2	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL- 9	9.2	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL-10	9.7	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL-12	11.9	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL-15	15.4	□20	Φ4	1.2 ~ 1.7	1.3 (1 piece)	10
ASL-19	18.5	□18	Φ4	1.2 ~ 2.0	1.4 (1 piece)	10

APPLICATION EXAMPLE : ASL-3 ~ 12



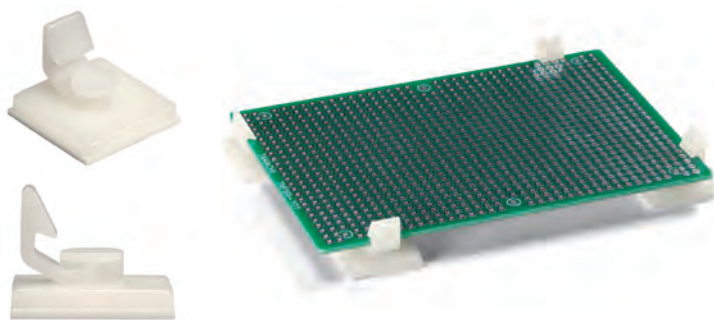
APPLICATION EXAMPLE : ASL-15 & 19



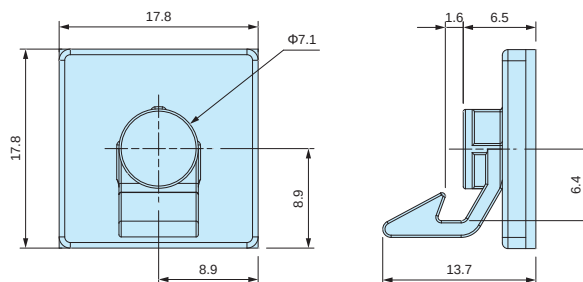
ULCK series

SCREWLESS PCB ADHESIVE STANDOFF

Application example



ULCK dimensions



■ DXF/DWG/PDF drawings available on our website.

- Securing of a 1.6mm thick PCB made easy by simply snapping it in.
- Adhesive standoff can be freely and easily affixed on.
- Once removed, it cannot be adhered on again.

Product no. / Details

■ Material / Color : PA66 UL94V-2 / Natural

Product no.	Weight (g)	Pack of
ULCK-6.4	1.3 (1 pc)	4

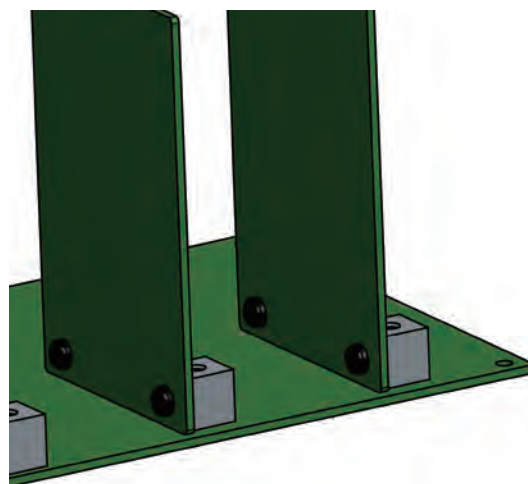
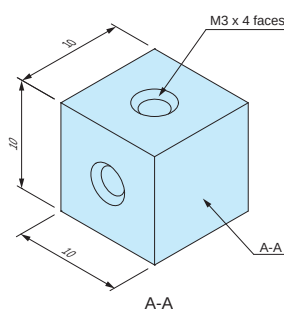
CUBE series

CUBE STANDOFF

■ DXF/DWG/PDF/STP drawings available on our website.

CUBE10-M3

CUBE10-M4



- 10mm threaded cube shape standoff with a thread on 4 faces.
- M3 and M4 thread models available.
- Conveniently usable when installing PCB or metal plate upright.
- CUBE can also be used to make a simple housing by vertically aligning the plates.

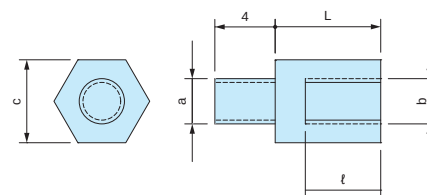
Product no. / Details

■ Zinc diecast : Glossy barrel finish

Product no.	Pack of
CUBE10-M3	2
CUBE10-M4	2
CUBE10-M3-P	20
CUBE10-M4-P	20

TPS series

TAPPING STANDOFF



■ Tapping screw head allows for easy installation onto existing enclosure boss mount.

■ DXF/DWG/PDF drawings available on our website.

■ 4 different sizes available : M2.3, M2.6, M3 and M4 size.

Product no. / Details

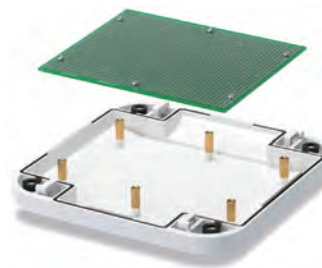
■ Material / Finish : Brass / Unfinished

Product no.	Screw size (a)	Screw size (b)	c	L	ℓ	Weight (g)	Pack of	Suitable models
TPS-M2.3-4	2.3	M2.3	5	4	3	0.7	4	WH series • PFE series LC • LCE • LCS • LCT series PF • PFF series (M2.3 boss models) TW • TWN • TWF series (M2.3 boss models) WP series (M2.3 boss models)
TPS-M2.3-5	2.3	M2.3	5	5	3	0.9	4	
TPS-M2.3-6	2.3	M2.3	5	6	4	1	4	
TPS-M2.3-7	2.3	M2.3	5	7	5	1.2	4	
TPS-M2.3-8	2.3	M2.3	5	8	6	1.3	4	
TPS-M2.3-10	2.3	M2.3	5	10	6	1.7	4	
TPS-M2.3-12	2.3	M2.3	5	12	6	2	4	
TPS-M2.6-4	2.6	M2.6	5	4	3	0.7	4	PF • PFF series (M2.6 boss models) WP series (M2.6 boss models)
TPS-M2.6-5	2.6	M2.6	5	5	3	0.8	4	
TPS-M2.6-7	2.6	M2.6	5	7	5	1.1	4	
TPS-M2.6-10	2.6	M2.6	5	10	6	1.6	4	
TPS-M2.6-12	2.6	M2.6	5	12	6	2	4	SU • OP TWS • TW • TWN • TWF series (M3 boss models)
TPS-M3-4	3	M3	5.5	4	3	0.8	4	
TPS-M3-5	3	M3	5.5	5	3	1.1	4	
TPS-M3-6	3	M3	5.5	6	4	1.2	4	
TPS-M3-7	3	M3	5.5	7	5	1.3	4	
TPS-M3-8	3	M3	5.5	8	5	1.6	4	
TPS-M3-10	3	M3	5.5	10	6	1.9	4	
TPS-M3-12	3	M3	5.5	12	6	2.3	4	BCAS • BCAP • BCPC • BCPK series (M4 boss models) BCAR • BCPR series (M4 boss models) SPCP • SPCM • WG • WGV • WGPC
TPS-M4-6	4	M4	7	6	4	2	4	
TPS-M4-10	4	M4	7	10	6	3.1	4	
TPS-M4-15	4	M4	7	15	8	4.7	4	
TPS-M4-20	4	M4	7	20	10	6.5	4	



■ Please use a suitable sized socket driver to both secure and loosen the tapping standoff.

Installation example



MT series

PCB MOUNTING SCREWS for TPS



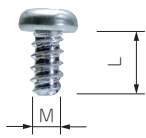
■ Pan head PCB mounting Screws for TPS tapping standoffs.

Product no. / Details

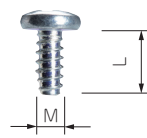
Product no.	M	L	Material	Finish	Pack of
MT2.3-4	2.3	4	Steel	Trivalent chromate	20
MT2.3-6	2.3	6	Steel	Trivalent chromate	20
MT2.6-4	2.6	4	Steel	Trivalent chromate	20
NEW MT2.6-6	2.6	6	Steel	Trivalent chromate	20
MT3-4	3	4	Steel	Trivalent chromate	20
NEW MT3-6	3	6	Steel	Trivalent chromate	20
NEW MT4-4	4	4	Steel	Trivalent chromate	20
NEW MT4-6	4	6	Steel	Trivalent chromate	20

EM series**PCB MOUNTING SCREW**

Pan head



Bind head



- Self-tapping screws for mounting PCB on bosses or standoffs.
- EM-3-6 self-tapping screws are suitable for mounting 1.6mm or thicker PCB.

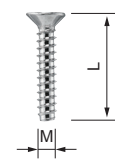
Product no. / Details

■ Material / Finish : Steel / Trivalent chromate

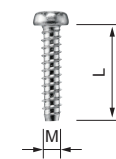
Product no.	M	L	Head type	Suitable models	Pack of
EM-1.6	1.6	4	Pan	SMW • CSS • CS SIC • SIM • WC • PS (M1.6 boss models)	50
EM-2	2	5	Pan	PS • TW • TWN • TWF SIC • SIM • PF • WC • WP (M2 boss models)	50
NEW EM-B2	2	5	Bind	SIC • SIM (M2 boss models) SIC • SIM6-12-□ (when installing PCB46-101)	50
EM-2.3	2.3	6	Pan	DRC • WH • LC • LCT • LCS • LCE • PFE WSC (Top cover bosses) PF • PFF (M2.3 boss models) TW • TWN • TWF (M2.3 boss models) WP (M2.3 boss models)	50
EM-2.3-8	2.3	8	Pan	WSC (Bottom base bosses)	50
EM-2.6	2.6	6	Pan	PF • PFF • WP (M2.6 boss models)	50
EM-3	3	5	Pan	SU • OP	50
EM-3-6	3	6	Pan	TWS • TW • TWN • TWF (M3 boss models)	50

MR series**TORX SCREW**

Flat head



Pan head

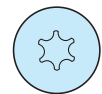


With pin



pin

★ Without pin



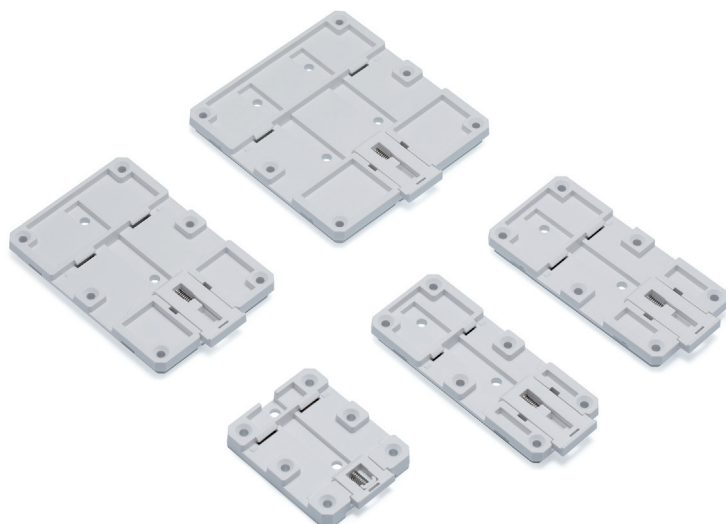
- Self-tapping torx screws for securing of the enclosure.

★ : MR1.6-6S, MR2.6-10□, MR3-5Z□ and MR3-14□ are without pin.

Product no. / Details

★ Mark = Without pin

Product no.	M	L	Head no.	Head style	Material	Finish	Suitable models	Pack of
MR1.6-6S★	1.6	6	T3	Pan	Steel	Nickel plated	CSS • CS	20
MR2.5-8PS	2.5	8	T8	Pan	Steel	Nickel plated	PF • PFE • PFF (M2.5 size)	20
MR2.6-10S★	2.6	10	T8	Flat	Steel	Nickel plated	TW • TWN (M2.6 size)	20
MR2.6-10B★	2.6	10	T8	Flat	Steel	Black trivalent chromate	TWF (M2.6 size)	20
MR2.6-12PS	2.6	12	T8	Pan	Steel	Nickel plated	MX • MXA • MXB • MXF (M2.6 size)	20
MR2.6-14PS	2.6	14	T8	Pan	Steel	Nickel plated	LCT • LCS • LC115-F2 / F3 LCT • LCS • LC145S-F6	20
MR2.6-14S	2.6	14	T8	Flat	Steel	Nickel plated	LCT • LCS • LC115H-F2 / F3 / M2 / 9V LCT • LCS • LC135-F4 / M2 / M3 / 9V LCT • LCS • LC135H-F4 / M2 / M3 / 9V LCT • LCS • LC145-F6 / M2 / M4 LCT • LCS • LC145H-F6 / M2 / M4 LCT • LCS • LC165-M4 LCT • LCS • LC165H-M4	20
MR2.6-18S	2.6	18	T8	Flat	Steel	Nickel plated	LCT • LCS • LC115-N / F2 / F3 LCT • LCS • LC145S-F6 / 145S-N LCE115-N TW • TWN7-2-11 / 7-4-11 / 7-5-11 TWF7-2-11 / 7-4-11 / 7-5-11 / 8-2-8 / 8-4-8	20
MR-1S	3	5	T10	Flat	Steel	Nickel plated	LCT • LCS • LC115H-N / F2 / F3 / M2 / 9V LCT • LCS • LC135-N / F4 / M2 / M3 / 9V LCT • LCS • LC135H-N / F4 / M2 / M3 / 9V LCT • LCS • LC145-N / F6 / M2 / M4 LCT • LCS • LC145H-N / F6 / M2 / M4 LCT • LCS • LC165-N / M4 LCT • LCS • LC165H-N / M4 LCE115H-N • LCE135-N • LCE145H-N • LCE165H-N	20
MR-1B	3	5	T10	Flat	Steel	Black trivalent chromate	UC	20
MR3-5ZS★	3	5	T10	Slotted raised countersunk	Steel	Nickel plated	FC • HY • HYR • HYRH (M3 size)	20
MR3-5ZB★	3	5	T10	Flat	Steel	Black trivalent chromate	CF	20
MR3-8PS	3	8	T10	Pan	Steel	Nickel plated	PF • PFE • PFF (M3 size)	20
MR3-14S★	3	14	T10	Flat	Steel	Nickel plated	TW • TWN (M3 size)	20
MR3-14B★	3	14	T10	Flat	Steel	Black trivalent chromate	TWF (M3 size) MX • MXA • MXB • MXF (M3 size)	20

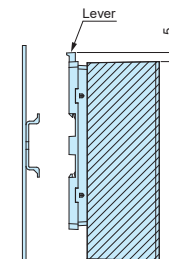


Installation Example



NOTE

Before installation, please ensure that the lever is not fully hidden behind the enclosure.



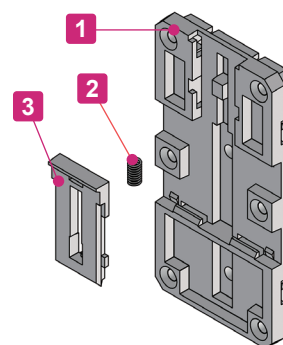
Technical Data

Max load : 5kg

- Mounting base for installation of enclosures, PCB and other parts onto 35mm DIN Rail.
- 4 new sizes added for a total of 5 different sizes available for selection.
- Easy mounting and dismounting from a DIN Rail using the pull lever.
- Replacement product for the discontinued DRA series.

Components

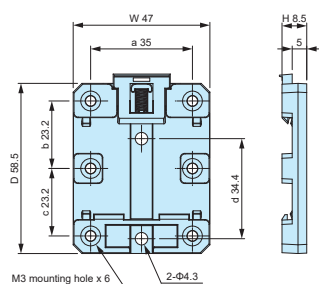
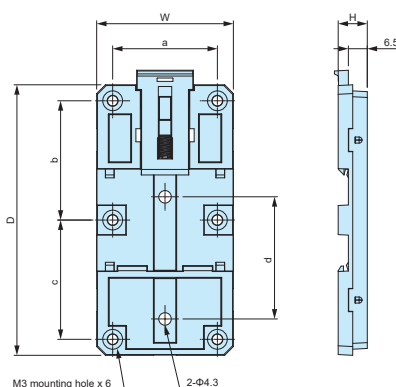
No.	Part name	Pcs	Materials	Color / Finish
1	Base	1	PC/ABS (UL94V-0)	Off-white
2	Compression spring	1	SUS304	Unfinished
3	Lever	1	PC/ABS (UL94V-0)	Off-white



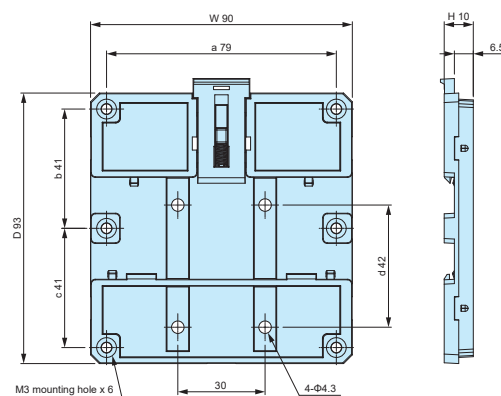
DRP dimensions

- DXF/DWG/PDF/STP drawings available on our website.

DRP5-6W

DRP4-9W, DRP5-9W
DRP7-9W

DRP9-9W

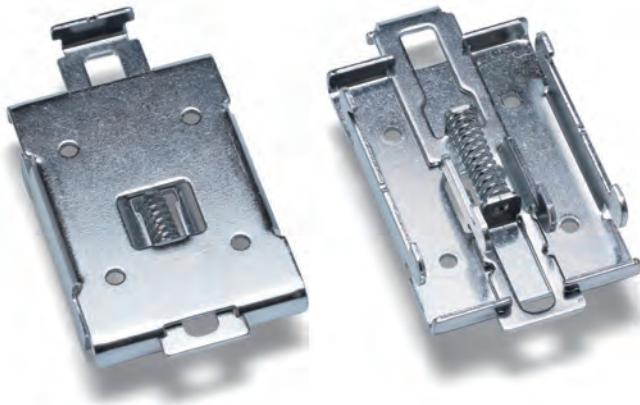


Product no. / Details

Product no.	Dimensions							Weight (g)	Old product model
	W	H	D	a	b	c	d		
NEW DRP4-9W	38	10	93	27	41	41	41	20.6	DRA-2
NEW DRP5-6W	47	8.5	58.5	35	23.2	23.2	34.4	13.4	DRA-3
DRP5-9W	47	10	93	36	41	41	42	24.6	DRA-1
NEW DRP7-9W	65	10	93	54	41	41	42	31.3	—
NEW DRP9-9W	90	10	93	79	41	41	42	41.6	—

DRM-1

DIN RAIL MOUNT BRACKET

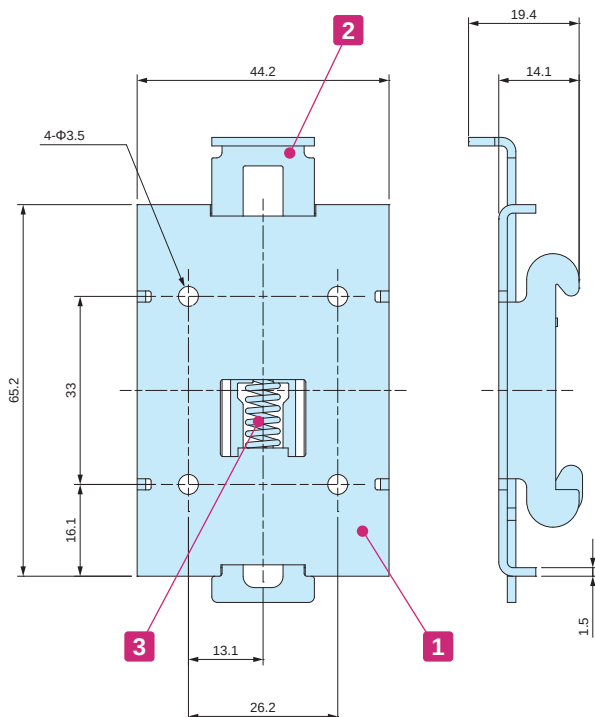


Installation example

- For installation of enclosures, PCB and other parts onto a DIN Rail.
- Robust metallic material allows rigid mounting on DIN Rails.
- Simple installation and removal via the pull lever.

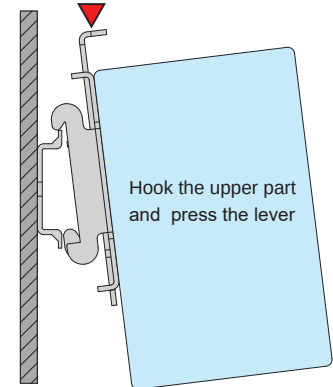
DRM-1 dimensions

- DXF/DWG/PDF drawings available on our website.



NOTE

Before installation, please ensure that the lever is not fully hidden behind the enclosure.



Technical Data

Max load : 10kg

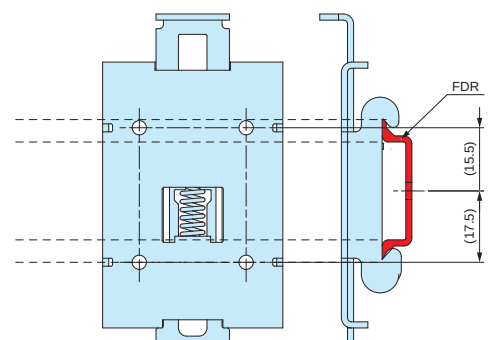
Components

No.	Part name	Material	Color / Finish
1	Base	Plated steel	Zinc plated
2	Lever	Plated steel	Zinc plated
3	Spring	Steel	Zinc plated

Product no. / Details

Product no.	Weight (g)
DRM-1	57.5

- Installation example on FDR series DIN Rail.



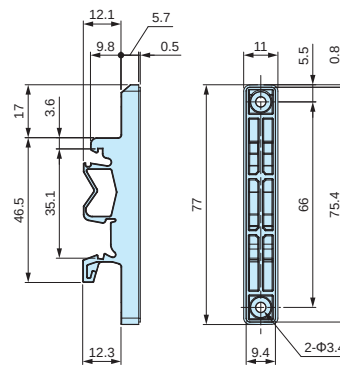
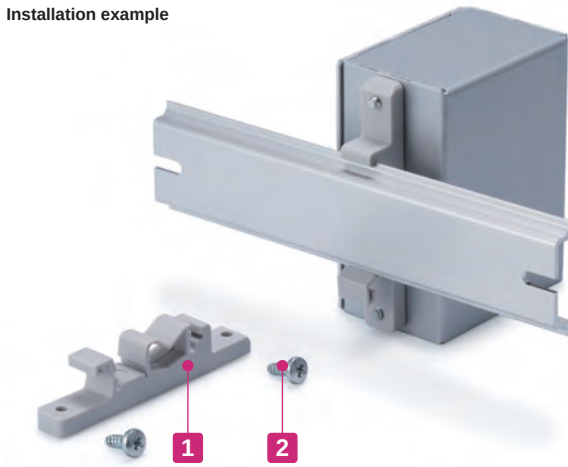
DRF series

DIN RAIL MOUNTING BRACKET

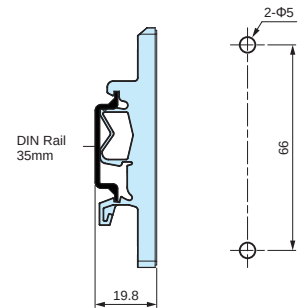


■ DXF/DWG/PDF drawings available on our website.

Installation example



Hole layout for mounting



Installed on 35mm DIN Rail

- Mounting bracket for installation of enclosures, PCB and other parts onto 35mm DIN Rail. Can be easily detached.
- Bulk packaging is available.

Technical Data

Max load : 1.5kg

Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting bracket	1	PP	White gray
2	Screw (Bind head tapping 4-10)	2	Steel	Trivalent chromate

Product no. / Details

Product no.	Weight (g)	Pack of
DRF80-1	8.4	1
DRF80-1-P	8.4 / pc	20

Installation example (using 2pcs)

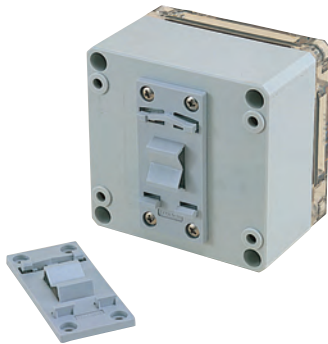


DRT series

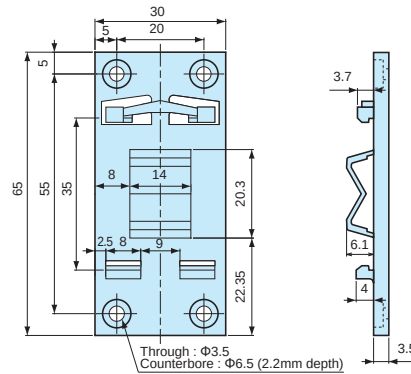
DIN RAIL MOUNTING BASE



Installation example

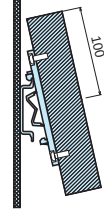


■ DXF/DWG/PDF/STP drawings available on our website.



■ NOTE

Before installation, please ensure that the length (from top) of the enclosure is equal to, or less than 100mm from the center of the mounting base.



- For installation of enclosures, PCB and other parts onto a DIN Rail.
- Simple installation and removal by tilting the case at an angle and sliding it in/out.

Technical Data

Max load : 1kg

Product no. / Details

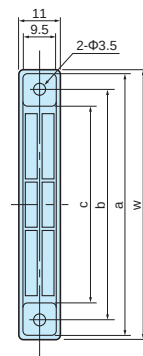
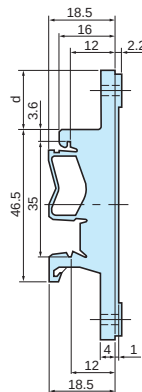
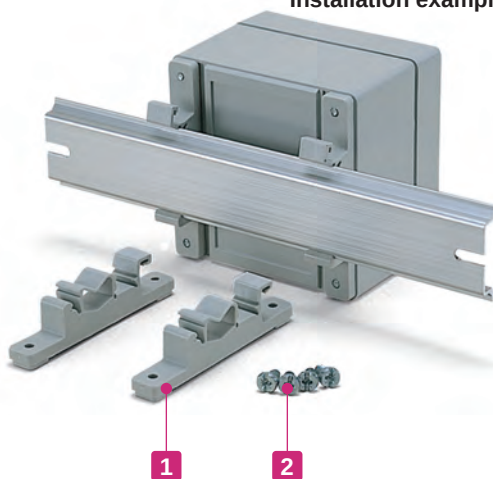
Product no.	Material	Color	Weight (g)	Pack of
DRT-1	PC/ABS UL94V-0	Light gray	7.3	1
DRT-1-P	PC/ABS UL94V-0	Light gray	7.3 (1pc)	50

CKD series

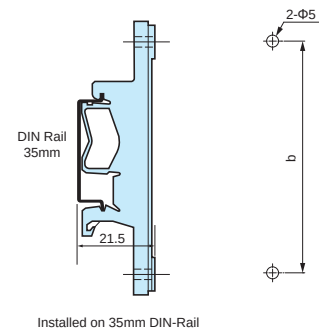
DIN RAIL MOUNTING FEET

Installation example

■ DXF/DWG/PDF drawings available on our website.



Hole layout for mounting



- Mounting feet for installation of enclosures, PCB and other parts onto a DIN Rail. Can be easily detached.

Technical Data

Max load : 3kg / 2pcs

Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting feet	2	Polyamide	White gray
2	Screw (special type 4.2 x 9.5)	4	Steel	Unichrome plated

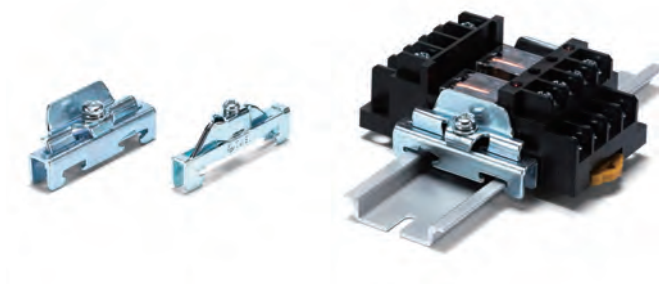
Product no. / Details

Product no.	W	a	b	c	d	Weight (g)	Pack of
CKD-120	117	115	106	96	37	21 (2pcs)	2
CKD-160	157	155	147	136	57	24 (2pcs)	2

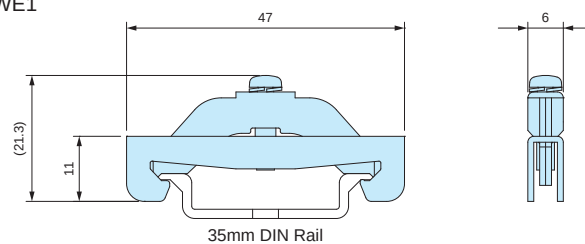
TKR series

DIN RAIL TERMINAL BLOCK END STOPPER

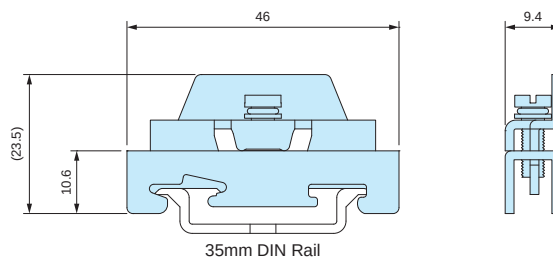
■ DXF/DWG/PDF drawings available on our website.



TKR-TWE1



TKR35-1



- Stopper bracket for use with 35mm DIN Rail to keep an attachment at a fixed location.
- TKR-TWE1 is used with small DIN Rail attachment parts. For larger / higher attachment parts, TKR35-1 is recommended for providing additional support.

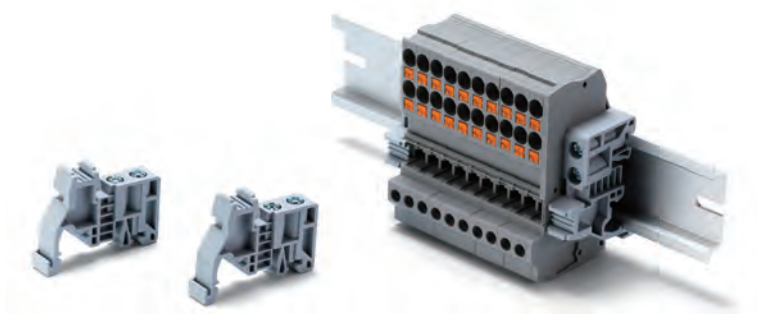
Product no. / Details

Product no.	Material	Finish	Pack of
TKR-TWE1	Steel	Trivalent chromate	2
TKR35-1	Steel	Trivalent chromate	2
TKR35-1-P	Steel	Trivalent chromate	50

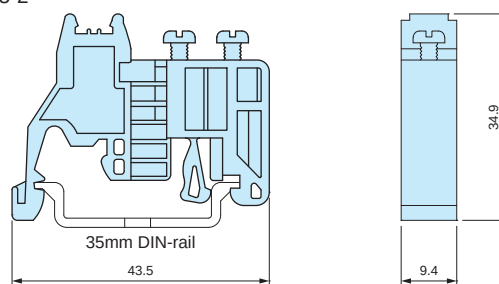
DRS series

ECONOMICAL DIN RAIL END STOPPER

■ DXF/DWG/PDF drawings available on our website.



DRS35-2



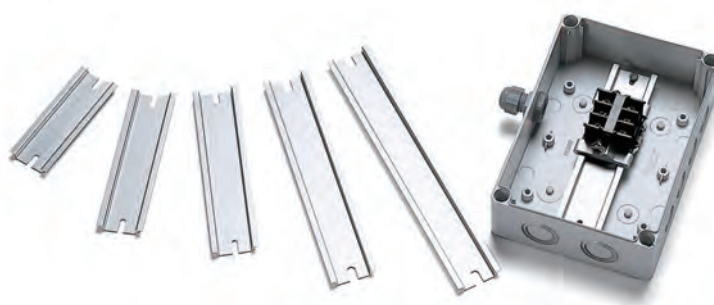
- Economically priced end stopper bracket.
- Included screws allow affixing of stopper brackets firmly at a fixed location.

Product no. / Details

Product no.	Material	Color	Pack of
DRS35-2	PA66	Light Gray	2
DRS35-2-P	PA66	Light Gray	50

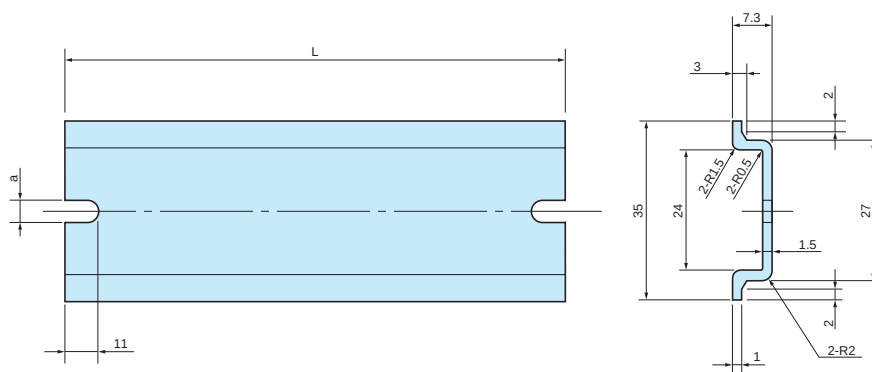
FDR series

DIN RAIL



Application example

- DIN Rail for installation of terminals, relays, or switches inside enclosures.
- Suitable for DIN Rail types of various manufacturers.



Product no. / Details

Product no.	L	a	Matching boss pitch	Weight
FDR- 50	50	4.2	32 ~ 42	8.6
FDR- 57	57	4.2	39 ~ 49	9.5
FDR- 66	66	4.2	48 ~ 58	10
FDR- 77	77	4.2	59 ~ 69	12
FDR- 80	80	4.2	62 ~ 72	13
FDR- 87	87	4.2	69 ~ 79	14
FDR- 92	92	4.2	74 ~ 84	15
FDR-100	100	4.2	82 ~ 92	17.8
FDR-106	106	4.2	88 ~ 98	19
FDR-110	110	4.2	92 ~ 102	20
FDR-120	120	4.2	102 ~ 112	21
FDR-128	128	4.2	110 ~ 120	23
FDR-137	137	4.2	119 ~ 129	24
FDR-142	142	4.2	124 ~ 134	25
FDR-146	146	4.2	128 ~ 138	26
FDR-150	150	4.2	132 ~ 142	25.8
FDR-168	168	4.2	150 ~ 160	30
FDR-170	170	4.2	152 ~ 162	30
FDR-186	186	4.2	168 ~ 178	32
FDR-202	202	4.2	184 ~ 194	37
FDR-205	205	4.2	187 ~ 197	36
FDR-223	223	4.2	205 ~ 215	39.3
FDR-226	226	4.2	208 ~ 218	39
FDR-235	235	4.2	217 ~ 227	42
FDR-242	242	4.2	224 ~ 234	43
FDR-249	249	4.2	231 ~ 241	43
FDR-283	283	4.2	265 ~ 275	49
FDR-300	300	4.2	282 ~ 292	52
NEW FDR-314	314	4.2	296 ~ 306	51.5
FDR-350	350	4.2	332 ~ 342	60
FDR-400	400	4.2	382 ~ 392	69
FDR-450	450	4.2	432 ~ 442	78
FDR-550	550	4.2	532 ~ 542	94

Product no.	L	a	Matching boss pitch	Weight
NEW FDR-B106	106	6.5	90 ~ 96	17.5
FDR-B124	124	6.5	108 ~ 114	21.4
FDR-B142	142	6.5	126 ~ 132	24
FDR-B160	160	6.5	144 ~ 150	28
FDR-B165	165	6.5	149 ~ 155	28
FDR-B176	176	6.5	160 ~ 166	30
FDR-B183	183	6.5	167 ~ 173	30
FDR-B196	196	6.5	180 ~ 186	33
FDR-B223	223	6.5	207 ~ 213	37
FDR-B256	256	6.5	240 ~ 246	43
FDR-B260	260	6.5	244 ~ 250	45
NEW FDR-B276	276	6.5	260 ~ 266	47.5
FDR-B303	303	6.5	287 ~ 293	52
NEW FDR-B327	327	6.5	311 ~ 317	56.2
FDR-B338	338	6.5	322 ~ 328	57
FDR-B360	360	6.5	344 ~ 350	63
FDR-B376	376	6.5	360 ~ 366	64
FDR-B383	383	6.5	367 ~ 373	65
FDR-B463	463	6.5	447 ~ 453	87
FDR-1000	1,000	—	—	169.5

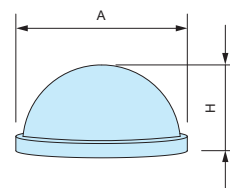
- Material / Finish: A6063S-T5 / Silver anodized
- FDR-1000 does not have mounting holes.

SCR series

SELF-ADHESIVE CLEAR RUBBER FEET



■ DXF/DWG/PDF drawings available on our website.



- Hemispherical semi-transparent type rubber feet with adhesive tape.
- Please note synthetic rubber may leave stains on the touching surface after an extended period of time.

Product No. / Details

■ Material / Color: Synthetic rubber / Semi-clear

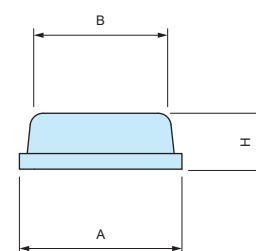
Product No.	A	H	Weight (g)	Pack of
SCR 8- 3	8	3	0.1 (1 pc)	10 pcs
SCR11- 5	11	5	0.4 (1 pc)	10 pcs
SCR12- 8	12	8	0.8 (1 pc)	10 pcs
SCR16- 8	16	8	1.2 (1 pc)	10 pcs
SRC19-10	19	10	2.3 (1 pc)	10 pcs

SCRC series

SELF-ADHESIVE CLEAR RUBBER FEET, CYLINDRICAL SHAPE



■ DXF/DWG/PDF drawings available on our website.



- Cylindrical semi-transparent type rubber feet with adhesive tape.
- Please note synthetic rubber may leave stains on the touching surface after an extended period of time.

Product No. / Details

■ Material / Color: Synthetic rubber / Semi-clear

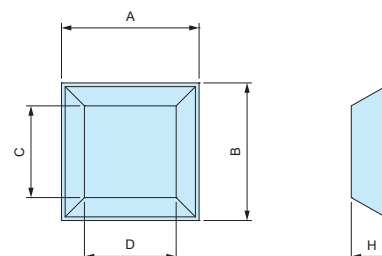
Product No.	A	B	H	Weight (g)	Pack of
SCRC 8-2	8.2	7.9	2.2	0.1 (1 pc)	10 pcs
SCRC10-4	10.3	8	4	0.3 (1 pc)	10 pcs
SCRC11-3	11.1	10.3	3.4	0.3 (1 pc)	10 pcs
SCRC13-4	12.5	10.3	4.4	0.4 (1 pc)	10 pcs
SCRC15-4	15	14	4.2	0.7 (1 pc)	10 pcs
SCRC18-6	17.6	16.6	5.6	1.3 (1 pc)	10 pcs

SCRS series

SELF-ADHESIVE CLEAR RUBBER FEET, SQUARE SHAPE



■ DXF/DWG/PDF drawings available on our website.



- Square shape semi-transparent type rubber feet with adhesive tape.
- Please note synthetic rubber may leave stains on the touching surface after an extended period of time.

Product No. / Details

■ Material / Color: Synthetic rubber / Semi-clear

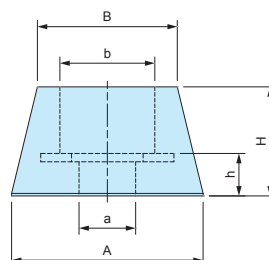
Product No.	A	B	H	C	D	Weight (g)	Pack of
SCRS11-3	10.5	10.5	2.7	8	8	0.2 (1 pc)	10 pcs
SCRS11-4	10.5	10.5	4.2	8	8	0.4 (1 pc)	10 pcs
SCRS13-3	12.7	12.7	3.4	9	9	0.4 (1 pc)	10 pcs
SCRS13-6	12.7	12.7	6.3	7	7	0.7 (1 pc)	10 pcs

B-P series**SCREW MOUNT RUBBER FEET**

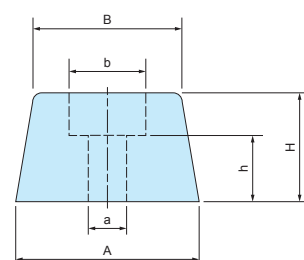
■ DXF/DWG/PDF drawings available on our website.



- Built-in washer and non-washer types are available.
- Please note color may be transferred from the synthetic rubber material after an extended period of time.



B-P1S, P1M, P1L, P2S, P4, P5



B-P1, P2, P3

Product no. / Details

■ Color : Black

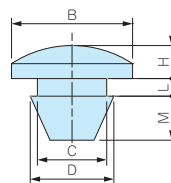
Product no.	A	B	H	a	b	h	Washer	Material	Weight (g)	Pack of
B-P1S	11.5	8.4	7.2	3.4	5.7	3.2	○	Synthetic rubber	0.8 (1pc)	10
B-P1M	15	15	4	3.5	7.4	2.2	○	Synthetic rubber	1.3 (1pc)	10
B-P1	15	13	7.7	3	6	4.2	×	Synthetic rubber	1.6 (1pc)	10
B-P1L	16	13	7.8	3	6	3.7	○	Synthetic rubber	1.7 (1pc)	10
B-P2S	18	15	11	3	6	5	○	Synthetic rubber	3.9 (1pc)	10
B-P2	19	15	8	3	6	4.5	×	Synthetic rubber	2.5 (1pc)	10
B-P3	22	18	13	3	7.5	7	×	Synthetic rubber	4.6 (1pc)	10
B-P4	32	26	20	5	15	10	○	EPDM	15 (1pc)	10
B-P5	32	28	15	5	14	10	○	EPDM	12.4 (1pc)	10

B-P series**SNAP-IN RUBBER FEET**

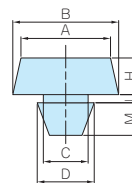
■ DXF/DWG/PDF drawings available on our website.



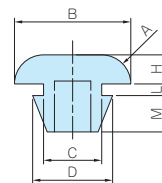
- Hole milling required for installation.
- Please note color may be transferred from the synthetic rubber material after an extended period of time.



B-P10



B-P10S, P11, P12



B-P13, P14, P15

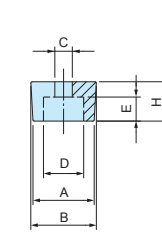
Product no. / Details

■ Color : Black

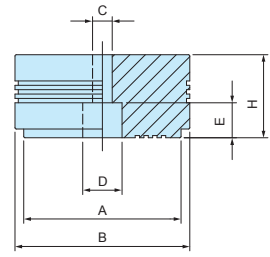
Product no.	A	B	H	C	D	L	M	Material	Weight (g)	Pack of
B-P10S	8	8	2	5	5.6	0.9	3	Silicone UL94V-0	0.2 (1pc)	10
B-P10	—	11	3	6.3	7.6	1.6	4	Silicone UL94V-0	0.5 (1pc)	10
B-P11	11	13	4.5	5.5	7	1	4	Synthetic rubber	0.8 (1pc)	10
B-P12	15	17	4.5	5.5	7	1	4	Synthetic rubber	1.3 (1pc)	10
B-P13	R3	12	3	5	7	1.6	4	EPDM	0.5 (1pc)	10
B-P14	R4	14	4	6	9	1.6	5	EPDM	0.7 (1pc)	10
B-P15	R4	16	4	8	11	1.6	5	EPDM	1.2 (1pc)	10

A-P SERIES**SCREW MOUNT ELASTOMER FEET**

■ DXF/DWG/PDF drawings available on our website.



A-P1 ~ A-P5



A-P6

- Prepare screws for installation.
- Resistant against color migration.

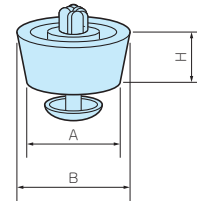
Product no. / Dimensions

■ Material / Color : Elastomer / Black

Product no.	A	B	H	C	D	E	Pack of
A-P1	9.4	10.8	4	3.3	6.8	2	10
A-P2	13.4	14.2	5.5	3	8	3.5	10
A-P3	14	15	9	4	9.5	6	10
A-P4	20	21	8	4	8.2	5	10
A-P5	20	24	14	5.5	8.6	8	10
A-P6	36	40	19	4.5	9	7.5	10

TP SERIES**SNAP-IN ELASTOMER FEET**

■ DXF/DWG/PDF drawings available on our website.



- Easy installation with snap-in pin.
- Require a hole for installation.
- Resistant against color migration.

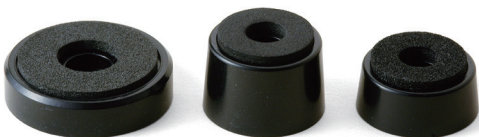
Product no. / Dimensions

■ Material / Color : (Feet) TPR, PE (TP-6) • (PIN) PP / Black

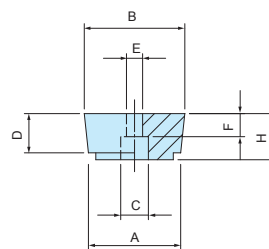
Product no.	A	B	H	Mounting hole	Panel thickness	Pack of
TP-1	12	12.7	4.4	5	1.0 ~ 2.0	10
TP-2	15	15.7	4.4	5	1.0 ~ 2.0	10
TP-3	17.2	19.2	7.9	8	0.8 ~ 1.2	10
TP-4	18	20	10	8	1.0 ~ 2.5	10
TP-5	19.8	20.8	6.4	8	1.0 ~ 2.5	10
TP-6	19.5	23.7	13.7	8	1.0 ~ 2.5	10
TP-7	26.5	29.4	15	10	1.0 ~ 3.5	10

TM SERIES**PLASTIC FEET**

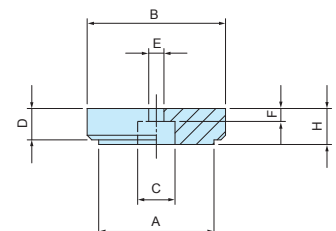
■ DXF/DWG/PDF drawings available on our website.



- Plastic feet equipped with soft padding on the bottom to prevent sliding.



TM-1, TM-2



TM-1S, TM-3

Product no. / Dimensions

Product no.	A	B	H	C	D	E	F	Feet material	Pad material	Color	Pack of
TM-1S	15.9	19.5	6.3	7	5.8	4	2.3	ABS UL94HB	Silicone	Black	10
TM-1	20	21.8	10	7.2	8.5	3.5	4.5	ABS UL94HB	EVA	Black	10
TM-2	20	21.8	15	7.2	13.5	3.5	4.5	ABS UL94HB	EVA	Black	10
TM-3	25	30	7.8	8.1	6.8	3.3	2.7	ABS UL94HB	EVA	Black	10

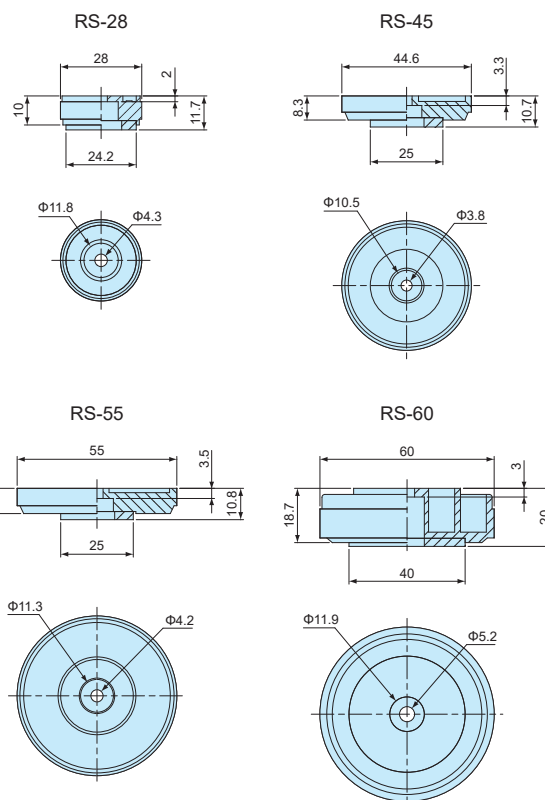
RS series

PLATED PLASTIC FEET



- Suitable for audio equipment use.
- Elastomeric foam pad is located on the underside of the feet.

RS dimensions



■ DXF/DWG/PDF drawings available on our website.

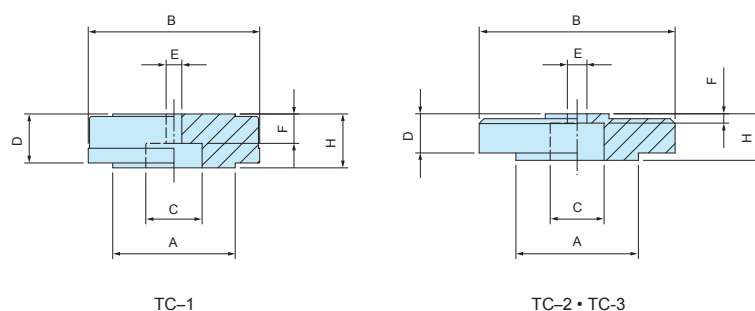
TC series

ALUMINIUM FEET



- Aluminium material gives it a refined and elegant look.
- Suitable for audio equipment use.
- Elastomeric foam pad is located on the underside of the feet.

TC dimensions



■ DXF/DWG/PDF drawings available on our website.

Product no. / Details

Product no.		A	B	C	D	E	F	H	Material	Pack of
● Silver	● Gold									
TC-1S	TC-1G	25	35	11.5	9.7	3.4	5.6	11.5	ABS UL94HB / Aluminium / EVA	4
TC-2S	TC-2G	25	40	10.5	10.4	4.1	2.4	12.5	ABS UL94HB / Aluminium / EVA	4
TC-3S	TC-3G	25	45	11.7	13	4.2	7.5	15	ABS UL94HB / Aluminium / EVA	4

AFS•AFM series

ALUMINIUM ISOLATION FEET



External type / Shot blast finish AFS series



Internal type / Reflective finish AFM series

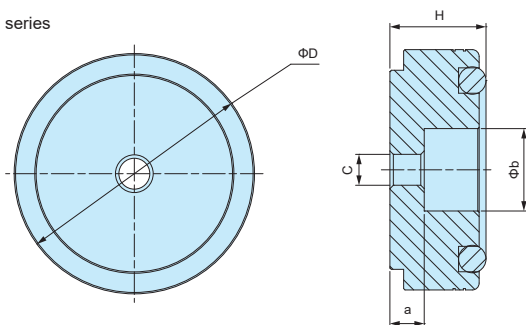
- The surface treatment and finish allows the feet to exhibit a polished and luxurious feel.
- Non-slip NBR O-ring is located on the underside of the feet.

Product no. / Details

Product no.		D	H	Installation type	C	a	b	Pack of
● Silver	● Black							
AFS20- 8S	AFS20- 8B	20	8	External	Φ3.4	3	9	4
AFS25-10S	AFS25-10B	25	10	External	Φ4.5	4	12	4
AFS30-12S	AFS30-12B	30	12	External	Φ4.5	5	12	4
AFS35-14S	AFS35-14B	35	14	External	Φ4.5	5	12	4
AFS39-16S	AFS39-16B	39	16	External	Φ4.5	5	15	4
AFS44-18S	AFS44-18B	44	18	External	Φ4.5	5	20	4
AFS55-20S	AFS55-20B	55	20	External	Φ5.5	5	20	4
AFM15- 7S	—	15	7	Internal	M3	4	—	4
AFM20- 9S	—	20	9	Internal	M3	5	—	4
AFM25-12S	—	25	12	Internal	M4	7	—	4
AFM30-14S	—	30	14	Internal	M4	8	—	4
AFM35-16S	—	35	16	Internal	M4	10	—	4
AFM39-18S	—	39	18	Internal	M4	10	—	4
AFM44-20S	—	44	20	Internal	M4	10	—	4
AFM55-22S	—	55	22	Internal	M5	15	—	4

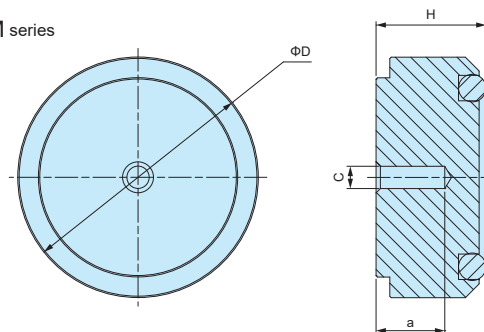
AFS • AFM dimensions

AFS series



- DXF/DWG/PDF/STP drawings available on our website.

AFM series



APPLICATION EXAMPLE



TLW series

TILT LEG



APPLICATION EXAMPLE

- Double shot injection molded feet with soft and well-designed rounded shape.
- Non-slip design with Elastomer (TPE) pad.
- Available in 3 different color patterns (2 color patterns for TLW-70 models).
- TLW-70E models are exclusively for use with width 185mm or larger bottom covers of EXP • EXPE • EXW • EX • EXH • EXHE aluminium enclosures.

Technical Data

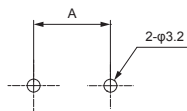
Max load : 7kg

Components

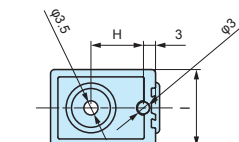
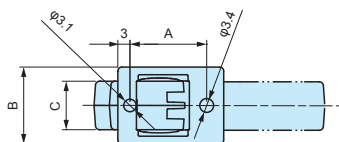
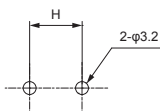
No.	Part name	Pcs	Material	Color / Finish
1	Front foot	2	PC + ABS UL94V-0 • TPE	Black & Black • Navy & Gray • Light gray & Gray
2	Rear foot	2	PC + ABS UL94V-0 • TPE	Black & Black • Navy & Gray • Light gray & Gray
-	Screw	4	Steel M3-8 pan head	Black trivalent chromate
-	Nut	4	Steel M3	Black trivalent chromate

TLW dimensions

Mounting hole (Front)

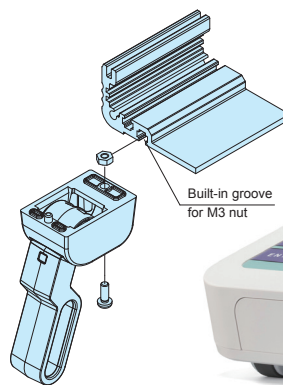


Mounting hole (Rear)



1

2

Built-in groove
for M3 nut

- DXF/DWG/PDF/STP drawings available on our website.

- TLW-70E□□ models are for installation (with M3 nut) into the built-in grooves on bottom-covers of EXP • EXPE 20-6, EXH • EXHE • EX 19-4 or larger models.

- Hole milling is required to install TLW-46□□ and TLW-70□□ models.
- Max installation panel thickness : t = 3.5mm

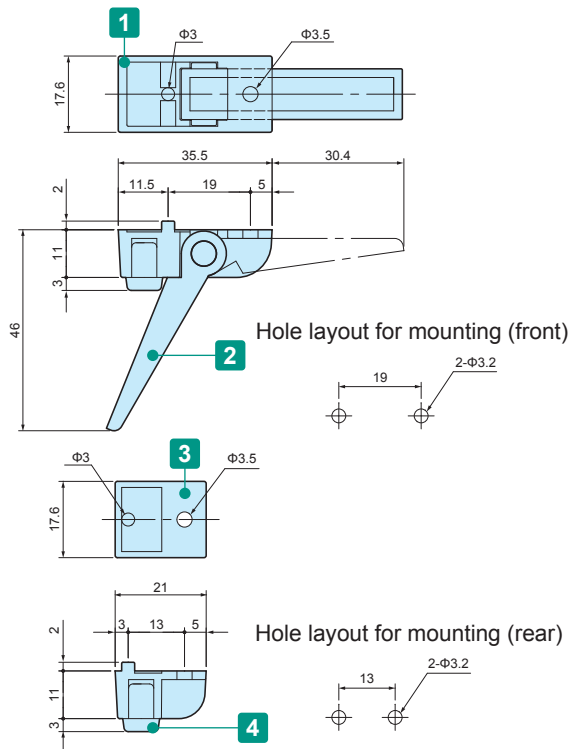
Product no. / Details

Product no.	A	B	C	D	E	F	G	H	I	J	K	L	Color (plastic)	Color (TPE)	Weight (g)
TLW-46BB	19	19	12	51.2	45.9	2	14	13	19	27	14	2	Black	Black	23
TLW-46NG	19	19	12	51.2	45.9	2	14	13	19	27	14	2	Navy	Gray	23
TLW-46LG	19	19	12	51.2	45.9	2	14	13	19	27	14	2	Light gray	Gray	23
TLW-70EBB	-	25	16	75.4	69	3	21.5	-	25	39	21.5	3	Black	Black	59
TLW-70ENG	-	25	16	75.4	69	3	21.5	-	25	39	21.5	3	Navy	Gray	59
TLW-70ELG	-	25	16	75.4	69	3	21.5	-	25	39	21.5	3	Light gray	Gray	59
TLW-70BB	30	25	16	75.4	69	2	21.5	20	25	39	21.5	2	Black	Black	59
TLW-70LG	30	25	16	75.4	69	2	21.5	20	25	39	21.5	2	Light gray	Gray	59

TL series TILT LEG

TL dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

* Maximum load = 7 kg

No.	Part name	Pcs	Material	Color / Finish
1	Front feet	2	ABS UL94HB	Black • Light gray • Dark gray
2	Leg	2	ABS UL94HB	Black • Light gray • Dark gray
3	Rear feet	2	ABS UL94HB	Black • Light gray • Dark gray
4	Rubber feet	4	EPDM	Gray • Black
-	Screw	4	Steel	Black trivalent chromate

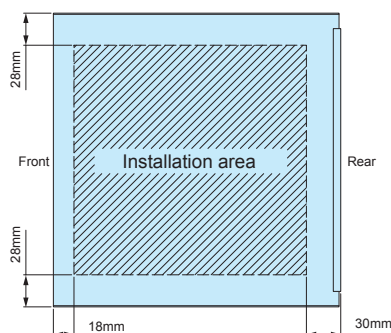
■ Included screws: M3-8 and M3 nut (with washer) set.

Product no. / Details

Product no.	Color (body)	Color (rubber feet)	Sales unit
● TL-45BB	Black	Black	1 set
○ TL-45SG	Light gray	Gray	1 set
● TL-45DG	Dark gray	Gray	1 set

■ EPDM (black) may have its color migrate onto the placement surface.

MS SERIES INSTALLATION AREA



CBF-1G CABLE HOOK



- Used for wrapping and securing cords and wires.
- Can be used with a variety of different enclosure series and models.
- Requires a panel thickness of between 1.0 ~ 3.0mm.

Product no. / Details

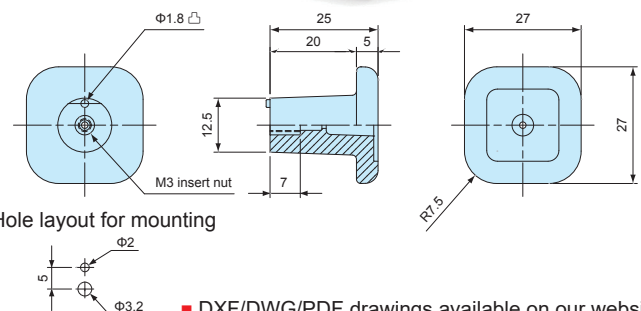
Product no.	Material	Color	Pack of
CBF-1G	ABS UL94HB	Gray	4

■ Included screws: M3-8 trivalent chromate (with washer) x 4 pcs



CBF dimensions

APPLICATION EXAMPLE



■ DXF/DWG/PDF drawings available on our website.

SB1250

SHOULDER STRAP



Can be attached directly onto NK • NKK series cases.

*Not applicable for NK903, NK904, NKK990, NK • NKK950 and NK • NKK960 models.



- Polypropylene strap with PVC shoulder pad to provide cushioning as well as reducing burden on the shoulders.
- Usable with other bags or cases with a D-ring or similar attachment.
- Strap length is adjustable anywhere from 750mm to 1250mm.
- 38mm strap width.

Technical Data

Max load : 11kg

*Reference value only.

Components

No.	Part name	Pcs	Material	Color
1	Strap	1	Polypropylene	Black
2	Shoulder pad	1	PVC	Black
3	Strap adjuster	1	POM	Black
4	Swivel snap hook	2	POM	Black

Product no. / Details

Product no.	Weight (g)	Pack of
SB1250	108	1

Application example

Can be attached directly onto MAXI series (with GF-30 Bolt-on D-ring)


Related Products


WATERPROOF PROTECTOR CASE
NK • NKK series



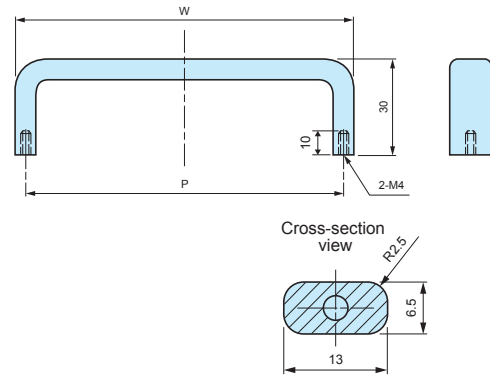
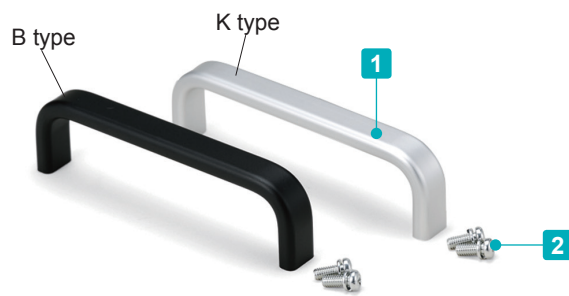
PLASTIC CARRYING CASE
MAXI series



BOLT-ON D-RING
GF-30

OH SERIES

ALUMINIUM HANDLE



Components

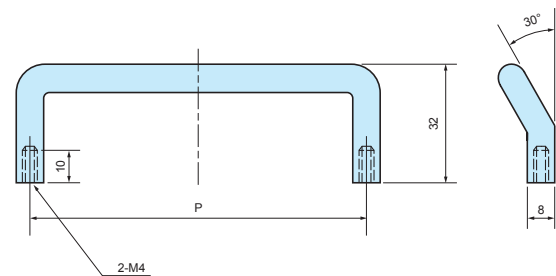
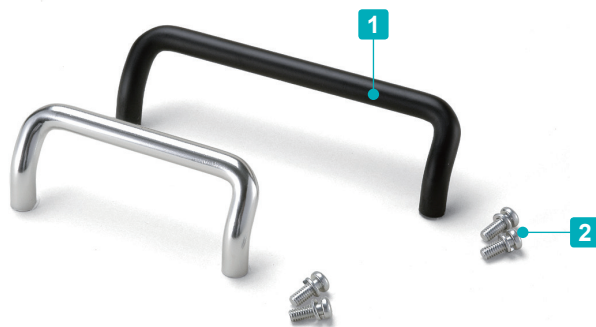
No.	Part name	Pcs	Material	Color / Finish
1	Handle	1	Extruded aluminium A6063S-T5	Matte anodized
2	Screw (M4-10 Pan head with spring washer)	2	Steel	Trivalent chromate

Product no. / Dimensions

Product no.		P	W	Pack of
● Black matte anodized	● Silver matte anodized			
OH- 55B	OH- 55K	55	61.5	2
OH- 70B	OH- 70K	70	76.5	2
OH- 85B	OH- 85K	85	91.5	2
OH-100B	OH-100K	100	106.5	2
OH-120B	OH-120K	120	126.5	2
OH-140B	OH-140K	140	146.5	2
OH-170B	OH-170K	170	176.5	2

KH SERIES

ANGLED ALUMINIUM HANDLE

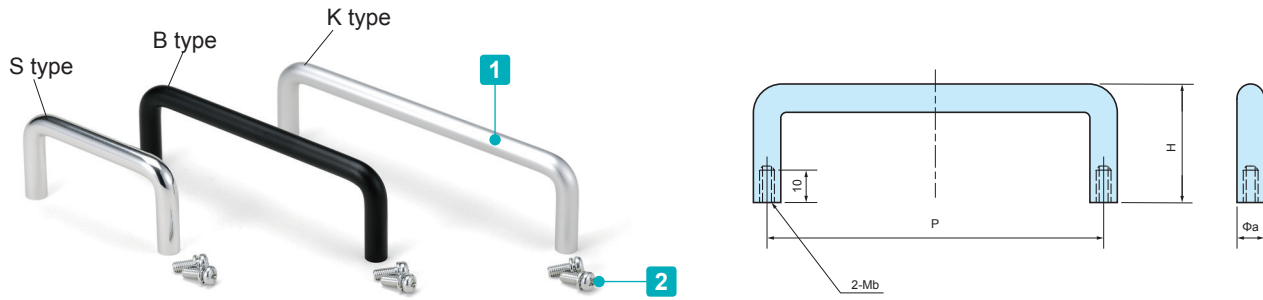


Components

No.	Part name	Pcs	Material	Color / Finish
1	Handle	1	Extruded aluminium A5056S	Polished • Matte anodized
2	Screw (M4-10 Pan head with spring washer)	2	Steel	Trivalent chromate

Product no. / Dimensions

Product no.		P	Pack of
● Silver polished	● Black matte anodized		
KH- 70S	KH- 70B	70	2
KH-100S	KH-100B	100	2

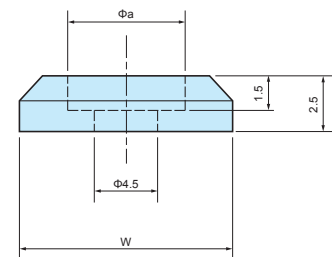
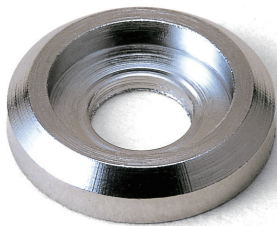
BH SERIES**ROUNDED ALUMINIUM HANDLE****Components**

No.	Part name	Pcs	Material	Color / Finish
1	Handle	1	Extruded aluminium A5056S	Polished • Matte anodized
2	Screw	2	Steel	Trivalent chromate

Product no. / Dimensions

■ K type only available on BH-100, 120, 150, and 180 models.

Product no.			P	H	a	b	Pack of
● Silver polished	● Black matte anodized	● Silver matte anodized					
BH- 26S	BH- 26B	–	26	25	6	3	2
BH- 30S	BH- 30B	–	30	35	8	4	2
BH- 50S	BH- 50B	–	50	35	8	4	2
BH- 60S	BH- 60B	–	60	35	8	4	2
BH- 70S	BH- 70B	–	70	35	8	4	2
BH- 80S	BH- 80B	–	80	35	8	4	2
BH-100S	BH-100B	BH-100K	100	35	8	4	2
BH-110S	BH-110B	–	110	35	8	4	2
BH-120S	BH-120B	BH-120K	120	35	8	4	2
BH-150S	BH-150B	BH-150K	150	35	8	4	2
BH-180S	BH-180B	BH-180K	180	35	8	4	2

Z-P SERIES**WASHER for HANDLE**

■ Brass washer for BH • KH series.

Product no. / Dimensions

■ Material / Brass

Product no.		W	a	Pack of
Chrome plated	Black painted			
Z-P6S	Z-P6B	10	6.2	10
Z-P8S	Z-P8B	12	8.2	10

FM200 series

ELASTOMER CARRYING HANDLE



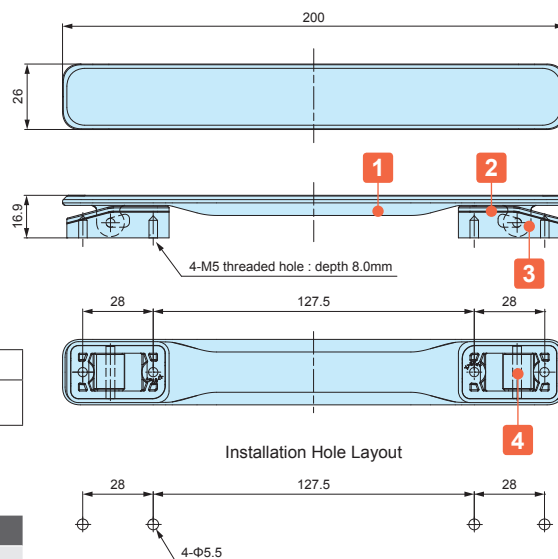
- Comfortable and easy to grip elastomer handle.

Product no. / Details

Product no.	
● Black	● Gray
FM200B	FM200G

Technical Data

Max load : 20kg



Components

No.	Part name	Pcs	Material	Color / Finish
1	Grip	1	PU	Black • Gray
2	Base	2	PA6	Black • Gray
3	Base cover	2	ABS	Black • Gray
4	Shaft	2	SWCH	Nickel plated
-	Self-tapping screw (Pan head M5-8)	4	Steel	Trivalent chromate

MH series

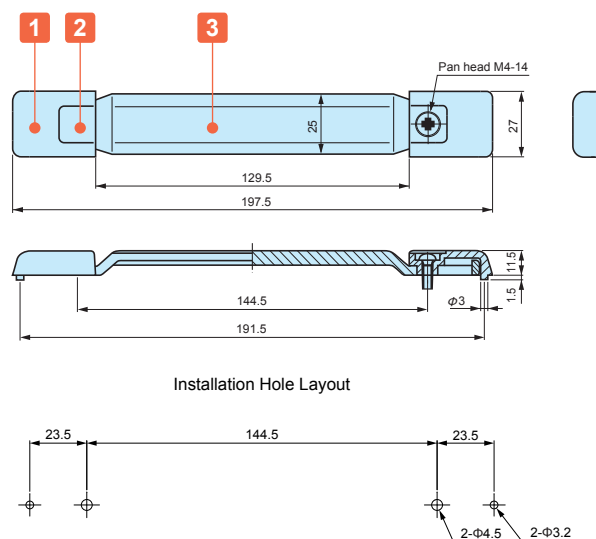
CARRYING HANDLE



- If chemicals, cutting fluid, etc. adhered to, or come into contact with areas where tensile stress is generated, there is a possibility that cracks may develop due to the synergistic effect of the chemicals and stress.

Technical Data

Max load : 20kg



Components

No.	Part name	Pcs	Material	Color / Finish
1	Holder	2	PC + ABS • ABS	Gray • Black
2	Blind cap	2	PP + Elastomer • Elastomer	Gray • Black
3	Grip	1	PP + Elastomer • Elastomer	Gray • Black
-	Screw (Pan head M4-14)	2	Steel	Trivalent chromate
-	Nut (M4)	2	Steel	Trivalent chromate
-	Spring washer	2	Steel	Trivalent chromate

Product no. / Details

Product no.	
● Black	● Gray
MH-197B	MH-197G

HK SERIES**ELASTOMER CARRYING HANDLE**

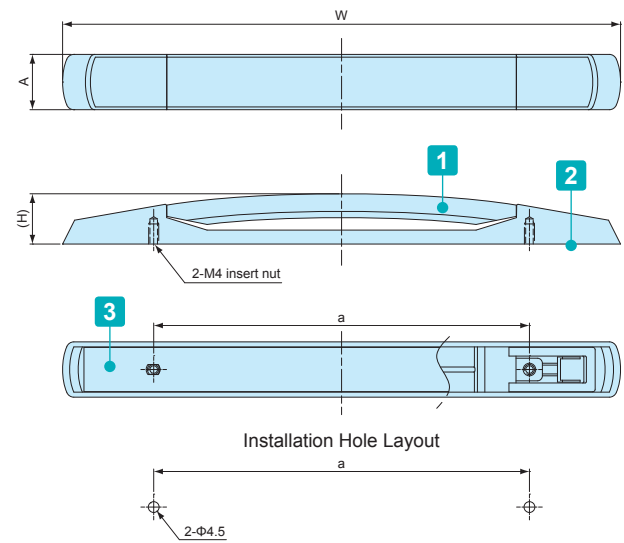
■ DXF/DWG/PDF drawings available on our website.



■ Elastomer handle that is comfortable to grip.

Technical Data

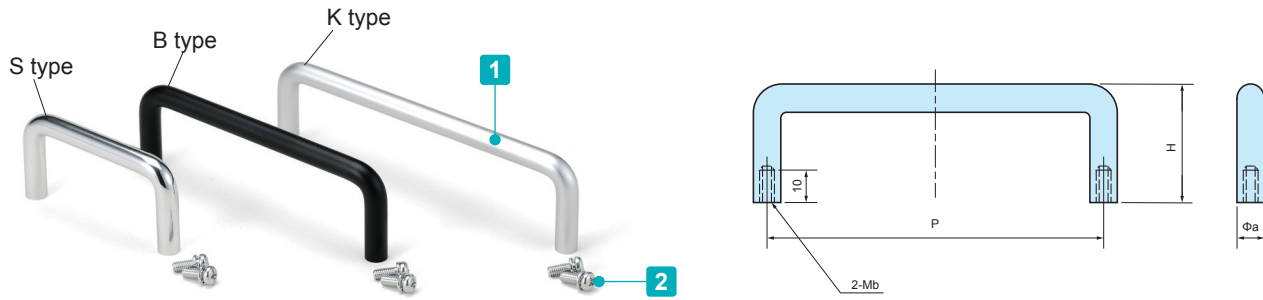
Max load : 20kg

**Components**

No.	Part name	Pcs	Material	Color / Finish
1	Grip	1	Elastomer	Black
2	Base	1	Polyamide	Black
3	Reinforcement	1	Stainless steel	Unfinished
—	Screw (Pan head M4-10 with washer)	2	Steel	Trivalent chromate

Product no. / Dimensions

Product no.	W	A	H	a
HK-1	222.5	22	20	149.5
HK-3	183	22	17	110.7

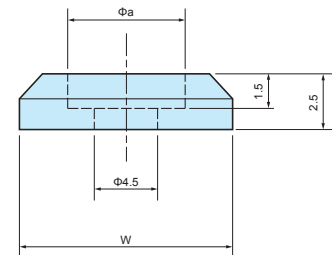
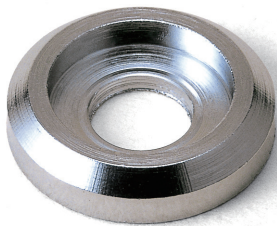
BH SERIES**ROUNDED ALUMINIUM HANDLE****Components**

No.	Part name	Pcs	Material	Color / Finish
1	Handle	1	Extruded aluminium A5056S	Polished • Matte anodized
2	Screw	2	Steel	Trivalent chromate

Product no. / Dimensions

■ K type only available on BH-100, 120, 150, and 180 models.

Product no.			P	H	a	b	Pack of
● Silver polished	● Black matte anodized	● Silver matte anodized					
BH- 26S	BH- 26B	–	26	25	6	3	2
BH- 30S	BH- 30B	–	30	35	8	4	2
BH- 50S	BH- 50B	–	50	35	8	4	2
BH- 60S	BH- 60B	–	60	35	8	4	2
BH- 70S	BH- 70B	–	70	35	8	4	2
BH- 80S	BH- 80B	–	80	35	8	4	2
BH-100S	BH-100B	BH-100K	100	35	8	4	2
BH-110S	BH-110B	–	110	35	8	4	2
BH-120S	BH-120B	BH-120K	120	35	8	4	2
BH-150S	BH-150B	BH-150K	150	35	8	4	2
BH-180S	BH-180B	BH-180K	180	35	8	4	2

Z-P SERIES**WASHER for HANDLE**

■ Brass washer for BH • KH series.

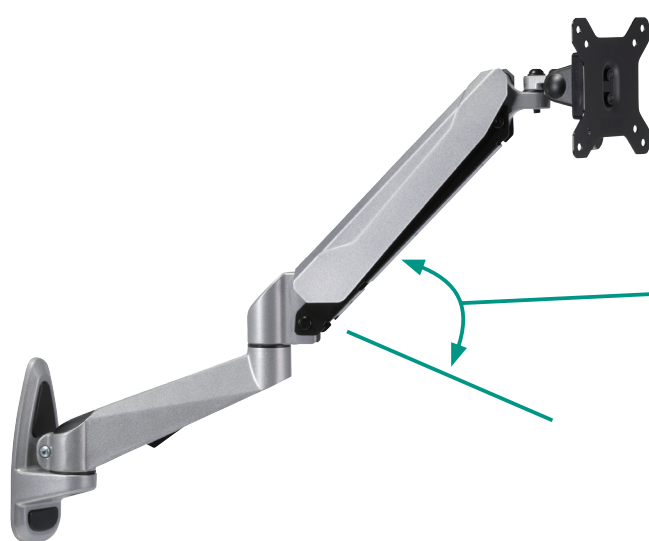
Product no. / Dimensions

■ Material / Brass

Product no.		W	a	Pack of
Chrome plated	Black painted			
Z-P6S	Z-P6B	10	6.2	10
Z-P8S	Z-P8B	12	8.2	10

MAR series**WALL MOUNT SUPPORT ARM**

- Wall mount support arm move easily to the preferred positions.
- Suitable for command panel on machinery and touch panel controller. Easy installation onto the wall as well.
- Hole pitch on the monitor bracket is compatible with VESA mount standards. Possible to mount PC display without modification.

MAR specifications**MAR-312W**

Adjustable bolt for up/down direction on arm is firmly set initially.
Adjust the movement according to the installed device.

Arm can move in up/down direction.

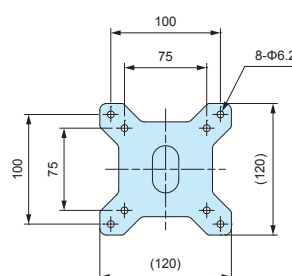
Arm full length ~ 612mm

Max load : 6.5kg (including product weight, adjustable bolt firmly locked)

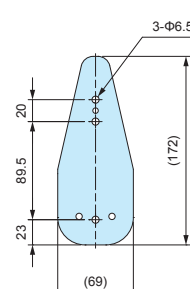
Material : Steel • Plastic • Aluminium diecast

*Wall mounting screws included.

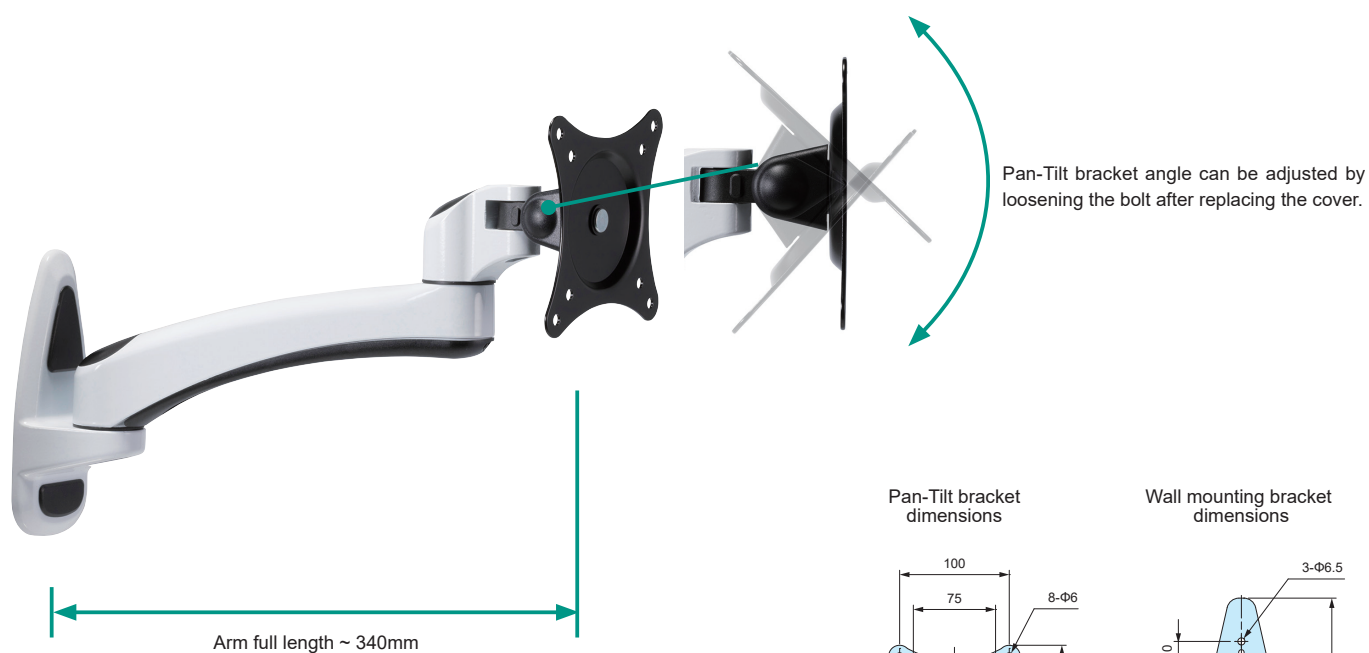
Pan-Tilt bracket dimensions



Wall mounting bracket dimensions

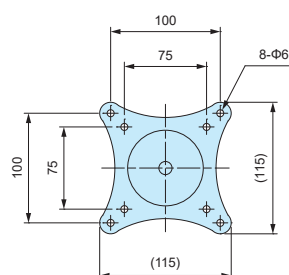


MAR-111W

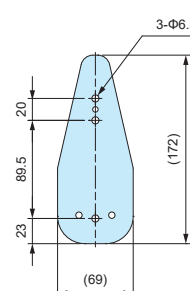


Max load : 8kg (including product weight)
 Material : Steel • Plastic • Aluminium diecast
 *Wall mounting screws included.

Pan-Tilt bracket dimensions



Wall mounting bracket dimensions

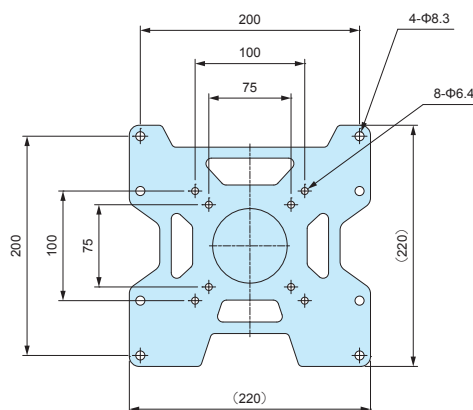


MAR-110W

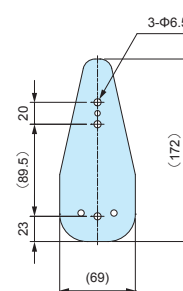


*Pan-Tilt bracket does not move in up/down direction.

Pan-Tilt bracket dimensions



Wall mounting bracket dimensions



Max load : 8kg (including product weight)
 Material : Steel • Plastic • Aluminium diecast
 *Wall mounting screws included.

Product no. / Details

Product no.	Arm full length	Arm color	Weight (kg)
MAR-312W	~ 612mm	Metallic gray	2.2
MAR-111W	~ 340mm	White / Black	1.0
MAR-110W	~ 143mm	White / Black	1.0

DST series**DOUBLE-SIDED MOUNTING TAPE**

- Super strong double-sided mounting tape with excellent cold and heat resistance.
- Allow cases to be attached onto any place.
- Easily attached onto walls where holes cannot be drilled.
- Can be used with a range of products, such as small IoT type enclosures.

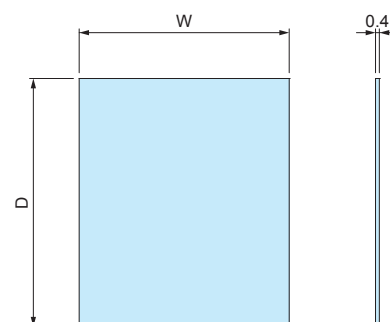
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

Notes:

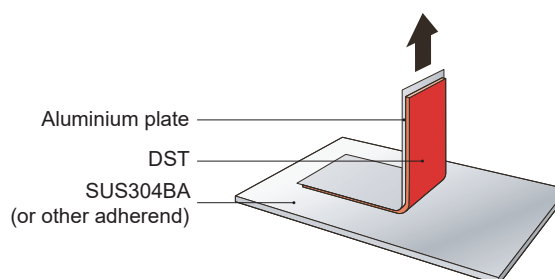
Due to the strong adhesive strength,
do ensure that the surface or product is suitable to be adhered onto.

Technical Data

Operating temperature:
-30°C ~ +200°C

**Adhesion Performance (90° peel adhesion)**

90° direction peel force N/cm	Stainless steel (SUS304BA)	24
	Aluminium (A1050P)	21
	Bonded steel plate (SECC)	30
	ABS	10
	Acrylic (PMMA)	16
	Polypropylene	6
	Polyethylene (HDPE)	3
	Glass	27

**[Test Method]**

Backed with specially treated Aluminium foil (130 μ m), crimped with a 10kg steel roller back and forth twice,
cured at room temperature for 72 hours, tensile speed 300mm/min.

*Data values listed are test results based on the test conditions, and are to be used as reference only.

*Adhesive strength and other physical properties vary depending on the adherend, bonding and curing conditions, and other factors.

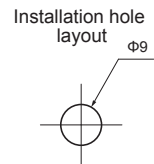
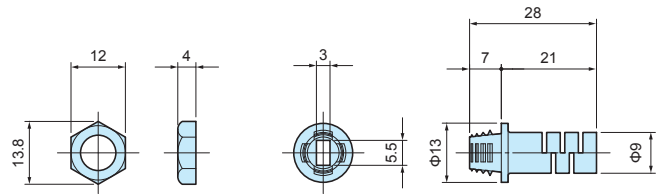
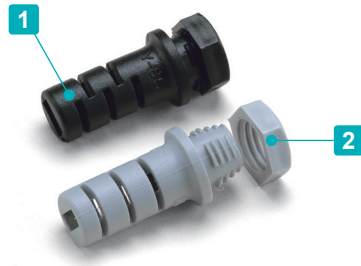
Product no. / Details

■ Material / Color: Acrylic foam base, acrylic adhesive / gray

Product no.	W	D	Suitable models	Weight (g)	Pack of
NEW DST14-22	14	22	SIC2-4-1 SW-30	0.3 / pc	5
NEW DST14-36	14	36	SIC2-5-1	0.4 / pc	5
DST18-40	18	40	SIC3-5-2 SW-(T)40 • 60	0.7 / pc	5
DST22-26	22	26	SIC3-4-2 SW-(T)40	0.5 / pc	5
DST24-48	24	48	SIC3-6-2 SW-50 • 53 • (N)(T)55 • (N)65 TW/TWN4-2-5 • 4-2-6 • 4-2-8	0.8 / pc	5

CP SERIES

CORD PROTECTOR



- Cord protector for protection against cord twists and breakage.
- Nut can be secured from the back side of the panel for additional stability.

Components

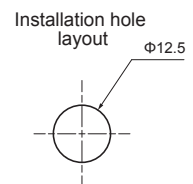
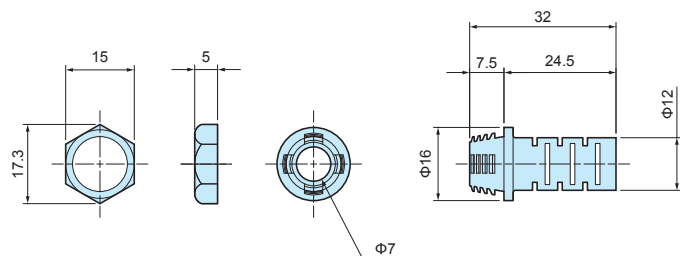
No.	Part name	Material
1	Connector	PVC
2	Nut	PP

Product no. / Feature

Product no.		Panel thickness	Cord diameter	Pack of
● Black	● Light Gray			
CP-Y85B	CP-Y85G	1.5 ~ 2.0	VFF0.75×2	10

CP SERIES

CORD PROTECTOR



- Cord protector for protection against cord twists and breakage.
- Nut can be secured from the back side of the panel for additional stability.

Components

No.	Part name	Material
1	Connector	PVC
2	Nut	PP

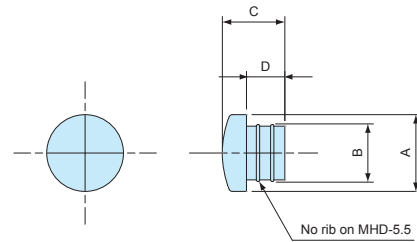
Product no. / Feature

Product no.		Panel thickness	Cord diameter	Cord shape	Pack of
● Black	● Light Gray				
CP-127B	CP-127G	1.5 ~ 2.0	Φ5.8 ~ Φ6.8	Round cord	10

MHD SERIES**SMALL HOLE PLUG**

■ DXF/DWG/PDF drawings available on our website.

- Small hole plug for $\Phi 5.0$, $\Phi 5.5$, $\Phi 7.0$, and $\Phi 8.0$ sized holes.
- Made from TPE (Elastomer) and silicone material.
- Applicable panel installation thickness between 1.0mm ~ 3.0mm.

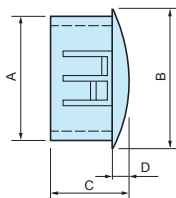
**Product no. / Dimensions**

Product no.	Material	Color	Mounting hole	A	B	C	D	Pack of
MHD-5	TPE	Black	$\Phi 5$	7	5.2	5.7	3.5	10
MHD-5.5	Silicone	Black	$\Phi 5.5$	7	5.6	5	3	10
MHD-7	TPE	Black	$\Phi 7$	9	7.2	5.7	3.5	10
MHD-8	TPE	Black	$\Phi 8$	10	8.2	5.7	3.5	10

HPL SERIES**HOLE PLUG**

- Hole plug for the unused holes.

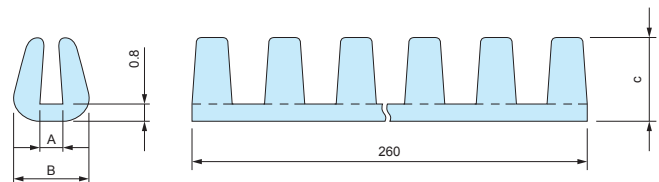
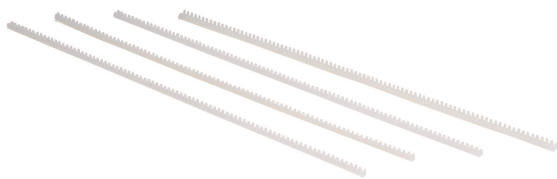
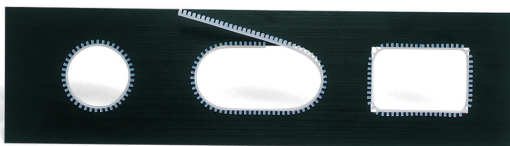
■ DXF/DWG/PDF drawings available on our website.

**Product no. / Dimensions**

■ Material / Color : PA66 UL94V-2 / Black

Product no.	A	B	C	D	Mounting hole	Panel thickness	Pack of
HPL- 8	7.6	10.4	8.1	1.6	$\Phi 8$	1.5/1.6	10
HPL-10	9.5	13	10.5	1.6	$\Phi 9.5$	1.0/2.0/2.5	10
HPL-13	12.5	16.7	10.9	1.6	$\Phi 12.5$	1.0/1.5/2.0/3.0	10
HPL-16	15.8	19.8	10	1.1	$\Phi 16$	1.0/1.2/3.0	10
HPL-19	18.9	23.2	10	1.4	$\Phi 19$	1.0/1.2	10
HPL-22	22	26	11.3	1.6	$\Phi 22$	1.0/1.2/2.0	10
HPL-25	25.4	29.1	12.3	2.4	$\Phi 25.5$	1.0/1.2/2.0	10
HPL-30	30	35	12	1.6	$\Phi 30$	1.0/1.2/2.0	10

■ Confirm first for usability on panel thickness not listed in the above chart.

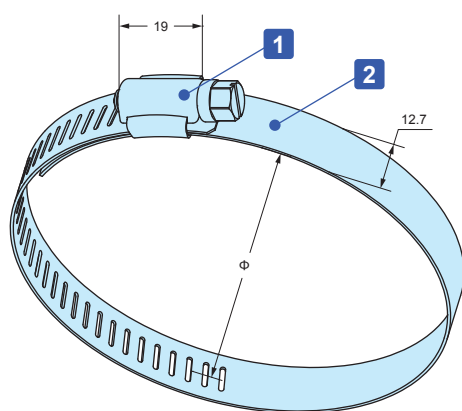
JKG SERIES**HOLE EDGE PROTECTOR**

- Install protector on the cut edge of the hole on the panel to protect cables and components from damage.
- Cut into suitable lengths to fit the hole.

Product no. / Dimensions

■ Material / Color : PA66 UL94V-2 / Natural

Product no.	A	B	C	Panel thickness	Pack of
JKG006N	0.6	3.1	3.8	0.5 ~ 0.7	10
JKG008N	0.8	3.1	3.8	0.7 ~ 0.9	10
JKG010N	1	3.3	3.8	0.9 ~ 1.1	10
JKG012N	1.2	3.5	3.8	1.1 ~ 1.3	10
JKG014N	1.4	3.7	3.8	1.3 ~ 1.5	10
JKG016N	1.6	3.9	3.8	1.4 ~ 1.7	10
JKG020N	2	4.3	3.8	1.8 ~ 2.0	10
JKG030N	3	6.2	4.8	2.5 ~ 3.0	10

SNB series**STAINLESS STEEL POLE MOUNTING STRAP****SNB dimensions**

- Corrosion resistant stainless steel (SUS304) belt clamp.
- It can be installed securely by tightening the screw.
- 8 mm nut driver (box driver) is recommended for tightening.
Flat-bladed screwdrivers can also be used.

Components

No.	Part name	Pcs	Material	Finish
1	Bracket	1	Stainless steel SUS304	Polished
2	Strap	1	Stainless steel SUS304	Polished

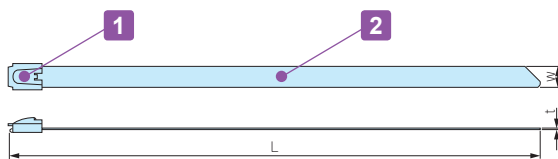
Product no. / Details

Product no.	Applicable diameter (Φ)	Strap width	Strap thickness	Recommended torque N · m	Weight (g)	Pack of
SNB 52- 76	52 ~ 76	12.7	0.6	0.7 ~ 1.0	27.5	1
SNB 72- 95	72 ~ 95	12.7	0.6	0.7 ~ 1.0	30	1
SNB 91-114	91 ~ 114	12.7	0.6	0.7 ~ 1.0	34.5	1
SNB105-127	105 ~ 127	12.7	0.6	0.7 ~ 1.0	37.5	1
SNB117-140	117 ~ 140	12.7	0.6	0.7 ~ 1.0	39.5	1
SNB130-153	130 ~ 153	12.7	0.6	0.7 ~ 1.0	41.5	1
SNB142-165	142 ~ 165	12.7	0.6	0.7 ~ 1.0	43.5	1
SNB155-178	155 ~ 178	12.7	0.6	0.7 ~ 1.0	46.5	1
SNB168-191	168 ~ 191	12.7	0.6	0.7 ~ 1.0	49	1
SNB181-204	181 ~ 204	12.7	0.6	0.7 ~ 1.0	51	1
SNB194-217	194 ~ 217	12.7	0.6	0.7 ~ 1.0	52.5	1
SNB207-230	207 ~ 230	12.7	0.6	0.7 ~ 1.0	57	1
SNB220-243	220 ~ 243	12.7	0.6	0.7 ~ 1.0	59.5	1
SNB233-256	233 ~ 256	12.7	0.6	0.7 ~ 1.0	62.5	1
SNB246-269	246 ~ 269	12.7	0.6	0.7 ~ 1.0	64	1
SNB259-282	259 ~ 282	12.7	0.6	0.7 ~ 1.0	67.5	1
SNB272-295	272 ~ 295	12.7	0.6	0.7 ~ 1.0	70	1
SNB285-308	285 ~ 308	12.7	0.6	0.7 ~ 1.0	71	1

■ Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

SNB Strap required

Suitable series	Suitable models						Required
SSK series	SSK-S1	SSK-160	SSK-170	SSK-200	SSK-210	SSK-250	2
	SSK-280	SSK-300	SSK-350	SSK-400	SSK-530		
WGMB series	WGMB-1W						1

SCT series**STAINLESS STEEL TIES for POLE MOUNTING**

- Corrosion resistant stainless steel (SUS304) cable tie.
- Can be used to bundle cables or mounting enclosures to poles.
- Self-locking bracket allows easy mounting / cable bundling.
- Designed for one time use only (not reusable).

- Suitable for easy mounting.
- Wear gloves or other protections while installation.

Components

No.	Part name	Pcs	Material	Finish
1	Bracket	1	Stainless steel SUS304	Polished
2	Strap	1	Stainless steel SUS304	Polished

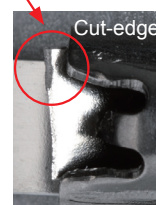
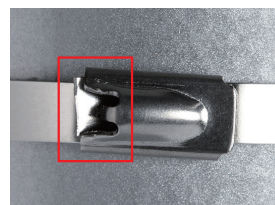
Product no. / Details

Product no.	W	L	t	Pack of
SCT 4.6- 100	4.6	100	0.25	10
SCT 4.6- 150	4.6	150	0.25	10
SCT 4.6- 200	4.6	200	0.25	10
SCT 4.6- 300	4.6	300	0.25	10
SCT 4.6- 500	4.6	500	0.25	2
SCT 4.6-1000	4.6	1,000	0.25	2
SCT 4.6-1500	4.6	1,500	0.25	2
SCT 7.9- 100	7.9	100	0.25	10
SCT 7.9- 150	7.9	150	0.25	10
SCT 7.9- 200	7.9	200	0.25	10
SCT 7.9- 300	7.9	300	0.25	10
SCT 7.9- 500	7.9	500	0.25	2
SCT 7.9-1000	7.9	1,000	0.25	2
SCT 7.9-1500	7.9	1,500	0.25	2

G3388**TIGHTEN GUN for SCT**

- Tool for cutting and tightening stainless steel strap.

*Be careful of the sharp cut-edge of strap.



Note: Tighten gun is not subject to RoHS regulations.

Product no.

G3388

SCT • G3388

PKB series**POLE MOUNTING BELT**

PKB-10PM, 10P



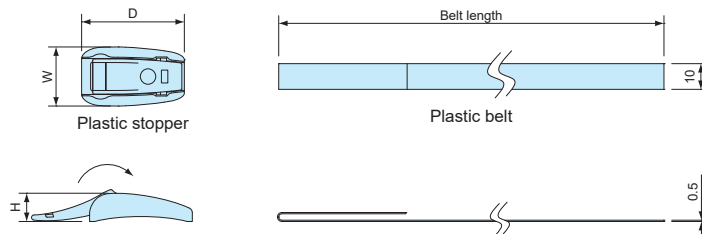
PKB-10S, 20S

- Pole mounting belt for attachment of enclosures with suitable pole mount brackets or construction onto poles.
- Designed for one time use only (not reusable).
- Strong stainless steel clamping type and easy installation plastic type are available.

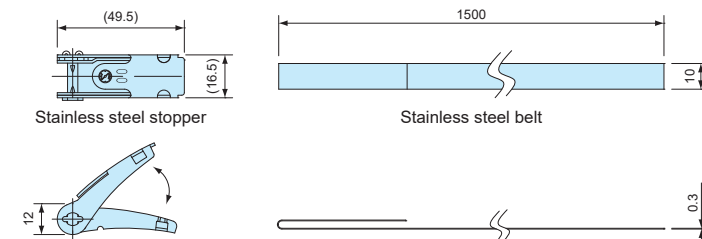
PKB dimensions

■ DXF/DWG/PDF drawings available on our website.

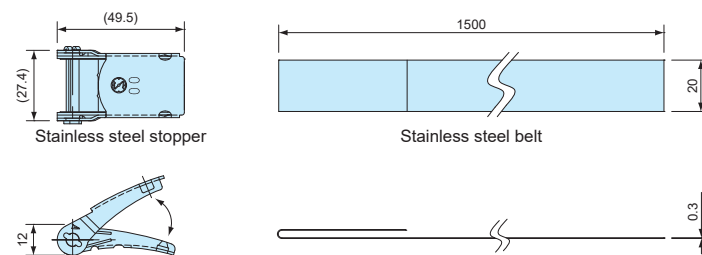
PKB-10PM, 10P



PKB-10S



PKB-20S

**Components**

Part name	Material	Color / Finish
Stopper	Stainless steel SUS304 • POM	Barrel finish • Black
Belt	Stainless steel SUS430 • PET	Bright annealed finish • Gray

Product no. / Details

Product no.	W	D	H	Belt length	Belt material	Tensile strength (horizontal)	Weight (g)	Pack of
PKB-10PM	23	24	11	500 mm	PET	0.8kN	14	2
PKB-10P	23	40	11	1,500 mm	PET	1.3kN	31.8	2
PKB-10S	—	—	—	1,500 mm	Stainless steel SUS304	1.4kN	101.6	2
PKB-20S	—	—	—	1,500 mm	Stainless steel SUS430	2.9kN	182.2	2

SFPC • CXP series**FIBER OPTIC PORT DUSTPROOF PLUG**

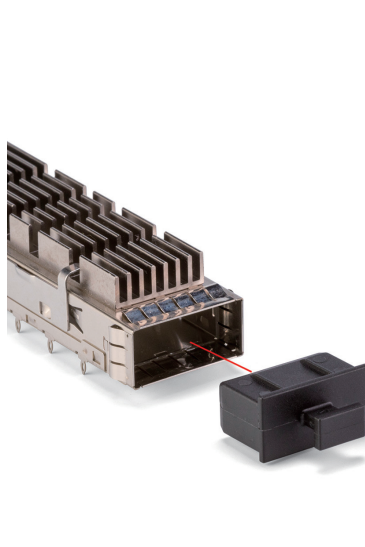
- Dustproof pull-tab cover plug for fiber optic connector port.

For SFP port

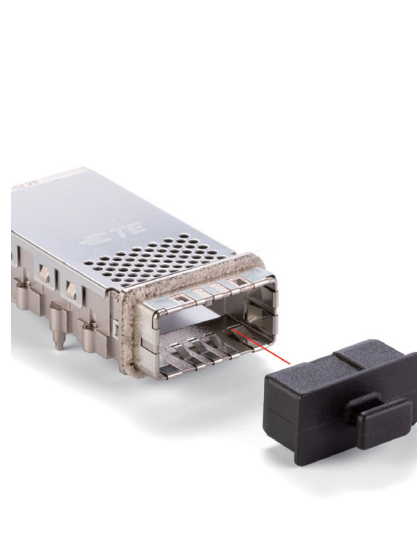
SFPC-11

**For QSFP port**

SFPC-12

**For CXP port**

CXP-2

**Product no. / Feature**

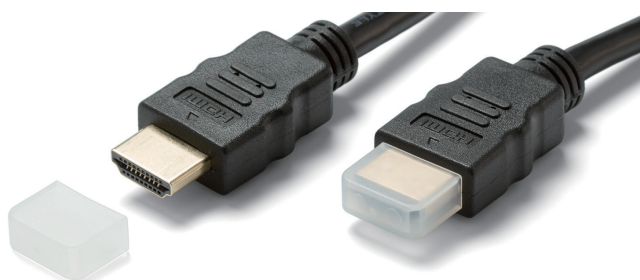
	Product no.	Material	Color	Pack of
NEW	SFPC-11	PE	Black	10
NEW	SFPC-12	PE	Black	10
NEW	CXP-2	PE	Black	10

- DXF/DWG/PDF drawings available on our website.

HDMIC series**HDMI DUSTPROOF BLIND PLUG****HDMIC-1 (Pull-tab type)****HDMIC-3 (No pull-tab type)****Product no. / Feature**

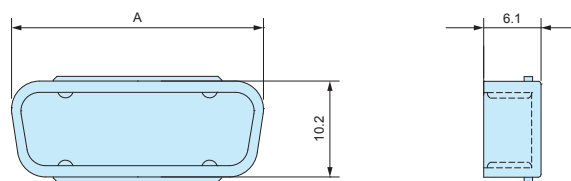
	Product no.	Material	Color	Pack of
	HDMIC-1	PE	Black	10
	HDMIC-3	ABS UL94HB	Black	10

- DXF/DWG/PDF drawings available on our website.

HDMIT-1**HDMI DUSTPROOF CONNECTOR COVER****Product no. / Feature**

	Product no.	Material	Color	Pack of
	HDMIT-1	PE	Natural	10

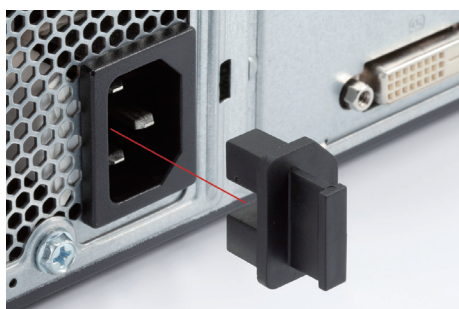
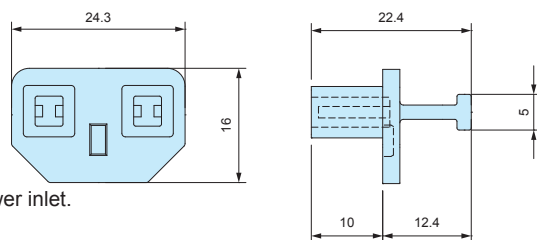
- DXF/DWG/PDF drawings available on our website.

DTC series**D-SUB•DVI DUSTPROOF CONNECTOR COVER****DTC dimensions**

■ DXF/DWG/PDF drawings available on our website.

Product no. / Dimensions / Feature

Product no.	Matching connector	A	Material	Color	Pack of
DTC- 9F	D-sub 9 pin	18.5	PP UL94HB	Gray	10
DTC-15F	D-sub 15 pin • DVI	26.8	PP UL94HB	Gray	10
DTC-25F	D-sub 25 pin	40.6	PP UL94HB	Gray	10

PLC-3TV**POWER INLET DUSTPROOF BLIND PLUG****PLC-3TV dimensions**

■ Pull-tab type blind plug for power inlet.

Product no. / Feature

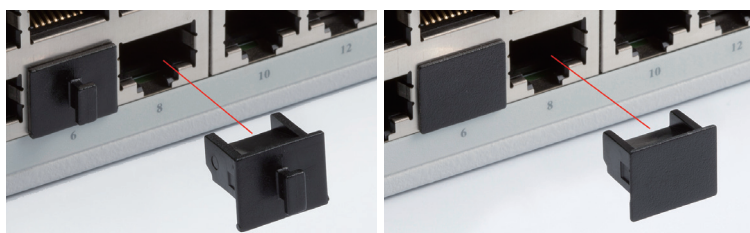
■ DXF/DWG/PDF drawings available on our website.

Product no.	Material	Color	Pack of
PLC-3TV	TPE UL94V-0	Black	5

PJR-45 • PJS-45**RJ45 DUSTPROOF BLIND PLUG**

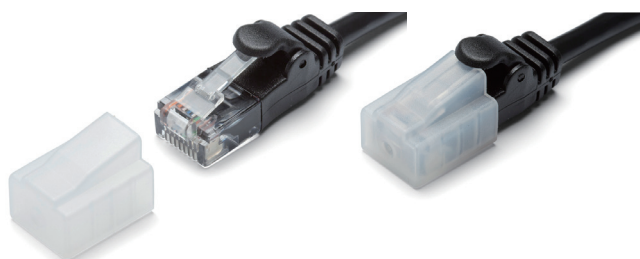
PJR-45 (Pull-tab type)

PJS-45 (No pull-tab type)

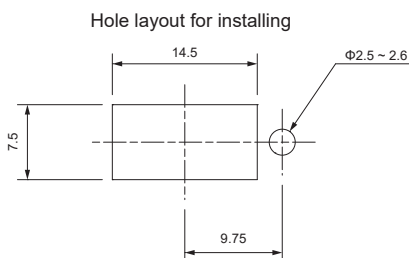
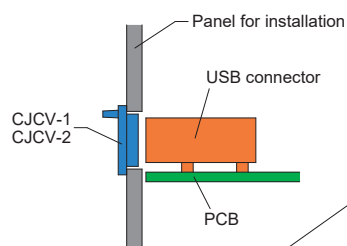
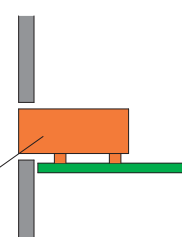
**Product no. / Feature**

Product no.	Material	Color	Pack of
PJR-45	PE	Black	10
PJS-45	ABS UL94HB	Black	10

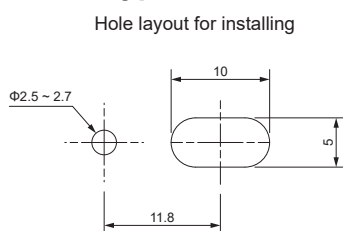
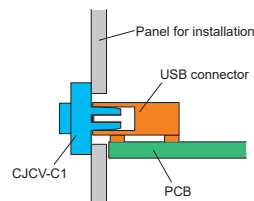
■ DXF/DWG/PDF drawings available on our website.

PJCV-1**RJ45 DUSTPROOF CONNECTOR COVER****Product no. / Feature** ■ DXF/DWG/PDF drawings available on our website.

Product no.	Material	Color	Pack of
PJCV-1	PE	Natural	10

CJCV series**USB DUST COVER FLAP****For USB type A****How to Install****Incorrect Position**

- The USB connector should be mounted such that it does not protrude out from the panel's inner side.

**For USB type C****How to Install**

- Insert the CJCV cover into the USB Type-C connector.

Product no. / Details

Product no.	USB type	Material	Color	Mounting thickness	Weight (g)	Pack of
CJCVC-1	A	TPU	Black	0.5 ~ 2.0mm	0.4 (1 piece)	10
CJCVC-2	A	TPU	Black	2.0 ~ 12.0mm	0.4 (1 piece)	10
NEW CJCVC-C1	C	Silicon	Black	1.0 ~ 2.0mm	0.36 (1 piece)	10

- USB TYPE-A and C connector dust cover plug with stopper cord.
- Hole milling is required for flap installation.

USBC series**USB DUSTPROOF BLIND PLUG****USB TYPE-A**

USBC-2 (Pull-tab type)



USBC-8 (No pull-tab type)



- Easy insertion plug for USB type-A connector.

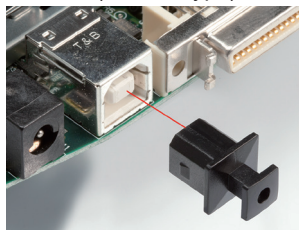
Product no. / Details

- DXF/DWG/PDF drawings available on our website.

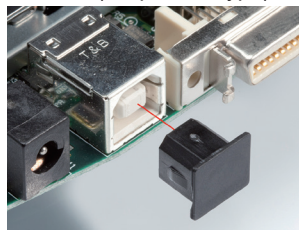
Product no.	Material	Color	Pack of
USBC-2	ABS UL94HB	Black	10
USBC-8	PA66 UL94V-2	Black	10

USB TYPE-B

USBC-1 (Pull-tab type)



USBC-3 (No pull-tab type)



- Easy insertion plug for USB type-B connector.

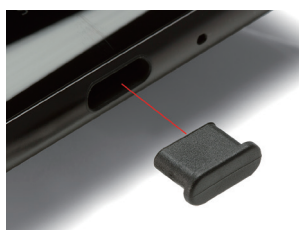
Product no. / Details

- DXF/DWG/PDF drawings available on our website.

Product no.	Material	Color	Pack of
USBC-1	ABS UL94HB	Black	10
USBC-3	PP UL94HB	Black	10

USB TYPE-C

USB Type-C connector



- Easy insertion plug for USB type-C connector.

Product no. / Details

- DXF/DWG/PDF drawings available on our website.

Product no.	Material	Color	Pack of
USBC-3C	PE	Black	10

USB 3.0 Micro B

USB 3.0 Micro B connector

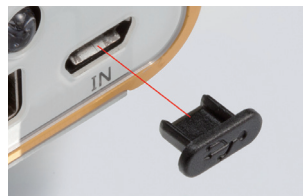
**Accessories (Optional parts)****Product no. / Feature**

■ DXF/DWG/PDF drawings available on our website.

Product no.	Material	Color	Pack of
NEW USBC-21	TPE	Black	10

MICRO USB

USBC-31

**MINI USB**

USBC-10

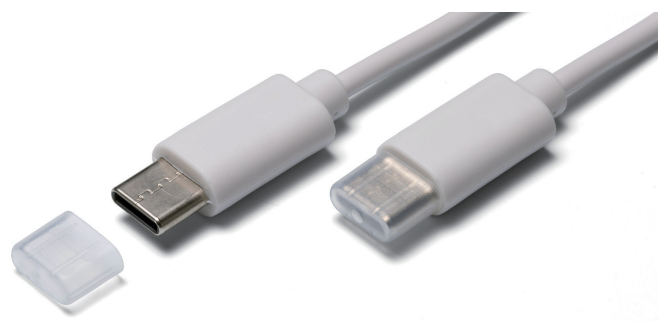
**Product no. / Feature**

■ DXF/DWG/PDF drawings available on our website.

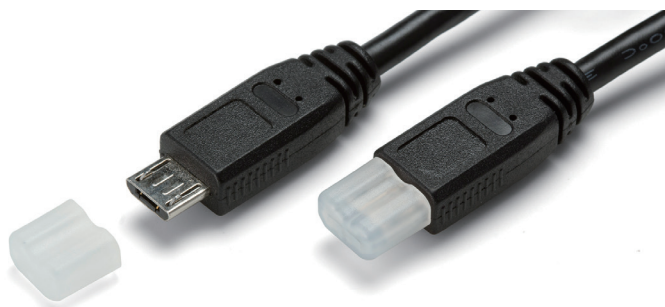
Product no.	Material	Color	Pack of
USBC-31	PE	Black	10
USBC-10	TPE	Black	10

KPS•USB3C series**USB DUSTPROOF CONNECTOR COVER****USB TYPE-A****Product no. / Feature**

Product no.	Material	Color	Pack of
KPS-6	PE	Natural	10

USB TYPE-C**Product no. / Feature**

Product no.	Material	Color	Pack of
NEW USB3C-3	PE	Natural	10

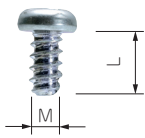
MICRO USB**Product no. / Feature**

Product no.	Material	Color	Pack of
KPS-21	PE	Natural	10

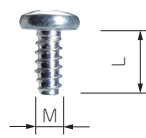
■ DXF/DWG/PDF drawings available on our website.

EM series**PCB MOUNTING SCREW**

Pan head



Bind head



- Self-tapping screws for mounting PCB on bosses or standoffs.
- EM-3-6 self-tapping screws are suitable for mounting 1.6mm or thicker PCB.

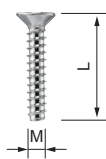
Product no. / Details

■ Material / Finish : Steel / Trivalent chromate

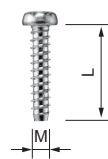
Product no.	M	L	Head type	Suitable models	Pack of
EM-1.6	1.6	4	Pan	SMW • CSS • CS SIC • SIM • WC • PS (M1.6 boss models)	50
EM-2	2	5	Pan	PS • TW • TWN • TWF SIC • SIM • PF • WC • WP (M2 boss models)	50
NEW EM-B2	2	5	Bind	SIC • SIM (M2 boss models) SIC • SIM6-12-□ (when installing PCB46-101)	50
EM-2.3	2.3	6	Pan	DRC • WH • LC • LCT • LCS • LCE • PFE WSC (Top cover bosses) PF • PFF (M2.3 boss models) TW • TWN • TWF (M2.3 boss models) WP (M2.3 boss models)	50
EM-2.3-8	2.3	8	Pan	WSC (Bottom base bosses)	50
EM-2.6	2.6	6	Pan	PF • PFF • WP (M2.6 boss models)	50
EM-3	3	5	Pan	SU • OP	50
EM-3-6	3	6	Pan	TWS • TW • TWN • TWF (M3 boss models)	50

MR series**TORX SCREW**

Flat head



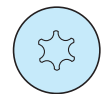
Pan head



With pin



★ Without pin



- Self-tapping torx screws for securing of the enclosure.

★ : MR1.6-6S, MR2.6-10□, MR3-5Z□ and MR3-14□ are without pin.

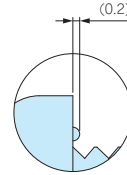
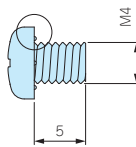
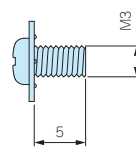
Product no. / Details

★ Mark = Without pin

Product no.	M	L	Head no.	Head style	Material	Finish	Suitable models	Pack of
MR1.6-6S★	1.6	6	T3	Pan	Steel	Nickel plated	CSS • CS	20
MR2.5-8PS	2.5	8	T8	Pan	Steel	Nickel plated	PF • PFE • PFF (M2.5 size)	20
MR2.6-10S★	2.6	10	T8	Flat	Steel	Nickel plated	TW • TWN (M2.6 size)	20
MR2.6-10B★	2.6	10	T8	Flat	Steel	Black trivalent chromate	TWF (M2.6 size)	20
MR2.6-12PS	2.6	12	T8	Pan	Steel	Nickel plated	MX • MXA • MXB • MXF (M2.6 size)	20
MR2.6-14PS	2.6	14	T8	Pan	Steel	Nickel plated	LCT • LCS • LC115-F2 / F3 LCT • LCS • LC145S-F6	20
MR2.6-14S	2.6	14	T8	Flat	Steel	Nickel plated	LCT • LCS • LC115H-F2 / F3 / M2 / 9V LCT • LCS • LC135-F4 / M2 / M3 / 9V LCT • LCS • LC135H-F4 / M2 / M3 / 9V LCT • LCS • LC145-F6 / M2 / M4 LCT • LCS • LC145H-F6 / M2 / M4 LCT • LCS • LC165-M4 LCT • LCS • LC165H-M4	20
MR2.6-18S	2.6	18	T8	Flat	Steel	Nickel plated	LCT • LCS • LC115-N / F2 / F3 LCT • LCS • LC145S-F6 / 145S-N LCE115-N TW • TWN7-2-11 / 7-4-11 / 7-5-11 TWF7-2-11 / 7-4-11 / 7-5-11 / 8-2-8 / 8-4-8	20
MR-1S	3	5	T10	Flat	Steel	Nickel plated	LCT • LCS • LC115H-N / F2 / F3 / M2 / 9V LCT • LCS • LC135-N / F4 / M2 / M3 / 9V LCT • LCS • LC135H-N / F4 / M2 / M3 / 9V LCT • LCS • LC145-N / F6 / M2 / M4 LCT • LCS • LC145H-N / F6 / M2 / M4 LCT • LCS • LC165-N / M4 LCT • LCS • LC165H-N / M4 LCE115H-N • LCE135-N • LCE145H-N • LCE165H-N	20
MR-1B	3	5	T10	Flat	Steel	Black trivalent chromate	UC	20
MR3-5ZS★	3	5	T10	Slotted raised countersunk	Steel	Nickel plated	FC • HY • HYR • HYRH (M3 size)	20
MR3-5ZB★	3	5	T10	Flat	Steel	Black trivalent chromate	CF	20
MR3-8PS	3	8	T10	Pan	Steel	Nickel plated	PF • PFE • PFF (M3 size)	20
MR3-14S★	3	14	T10	Flat	Steel	Nickel plated	TW • TWN (M3 size)	20
MR3-14B★	3	14	T10	Flat	Steel	Black trivalent chromate	TWF (M3 size) MX • MXA • MXB • MXF (M3 size)	20

EV series**CONDUCTIVE SCREW**

Conductive



Base material exposed after being shaved.



Example: Internal grounding use.



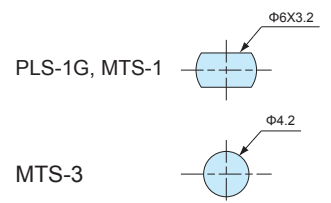
- When tightened, protrusions on the underside of the screw head will shave away at the painted or anodized surface to expose the base material for achieving conductivity.

Product no. / Dimensions

Product no.	M	L	Material	Finish	Suitable series	Pack of
EV3-5S	3	5	Steel	Nickel plated	YM • MB • others	20
NEW EV-4S	4	5	Steel	Nickel plated	BDN • others	20

PLS • MTS • PM series**CAPTIVE FASTENER • CAPTIVE SCREW**PLS-1G
Plastic fastenerMTS-1
Metal fastenerMTS-3
Metal fastener

Hole layout for mounting

**Product no. / Dimensions Fastener**

Product no.	M	Material	Color / Finish	Pack of
PLS-1G	2.5	POM	White gray	50
MTS-1	2.5	Steel	Zinc plated	8
NEW MTS-3	2.5	Steel	Nickel plated	10

Conductive

PM-1□



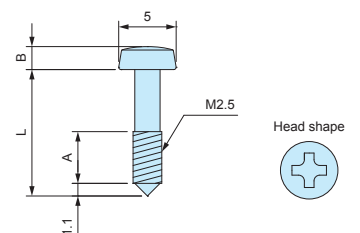
PM-2□



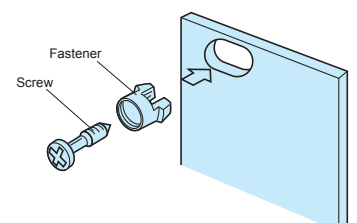
PM-3

**PM dimensions**

PM-1□ • PM-2□

**Product no. / Dimensions Screw**

Product no.	Material	Finish	L	A	B	Suitable screw driver	Pack of
PM-1B	Steel	Black trivalent chromate	10	4	1.5	#1	50
PM-1S	Steel	Chrome plated	10	4	1.5	#1	50
PM-2B	Steel	Black trivalent chromate	11	5	2	#2	50
PM-2S	Steel	Nickel plated	11	5	2	#2	50
NEW PM-3	Steel	Nickel plated	7	2.5	2	#2	50



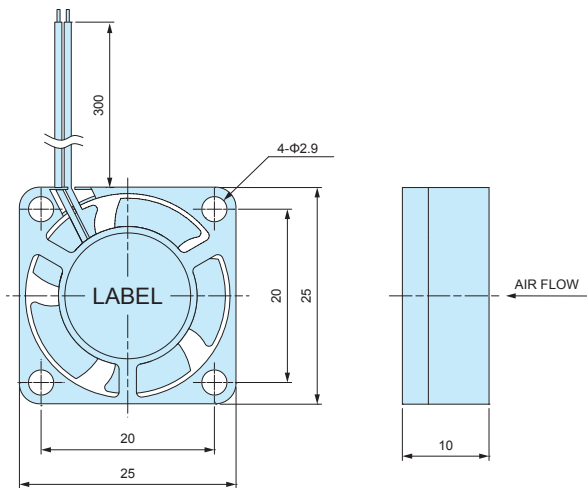
AGE series**COOLING FAN**Heat
Resistant

■ Affordable Cooling Fan AGE series is now available.

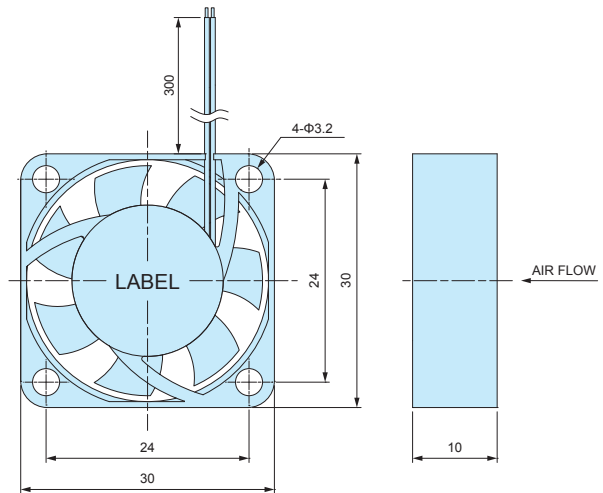
■ DXF/DWG/PDF drawings available on our website.

AGE02510B

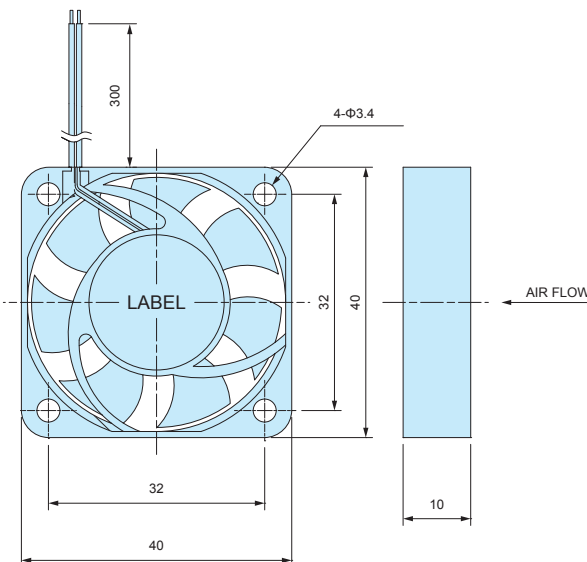
Lead wire UL1571 AWG28

**AGE03010B**

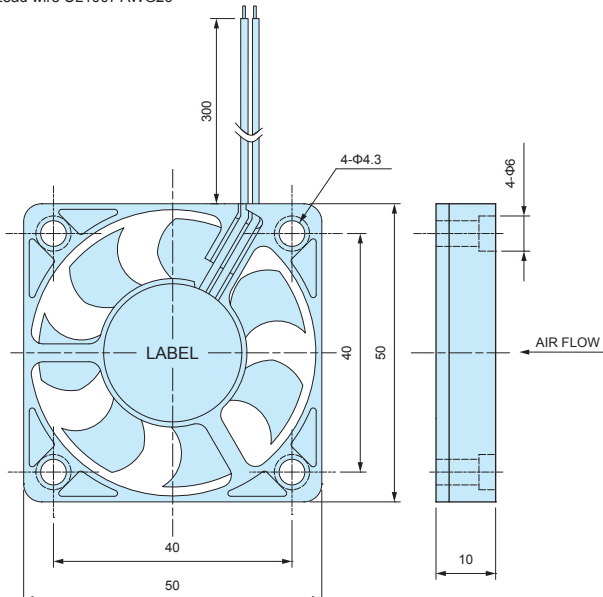
Lead wire UL1571 AWG28

**AGE04010B**

Lead wire UL1007 AWG26

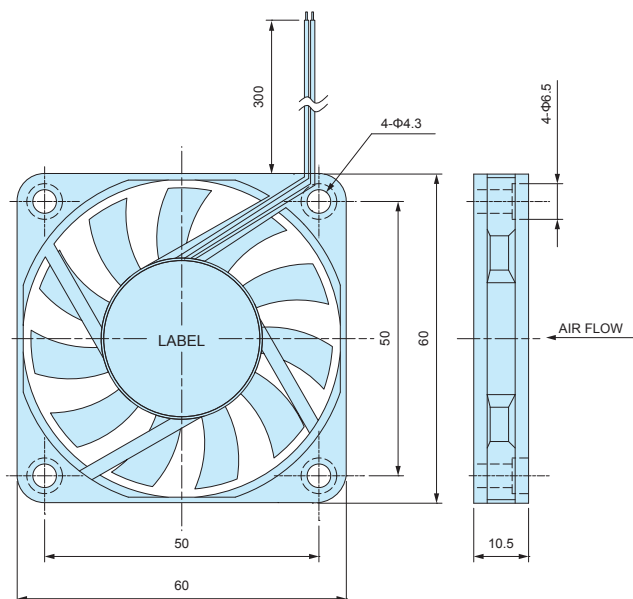
**AGE05010B**

Lead wire UL1007 AWG26



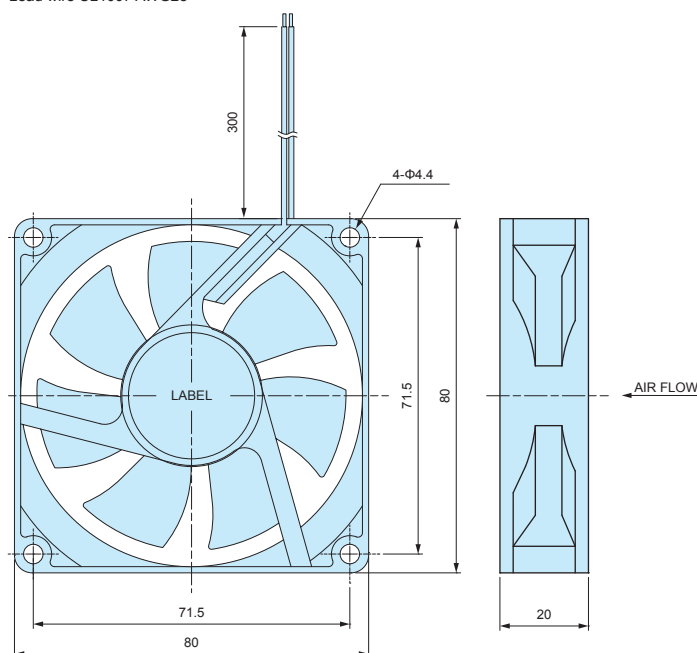
AGE06010B

Lead wire UL1007 AWG26



AGE08020B

Lead wire UL1007 AWG28



Product no. / Details

Product no.	Outer dimensions (mm)	Rated voltage (V)	Voltage range (V)	Rated current (A)	Rated input (W)	Max airflow (m3/min)	Max static pressure (pa)	Rotation speed (min-1)	Operating temperature	Life expectancy (H)
NEW AGE02510B	25.0 x 25.0 x 10.0	DC 5	4.5 ~ 5.5	0.12	0.6	0.04	18.6	7,000	-10°C ~ +50°C	70,000
NEW AGE03010B	30.0 x 30.0 x 10.5	DC12	7.0 ~ 13.2	0.05	0.6	0.08	22.4	6,000	-10°C ~ +50°C	70,000
NEW AGE04010B	40.0 x 40.0 x 10.0	DC12	7.0 ~ 13.2	0.09	1.08	0.13	13.9	4,000	-10°C ~ +50°C	70,000
NEW AGE05010B	50.0 x 50.0 x 10.0	DC12	7.0 ~ 13.2	0.07	0.84	0.3	34.9	5,500	-10°C ~ +50°C	70,000
NEW AGE06010B	60.0 x 60.0 x 10.5	DC12	7.0 ~ 13.2	0.3	3.6	0.4	20.4	3,500	-10°C ~ +50°C	70,000
NEW AGE08020B	80.0 x 80.0 x 20.0	DC12	7.0 ~ 13.2	0.07	0.84	0.78	22.4	2,400	-10°C ~ +50°C	70,000

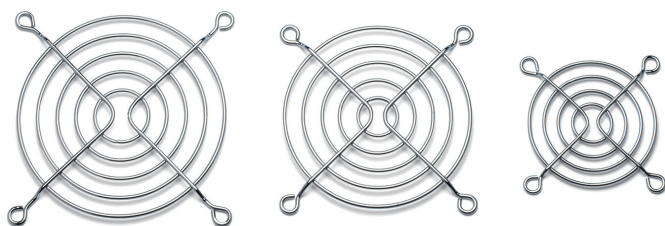
■ Life expectancy is measured under normal operational conditions.

HF-G series

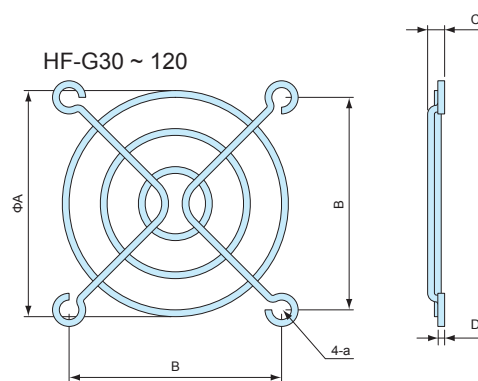
FAN GUARD



■ DXF/DWG/PDF drawings available on our website.



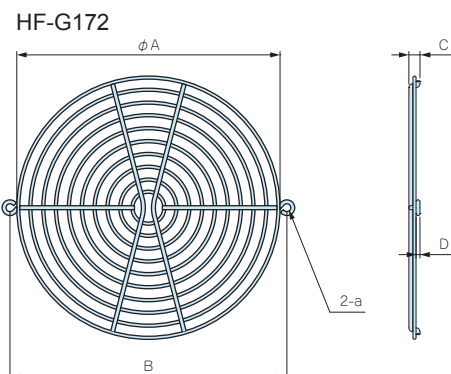
■ Material : Steel wire



Product no. / Details

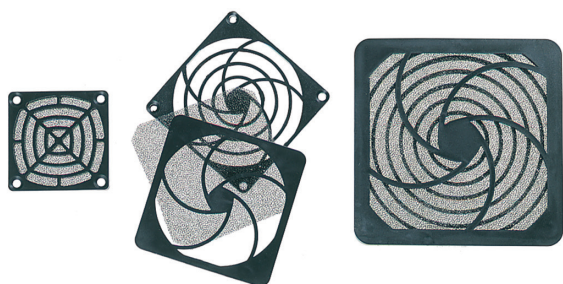
■ Shape vary by model.

Product no.	A	B	C	D	a	Surface finish
HF-G 30	26	24	4.5	1.4	M3	Chrome plated
HF-G 40	29	32	5	1.6	M3 and M4	Nickel chrome plated
HF-G 50	41	42	5	1.6	M3 and M4	Chrome plated
HF-G 60	53	50	4.5	1.6	M4	Nickel chrome plated
HF-G 80	76.5	71.5	5	1.8	M4	Nickel chrome plated
HF-G 90	85.5	82.5	5	1.8	M4	Nickel chrome plated
HF-G120	115	104.8	3.6	1.8	M4	Nickel chrome plated
NEW HF-G172	154	162	6.5	2.3	M4	Nickel chrome plated



HF-P series

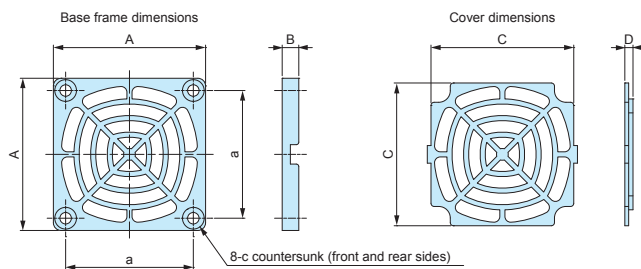
FAN DUST FILTER

Heat
Resistant

■ DXF/DWG/PDF drawings available on our website.

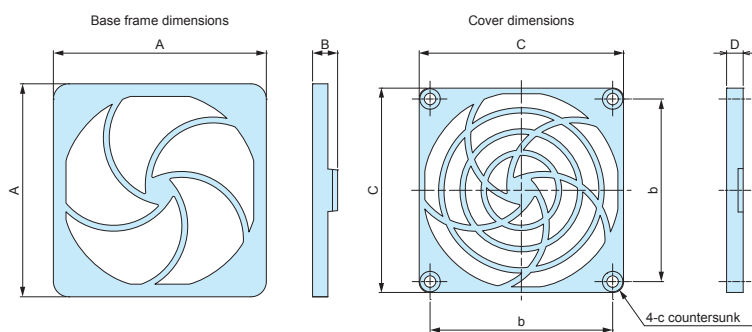
HF-P40 • HF-P60

※Drawings for HF-P60 model



HF-P80 • HF-P90 • HF-P120

※Drawings for HF-P80 model.



Components

No.	Part name	Material	Color
1	Base frame	ABS UL94V-0	Black
2	Cover	ABS UL94V-0	Black
3	Filter	Polyurethane foam	Gray

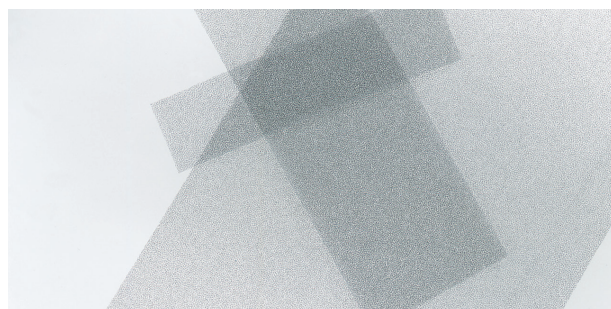
Product no. / Details

■ Shape vary by model.

Product no.	A	B	C	D	a	b	c
HF-P 40	40	6.3	37	3.2	32	—	M3
HF-P 60	59.6	6.5	55.9	3.2	50	—	M4
HF-P 80	83.4	9.8	80	6.5	—	71.5	M4
HF-P 90	96.2	9.7	92	6.3	—	82.5	M4
HF-P120	123.7	10.8	117.2	7.3	—	104.8	M4

HR series

FILTER



- Replacement filter for HF-P filter frame.
- Can also be used as a dustproof filter over vent holes.

Product no. / Details

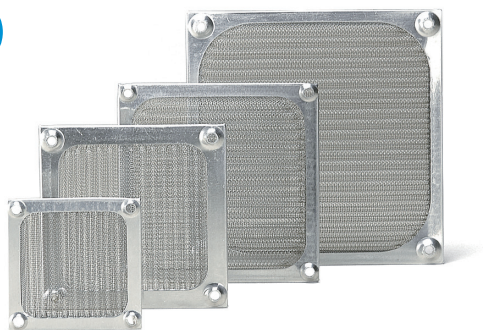
Product no.	W	H	t
HR0520	200	50	3
HR1030	300	100	3
HR2550	500	250	3

■ Material / Color : Polyurethane foam / Gray

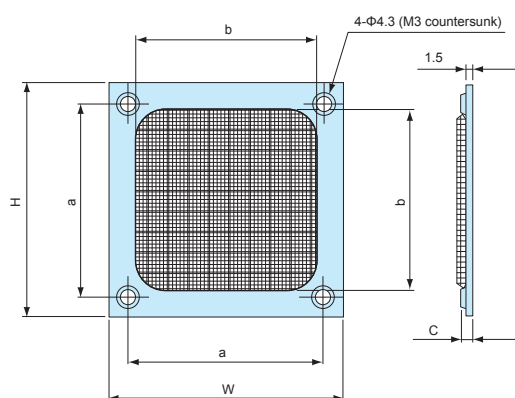
EMF series

EMC SHIELDED FAN DUST FILTER

■ DXF/DWG/PDF drawings available on our website.

EMC
Shielding
Effects

■ Dust filter for a cooling fan hole as EMC shield purpose.



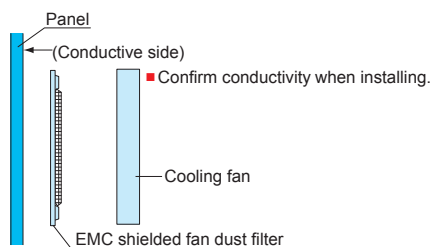
Components

Frame material	Filter material	Mesh
Aluminium / Unfinished	Stainless steel	30

■ Mesh 30 = 30 openings in a 1 square inch area (25.4 x 25.4mm).

Product no. / Details

Product no.	W	H	a	b	c	Matching fan size (mm)
EMF- 60	60	60	50	47	3.5	60.0 x 60.0
EMF- 80	83.8	83.8	71.5	69	3.5	80.0 x 80.0
EMF- 90	92	92	82.5	78	3.5	92.0 x 92.0
EMF-120	119	119	104.8	104.8	3.5	120.0 x 120.0

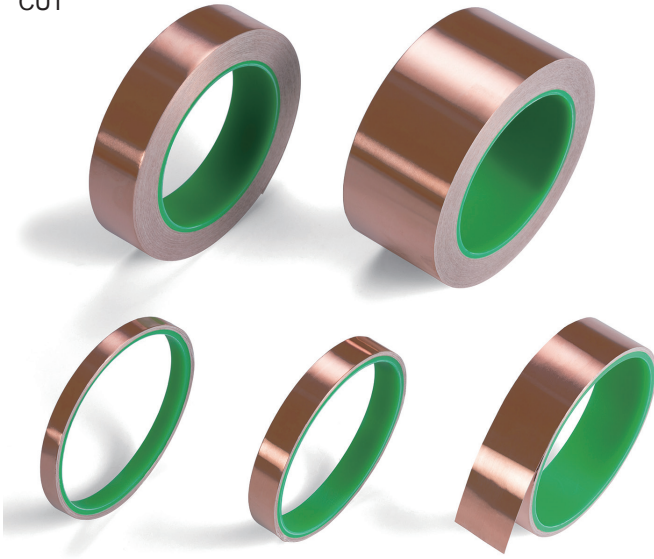


Application example

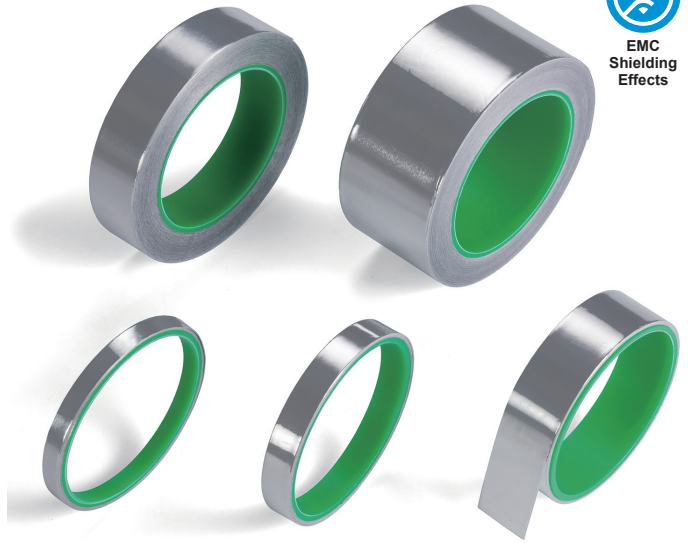


CUT•ALT series**LOW COST CONDUCTIVE COPPER • ALUMINIUM FOIL TAPE**

CUT

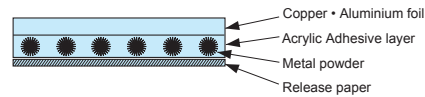


ALT



- Flexible copper and aluminium tape.
- Conductive adhesive usage allows conductivity to be maintained without reduction of shielding effect.
- Copper tape can be soldered onto a metal foil.

■ Construction



Usage

- Grounding and shielding for enclosures.
- Grounding and shielding for cable harnesses or connectors.
- EMI shielded room.
- Can be used for measuring shield characteristics in an emergency situation.

■ Characteristic

Contents	Copper foil (rolled)	Aluminium foil
Foil thickness (μm)	36	50
Adhesive layer thickness (μm)	24	50
Overall thickness (μm)	60	100
Adhesive force (gf/25mm) 180° peel test on SUS	1,100	1,100
Contact resistance value (Ω/25mm/2kgf)	0.05	0.05

Copper Foil Tape**Product no. / Dimensions**

Product no.	Width (mm)	Length	Weight (g)
CUT 8- 2S	8.0	2m	12.8
CUT13- 2S	13.0	2m	20.4
CUT25- 2S	25.0	2m	41.0
CUT 8-20L	8.0	20m	80.5
CUT13-20L	13.0	20m	123.7
CUT25-20L	25.0	20m	236.7
CUT50-20L	50.0	20m	481.9

Aluminium Foil Tape**Product no. / Dimensions**

Product no.	Width (mm)	Length	Weight (g)
ALT 8- 2S	8.0	2m	10.8
ALT13- 2S	13.0	2m	16.4
ALT25- 2S	25.0	2m	31.2
ALT 8-20L	8.0	20m	52.9
ALT13-20L	13.0	20m	85.3
ALT25-20L	25.0	20m	164.5
ALT50-20L	50.0	20m	328.5

CUTS



ALTS

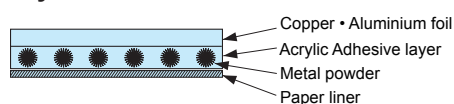
EMC
Shielding
Effects

- Flexible copper and aluminium sheet.
- 257 x 182mm (B5 size) and 297 x 210mm (A4 size) are available.
Convenient for usage in shielding a wide area, or for cutting into unique shapes to fit unusual surface structures.
- Conductive adhesive usage allows conductivity to be maintained without a reduction of the shielding effect.
- Copper sheet can be soldered onto a metal foil.

Usage

- Grounding and shielding for enclosures.
- Grounding and shielding for cable harnesses or connectors.
- Anti-static characteristics for inhibition of triboelectric charging.

Layer details



Contents	Copper foil (rolled)	Aluminium foil
Foil thickness (μm)	36	50
Adhesive layer thickness (μm)	24	50
Overall thickness (μm)	60	100
Adhesive force (g/25mm) 180° peel test on SUS	1,100	1,100
Contact resistance value (Ω/25mm/2kgf)	0.05	0.05

Copper Foil Sheet

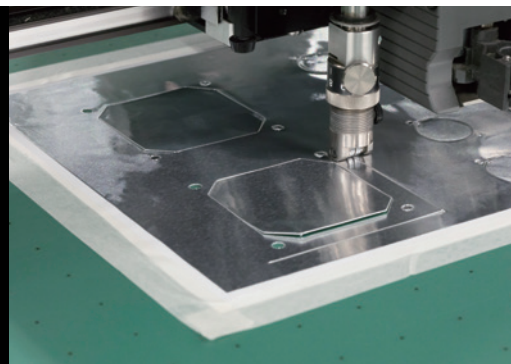
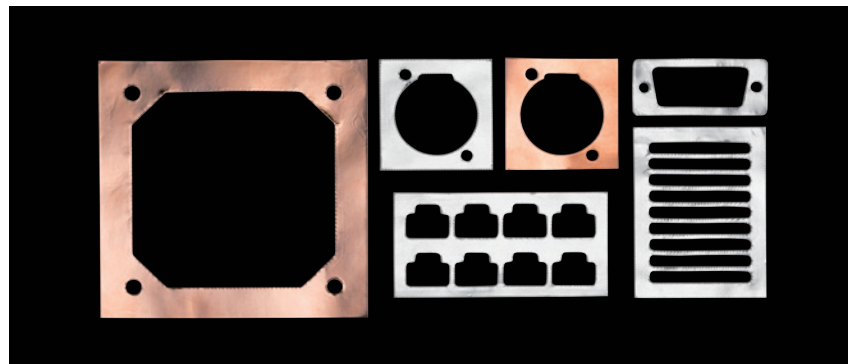
Product no. / Dimensions

Product no.	Width (mm)	Length (mm)	Weight (g)
CUTS1825	182	257	21.5
CUTS2129	210	297	29.0

Aluminium Foil Sheet

Product no. / Dimensions

Product no.	Width (mm)	Length (mm)	Weight (g)
ALTS1825	182	257	15.0
ALTS2129	210	297	20.0



Unique sized shape with holes is available as a custom order. (maximum sheet size = A4)
Mass manufacturing is also possible with the manufacture of a cutting die.