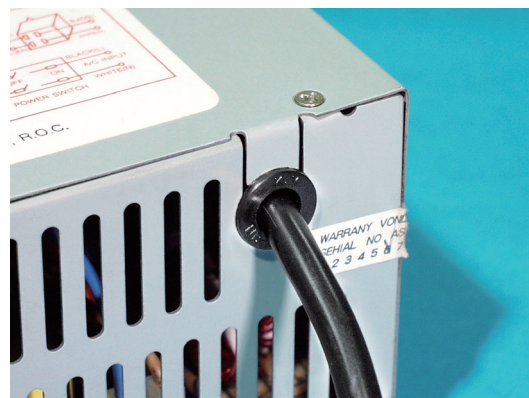


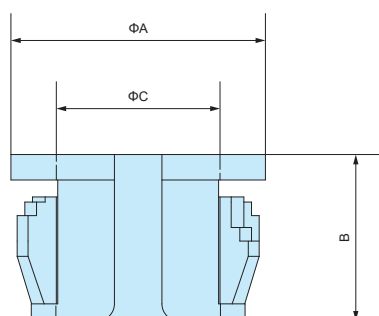
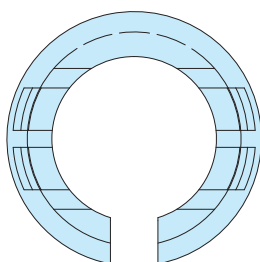
NB series**NYLON SNAP BUSHING GROMMET**

Installation example

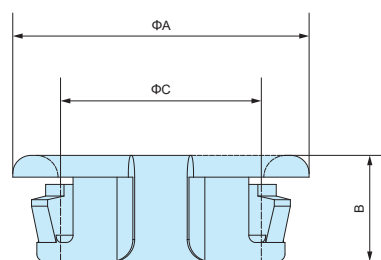
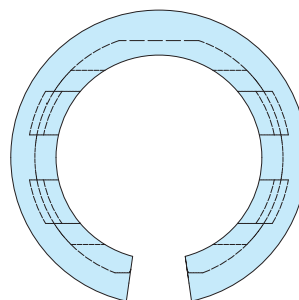


■ DXF/DWG/PDF/STP drawings available on our website.

■ 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

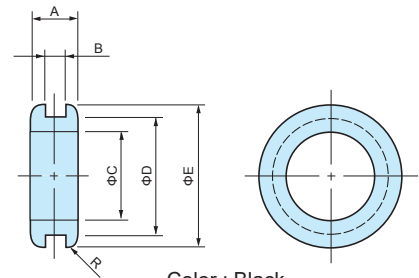
Product no.	A	B	C	Mounting hole	Mounting thickness (mm)	Weight (g)	Pack of
NB 7-15	11.9	6.5	7.3	Φ 9.5	0.6 ~ 1.6	0.2 (1 piece)	10
NB 8-10	12.4	6	7.6	Φ 9.5	0.8 ~ 1.2	0.2 (1 piece)	10
NB10-35	15	9.8	9.7	Φ12.7	0.8 ~ 3.3	0.5 (1 piece)	10
NB11-30	16.6	10.3	10.6	Φ14.3	0.8 ~ 3.2	0.5 (1 piece)	10
NB11-10	16.8	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

NG series

RUBBER GROMMET



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



■ A total of 40 different sizes available for selection.

Product no. / Details

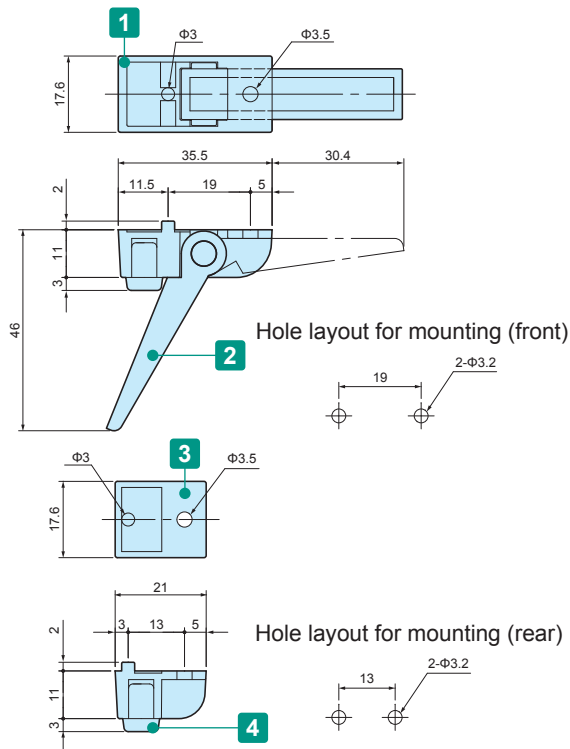
Product no.	Old product no.	A	B	C	D	E	R	Mounting thickness	Mounting hole diameter	Material	Hardness	Pack of	Operating temperature
NG2.3-8	—	4	0.8	2.3	5.8	7.8	0.2	0.5 ~ 0.8	5.8 ~ 6.1	NBR	A53°	10	-40°C ~ +100°C
NG3-10	NG-74	4	1	3	5	7	1	0.8 ~ 1.0	5.0 ~ 5.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG3-20	NG-742	5	2	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

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

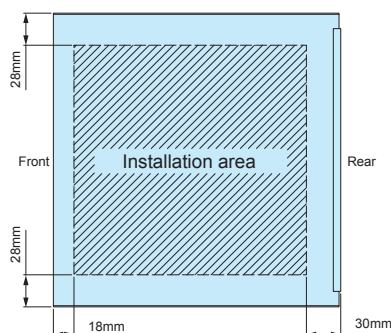
■ Included screws: M3-8 and M3 nut (with washer) set.

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

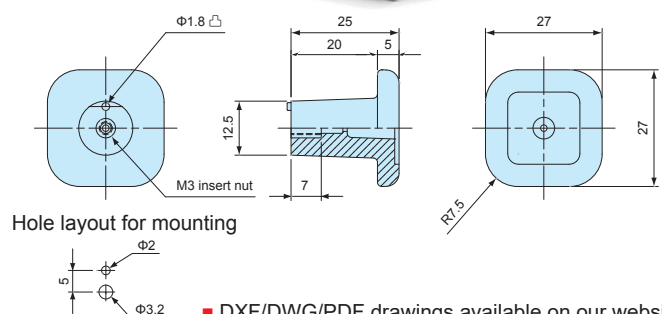
Product no.	Material	Color	Pack of
CBF-1G	ABS UL94HB	Gray	4

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



CBF dimensions

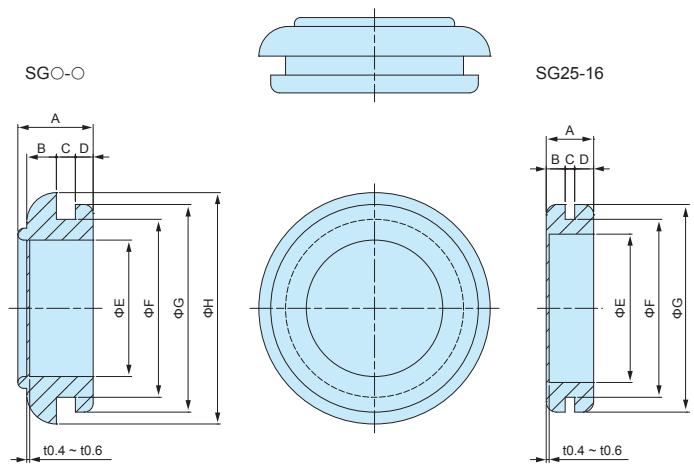
APPLICATION EXAMPLE



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

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

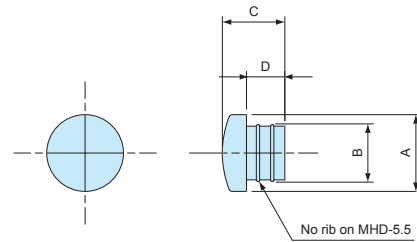
Operating temperature: -30°C ~ +100°C

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

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.

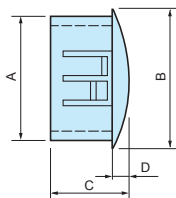
Product no. / Dimensions

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.

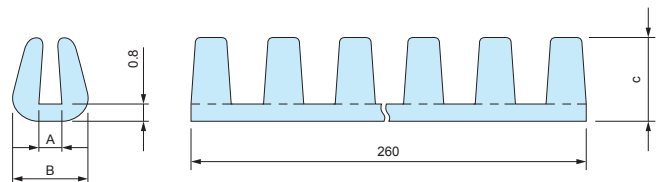
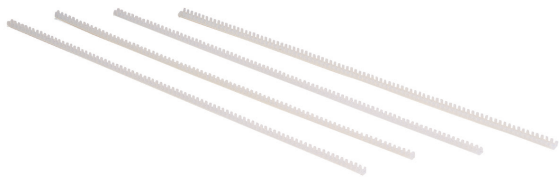
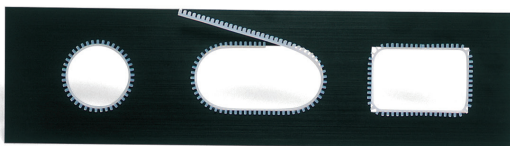
■ DXF/DWG/PDF drawings available on our website.

**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

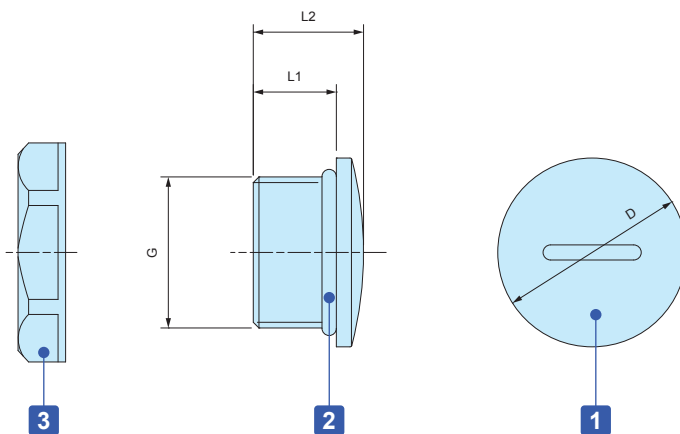
Product no.	A	B	C	Panel thickness	Pack of
JKG006N	0.6	3.1	3.8	0.5 ~ 0.7	10
JKG008N	0.8	3.1	3.8	0.7 ~ 0.9	10
JKG010N	1	3.3	3.8	0.9 ~ 1.1	10
JKG012N	1.2	3.5	3.8	1.1 ~ 1.3	10
JKG014N	1.4	3.7	3.8	1.3 ~ 1.5	10
JKG016N	1.6	3.9	3.8	1.4 ~ 1.7	10
JKG020N	2	4.3	3.8	1.8 ~ 2.0	10
JKG030N	3	6.2	4.8	2.5 ~ 3.0	10

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