

# Wiring Ducts and Cable Protection Materials

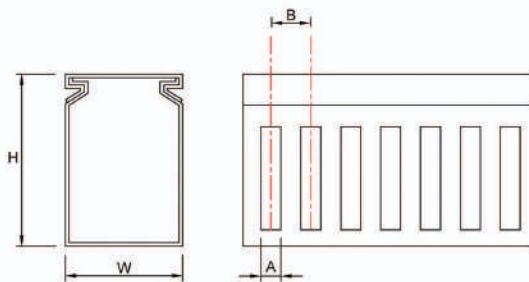
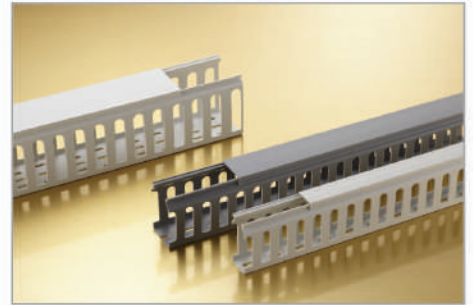
## (와이어링 덕트와 전선 보호 자재)

Wide Close Slot Wiring Duct (와이어링 덕트 - 표준형)	F2
Narrow Close Slot Wiring Duct (와이어링 덕트 - 조밀형)	F3
Wide Slot Wiring Duct (와이어링 덕트 - 개방형)	F4
Solid Slot Wiring Duct (와이어링 덕트 - 밀폐형)	F5
Screw Cover, Screw Cap (스크류 카바, 스크류 캡)	F5
Duct Cutting Tools (덕트 절단공구)	F6
Cutting Tool (절단공구)	F6
Helical Band, Spiral Wrap, Easy Cable Wrap (헬리컬 밴드, 스피럴 랩, 이지 케이블 랩)	F7
Braid Expandable Sleeving, Expandable Sleeving Cutting Tools (익스팬더블 튜브, 익스팬더블 튜브 절단공구)	F8
Hook Band, Channel Tubing, Cable Shield Tube (후크 밴드, 후크밴드 난연, 차폐 실드)	F9
Silicone Rubber Fiberglass Sleeving (실리콘 튜브)	F10
Heat Shrinkable Tubing, Heat Shrink Tools (열 수축튜브, 수축튜브 히팅 건)	F11
Heavy Wall Heat Shrinkable Tubing (본드 수축튜브)	F12
Heat Shrinkable Breakout Boots (열 수축 분기관)	F12
Terminal Caps, Heat Shrinkable Busbar Sleeves (단자캡, 부스바용 수축튜브)	F13
Thermo Terminal Caps, Thermo Sensor Cap (온도 단자캡, 온도 센서 캡)	F14
Eye Tubular Cable Lug Thermo Caps (아이캡)	F15
Number Tubes, Marking Tapes (넘버 튜브, 마킹 테이프)	F15
Non-Metallic Cable Glands-PG type (케이블 글랜드 - PG타입)	F16
Non-Metallic Cable Glands-M type, NPT type (케이블 글랜드 - M타입, NPT타입)	F17
Non-Metallic Cable Glands-G type (케이블 글랜드 - G타입)	F18
Non-Metallic Cable Glands-PGL type (케이블 글랜드 - PGL 타입)	F19
Non-Metallic Cable Glands-NEC type (케이블 글랜드 - NEC 타입)	F19
Non-Metallic Cable Glands-PG(R) type(with strain relief) (케이블 글랜드 - PG(R) 타입)	F20
Non-Metallic Threaded Plug-PG(T) type (홀 카바 - PG 타입)	F20
Metallic Cable Glands-PG(B) type (메탈 케이블 글랜드 - PG타입)	F21
Metallic Cable Glands-JIS type (메탈 케이블 글랜드 - JIS타입)	F21
Metallic Threaded Plug-PG(TM) type (메탈 홀 카바 - PG타입)	F22
Hole Plug (홀 카바)	F22
Strain Relief Bushings (스트레인 릴리프 부싱)	F23
Snap Bushings, Open/Closed Bushings, Cover Bushings (스냅 부싱, 오픈 부싱, 카바 부싱)	F24
Rubber Gland Seal-TSS, TKS, TRS-PG, TRS-METRIC (고무 글랜드)	F25~F27

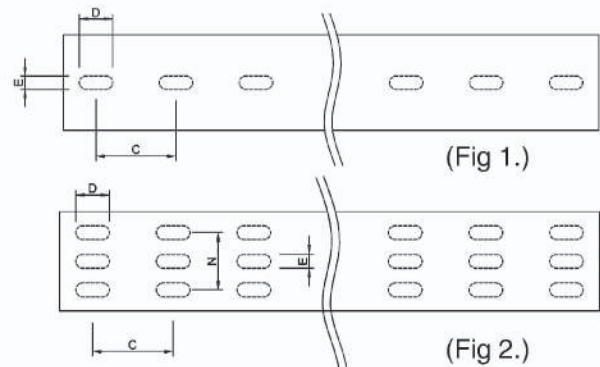
## Wide Close Slot Wiring Duct (와이어링 덕트 - 표준형)

Model	JWDA	JWDH-A	JWDH
Material	PVC	ABS	ABS-Halogen free
Temperature Rating	50℃	85℃	60℃
Flammability	UL94 V-0	UL94 V-0	UL94 V-2
Color	Gray, Ivory	Ivory	Ivory

\*Side wall and bottom hole pattern can be changed by customer's request.



<Typical side view>



<Bottom mounting view>



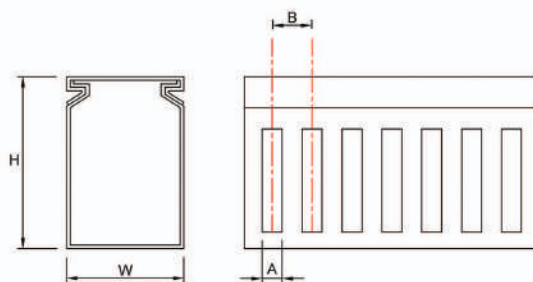
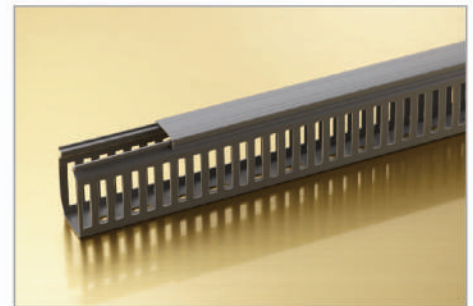
Part Number			Hole Pattern Type	Dimension (mm)											
PVC	ABS	ABS-Halogen free		W	H	A	B	C	D	E	N	Length			
JWDA 20×35	JWDH 20X35A	JWDH 20X35	Fig 1	20	35	10	20	50	15	6	-	2000			
JWDA 25×40	JWDH 25X40A	JWDH 25X40		25	40	10	20								
JWDA 25×60	JWDH 25X60A	JWDH 25X60		25	60	10	20								
JWDA 30×40	JWDH 30X40A	JWDH 30X40		30	40	10	20								
JWDA 30×60	JWDH 30X60A	JWDH 30X60		30	60	10	20								
JWDA 30×80	JWDH 30X80A	JWDH 30X80		30	80	10	20								
JWDA 40×40	JWDH 40X40A	JWDH 40X40		40	40	10	20								
JWDA 40×60	JWDH 40X60A	JWDH 40X60		40	60	10	20								
JWDA 40×80	JWDH 40X80A	JWDH 40X80		40	80	10	20								
JWDA 40×100	JWDH 40X100A	JWDH 40X100		40	100	10	20								
JWDA 60×40	JWDH 60X40A	JWDH 60X40	Fig 2	60	40	10	20			50	15		6	35	2000
JWDA 60×60	JWDH 60X60A	JWDH 60X60		60	60	10	20								
JWDA 60×80	JWDH 60X80A	JWDH 60X80		60	80	10	20								
JWDA 60×100	JWDH 60X100A	JWDH 60X100		60	100	10	20								
JWDA 60×120	JWDH 60X120A	JWDH 60X120		60	120	10	20								
JWDA 80×30	JWDH 80X30A	JWDH 80X30		80	30	13	25						6	40	
JWDA 80×60	JWDH 80X60A	JWDH 80X60		80	60	13	25								
JWDA 80×80	JWDH 80X80A	JWDH 80X80		80	80	13	25								
JWDA 80×100	JWDH 80X100A	JWDH 80X100		80	100	13	25								
JWDA 80×120	JWDH 80X120A	JWDH 80X120		80	120	13	25								
JWDA 100×80	JWDH 100X80A	JWDH 100X80		100	80	13	25	40							
JWDA 100×100	JWDH 100X100A	JWDH 100X100		100	100	13	25								
JWDA 100×120	JWDH 100X120A	JWDH 100X120		100	120	13	25								
JWDA 150×100	JWDH 150X100A	JWDH 150X100		150	100	13	25								



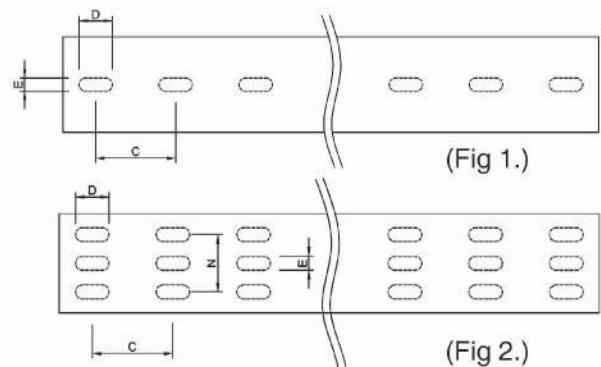
## Narrow Close Slot Wiring Duct (와이어링 덕트 - 조밀형)

Model	JWDN	JWDHN-A	JWDHN
Material	PVC	ABS	ABS-Halogen free
Temperature Rating	50℃	85℃	60℃
Flammability	UL94 V-0	UL94 V-0	UL94 V-2
Color	Gray, Ivory	Ivory	Ivory

\*Side wall and bottom hole pattern can be changed by customer's request.



<Typical side view>



<Bottom mounting view>



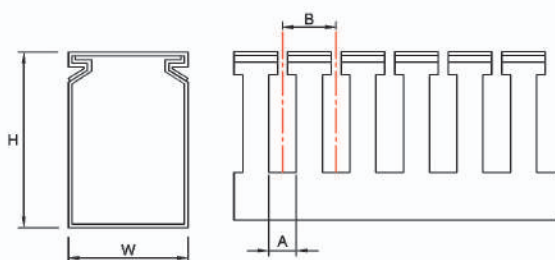
Part Number			Hole Pattern Type	Dimension (mm)									
PVC	ABS	ABS-Halogen free		W	H	A	B	C	D	E	N	Length	
JWDN 20×35	JWDHN 20X35A	JWDHN 20X35	Fig 1	20	35	5	10	50	15	6	—	2000	
JWDN 25×40	JWDHN 25X40A	JWDHN 25X40		25	40								
JWDN 25×60	JWDHN 25X60A	JWDHN 25X60		25	60								
JWDN 30×40	JWDHN 30X40A	JWDHN 30X40		30	40								
JWDN 30×60	JWDHN 30X60A	JWDHN 30X60		30	60								
JWDN 30×80	JWDHN 30X80A	JWDHN 30X80		30	80								
JWDN 40×40	JWDHN 40X40A	JWDHN 40X40		40	40								
JWDN 40×60	JWDHN 40X60A	JWDHN 40X60		40	60								
JWDN 40×80	JWDHN 40X80A	JWDHN 40X80		40	80								
JWDN 40×100	JWDHN 40X100A	JWDHN 40X100		40	100								
JWDN 60×40	JWDHN 60X40A	JWDHN 60X40	Fig 2	60	40						35		
JWDN 60×60	JWDHN 60X60A	JWDHN 60X60		60	60								
JWDN 60×80	JWDHN 60X80A	JWDHN 60X80		60	80								
JWDN 60×100	JWDHN 60X100A	JWDHN 60X100		60	100								
JWDN 80×60	JWDHN 80X60A	JWDHN 80X60		80	60								40
JWDN 80×80	JWDHN 80X80A	JWDHN 80X80		80	80								
JWDN 80×100	JWDHN 80X100A	JWDHN 80X100		80	100								
JWDN 100×80	JWDHN 100X80A	JWDHN 100X80		100	80								
JWDN 100×100	JWDHN 100X100A	JWDHN 100X100	100	100									

## Wide Slot Wiring Duct (와이어링 덕트 - 개방형)

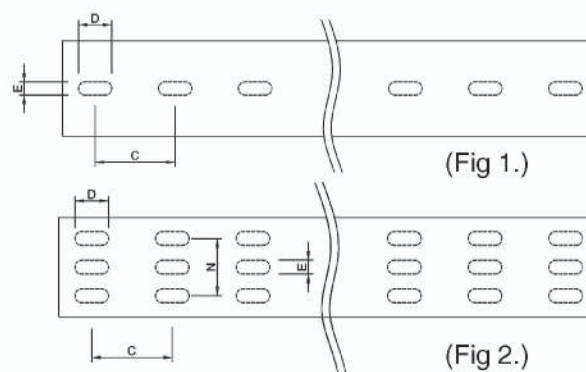
Model	JWDO	JWDHO-A	JWDHO
Material	PVC	ABS	ABS-Halogen free
Temperature Rating	50℃	85℃	60℃
Flammability	UL94 V-0	UL94 V-0	UL94 V-2
Color	Gray, Ivory	Ivory	Ivory

\*Side wall and bottom hole pattern can be changed by customer's request.

\*Narrow type side wall (A : 5mm, B : 10mm) can be ordered by customer's request.



<Typical side view>



<Bottom mounting view>

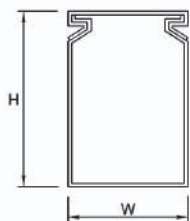
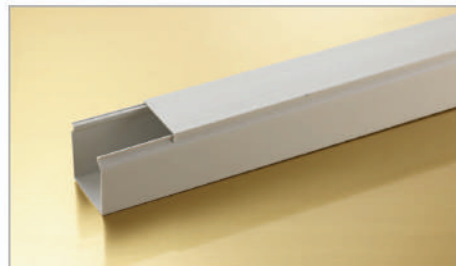


Part Number			Hole Pattern Type	Dimension (mm)								
PVC	ABS	ABS-Halogen free		W	H	A	B	C	D	E	N	Length
JWDO 20×35	JWDHO 20X35A	JWDHO 20X35	Fig 1	20	35	10 *(5)	20 *(10)	50	15	6	—	2000
JWDO 25×40	JWDHO 25X40A	JWDHO 25X40		25	40							
JWDO 25×60	JWDHO 25X60A	JWDHO 25X60		25	60							
JWDO 30×40	JWDHO 30X40A	JWDHO 30X40		30	40							
JWDO 30×60	JWDHO 30X60A	JWDHO 30X60		30	60							
JWDO 30×80	JWDHO 30X80A	JWDHO 30X80		30	80							
JWDO 40×40	JWDHO 40X40A	JWDHO 40X40		40	40							
JWDO 40×60	JWDHO 40X60A	JWDHO 40X60		40	60							
JWDO 40×80	JWDHO 40X80A	JWDHO 40X80		40	80							
JWDO 40×100	JWDHO 40X100A	JWDHO 40X100		40	100							
JWDO 60×40	JWDHO 60X40A	JWDHO 60X40	Fig 2	60	40							
JWDO 60×60	JWDHO 60X60A	JWDHO 60X60		60	60							
JWDO 60×80	JWDHO 60X80A	JWDHO 60X80		60	80							
JWDO 60×100	JWDHO 60X100A	JWDHO 60X100		60	100							
JWDO 80×60	JWDHO 80X60A	JWDHO 80X60		80	60							
JWDO 80×80	JWDHO 80X80A	JWDHO 80X80		80	80							
JWDO 80×100	JWDHO 80X100A	JWDHO 80X100		80	100							
JWDO 100×80	JWDHO 100X80A	JWDHO 100X80		100	80							
JWDO 100×100	JWDHO 100X100A	JWDHO 100X100		100	100							



## Solid Slot Wiring Duct (와이어링 덕트 - 밀폐형)

Model	JWDC	JWDHC-A	JWDHC
Material	PVC	ABS	ABS-Halogen free
Temperature Rating	50℃	85℃	60℃
Flammability	UL94 V-0	UL94 V-0	UL94 V-2
Color	Gray, Ivory	Ivory	Ivory

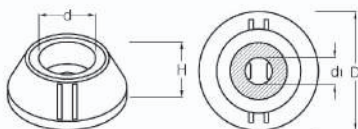


Part Number			Dimension (mm)		
PVC	ABS	ABS-Halogen free	W	H	Length
JWDC 20×35	JWDHC 20X35A	JWDHC 20X35	20	35	2000
JWDC 25×40	JWDHC 25X40A	JWDHC 25X40	25	40	
JWDC 25×60	JWDHC 25X60A	JWDHC 25X60	25	60	
JWDC 30×40	JWDHC 30X40A	JWDHC 30X40	30	40	
JWDC 30×60	JWDHC 30X60A	JWDHC 30X60	30	60	
JWDC 30×80	JWDHC 30X80A	JWDHC 30X80	30	80	
JWDC 40×40	JWDHC 40X40A	JWDHC 40X40	40	40	
JWDC 40×60	JWDHC 40X60A	JWDHC 40X60	40	60	
JWDC 40×80	JWDHC 40X80A	JWDHC 40X80	40	80	
JWDC 40×100	JWDHC 40X100A	JWDHC 40X100	40	100	
JWDC 60×40	JWDHC 60X40A	JWDHC 60X40	60	40	
JWDC 60×60	JWDHC 60X60A	JWDHC 60X60	60	60	
JWDC 60×80	JWDHC 60X80A	JWDHC 60X80	60	80	
JWDC 60×100	JWDHC 60X100A	JWDHC 60X100	60	100	
JWDC 80×60	JWDHC 80X60A	JWDHC 80X60	80	60	
JWDC 80×80	JWDHC 80X80A	JWDHC 80X80	80	80	
JWDC 80×100	JWDHC 80X100A	JWDHC 80X100	80	100	
JWDC 100×80	JWDHC 100X80A	JWDHC 100X80	100	80	
JWDC 100×100	JWDHC 100X100A	JWDHC 100X100	100	100	

## SCREW CAP (스크류 캡)

- Material : ABS (Flame Resistance)
- Flammability : UL 94 V-0
- Color : Gray

※특허출원

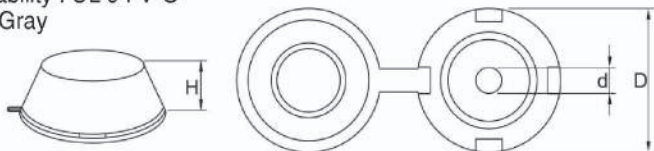


Part Number	Mounting Method	Dimension (mm)				Q'ty/ bag
		D	d	d <sub>1</sub>	H	
JOBC-M5	M5 Screw	22.0	10.5	5.0	9.1	300

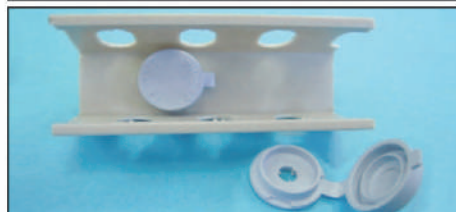


## SCREW COVER (스크류 카바)

- Material : Polypropylene (Flame Resistance)
- Flammability : UL 94 V-0
- Color : Gray



Part Number	Mounting Method	Dimension (mm)			Q'ty/ bag
		D	d	H	
JBC-M4	M4 Screw	17.3	4.4	6.8	300
JBC-M4L	M4 Screw	25.0	4.4	9.0	100



\*JBC-M4L is applicable for bolt with flat and lockwasher.

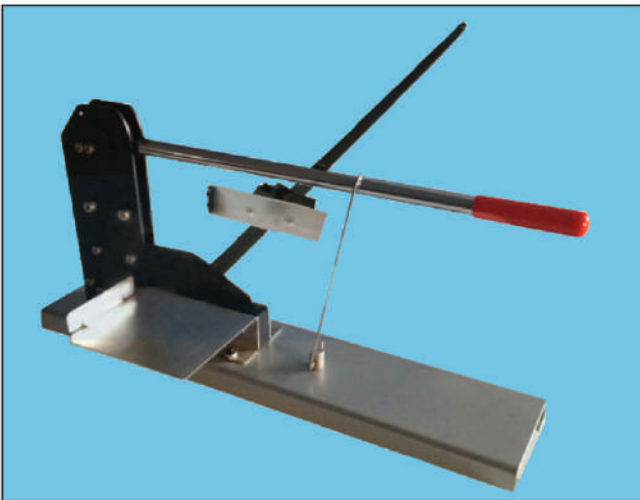
## DUCT CUTTING TOOLS (덕트 절단공구)



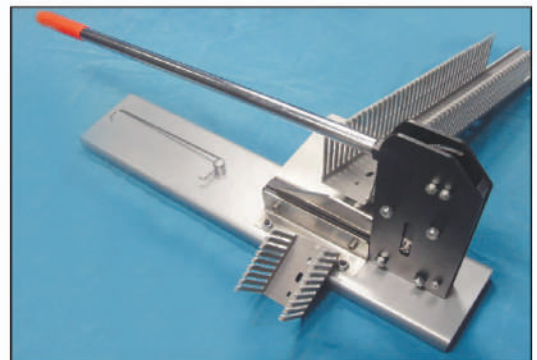
**JWT-3**  
**WIRING DUCT CUTTER**  
Width : Max. 100mm      Weigh : 8kg



**JL-42W**  
**WIRING DUCT CUTTER**  
Width : Max. 40mm



**JWT-5**  
**WIRING DUCT CUTTER**  
The length can be set exactly using an end-stop  
and embedded millimeter guide on machine.



**JWT-4**  
**WIRING DUCT CUTTER**  
Width : Max. 130mm      Weigh : 11kg

## CUTTING TOOL (절단공구)



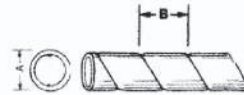
**JL-10**  
**MULTI CUTTER KIT**  
FOR CUTTING BRZIDED HOSES,  
WATER PIPE, ANTI-PRESSURE PIPE,  
PLASTIC CARPET, ANTI-RUBBER PAD.



## HELICAL BAND (헬리컬 밴드)

- Material : Polyethylene  
Excellent in Insulation and Binding Strength.
- Color : Natural or Black and Any Colors upon request.

Part Number	Bundle Diameter Range (mm)	Dimension (mm)			Package Qty.
		A	B	T	
JDH-1	6.4~63.3	8.0	12	0.55	5M
JDH-2	9.8~105.6	13	15	0.55	
JDH-3	12.8~117.3	16	20	0.65	

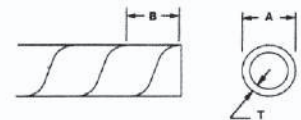


## SPIRAL WRAP (스피럴 랩)

- Material : Halogen Free Polyolefin
- Flame Retardant UL 94V-0
- Harness multiple cables into a single manageable bundle
- Allows breakouts of single/multiple cables
- Provides protection for cables
- Multiple colors allow easy identification of cable bundles

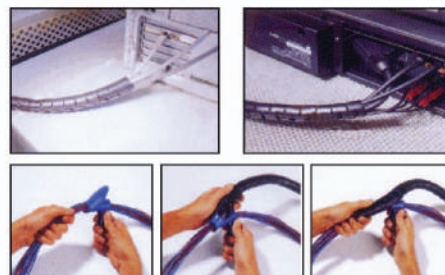
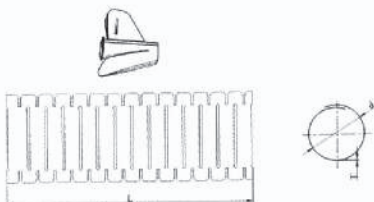


Part Number	Color	Bundle Dia. Range (mm)	Dimension (mm)			Length Per Reel
			A	B	T	
JSW-6F	white Black Red Yellow Blue	4.8~50.8	6.4	9.5	1.02	100M
JSW-9F		7.9~76.2	9.0	11.5	1.4	75M
JSW-12F		9.5~101.6	12.0	12.7	1.7	60M
JSW-15F		12.7~114.3	15.9	22.2	1.57	45M
JSW-19F		15.9~127	19.1	22.2	1.65	30M
JSW-30F			34		2	
JSW-40F			44		2	
JSW-50F			54		2	



## EASY CABLE WRAP (이지 케이블 랩)

JEONO®-JMXXG is easy way for cable management creating a quick and easy bundling solution through using cable wrap with clipper guide, which enables cable to be easily pulled through the spiral wrap. It also serves as protection from damage and won't pinch cables.



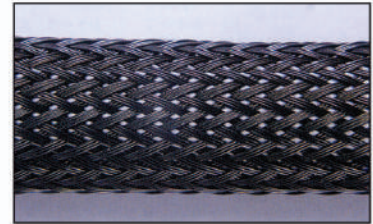
(Unit:mm)

Part Number	I.D (d)	Wall thickness (T)	Max.bundle dia	Packing (L)	
JMXXG-006	6.0	0.7	10.0	1.5m/pcs	50m/roll
JMXXG-012	12.0	0.8	16.0	1.5m/pcs	50m/roll
JMXXG-018	18.0	0.9	22.0	1.5m/pcs	50m/roll
JMXXG-022	22.0	1.0	28.0	1.5m/pcs	50m/roll
JMXXG-028	28.0	1.1	34.0	1.5m/pcs	50m/roll
JMXXG-034	34.0	1.2	40.0	1.5m/pcs	50m/roll

Material	Polyethylene+ Polypropylene
Operating range	-30℃ ~ +100℃
Standard colour	black / grey
Certificate	RoHS
Cutting tool	Scissors
Other features	durable, reusable, nosharp edges

## BRAID EXPANDABLE SLEEVING (익스팬더블 튜브)

- Material : polyester
- Provides continuous abrasion resistance for wires, cables and tubing
- Lightweight, durable protection
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to 257°F (125°C)
- Allows for use with irregular shapes
- Stock colors : Black



Part Number	Nominal I.D in (mm)	Nominal Diameter Range (mm)	Spool Quantity
JES 6	1/4 (6.4)	3.2~9.5	800M
JES 10	3/8 (9.5)	4.7~14.3	300M
JES 12	1/2 (12.7)	6.4~19.1	200M
JES 20	3/4 (19.1)	12.7~31.8	150M
JES 25	1" (25)	18~35	100M
JES 30	1 1/4 (31.8)	19.1~38.1	100M
JES 40	1 1/2 (38.1)	25.4~57.2	100M
JES 45	1 3/4 (44.5)	31.8~69.8	60M
JES 50	2 (50)	38~76	50M

## EXPANDABLE SLEEVING CUTTING TOOLS (익스팬더블 튜브 절단공구)

Part Number	JKD-9
Voltage	AC230V / 50Hz
Power	MAX.70W
Blade temperature	up to 800°C in seconds
Cord length	3.3m
Max. Cutting Width	50mm
Weight	2.1kg
Function	Cut and seal the end of sleeve to prevent fraying
Application purpose	economic solution for mass production



Cut by ordinary tools



Cut by cutting tools

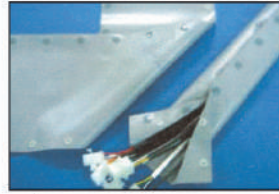
Part Number	JKD-8-3
Voltage	AC230V / 50Hz
Power	MAX.70W
Blade temperature	up to 800°C in seconds
Cord length	3.3m
Max. Cutting Width	50mm
Weight	2.1kg
Function	Cut and seal the end of sleeve to prevent fraying
Application purpose	economic solution for mass production





## HOOK BAND (후크 밴드)

- Material : Polyester Flame Retardant
- Coating : PVC
- Color : Gray and Black
- Operating Temperature : -15°C ~ 60°C

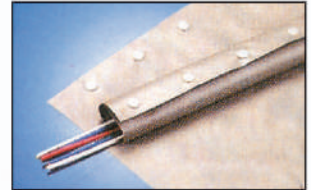
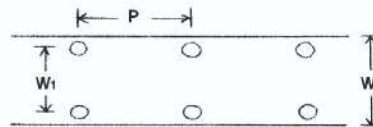


Part Number	Bundle Dia (Ø)	Width (mm)	Hook Pitch(mm)	Spool Quantity
JBP 15	15	60	75	50M
JBP 20	20	80		
JBP 25	25	95		
JBP 30	30	110		
JBP 40	40	140		
JBP 50	50	170		
JBP 60	60	200		
JBP 70	70	225		

\*When ordering product with Black color, add the postfix 'B' to the Part Number (ex. JBP 15 → JBP15B)

## CHANNEL TUBING (후크밴드 난연)

- Material : Fiber Glass Flame Proof-Nonflammability
- Coating : Silicone
- Color : Gray
- Flammability : UL 224 VW-1
- Operating Temperature : -50°C ~ 130°C



Part Number	Bundle Dia (Ø)	Dimension (mm)				Spool Quantity
		W	W1	P	t	
JBF 15	15	65	47	75	0.2	50M
JBF 20	20	85	65			
JBF 25	25	100	80			
JBF 30	30	115	95			
JBF 40	40	145	125			
JBF 50	50	175	155			
JBF 60	60	205	185			
JBF 70	70	230	210			

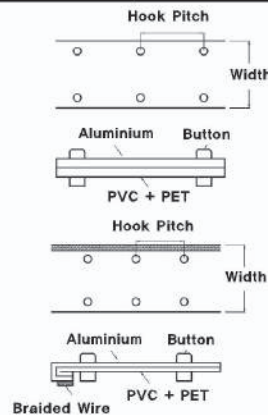
## CABLE SHIELD TUBE (차폐 실드)

### A-TYPE

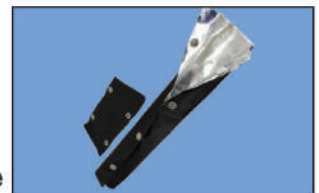
- Material : PVC Film + PET Film + AL Foil (0.01mm)
- Flame Retardant : UL94 VTM-O
- Operating Temperature : -15°C ~ 60°C

### B-TYPE

- Material : PVC Film + PET Film + AL Foil (0.01mm)  
+ Ground Wire
- Flame Retardant : UL94 VTM-O
- Operating Temperature : -15°C ~ 60°C
- Ground Wire : Tin plate copper



A-type



B-type



Part Number		Bundle Dia (Ø)	Width (mm)		Hook Pitch (mm)	Spool Quantity
A-TYPE	B-TYPE		A-type	B-type		
JCST-10	JCST-10G	10	60	70	80	50M
JCST-15	JCST-15G	15	75	85		
JCST-20	JCST-20G	20	90	100		
JCST-25	JCST-25G	25	100	115		
JCST-30	JCST-30G	30	125	125		
JCST-40	JCST-40G	40	155	160		
JCST-50	JCST-50G	50	190	190		
JCST-60	JCST-60G	60	215	220		
JCST-70	JCST-70G	70	250	255		
JCST-80	JCST-80G	80	285	290		
JCST-90	JCST-90G	90	315	320		
JCST-100	JCST-100G	100	345	345		

## SILICONE RUBER FIBERGLASS SLEEVING (실리콘 튜브)

Fiberglass sleeving is treated at high temperature with a special kind of silicone resin and possess outstanding a temperature classification of 200°C. IT also has excellent properties of self-extinguishing and flexibility.

### Grade

- H CLASS ; Max Temperature Rating : 200°C

### Structure

- The materials is Non-Alkali Fiberglass Yam braided, coated with silicone rubber and can treated in high temperature.

### Usage

- This kind sleeving has good dielectric strength, flexibility and flame retardant properties. It can be widely used for wiring insulation, electrical appliances, mechanical protection for electrical machinery, electric generator, motor and so on.



## Specification

PERFORMANCE	ITEM				REMARKS
	FRS-1	FRS-2	FRS-3	FRS-4	
AVERAGE VOLTAGE	2.5kV	4.0kV	7.0kV	10.0kV	Before Aged
LOWEST BREAKDOWN VOLTAGE	2.0kV	2.5kV	5.0kV	7.0kV	
BS 0202-SL10	Voltage no less than half of the original				put into constant temperature 250°C oven for 72 hours
BS 0202-SL10	No any break in appearance				put into constant temperature -10 container for 1 hour, then twist it wiht 6 circles
FIRE RESISTANCE	VW-1	VW-1	VW-1	/	UL1441

\* FRS-1, FRS-3, FRS-4 is the ordered products.

## Dimension

Diameter (mm)	Tolerance (mm)	Thickness (mm)				Standard Package (m.roll)
		FRS-1	FRS-2	FRS-3	FRS-4	
0.5	+0.3, -0.0	0.35±0.05	0.45±0.10	0.48±0.10	0.50±0.10	200
0.8	+0.3, -0.0	0.35±0.05	0.45±0.10	0.48±0.10	0.50±0.10	200
1.0	+0.3, -0.0	0.35±0.05	0.50±0.15	0.53±0.15	0.55±0.15	100
1.5	+0.3, -0.0	0.42±0.08	0.50±0.15	0.53±0.15	0.55±0.15	100
2.0	+0.3, -0.0	0.42±0.08	0.50±0.15	0.53±0.15	0.55±0.15	100
2.5	+0.3, -0.0	0.42±0.08	0.50±0.15	0.53±0.15	0.55±0.15	100
3.0	+0.3, -0.0	0.47±0.08	0.52±0.16	0.55±0.16	0.58±0.16	100
3.5	+0.3, -0.0	0.47±0.08	0.52±0.16	0.55±0.16	0.58±0.16	100
4.0	+0.3, -0.0	0.47±0.08	0.52±0.16	0.55±0.16	0.58±0.16	100
4.5	+0.3, -0.0	0.47±0.08	0.52±0.16	0.55±0.16	0.58±0.16	100
5.0	+0.3, -0.0	0.52±0.08	0.58±0.18	0.61±0.18	0.64±0.18	100
6.0	+0.3, -0.0	0.52±0.08	0.58±0.18	0.61±0.18	0.64±0.18	100
7.0	+0.3, -0.0	0.52±0.08	0.58±0.18	0.61±0.18	0.64±0.18	50
8.0	+0.3, -0.0	0.52±0.08	0.58±0.18	0.61±0.18	0.64±0.18	50
9.0	+0.3, -0.0	0.52±0.08	0.58±0.18	0.61±0.18	0.64±0.18	50
10.0	+0.5, -0.0	0.62±0.12	0.65±0.20	0.69±0.20	0.73±0.20	50
12.0	+0.5, -0.0	0.62±0.12	0.65±0.20	0.69±0.20	0.73±0.20	50
14.0	+0.5, -0.0	0.68±0.12	0.65±0.20	0.69±0.20	0.73±0.20	50
16.0	+0.5, -0.0	0.68±0.12	0.65±0.20	0.69±0.20	0.73±0.20	50
18.0	+0.8, -0.2	0.68±0.12	0.70±0.20	0.75±0.20	0.80±0.20	50
20.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50
22.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50
24.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50
25.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50
26.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50
28.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50
30.0	+0.8, -0.2	0.75±0.18	0.70±0.20	0.75±0.20	0.80±0.20	50

**Package :** Packing by rolls or cut upon request

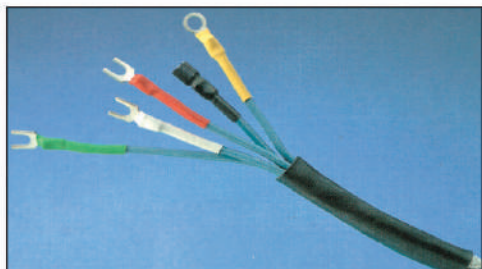
Package from	Length	Tolerance Scope
Roll	Over 50M	±2%
Meter	1M	±1%
PCS	Over 10CM	±1%
under one meter	Under 10CM	±1mm



## HEAT SHRINKABLE TUBING (열 수축튜브)



- Material : Polyolefin
- Continuous Operating Temp : -55°C ~125°C



XX : color code  
 BK : Black  
 BL : Blue  
 WH : White  
 RD : Red  
 CL : Clear  
 GN : Green

YL : Yellow  
 GR : Gray  
 OR : Orange  
 GY : Green-  
 Yellow

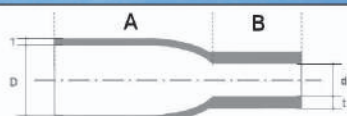
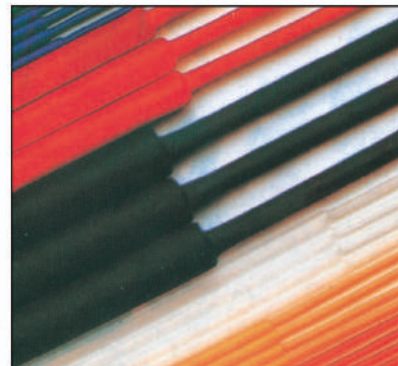
### JHS225

**Shrink Ratio**

2 indicated 50% (2:1)

**Temperature Grade**

25 indicated 125°C



Part Number	SIZE (mm)	A. Expanded as Supplied (mm)		B. Fully recovered after heating (mm)		Roll
		D	T	d	t	
JHS225-XX-1.2	1.2	1.4	0.2	0.5	0.36	200
JHS225-XX-1.5	1.5	2.0	0.2	0.75	0.44	200
JHS225-XX-2	2.0	2.5	0.2	1.0	0.44	100
JHS225-XX-2.5	2.5	3.0	0.25	1.25	0.44	100
JHS225-XX-3	3.0	3.4	0.25	1.5	0.44	100
JHS225-XX-3.5	3.5	3.9	0.25	1.75	0.44	100
JHS225-XX-4	4.0	4.3	0.25	2.0	0.44	100
JHS225-XX-4.5	4.5	5.0	0.25	2.25	0.56	100
JHS225-XX-5	5.0	5.6	0.25	2.5	0.56	100
JHS225-XX-6	6.0	6.5	0.25	3.0	0.56	100
JHS225-XX-7	7.0	7.7	0.25	3.5	0.56	100
JHS225-XX-8	8.0	8.6	0.25	4.0	0.56	100
JHS225-XX-9	9.0	9.8	0.25	4.5	0.56	100
JHS225-XX-10	10.0	10.4	0.25	5.0	0.56	100
JHS225-XX-11	11.0	11.4	0.25	5.5	0.56	100
JHS225-XX-12	12.0	12.5	0.25	6.0	0.56	100
JHS225-XX-13	13.0	13.7	0.30	6.5	0.69	100
JHS225-XX-14	14.0	14.4	0.30	7.0	0.69	100
JHS225-XX-15	15.0	15.6	0.30	7.5	0.69	100
JHS225-XX-16	16.0	16.7	0.30	8.0	0.69	100
JHS225-XX-18	18.0	19.3	0.35	9.0	0.77	50
JHS225-XX-20	20.0	21.7	0.40	10.0	0.77	50
JHS225-XX-22	22.0	23.4	0.40	11.0	0.77	50
JHS225-XX-25	25.0	25.5	0.45	12.5	0.87	50
JHS225-XX-28	28.0	29.0	0.45	14.0	0.87	50
JHS225-XX-30	30.0	31.0	0.45	15.0	0.87	50
JHS225-XX-38	38.0	39.0	0.45	19.0	0.97	50
JHS225-XX-50	50.0	51.0	0.45	25.0	0.97	50
JHS225-XX-60	60.0	63.5	0.55	31.75	1.1	25
JHS225-XX-75	75.0	76.2	0.6	38.1	1.17	25
JHS225-XX-100	100.0	101.6	0.7	50.8	1.17	25

## HEAT SHRINK TOOLS (수축튜브 히팅 건)

Part Number	JCS-860
Power/Voltage	1600W/220V-240V
Temperature	100°C-590°C digital control temperature
Air Volume	166L/M, 330L/Min, 500L/Min
Weight	840g
Carton Size	40.5 x 28.5 x 54.5
Q.C	10pcs
G.W/N.W	12.5kg / 9.0kg



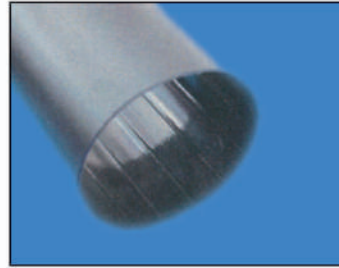
Before heating

After heating



## HEAVY WALL HEAT SHRINKABLE TUBING (본드 수축튜브)

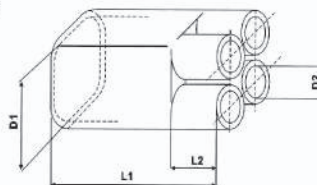
- Material : Adhesive lined black cross-linked polyolefin
- Rated for 600V, 90°C continuous use
- High impact, Abrasion, coorsion and chemical Resistance
- Shrink Temperature 120°C



Part Number	Size	A range of application	Dimension (mm)				
			Expanded as Supplied		Fully recovered after heating		L
			D (Max)	W (Max)	d (Min)	W (Min)	
JWHS-0903	9/3	3.5~8.0	9	0.7	3	1.7	1200
JWHS-1204	12/4	4.5~10.0	12	0.8	4	2.0	1200
JWHS-2006	20/6	6.5~16.5	20	0.8	6	2.5	1200
JWHS-2508	25/8	8.5~20.0	25	0.8	8	2.5	1200
JWHS-2809	28/9	9.5~22.0	28	0.8	9	2.5	1200
JWHS-3311	33/11	10.0~25.0	33	1.0	11	2.5	1200
JWHS-3812	38/12	14.0~30.0	38	1.0	12	2.5	1200
JWHS-4816	48/16	18.0~40.0	48	1.3	15	2.7	1200
JWHS-5618	56/18	20.0~48.0	56	1.3	18	2.8	1200
JWHS-7522	75/22	25.0~66.5	75	1.3	23	3.0	1200
JWHS-8525	85/25	27.0~76.5	85	1.3	25	3.0	1200
JWHS-9525	95/25	27.0~88.0	90	1.3	30	3.0	1200
JWHS-11534	115/34	37.0~110	115	1.3	34	3.0	1200
JWHS-14042	140/42	46.0~135	140	1.3	42	3.0	1200
JWHS-16050	160/50	55.0~155	160	1.4	50	3.0	1200

## HEAT SHRINKABLE BREAKOUT BOOTS (열 수축 분기관)

- Material : Adhesive lined black cross-linked polyolefin
- Boots for 2,3 and 4 way cable Breakout
- Shrink Temperature 130°C



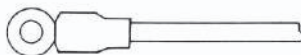
Property	Typical Data
Operating temperature	-55°C to + 100°C
Tensile strength	14 Mpa min.
Tensile strength after thermal aging	10 Mpa min.
aging	120°C/168hrs.
Elongation at break after	250% min
thermal aging (120°C/168hrs.)	
Elongation at break	300% min.
Water absorption	1% max
Volume resistance	10 <sup>15</sup> Ω.cm(min.)
Dielectric Strength	15KV/mm(min.)
Flammability*	Flammable

규격	Expanded(mm)		Recovered(mm)			
	Main diameter D1(Min.)	Finger diameter D2(Min.)	Main diameter (Max.)	Finger diameter (Max.)	Full length ±10% L1	Full length ±10% L2
JBB - 3분기						
30/14	30	10	14	3.6	110	61
40/18	40	15	18	5.6	175	66
50/24	50	22	24	6.8	190	72
65/30	65	28	30	8.0	205	78
78/36	78	33	36	10.0	220	80
90/46	90	38	46	14.0	220	87
JBB - 4분기						
32/16	32	10	16	3.8	110	63
42/20	42	15	20	6.0	180	68
56/26	56	22	26	7.0	190	72
68/34	68	28	34	9.0	205	78
82/44	82	33	44	11.0	215	82
96/48	96	38	48	14.0	220	85



## TERMINAL CAPS (단자캡)

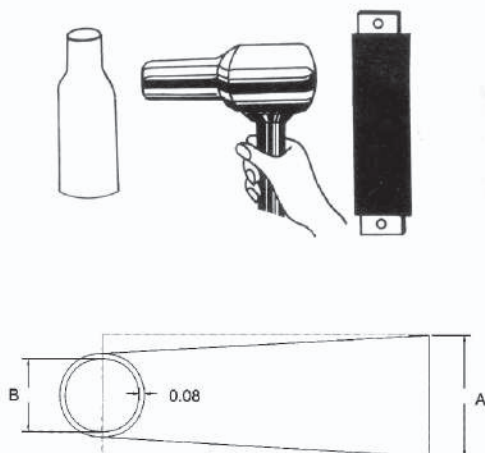
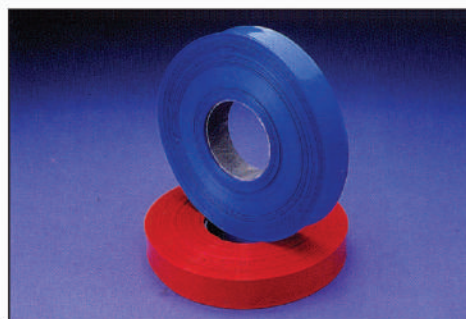
- Material : Soft PVC
- Maximum service temp : 80°C
- Standard color : red, white, blue, yellow, black  
(Green, brown available on special request)



Part No.	Wire Range (mm²)	Dimension (mm)				Part No.	Wire Range (mm²)	Dimension (mm)			
		d1	d2	L	T			d1	d2	L	T
JOPC-1.5	1.5	3.2	3.2	14	0.8	JOPC-70	70	17	16.5	43	1.2
JOPC-2.5	2.5	3.5	3.5	15		JOPC-95	95	20	18.0	50	
JOPC-4	4	4.5	4.5	18		JOPC-120	120	22	20.0	58	
JOPC-6	6	5.5	5.5	19		JOPC-150	150	25	22.0	61	
JOPC-10	10	6.5	6.5	20		JOPC-185	185	27	25.0	66	
JOPC-16	16	8.0	8.5	23		JOPC-240	240	28	26.0	70	
JOPC-25	25	10.0	10.0	28	1.2	JOPC-300	300	32	30.0	77	1.5
JOPC-35	35	11.5	11.5	33		JOPC-400	400	42	42.0	60	
JOPC-50	50	16.0	14.0	40		JOPC-500	500	46	46.0	100	

## HEAT SHRINKING BUSBAR SLEEVES (부스바용 수축튜브)

- Material : Rigid Shrinkable PVC
- Used for color distinction and insulation of busbar in control panel. To be shrunk by blower or hot water.
- Maximum Service Temp : 80°C



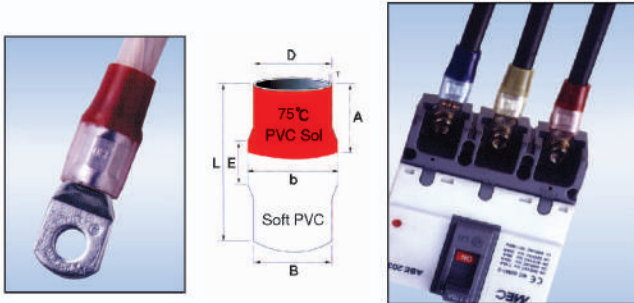
Part Number	LAY FLAT Dimension A (mm)	Convert to Dia. B (mm)	Shrinkable Range (mm)	Color	Package Qty.
JHS-12	12	7.6	12~5.8	Red	100M Per Roll
JHS-16	16	11	16~6.6		
JHS-20	20	13	20~11		
JHS-25	25	16	25~14		
JHS-30	30	19	30~16		
JHS-40	40	25	40~22	White Blue Black Yellow	50M Per Roll
JHS-55	55	35	55~30		
JHS-65	65	41	65~35		
JHS-72	72	45	72~38		
JHS-82	82	51	82~43		
JHS-92	92	57	92~47		
JHS-106	106	66	106~57		
JHS-125	125	79	125~67		
JHS-150	150	95	150~90		
JHS-175	175	111	175~96		





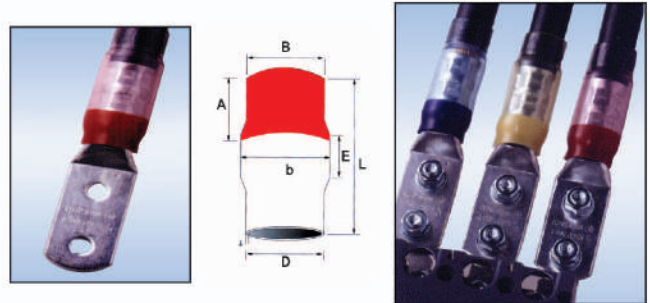
## EYE TUBULAR CABLE LUG THERMO CAPS (아이캡)

• Material : Soft PVC / PVC Sol



Type-One Hole

Part Number	Wire Range (mm²)	Dimension (mm)						
		D	B	E	L	b	T	A
JEO 2	2.4	3.8	4	3.5	15	5	0.8	9.5
JEO 4	4	4.5	5	5	21	6	0.9	12.5
JEO 6	6	5.2	5.5	6	21	6.5	1	7.5
JEO 10	10	6.4	6.8	7	29	7.5	1.1	10
JEO 16	16	7.5	8.5	9	29	10	1.2	12
JEO 25	25	9.5	10	10	32	12	1.5	17
JEO 35	35	11.5	13	12	35	14	1.5	18.5
JEO 50	50	14	15	15	40	18	1.5	18.9
JEO 70	70	15.5	17	18	45	20	1.5	23.5
JEO 95	95	17.5	19	19	50	22	1.5	26
JEO 120	120	18	20	25	65	24	1.5	26
JEO 150	150	21	22	29	68	26	1.6	28.5
JEO 185	185	24.5	28	30	68	31	1.7	35.4
JEO 240	240	27.5	31	32	73	35	1.9	32.6
JEO 300	300	30.5	36	34	75	39	2.3	40



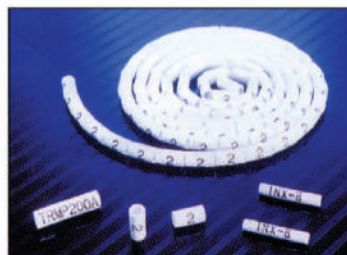
Type-Two Hole

Part Number	Wire Range (mm²)	Dimension (mm)						
		D	B	E	L	b	T	A
JET 25	25	9	11	10	30	9	1.2	12
JET 35	35	10	13	12	32	10	1.5	17
JET 50	50	12	13	26	53	16	1.3	19.4
JET 70	70	15	15	28	56	18	1.5	20
JET 95	95	17	16	32	63	20	1.5	21.1
JET 120	120	19	20	38	70	22	1.5	22.8
JET 150	150	21	21	40	71	24	1.5	22.8
JET 185	185	23	23	42	78	27	1.8	27.5
JET 240	240	27	25	45	86	32	1.5	23.5
JET 300	300	29	28	58	98	35	2.1	27.1
JET 400	400	33	31	65	106	38	2.3	27.9
JET 500	500	39	35	68		44		

## NUMBER TUBS (넘버 튜브)

• Material : Soft PVC

Part Number	Wire Range
JNTU-015	1.5mm²
JNTU-025	2.5mm²
JNTU-04	4mm²
JNTU-06	6mm²
JNTU-10	10mm²
JNTU-16	16mm²
JNTU-25	25mm²
JNTU-35	35mm²



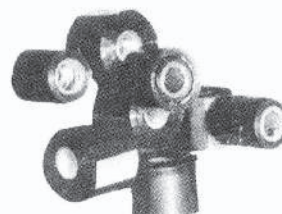
Apply Before Wire Termination



## MARKING TAPES (마킹 테이프)

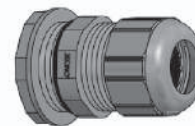
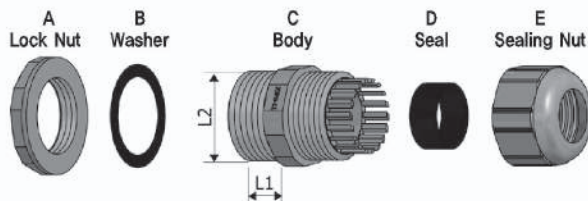
• Color : White or Black  
• For printed Numbering Tube

Part Number
JOMA-100



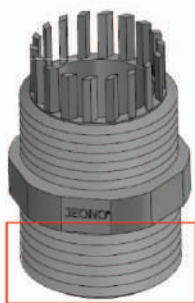
## NON-METALLIC CABLE GLANDS TYPE-PG (케이블 글랜드 - PG타입)

- Material : A, C, E Part : Nylon 66  
B, D Part : Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C  
-20°C ~ 80°C in dynamic state  
instantaneous heat resistance up to 100°C
- Flammability : UL 94 V-2
- Protection type : IP 68
- Color : Silver gray or Black (Other color can be supplied as request)



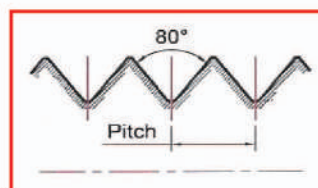
Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)		Pcs/Bag
					Sealing Nut	Lock Nut	
JOPG-7	PG 7	4~6.5	11	12.5	15	19	100
JOPG-9	PG 9	4.5~8.5	11	15.2	19	22	100
JOPG-11	PG 11	5~10	12	18.6	22	24	100
JOPG-13.5	PG 13.5	6~11	13	20.4	24	26	100
JOPG-16	PG 16	8~13	13	22.5	27	30	100
JOPG-21	PG 21	13~18	16	28.3	33	35	50
JOPG-29	PG 29	18~25	16	37	42	46	25
JOPG-36	PG 36	23~32	17	47	53	56	20
JOPG-42	PG 42	30~38	17	54	60	65	20
JOPG-48	PG 48	37~44	18	59.3	68	69	10

### Variation of bottom thread

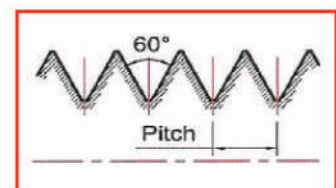


- NPT : National(American) Pipe Thread
- M : Metric Thread
- G : British Standard Pipe Thread
- PG : Germany Standard Thread

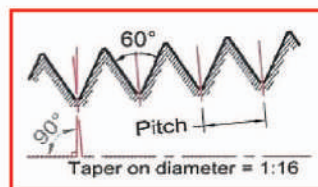
### Pitch and angle of thread



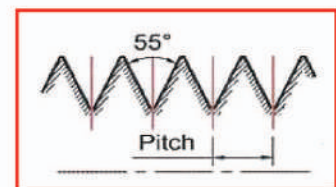
〈PG TYPE〉



〈M TYPE〉



〈NPT TYPE〉



〈G TYPE〉

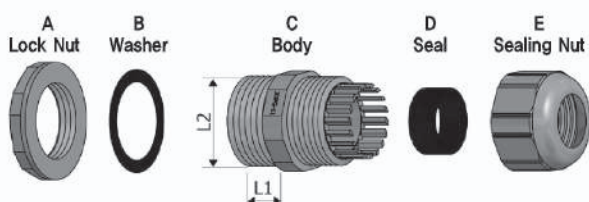
\*Comparison of each similar size cable glands pitch length

- PG type (JOPG-29) : 1.5mm
- M type (JM-32) : 1.5mm
- NPT type (JNPT-1) : 2.2mm
- G type (JG-1) : 2.3mm



## NON-METALLIC CABLE GLANDS TYPE-M (케이블 글랜드 - M타입)

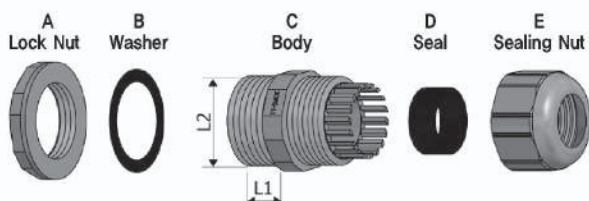
- Material : A, C, E Part : Nylon 66  
B, D Part : Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C  
-20°C ~ 80°C in dynamic state  
instantaneous heat resistance up to 100°C
- Flammability : UL 94 V-2
- Protection type : IP 68
- Color : Silver gray or Black (Other color can be supplied as request)



Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)		Pcs/Bag
					Sealing Nut	Lock Nut	
JM-12	M12	3~6.5	11	12	15	18	100
JM-16	M16	4~8	11	16	19	22	100
JM-20	M20	6~12	13	20	24	27	100
JM-25	M25	12~18	15	25	31	33	100
JM-32	M32	16~21	14	32	32	40	50
JM-40	M40	22~32	17	40	53	49	20
JM-50	M50	32~38	17	50	53	61	20
JM-63	M63	37~44	18	63	68	73	20

## NON-METALLIC CABLE GLANDS TYPE-NPT (케이블 글랜드 - NPT타입)

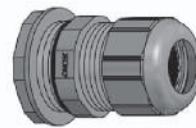
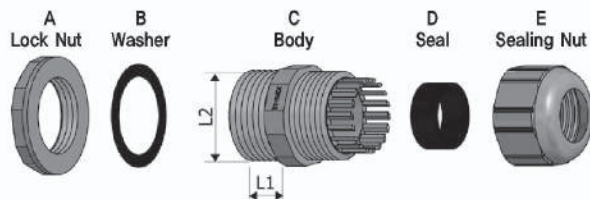
- Material : A, C, E Part : Nylon 66  
B, D Part : Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C  
-20°C ~ 80°C in dynamic state  
instantaneous heat resistance up to 100°C
- Flammability : UL 94 V-2
- Protection type : IP 68
- Color : Silver gray or Black (Other color can be supplied as request)



Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)		Pcs/Bag
					Sealing Nut	Lock Nut	
JNPT-38	NPT 3/8"	6~10	15	17.1	20	22	100
JNPT-12	NPT 1/2"	8~14	15	21.3	23	27	100
JNPT-34	NPT 3/4"	12~16	15	26.6	32	33	100
JNPT-1	NPT 1"	18~25	17	33.5	41	41	20
JNPT-114	NPT 1-1/4"	24~32	18	42	49	51	20

## NON-METALLIC CABLE GLANDS TYPE-G (케이블 글랜드 - G타입)

- Material : A, C, E Part : Nylon 66  
B, D Part : Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C  
-20°C ~ 80°C in dynamic state  
instantaneous heat resistance up to 100°C
- Flammability : UL 94 V-2
- Protection type : IP 68
- Color : Silver gray or Black (Other color can be supplied as request)

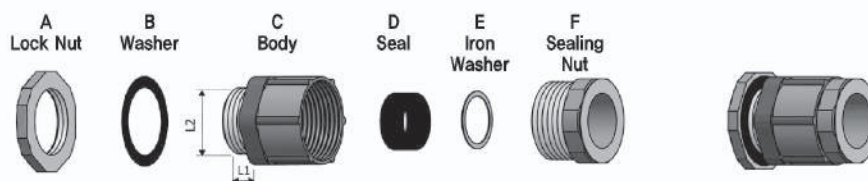


Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)		Pcs/Bag
					Sealing Nut	Lock Nut	
JG-14	G 1/4	3~7	9	13.1	20	20	100
JG-38	G 3/8	6~10	10	16.6	22	22	100
JG-12	G 1/2	9~14	10	20.9	23	27	100
JG-34	G 3/4	13~18	12	26.4	33	33	100
JG-1	G 1	18~25	15	33.2	41	41	20
JG-114	G 1-1/4	24~30	15	41.9	49	51	20



## NON-METALLIC CABLE GLANDS TYPE-PGL (케이블 글랜드 - PGL 타입)

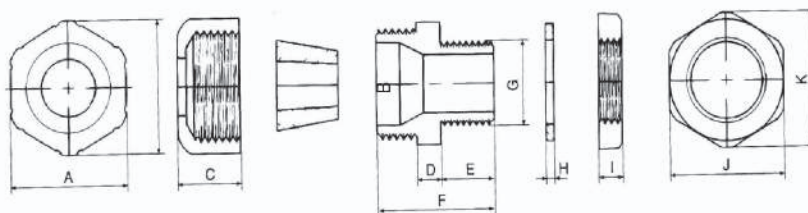
- Material : A, C, F Part : Nylon 66  
B, D Part : Nitrile Butadiene Rubber (NBR)  
E Part : Iron
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C  
-20°C ~ 80°C in dynamic state  
instantaneous heat resistance up to 100°C
- Flammability : UL 94 V-2
- Protection type : IP 68
- Color : Silver gray or Black (Other color can be supplied as request)
- Other thread type (M, NPT, G) is able to supply in special order.



Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)		Pcs/Bag
					Sealing Nut	Lock Nut	
JPGL-7	PG 7	5~7	8	12.5	15	19	100
JPGL-9	PG 9	5~9	8	15.2	19	22	100
JPGL-11	PG 11	7~11	8	18.6	22	24	100
JPGL-13.5	PG 13.5	8~12	9	20.4	24	26	100
JPGL-16	PG 16	11~15	11	22.5	27	30	100
JPGL-21	PG 21	15~20	11	28.3	32	36	100
JPGL-29	PG 29	22~27	13	37	42	46	50
JPGL-36	PG 36	26~33	13	47	53	56	20
JPGL-42	PG 42	30~38	14	54	60	65	20
JPGL-48	PG 48	40~44	14	59.3	60	70	20

## NON-METALLIC CABLE GLANDS TYPE-NEC (케이블 글랜드 - NEC 타입)

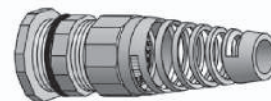
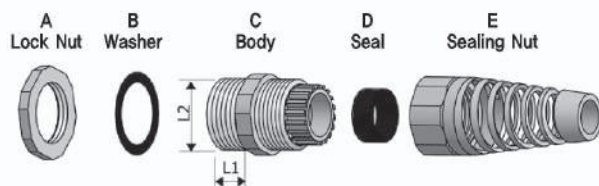
- Body Material : Nylon
- Seal Insert : Neoprene
- Color : White or Gray Black



Part Number	To suit cable dia between	Dimensions(mm)										
		A	B	C	D	E	F	G	H	I	J	K
NEC-8A	ø4~ø6.5	17.7	ø19.2	11.6	4	7.6	22	ø12.6	1.8	5	17.3	ø19
NEC-12A	ø7~ø9	24.5	ø27	13.2	5.1	8.5	25	ø16.2	1.8	5	24.5	ø27
NEC-16A	ø7~ø9	30	ø32.8	13.7	6	9.2	29	ø20.4	2	5	30	ø33.3
	ø10~ø13											
	ø12~ø15											
NEC-20A	ø13~ø16	35	ø38.3	15.3	6	14.2	30	ø25.8	2	5	35	ø38.8
	ø16~ø19											
NEC-28A	ø20~ø24	43.7	ø48.5	18.5	6	19	41	ø32.6	2	7	44	ø48.5
NEC-36A	ø25~ø30	52.8	ø58.1	19.5	6	19.2	42	ø41.3	2	7	52.8	ø57.8
	ø31~ø34											

## NON-METALLIC CABLE GLANDS (With strain relief) TYPE-PG(R) (케이블 글랜드 - PG(R) 타입)

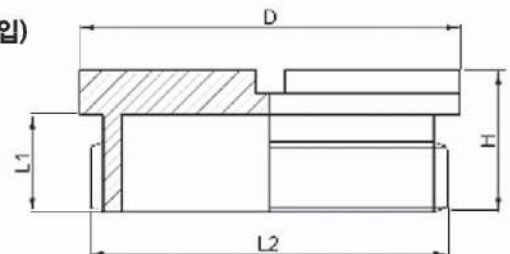
- Material : A, C, E Part : Nylon 66  
B, D Part : Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C  
-20°C ~ 80°C in dynamic state  
instantaneous heat resistance up to 100°C
- Flammability : UL 94 V-2
- Color : Silver gray or Black (Other color can be supplied as request)
- Other thread type (M, NPT, G) is able to supply in special order.



Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)		Pcs/Bag
					Sealing Nut	Lock Nut	
JOPG-7R	PG 7	3~6.5	9	12.5	15	19	100
JOPG-9R	PG 9	4~8	9	15.2	19	22	100
JOPG-11R	PG 11	5~10	9	18.6	22	24	100
JOPG-13.5R	PG 13.5	6~12	10	20.4	24	26	100
JOPG-16R	PG 16	10~14	10	22.5	27	30	50
JOPG-21R	PG 21	13~18	12	28.3	32	36	50

## NON-METALLIC THREADED PLUG TYPE-PG(T) (홀 카바 - PG 타입)

- Material : Body - Nylon 66  
O-Seal - Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C
- Flammability : UL 94 V-2
- Protection type : IP 54
- Color : Silver gray or Black (Other color can be supplied as request)
- Other thread type (M) is able to supply in special order.

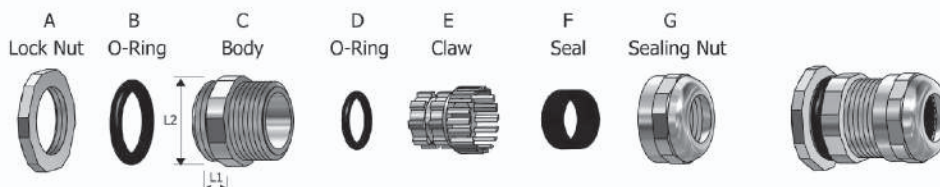


Part Number	Thread Size	Dimensions (mm)				Pcs/Bag
		L1	L2	H	D	
JOPG-7T	PG 7	8.5	12.5	12.5	15	500
JOPG-9T	PG 9	8.5	15.2	13	19	500
JOPG-11/T	PG 11	9	18.6	13	22	500
JOPG-13.5T	PG 13.5	9	20.4	13	25	500
JOPG-16T	PG 16	10.5	22.5	15	27	200
JOPG-21T	PG 21	10.5	28.3	15.5	39	200
JOPG-29T	PG 29	11.5	37	16	44	200
JOPG-36T	PG 36	13.5	47	18	55	100
JOPG-42T	PG 42	13.5	54	18.5	62	50
JOPG-48T	PG 48	14.5	59.3	19.5	68	50



## METALLIC CABLE GLANDS TYPE-PG(B) (메탈 케이블 글랜드 - PG타입)

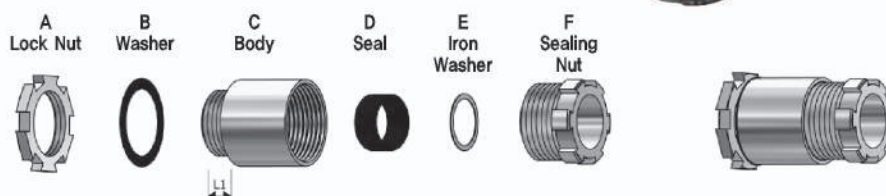
- Material : A, C, G Part : Brass (Nickel Plated)  
B, D, F Part : Nitrile Butadiene Rubber (NBR)  
E Part : Nylon 66
- Working Temperature : -40°C ~ 100°C in static state  
instantaneous heat resistance up to 120°C
- Protection type : IP 68
- Other thread type (M, NPT, G) is able to supply in special order.



Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Thread O.D. L2 (mm)	Spanner Size (mm)	Pcs/Bag
JPGB-7	PG 7	3~6.5	6	12.5	14	100
JPGB-9	PG 9	4~8	7	15.2	18	100
JPGB-11	PG 11	5~10	7	18.6	20	100
JPGB-13.5	PG 13.5	6~12	7.5	20.4	22	100
JPGB-16	PG 16	10~14	7.5	22.5	24	100
JPGB-21	PG 21	13~18	8	28.3	30	50
JPGB-29	PG 29	18~25	9	37	40	25
JPGB-36	PG 36	22~32	9	47	50	12
JPGB-36L	PG 36	20~26	15	47	50	12
JPGB-42	PG 42	32~38	10	54	57	10
JPGB-42L	PG 42	25~31	15	54	58	10
JPGB-48	PG 48	37~44	11	59.3	64	10
JPGB-48L	PG 48	29~35	15	59.3	63	10
JPGB-63	PG 63	42~52	15	61.4	76	10

## METALLIC CABLE GLANDS TYPE-JIS (메탈 케이블 글랜드 - JIS타입)

- Material : A, C, F Part : Brass (Nickel Plated)  
B, D Part : Nitrile Butadiene Rubber (NBR)  
E Part : Iron
- Working Temperature : -40°C ~ 100°C

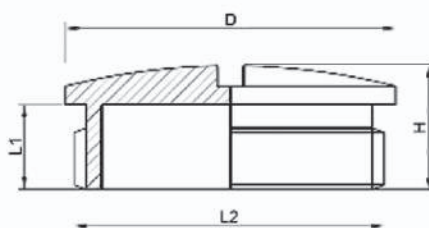


Part Number	Thread Size	Cable Range	Thread Length L1 (mm)	Mounting Hole Dia. (mm)
JJIS-10	3/8"	7~8	11	18
JJIS-15	1/2"	9~11	11	22
JJIS-20	3/4"	12~15	11	27
JJIS-25	1"	16~20	11	34
JJIS-30	1-1/4"	22~26	12	43
JJIS-35	1-1/2"	26~30	12	49
JJIS-40		30~34	12	49
JJIS-45		36~40	12	61
JJIS-50	2"	40~44	12	61
JJIS-55		46~50	12	76
JJIS-60		52~56	12	76

## METALLIC THREADED PLUG TYPE-PG (TM)

### (메탈 홀 카바 - PG타입)

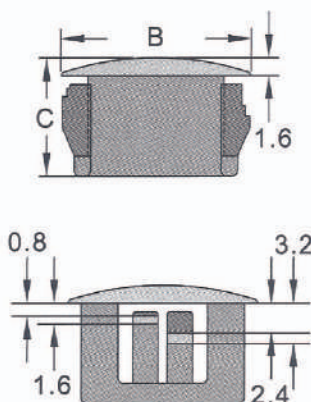
- Material : Body - Brass (Nickel Plated)  
O-Seal - Nitrile Butadiene Rubber (NBR)
- Working Temperature : -40°C ~ 100°C
- Protection type : IP 54 / IP 68
- Other thread type (M) is able to supply in special order.



Part Number	Thread Size	Dimensions (mm)				Pcs/Bag
		L1	L2	H	D	
JOPG-7TM	PG 7	8.5	12.5	12.5	15	500
JOPG-9TM	PG 9	8.5	15.2	13	19	500
JOPG-11/TM	PG 11	9	18.6	13	22	500
JOPG-13.5TM	PG 13.5	9	20.4	13	25	500
JOPG-16TM	PG 16	10.5	22.5	15	27	200
JOPG-21TM	PG 21	10.5	28.3	15.5	39	200
JOPG-29TM	PG 29	11.5	37	16	44	200
JOPG-36TM	PG 36	13.5	47	18	55	100
JOPG-42TM	PG 42	13.5	54	18.5	62	50
JOPG-48TM	PG 48	14.5	59.3	19.5	68	50

## HOLE PLUG (홀 카바)

- Material : Nylon 6.6
- Color : Black or Natural
- Lock firmly in chassis up to 3.2mm(1/8") thick.
- Close unneeded chassis holes.
- Quick and easy installation.



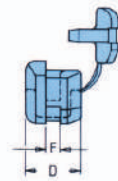
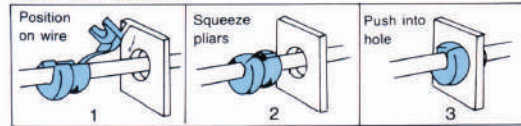
Part Number	Mounting Hole	Dimensions (mm)		Pcs/Bag
	mm	B	C	
JOPM-6	6.0	7.8	7.8	100
JOPM-8	7.9	10.3	8.1	
JOPM-10	9.5	13.0	10.5	
JOPM-12	12.7	14.5	10.1	
JOPM-15	15.9	19.5	10.0	
JOPM-19	19.1	22.9	10.0	
JOPM-22	22.2	25.8	11.3	
JOPM-25	25.4	29.0	11.6	
JOPM-28	27.8	31.7	12.1	
JOPM-30	30.1	34.2	12.0	



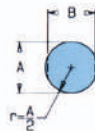
## STRAIN RELIEF BUSHINGS (스트레인 릴리프 부싱)

- Housing Material : Nylon 66  
flame resistant and self-extinguishing  
according to UL 94V-2.
- Standard Color : Black.

### Assembly Procedure:



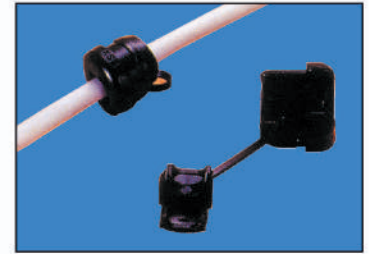
Maximum Chassis  
thickness-Part actually  
has additional clearance



MOUNTING HOLE



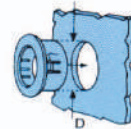
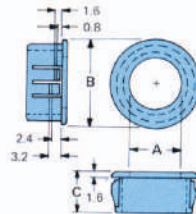
H NO.1  
Assembly Tool



Part Number	Cross Section Shape	UL Wires Accommodated	Approx. Wire Size mm	Mounting Holes		Max. Thickness F mm	Length D mm	Packing	
				A mm	B mm			Pcs/Bag	Pcs/Carton
JRB 2P-4	Flat	SPT-1	3×5.6	9.5	8.7	1.6	10.3	1000	20000
JRB 3P-4		SPT-1	3×5.6	11	9.9	1.6	10.3	1000	10000
JRB 3W-1		SPT-1	3×5.6	11	9.9	2.5	10.3	1000	10000
JRB 4N-4		SPT-2	3.71/3.83×7.6	12.7-13.1	11.8	1.6	10.3	1000	10000
JRB 4K-4		SPT-2	3.71/3.83×7.6	12.7-13.1	11.8	2.5	10.3	1000	10000
JRB 5N-4	Round	SVI SVT	6.4Ø-7.4Ø	12.7-13.1	11.5	1.6	11	1000	10000
JRB 5P-4		SVI SVT	6.4Ø-7.4Ø	12.7-13.1	11.5	2.5	11	1000	10000
JRB 6N-4		SJT 3C #18	7.6Ø	15.9	14	1.6	14.8	500	5000
JRB 6P-4		SJT 3C #18	7.6Ø	15.9	14	3.2	14.8	500	5000
JRB 6N3-4		SJT 3C #16	8.2Ø-9.2Ø	15.9	14	1.6	14.8	500	5000
JRB 6P3-4		SJT 3C #16	8.2Ø-9.2Ø	15.9	14	3.2	14.8	500	5000
JRB 7N-2		SJT 3C #14	9.2Ø-10.5Ø/11Ø	19/19.8	16.8	1.6	19	100	2000
JRB 7P-2		SJT 3C #14	9.2Ø-10.5Ø/11Ø	19/19.8	16.8	3.2	19	100	2000
JRB 8P-2		SJT 3C #12	12Ø-15.2Ø	22.2	21.3	3.2	20.8	100	2000
JRB 9R-1		#18 22-36PCS	11Ø-15Ø	19	19	1.6	17.5	100	2000

## SNAP BUSHINGS (스냅부싱)

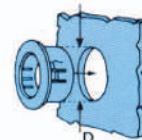
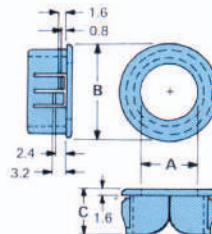
- Housing Material : Nylon 6.6 flame resistant and self-extinguishing according to UL 94V-2.
- Standard Color : Black.



Part Number	Mounting Hole Diameter D mm	Head Diameter B mm	Inside Diameter A mm	Overall Height C mm	Approved	
					Pcs/Bag	Pcs/Carton
JS312-3	8	9.6	5.2	8.3	1000	30000
JS375-4	9.5	12	6.4	10.3	1000	20000
JS0811	11.1	13.6	8.2	10.3	1000	20000
JS0813	13	15.1	9.8	10.3	1000	10000
JS1216	16	18.1	12.9	10.3	1000	10000

## OPEN / CLOSED BUSHINGS (오픈 부싱)

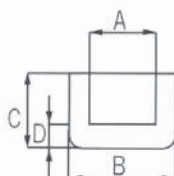
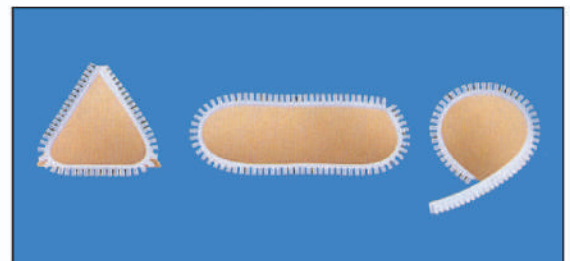
- Housing Material : Nylon 6.6 flame resistant and self-extinguishing according to UL 94V-2.
- Standard Color : Black.



Part Number	Mounting Hole Diameter D mm	Head Diameter B mm	Inside Diameter A mm	Overall Height C mm	Approved	
					Pcs/Bag	Pcs/Carton
JOS 0813C	12.5 - 13	14.6	9	10.1	1000	10000
JOS 1216C	15.5 - 16	17.8	12	10.5	1000	10000
JOS 1419C	18 - 19	21	14.4	11	1000	8000

## COVER BUSHING (카바부싱)

- Material : Nylon 6.6
- Color : Natural or Black
- Cut to fit any Hole Sizes for Protecting Cords, Wires, Cables Against Damage from Sharp Panel Edges.

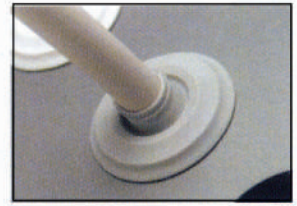
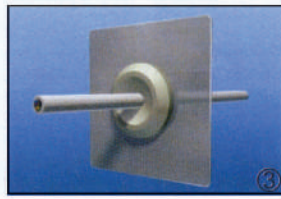
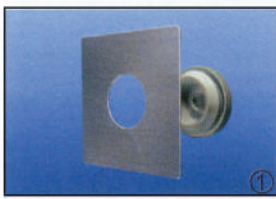
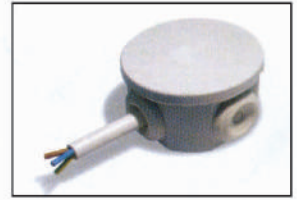
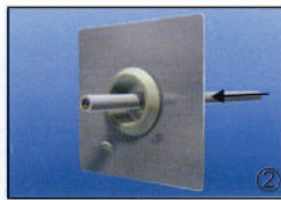


Part No.	Dimensions(mm)				
	A	B	C	D	L
JOB-012	1.3	3.5	4.0	1.2	250
JOB-016	1.7	3.7	4.0	1.2	250
JOB-024	2.4	4.4	4.0	1.2	250
JOB-032	3.3	5.3	4.0	1.2	250

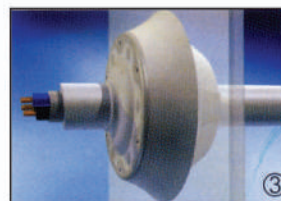
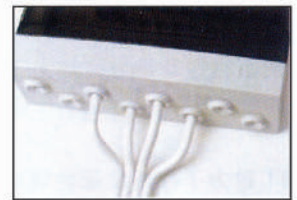
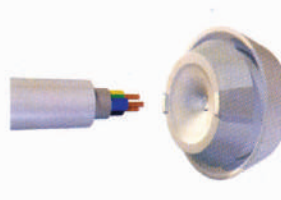


## The World innovative taper sealing technology

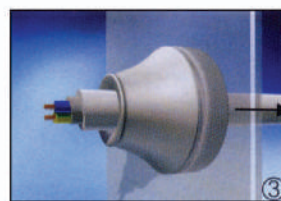
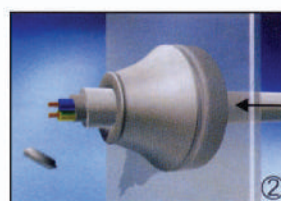
### TSS



### KLIKSEAL



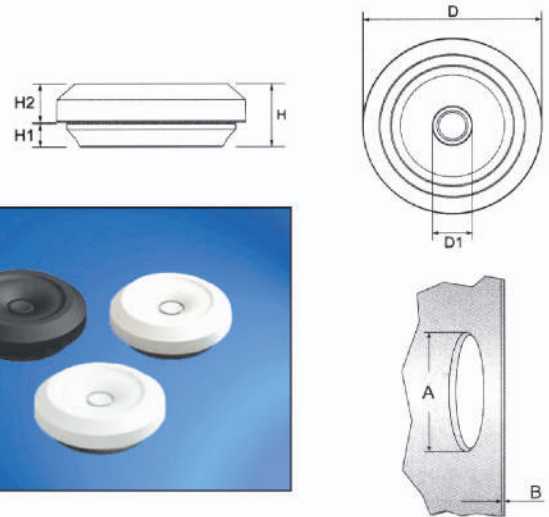
### RUTASEAL



## RUBBER GLAND SEAL TYPE-TSS (고무 글랜드 - TSS 타입)

### Specification

- MATERIAL : TPE-Thermoplastic Elastomer - UL approved material;  
Suitable for holes in materials of 0.5-4.5mm thickness;  
Quick and simple assembly without the use of tools;  
Handles exceptionally large span;  
An end-plug for all application
- MODE OF PROTECTION : IP67
- TEMP.RANGE : -50°C...+125°C
- TEST STANDARD : IEC 60529, IP67
- SEMKO REPORT : 708555,-1/2/3/4; Halogen-Free
- COLOUR : Black, Grey and White
- Flammability : UL 94HB



### PLEASE NOTE

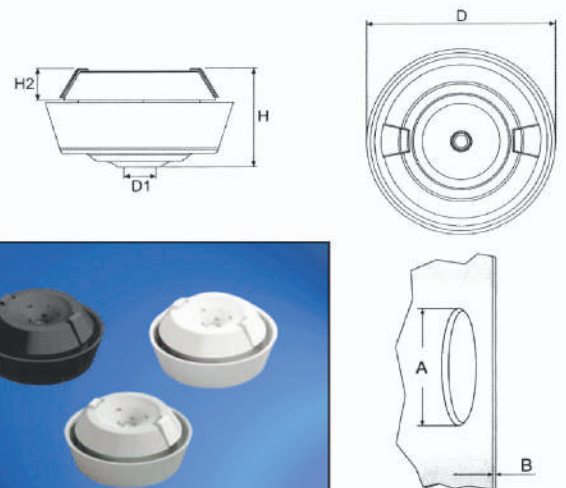
1. \*Varies depending on the thickness of material installed in.
2. Other colours are available upon request.

Part Number	Size	For Cable/Pipe (mm)	A mm	B mm	H mm	H1 mm	H2* mm	D* mm	D1 mm	PCS /Pack
JTSS-M16	M16	5-10	16.5	0.5-3	11	4	6.75	23.5	4	50
JTSS-M20	M20	6-13	20.5	0.5-3	11	4	6.75	27.5	5	50
JTSS-M25	M25	8-17	25.5	0.5-3.5	11	4	6.75	32.5	7	50
JTSS-M32	M32	12-24	32.5	0.5-4.5	11	4	6.75	39.5	11	25

## RUBBER GLAND SEAL TYPE-TKS (고무 글랜드 - TKS 타입)

### Specification

- MATERIAL : TPE and PA 66. UL approved material;  
Integrated cable anchorage, wide sealing range;  
Suitable for holes in materials of 1.5-5mm thickness;  
Quick and simple assembly without the use of tools.
- MODE OF PROTECTION : IP67
- TEMP.RANGE : -20°C...+125°C
- TEST STANDARD : EN60529:1991+A1;EN50262:1998  
EMKO-TUI(03-SEC)FI001/84;Halogen-Free
- SEMKO REPORT : 606620
- COLOUR : White, Black and Light Grey
- Flammability : UL 94HB



### PLEASE NOTE

1. \*Cable Anchorage Type A, according to EN50262.
2. \*\*8, 1-8,9mm only approved for tension relief.
3. \*\*\*Varies depending on the thickness of material installed in.
4. Other colours are available upon request.

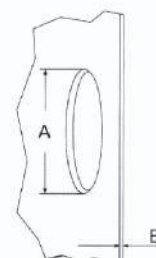
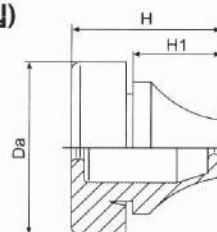
Part Number	Size	Cable/Pipe (mm)	Anchorage Type A* for Cable	A mm	B mm	B for IP67 mm	H mm	H2 mm	D1 mm	D** mm	PCS /Pack
JTKS-M20	M20	4-11	7-11	20.5	1.5-5	2-5	17-20	5.7	4.0	29.3-34.5	50
JTKS-M25	M25	4-14	7-13**	25.5	1.5-5	2-5	17-20	5.7	5.0	34.3-40.0	50



## RUBBER GLAND SEAL TYPE TRS-PG (고무 글랜드 - TRS-PG 타입)

### Specification

- MATERIAL : EPDM:resistant to chemicals and weather proof;  
Choroprene:resistant to chemicals, ageing and weather proof;  
Suitable for holes in materials of 0.5-4mm thickness;  
Quick and simple assembly without the use of tools.
- MODE OF PROTECTION : IP67 according to EN60529
- TEMP.RANGE : -40℃...+110℃ / -30℃...+100℃
- TEST STANDARD : SEMKO TUI(03-SEC) FI001/84  
EPDM:Halogen-Free
- SEMKO REPORT : 410375
- COLOUR : Black, Grey and Light Grey
- Flammability : UL 94HB



### PLEASE NOTE

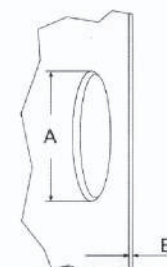
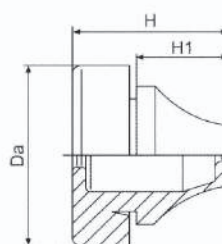
RUTASEAL Chloroprene PG series is only available in black colour; DNV:-8009.

Part Number	Size	For Cable/Pipe (mm)	A mm	B mm	Da mm	H mm	H1 mm	PCS /Pack
JTRS-PG7/12.5	PG7/12.5	3-5	13	0.5-2	20	12.6	5.4	50
JTRS-PG9/15.2	PG9/15.2	5-7	16	1-4	21	17.8	10.3	50
JTRS-PG11/18.6	PG11/18.6	7-10	19	1-4	24	19.8	12.7	50
JTRS-PG16/22.5	PG16/22.5	10-14	23	1-4	28	21.6	14.7	50
JTRS-PG21/28.3	PG21/28.3PG29	14-20	29	1-4	35	24.6	17.6	25
JTRS-PG29/37.0	/37.0	20-26	38	1-4	46	28.5	20.0	25
JTRS-PG36/47.0	PG36/47.0	26-35	48	1-4	58	34.9	23.9	10

## RUBBER GLAND SEAL TYPE TRS-METRIC (고무 글랜드 - TRS-METRIC 타입)

### Specification

- MATERIAL : EPDM:resistant to chemicals and weather proof;  
Choroprene:resistant to chemicals, ageing and weather proof;  
Suitable for holes in materials of 0.5-4mm thickness;  
Quick and simple assembly without the use of tools.
- MODE OF PROTECTION : IP67 according to EN60529
- TEMP.RANGE : -40℃...+110℃ / -30℃...+100℃
- TEST STANDARD : SEMKO 44:1984  
EPDM:Halogen-Free
- SEMKO REPORT : 0211038/01-07
- COLOUR : Black, Grey and Light Grey
- Flammability : UL 94HB



### PLEASE NOTE

1. RUTASEAL Chloroprene Metric is only available in black colour; DNV:-8009.
2. M16, M20, M25 in black, grey and light grey colours are available from RUTASEAL LIGHT EPDM series in Metric type.

Part Number	Size	For Cable/Pipe (mm)	A mm	B mm	Da mm	H mm	H1 mm	PCS /Pack
JTRS-M12	M12	4-7	12.5	0.5-2	20	12.8	5.6	50
JTRS-M16	M16	5-9	16.5	1-4	21	17.7	11.0	50
JTRS-M20	M20	8-13	20.5	1-4	25.5	20.0	13.4	50
JTRS-M25	M25	11-17	25.5	1-4	30.5	21.3	15.3	50
JTRS-M32	M32	15-20	32.5	1-4	38.5	24.6	18.6	25
JTRS-M40	M40	19-28	40.5	1-4	48.5	29.5	21.7	25
JTRS-M50	M50	27-35	50.5	1-4	60.5	34.8	25.0	10

F

