

# Grounding Products & Systems

## (접지자재와 시스템)

Ground Rod (접지봉)	G2
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Grounding Connectors, Swivel Tray Clamp (접지 컨넥터, 회전식 트레이 클램프)	G30
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Silicon Bronze Bolt, Nuts, Washer, Lockwasher (실리콘 동 볼트, 너트, 와샤, 로크와샤)	G32~G34
Silicon Bronze U-Bolts (실리콘 동 유볼트)	G35
Stainless Steel Bolt, Nuts, Washer, Lockwasher (스테인리스 스틸 볼트, 너트, 와샤, 로크와샤)	G36
Bi-Metallic Washers (바이메탈 와샤)	G36
Insulation Piercing Connector-Type Low, High Voltage (무탈피 컨넥터)	G37
Bare Copper wire (나동선)	G38

## GROUND ROD (접지봉)



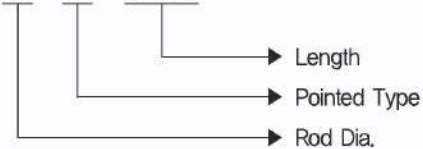
- Material : Copper Clad Steel
- Plating Thickness : 0.254mm
- Rod with Thread is able to when ordering by customer's need



Part Number	Dia.(mm)
JOG 12CP-XXXX	1/2" (12.7)
JOG 14CP-XXXX	5/8" (14.2)
JOG 16CP-XXXX	- (15.8)
JOG 18CP-XXXX	3/4" (17.2)
JOG 19CP-XXXX	- (19.2)
JOG 21CP-XXXX	1" (23.2)

### Part Number Explanation

**JOG - 14 - CP - XXXX**



- Rod's Length is able to provide 1000mm~6100mm by customer's need
- Rod with Lead wire is able to when ordering by customer's need

## TECHNICAL STRENGTH OF UL CERTIFIED GROUND ROD (UL 승인 접지봉 기술 자료)

- Copperbonded ground rods have a high resistance to corrosion and provide a low resistance path to ground.
- Copperbonded ground rods(0.254mm) have life expectancy about 35years.
- UL certified copperbonded ground rods have a great adhesion between steel
- The copper coating will not slip, tear or crack when driven.

### 1. BEND TEST

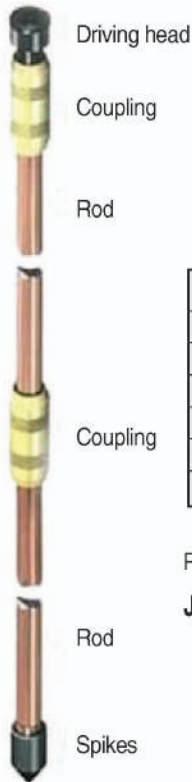
<p>No Slip, tear or Crack</p> <p>〈UL GROUNG ROD〉</p>	<p>Appeared cracks and creases</p> <p>〈NON-CERTIFIED GROUND ROD〉</p>
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### 2. PEELING TEST

<p>Great adhesion between Steel</p> <p>〈UL GROUNG ROD〉</p>	<p>Separated between rod and copper coating</p> <p>〈NON-CERTIFIED GROUND ROD〉</p>
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## SECTIONAL GROUND ROD (조립식 접지봉)

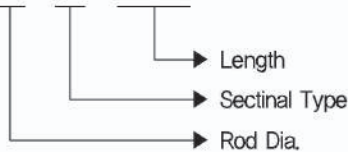
- Material : Copper Clad Steel
- Plating Thickness : 0.253mm



Part Number	Dia.(mm)
JOG 12CS-XXXX	1/2" (12.7)
JOG 14CS-XXXX	5/8" (14.2)
JOG 16CS-XXXX	- (15.8)
JOG 18CS-XXXX	3/4" (17.2)
JOG 19CS-XXXX	- (19.2)
JOG 21CS-XXXX	1" (23.2)

Part Number Explanation

**JOG - 14 - CS - XXXX**



## SECTIONAL GROUND ROD ACCESSORIES (조립식 접지봉 부품)

Coupling-Corrosion Resistant Copper Alloy  
Driving Head & Spike - High Strength Steel Alloy



Rod Dia.(mm)	Part Number		
	Coupling	Spikes	Driving Head
1/2" (12.7)	JRC-12	JRS-12	JDH-12
5/8" (14.2)	JRC-14	JRS-14	JDH-14
- (15.8)	JRC-16	JRS-16	JDH-16
3/4" (17.2)	JRC-18	JRS-18	JDH-18
- (19.2)	JRC-19	JRS-19	JDH-19
1" (23.2)	JRC-21	JRS-21	JDH-21

## WATERPROOF GROUND ROD (수막처리봉)

- Material : High Conductivity Copper
- For block the water into the ground conductors.
- Connection between conductor and rod with C-type clamp or Exothermic welding (JEONOWeld)



<TYPE-A>

Part Number	Dimensions
JWGR-240	Ø24X510mm
JWGR-241	Ø24X730mm



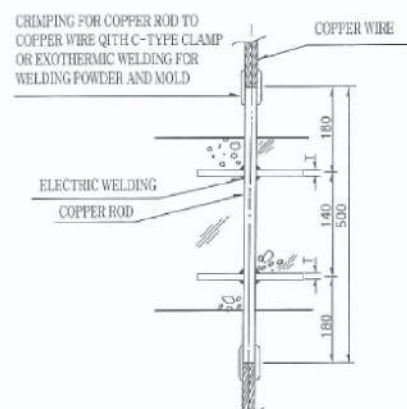
<TYPE-C>

Part Number	Dimensions
JWGR-140	Ø14XØ100X500mmX1.5T



<TYPE-B>

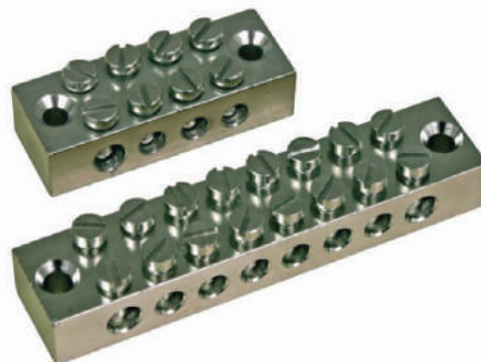
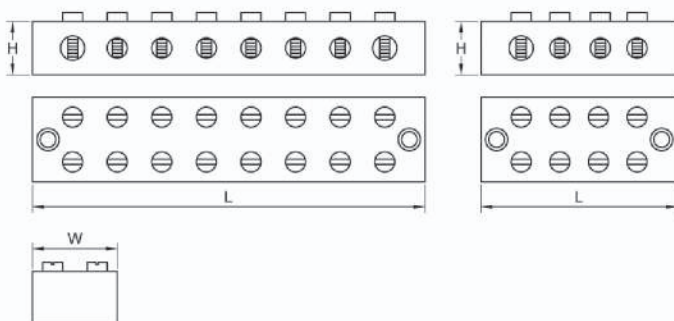
Part Number	Dimensions
JWGR-180	Ø18XØ75X500mmX1.5T
JWGR-181	Ø18XØ100X500mmX1.5T
JWGR-182	Ø18XØ150X500mmX1.5T



## EARTH TERMINAL BLOCK (접지 단자대)

Earth terminal blocks with large terminal holes for ease and speed of installation these are used to connect the incoming mains earth between the meter of the house and the consumer units.

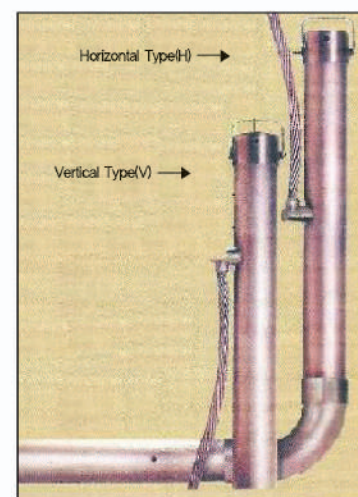
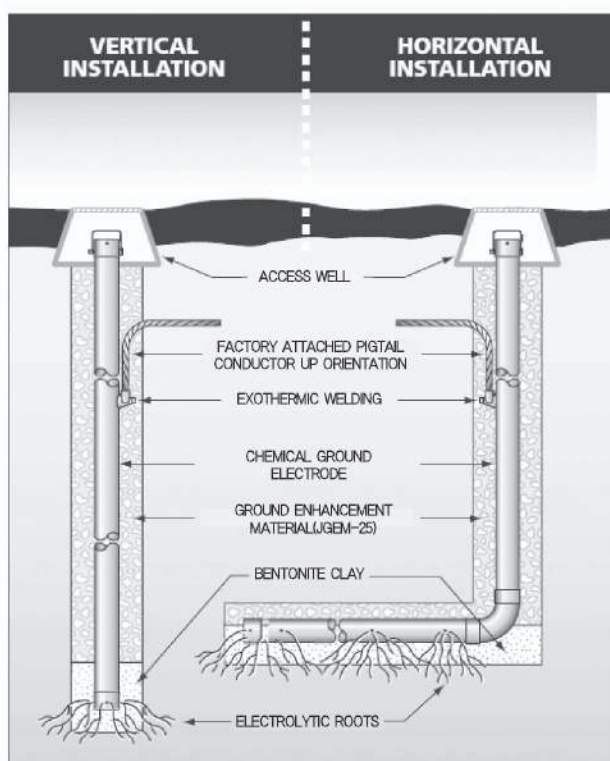
- Material : Brass
- Finish : Nickel plated
- Slot head screw : Nickel plated brass



Part Number	No. of hole	Cable entry hole dia. (mm)	Dimensions (mm)		
			L	W	H
JETB-4H	4	1×6,5mm 3×5,5mm	54	19	12
JETB-8H	8	2×6,5mm 6×5,5mm	88	19	12

## CHEMICAL GROUND ROD (전해질 접지봉)

Chemical ground electrodes provide a low impedance ground in locations of high soil resistivity. It maintains a low ground resistance, maintenance-free installation that dissipates lightning energy and other dangerous electrical fault currents, even in sandy or rocky soil conditions. The chemical ground electrode is useful for providing an effective earth in poor soil conditions where spacing for electrodes is limited.



Chemical Ground Electrode can be installed vertically or horizontally. Chemical electrodes available in a range of standard and custom configurations and are available individually or as part of a complete kit.

Part Number Explanation :

**JCGE50 - 1500 X**

→ Type \* V : Vertical  
→ Length \* H : Horizontal

Part Number	Dia.(mm)	Length(mm)
JCGE50-1500X	50	1500
JCGE54-1500X	54	1500
JCGE60-1500X	60	1500
JCGE60-2000X	60	2000
JCGE60-3000X	60	3000

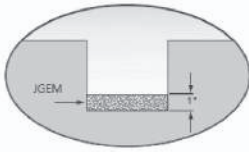
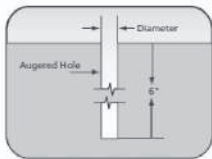
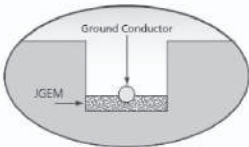
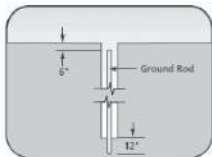
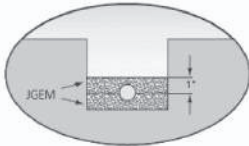
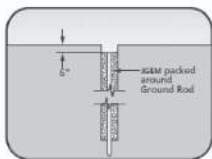
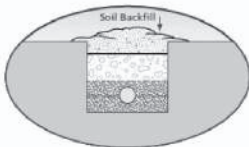
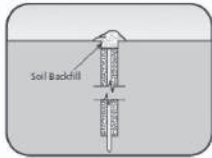
※ Other size(Dia, Length and Wire Size) and Horizontal type available

## GROUND ENHANCEMENT MATERIAL (접지 저감제) JGEM-25

Ground Enhancement Material was used as an earth-electrode backfill to reduce soil resistivity by retaining moisture. The clay consists largely of Ca-Bentonite. It has the ability to hold its moisture content for a considerable period of time and to absorb moisture from the surrounding soil. This product have high anti-erode that can be protect the earth-electrode and extend its using life mor much. And surrounding soil have no pollution in deed.



## JGEM INSTALLATION

TRENCH INSTALLATION	GROUND ROD BACKFILL INSTALLATION
<p>1. Dig a trench at least 4 inches wide x 30 inches deep or below the frost line, whichever is deeper. Spread out enough JGEM to uniformly cover bottom of trench-about 1 inch deep.</p> 	<p>1. Auger a 3 inch or larger diameter hole to a depth of 6 inches less than the length to the ground rod.</p> 
<p>2. Place conductor on top of JGEM.</p> 	<p>2. Place ground rod into augered hole and drive one foot into bottom of the hole. The top of the ground rod will be approximately 6 inches below grade.</p> 
<p>3. Spread mor JGEM on top of conductor to completely cover conductor about 1 inch deep.</p> 	<p>3. Pour the appropriate amount of JGEM around the ground rod. Th ensure the JGEM material completely fills the hole, tamp around the ground rod with a pole.</p> 
<p>4. Carefully cover the JGEM with soil to a depth of about 4 inches, making sure not to expose the conductor. Tamp down the soil, then fill in the trench.</p> 	<p>4. Fill remainder of augered hole with soil removed during augering.</p> 

## HOW TO SPECIFY JGEM (접지저감제의 장점)

- Ground enhancement material must be permanent and maintenance-free (no recharging with salts or chemicals which may be corrosive) and maintain its earth resistance with time.
- It must set up firmly and not dissolve or decompose or otherwise pollute the soil or the local water table.
- The ground enhancement material shall be suitable for installation in dry form, or in slurry form.
- The ground enhancement material shall not depend on the continuous presence of water to maintain its conductivity.

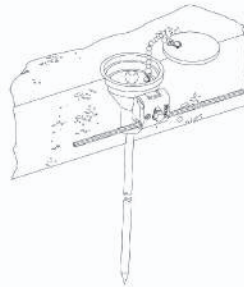
Part Number	kg/pkg	Description
JGEM-25	25	It is mixed with Ca-Bentonite, Flake graphite powder, Sodium carbonate, Coal powder&Carbon powder.

## STATIC GROUND RECEPTACLES (접지 리셉터클)



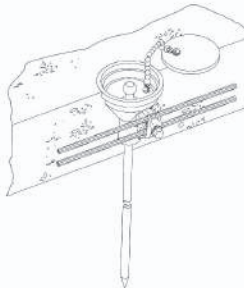
### LPM-632

Standard Design For Use Only With  
a Ground Rod.  
For 19mm Rod With Set  
Other Rod Size Request Available



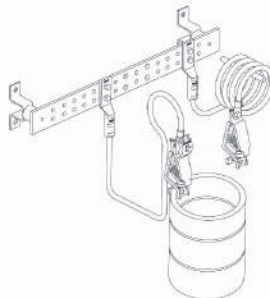
### LPM-632X

Same As LPM-632 Except A Clamp Attached  
To The Side To Engage Any Horizontal Cable  
For 19mm Rod With Set  
Cable Through Awg #2-2/0 (35mm<sup>2</sup>~70mm<sup>2</sup>)  
Other Rod Size Request Available



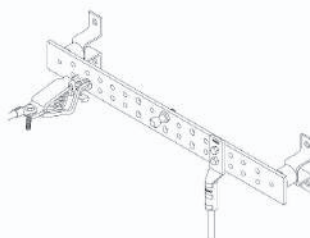
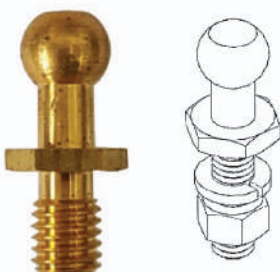
### LPM-632XX

Same As LPM-632X Except The Side Clamp Is  
For Floor Mesh Or Horizontal Cables Or Wires  
For 19mm Rod With Set  
Cable Through Awg #4 (25mm<sup>2</sup>)  
Other Rod Size Request Available



### LPM-632CG

A Heavy Duty, All Copper, Spring  
Tension Clamp For Connecting Static  
Ground Cable Lead To 632 Series Ground  
Receptacle Studs. Design Allows Full 360°  
Swivel To Help Prevent Clamp From Being  
Pulled Off Stud.



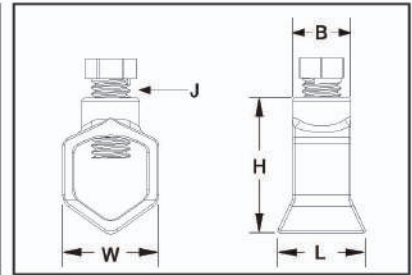
### LPM-632GS

Brass Ball Type ground Stud As Used  
With NO.632 Series Ground Receptacles. Also  
For Use On Bus Bars, Ground Plates,  
Etc. Ball Diameter Is 5/8".  
Threaded Stud Is 1/2"-13 X 3/4".  
Long. Overall Length Is 1- 3/4".

## HIGH STRENGTH GROUND ROD CLAMP (접지봉 클램프)

For Copper Cable to Rod

Cast copper alloy ground connector for joining a range of cable to copper clad, galvanized steel, and stainless steel ground rods. Slips over end of rod, one-wrench installation.

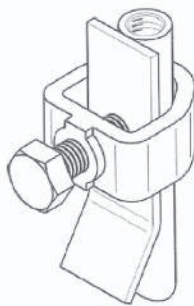
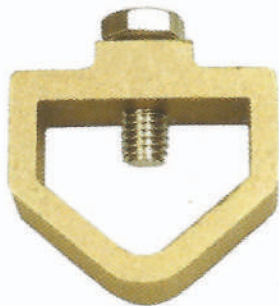


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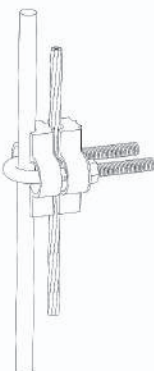
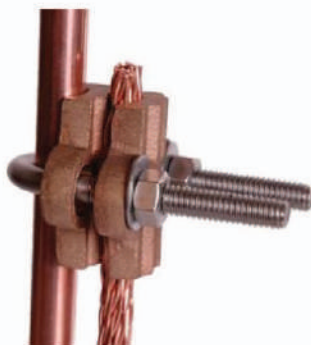
Part Number	Rod Size		Conductor Range				Dimension				
			Min.		Max.		H	W	L	B	J
JGRC12	1/2	12.7	10 Sol.	4	2 Str.	35	1.07	0.89	0.88	0.63	3/8
JGRC58	5/8	16			1 Str.	50	1.28	0.95	0.88	0.63	3/8
JGRC34	3/4	19	8 Sol.	6	1/0 Str.	60	1.54	1.09	1.03	0.65	3/8
JGRC34L	3/4	19	8 Sol.	6	4/0 Str.	100	1.70	1.09	1.03	0.65	3/8

For Copper Tape to Rod

Used for joining earth rods to copper tapes, these clamps are available to suit different sizes of earth rods and copper tapes.



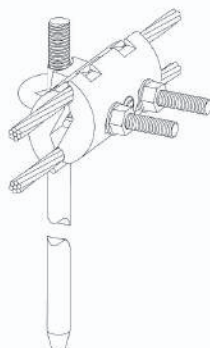
Part Number	Rod Size		Max. Tape Size(mm)
	in	mm	
JTRC-1226	1/2"	12.7	26×12
JTRC-5826	5/8"	16	26×12
JTRC-3426	3/4"	19	26×10
JTRC-3451	3/4"	19	51×12



### LPM-430B

430B-A U-Bolt Parallel Clamp  
Of Cast Bronze Used For a Parallel Connection From Either One Or Two Cables Or Rods Through 5/ 8" Diameter To Another Cable Or Rod. U-Bolt, Nuts, And Washers Are Stainless Steel

\* Special Order  
Cables or Rods Through 3/ 4" (19mm)



### LPM-28U

Cast Copper Alloy 2" all Purpose Silicon Bronze U Bolt Clamp Used in conjunction with ground rod clamps for connecting to counterpoise ground systems  
Cables through AWG #2~2/0 (35mm²~70mm²)  
Ground rod up to 5/8" Diameter  
When Ordering Item available Ground Rod up to 3/4" Diameter. (19mm)

## TEST WELL (테스트웰)

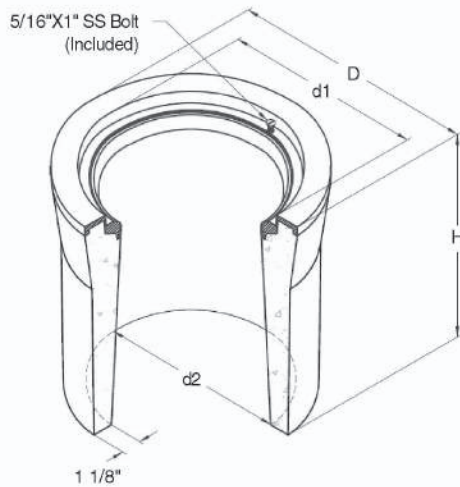
To facilitate testing of grounding systems we offer a wide variety of test wells. Most commonly used and readily available are those constructed of PVC or Concrete. These units combine superior corrosion and deterioration resistance qualities with light weight and ease of installation for the optimum in ground wells. These units are suitable for installation in areas of poured concrete, asphalt or normal earth. Covers are generally rated for vehicle and pedestrian traffic.

## CONCRETE TEST WELL (WITH CAST IRON COVER) (콘크리트 테스트웰)

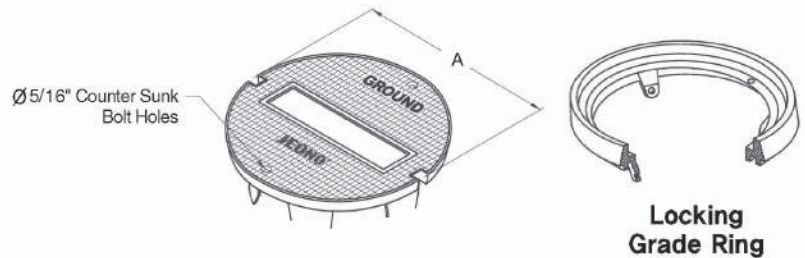
- Material : Body - Concrete  
Cover - Cast Iron
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



### Traffic Valve Box



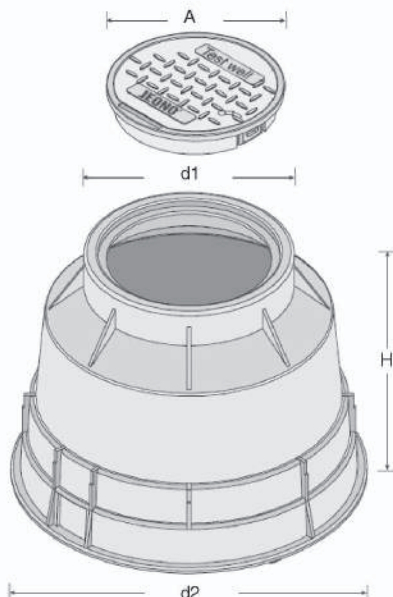
### Cast Iron Lid



Part Number	Dimensions(in.)				
	D	d1	d2	H	A
JTWC-1312	13-13/15"	11-3/8"	10-3/8"	12"	11-1/8"
JTWC-1336	13-13/15"	11-3/8"	10-3/8"	36"	11-1/8"

## PLASTIC TEST WELL (플라스틱 테스트웰)

- Material : PVC
- Color : Black
- 2 knock outs (mouse holes) allow for routing conductor to the inside.
- For use in non-vehicular traffic areas.



JTWC-1010



JTWC-1418

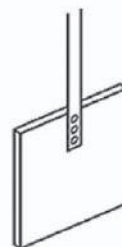
Part Number	Dimensions(in.)			
	d1	d2	H	A
JTWC-1418	14-1/2"	24-1/2"	18"	12-3/16"
JTWC-1010	10"	13"	10-1/4"	9-7/8"

## EARTH PLATE – SOLID COPPER (접지 판)

Earth plates are used where earth rods are unsuitable. Earth plates are manufactured from electrolytic grade solid copper sheet.



<Solid Copper Earth Plate>



<Copper Bonded Earth Plate>

### Sold Copper Earth Plate

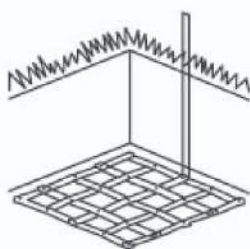
Part Number	Plate Size(mm)
JEP-5015	500x500x1.5
JEP-503	500x500x3
JEP-6015	600x600x1.5
JEP-603	600x600x3
JEP-9015	900x900x1.5
JEP-903	900x900x3
JEP-10015	1000x1000x1.5
JEP-1003	1000x1000x3

### Copper Bonded

Part Number	Plate Size(mm)
JEP-5015B	500x500x1.5
JEP-503B	500x500x3
JEP-6015B	600x600x1.5
JEP-603B	600x600x3
JEP-9015B	900x900x1.5
JEP-903B	900x900x3
JEP-10015B	1000x1000x1.5
JEP-1003B	1000x1000x3

## EARTH LATTICE (격자형 접지판)

Earth lattice is made from copper tape of various combination. They are often used for potential grading and are a preferred option on installations such as telecommunication towers, where touch and step potential could cause problems.



Part Number	Plate Size (mm)	Copper Tape Size (mm)	No. of strips
JEL-502	500x500	25x2	10
JEL-503	500x500	25x3	10
JEL-602	600x600	25x2	10
JEL-603	600x600	25x3	10
JEL-902	900x900	25x2	10
JEL-903	900x900	25x3	10
JEL-1002	1000x1000	25x2	12
JEL-1003	1000x1000	25x3	12

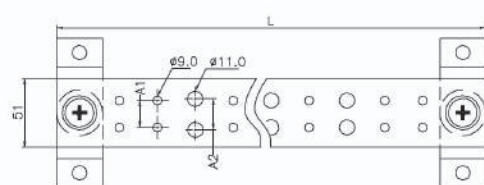
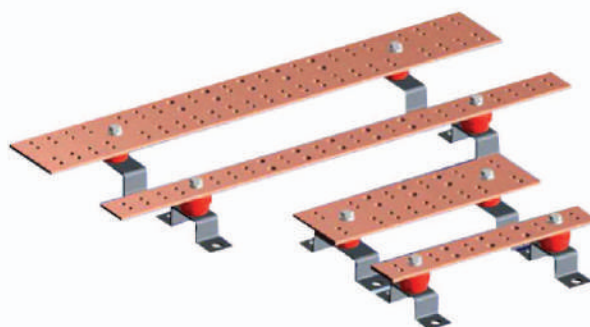
※ Other size (Lattice, Copper tape, No. of strip) is available by customer needs.

## TELECOMMUNICATIONS GROUNDING BUSBARS TYPE-TGB, TMGB (통신 접지 부스바)

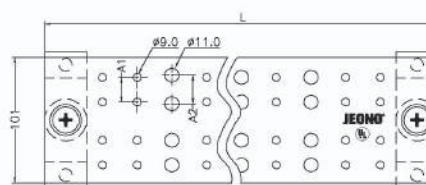


With the increasing demand for computer network installations, proper telecommunications grounding and bonding is critical to ensure proper systems operation. The sensitivity of the electronic equipment requires that the telecommunications cabling and power be effectively equalized to prevent loops or transients that can damage the equipment. This requires designing a complete grounding and bonding system.

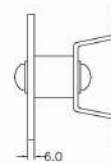
Telecommunications Grounding Busbar provides a central ground attachment point for telecommunications bonding backbones, equipment and the building's ground electrode system. Hole patterns on Busbars accommodate two-hole lugs per the recommendation of BICSI and ANSI/EIA/TIA-607 standards. Insulators electrically isolate Busbars from the wall or other mounting surfaces, thereby controlling the current path



TGB TYPE



TMGB TYPE

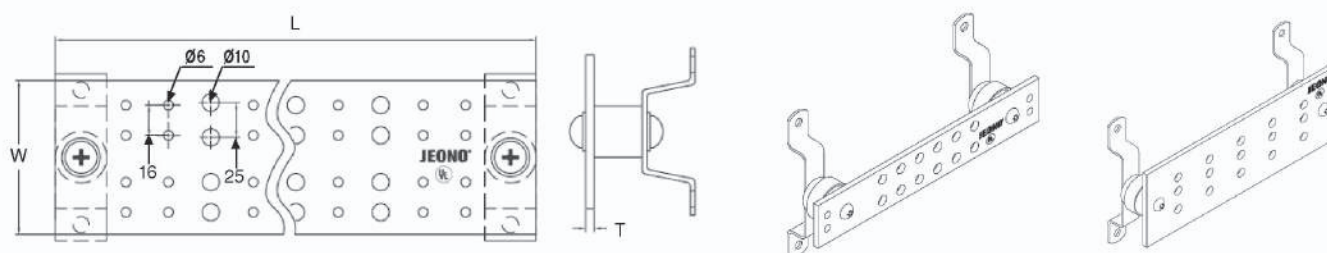


Type	Part Number	Length (L) mm	Hole Spacing (mm)		No. of Mounting Positions	
			A1	A2	ø9.0	ø11.0
TGB	JGBB-5061	260	16	25	4	3
	JGBB-5062	316	16	25	6	3
	JGBB-5063	510	16	25	12	3
TMGB	JGBB-10061	316	16	25	12	6
	JGBB-10062	510	16	25	24	6

## EQUIPMENT GROUND BARS TYPE-GBB (접지 부스바)



Proper bonding is essential to create an equipotential plane between service grounds and equipment during fault and transient conditions. This equipotential plane provides a near zero voltage differential and serves to protect people and equipment during these events. The most popular bonding product in use today is the ground bar or bonding bar. Ground bars provide a convenient, single-point grounding and bonding location. These ground bars have high conductivity.

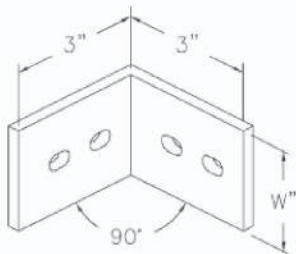


Part Number	Dimension(in.)			Part Number	Dimension(in.)			Part Number	Dimension(in.)		
	W	L	T		W	L	T		W	L	T
JGBB-0163	1	63	1/4	JGBB-0320	3	20	1/4	JGBB-0518	5	18	1/4
JGBB-0170	1	70		JGBB-0322		22		JGBB-0520		20	
JGBB-0202	2	2	3/8	JGBB-0324		24		JGBB-0522		22	
JGBB-0203		3		JGBB-0406	4	6	1/4	JGBB-0524		24	
JGBB-0206		6	1/4	JGBB-0408		8		JGBB-0606	6	6	
JGBB-0208		8		JGBB-0410		10		JGBB-0608		8	
JGBB-0210		10		JGBB-0412		12		JGBB-0610		10	
JGBB-0212		12		JGBB-0414		14		JGBB-0612		12	
JGBB-0214		14		JGBB-0416		16		JGBB-0614		14	
JGBB-0216		16		JGBB-0418		18		JGBB-0616		16	
JGBB-0218		18		JGBB-0420		20		JGBB-0618		18	
JGBB-0219	1.5	19	13/64	JGBB-0422		22		JGBB-0620		20	
JGBB-0220	2	20	1/4	JGBB-0424		24		JGBB-0622		22	
JGBB-0222		22		JGBB-0428		28		JGBB-0624		24	
JGBB-0224		24		JGBB-0432		32		JGBB-0628		28	
JGBB-0228		28		JGBB-0440		40		JGBB-0632		32	
JGBB-0306	3	6		JGBB-0472		72		JGBB-0640		40	
JGBB-0308		8		JGBB-0506	5	6		JGBB-0672		72	
JGBB-0310		10		JGBB-0508		8		JGBB-0840	8	40	
JGBB-0312		12		JGBB-0510		10		JGBB-0872		72	
JGBB-0314		14		JGBB-0512		12		JGBB-1240	12	40	
JGBB-0316		16		JGBB-0514		14		JGBB-1272		72	
JGBB-0318		18		JGBB-0516		16					

※ The hole patterns can be changed by customer's request.

## ELBOWS & SPLICERS (부스바 부품)

The hole patterns and Busbar sizes can be changed by customer's request.



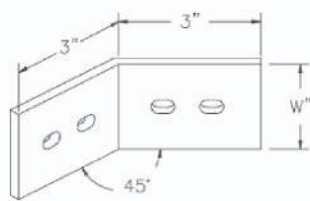
90° Elbows

Part Number	Dimensions(in.)	
	Width	Thickness
JBBE-901	1	1/4
JBBE-9015	1-1/2	
JBBE-902	2	



90° Elbows

Part Number	Dimensions(in.)	
	Width	Thickness
JBBE-9035	3X5	1/4



45° Elbows

Part Number	Dimensions(in.)	
	Width	Thickness
JBBE-451	1	1/4
JBBE-4515	1-1/2	
JBBE-452	2	

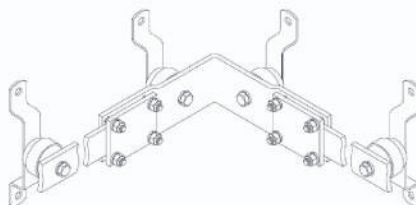
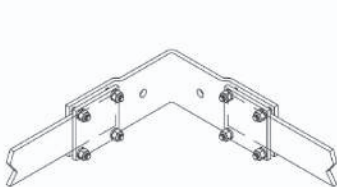


Splice Plate

Part Number	Dimensions(in.)	
	Width	Thickness
JBBE-141	1	1/4
JBBE-1415	1-1/2	
JBBE-142	2	

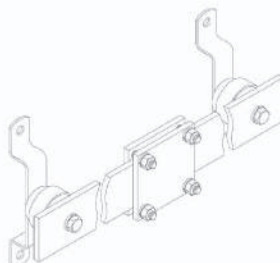
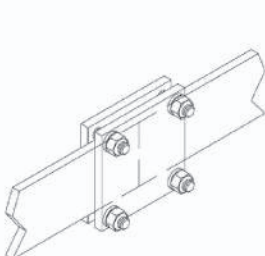
## "SANDWICH" STYLE ELBOW & SPLICERS

The hole patterns and Busbar sizes can be changed by customer's request.



90° Sandwich Splice

Part Number	Dimensions(in.)		
	Width	Thickness	interior or exterior bend
JSSE-901in	1	1/4	interior
JSSE-901ex	1		exterior
JSSE-9015in	1-1/2		interior
JSSE-9015ex	1-1/2		exterior
JSSE-902in	2		interior
JSSE-902ex	2		exterior



Sandwich Splice

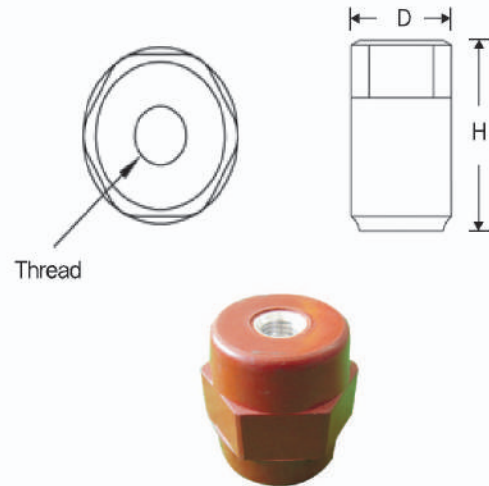
Part Number	Dimensions(in.)	
	Width	Thickness
JBBE-141	1	1/4
JBBE-1415	1-1/2	
JBBE-142	2	

## STANDOFF INSULATORS (부스바용 애자)

600 Volt standoff insulator for isolated mounting of ground bars

- Material : Epoxy Resin

Part Number	Thread Size	Dimension(mm)	
		D	H
JSO-2625	M6	25	25
JSO-2531	M8	25	31
JSO-2740	M68	27	40
JSO-2740A	M8	27	40
JSO-3530	M10	35	30
JSO-3035	M8	30	35
JSO-4040	M10	40	40
JSO-4060	M10	40	60

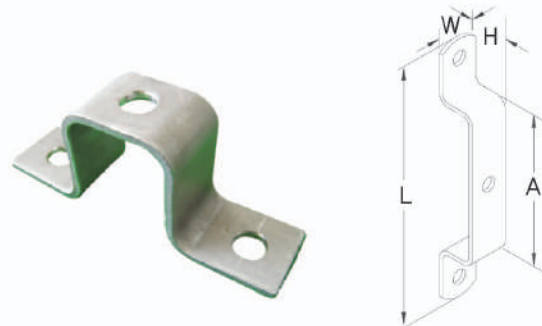


## MOUNTING BRACKETS – WALL MOUNT (브라켓)

A stainless steel mounting bracket for securing ground bars to walls.

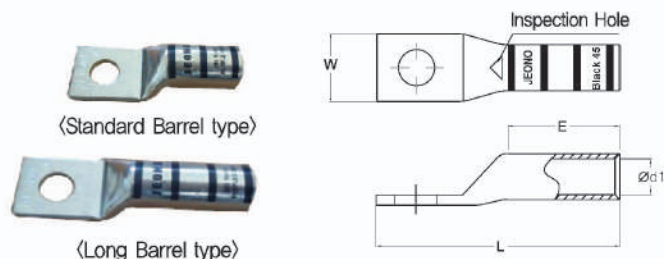
- Material : SUS 304
- Other sizes available

Part Number	Dimensions(mm)				Mounting Hole Size
	W	L	H	A	
JMB-3838	25	98	38	38	3/8
JMB-25100		170	25	100	7/16
JMB-25100S			25	100	5/8
JMB-50100			50	100	7/16
JMB-75100			75	100	7/16
JMB-100100			100	100	7/16



## TUBULAR CABLE LUGS, ONE-HOLE, FOR GROUND BUSBAR (부스바용 동관단자) TYPE-BO

- Material : Electrolytic Copper (TPC)
- Surface : Tin Plated
- With Inspection Hole
- Color Coded to Show Proper Die Number and Color 10mm~100mm
- UL Listed 486A-486B up to 35KV



Part No Explanation : JOBO 0101-S X 04 → Stud Size(mm, UNC)

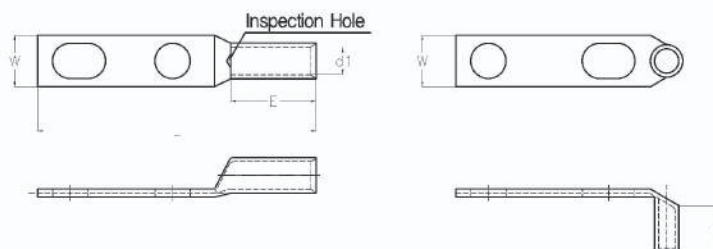
Barrel Form \*S : Standard Barrel Type  
\*L : Long Barrel Type



Part Number	Wire Range				Stud Size	Dimension (mm)						Color Code & Die No
	CODE		FLEX			W	d1	E		L		
	AWG	mm²	AWG	mm²				*S	*L	*S	*L	
JOBO 0101-SX06	8	10	8	10	M6	10	4.5	15	19	33	37	Red 21, JOCD-8
JOBO 0102-SX06	6	16	6	16	M6	12	5.4	17	25	36	43	Blue 24, JOCD-6
JOBO 0102-SX10					M10	15.5				42	49	
JOBO 0103-SX06	4	25	—	—	M6	13	6.7	18	25	41	48	Gray 29, JOCD-4
JOBO 0103-SX10					M10	15.5				45	52	
JOBO 0104-SX06	2	35	4	25	M6	16	8.1	21	30	48	56	Brown 33, JOCD-2
JOBO 0104-SX08					M8							
JOBO 0104-SX10					M10							
JOBO 0105-SX10	1	50	2	35	M10	18	9.5	21	35	52	65	Green 37, JOCD-1
JOBO 0106-SX10	1/0	60	1	50	M10	19	10.2	23	36	56	69	Pink 42, JOCD-1/0
JOBO 0107-SX10	2/0	70	1	50	M10	22	11.3	23.5	36	56	68.5	Black 45, JOCD-2/0
JOBO 0108-SX12	3/0	95	2/0	70	M12	25	13.5	26	38.5	66	79.5	Orange 48, JOCD-3/0
JOBO 0109-SX12	4/0	100	2/0	70	M12	26	14	29	43	69.5	82	Orange 48, JOCD-4/0

## SPECIALIZED TUBULAR CABLE LUGS, FOR GROUND BUSBAR TYPE-BB

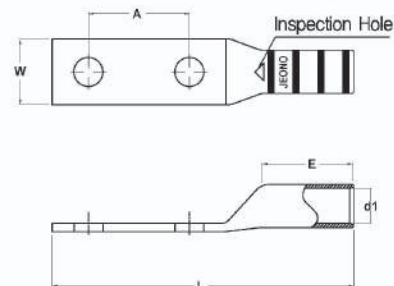
- Material : Electrolytic Copper (TPC)
- Surface : Tin Plated
- With Inspection Hole
- UL Listed 486A-486B up to 35KV



Part Number	Wire Range				Stud Size	Dimension (mm)					Color Code & Die No
	CODE		FLEX			W	d1	E	Hole Spacing Range	Bend Angle	
	AWG	mm²	AWG	mm²							
JOBO 2020-SL06	6	16	6	16	M6	12	5.4	30	12~16	—	Gray 29, JOCD-4
JOBO 2020-SL06B										90°	

## TUBULAR CABLE LUGS, TWO-HOLE, FOR GROUND BUSBAR (부스바용 동관단자) TYPE-BT

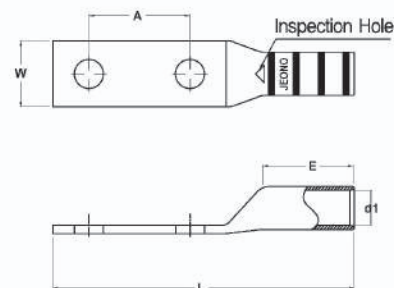
- Material : Electrolytic Copper (TPC)
- Surface : Tin Plated
- With Inspection Hole
- Color Coded to Show Proper Die Number and Color 10mm~400mm
- UL Listed 486A-486B up to 35KV



Part Number	Wire Range				Stud Size	Dimension (mm)					Color Code & Die No
	CODE		FLEX			W	d1	A	E	L	
	AWG	mm²	AWG	mm²							
JOBT 0201–SL05	8	10	8	10	M5	10	4.5	16	19	56	Red 21, JOCD–8
JOBT 0201–SL06					M6					56	
JOBT 0202–SL06	6	16	6	16	M6	12	5.4	16	25	62	Blue 24, JOCD–6
JOBT 0202–SL10S					M10					77	
JOBT 0202–SL10					M10					83	
JOBT 0203–SL06S	4	25	–	–	M6	14	6.7	16	25	62	Gray 29, JOCD–4
JOBT 0203–SL06					M6					65	
JOBT 0203–SL10					M10					84	
JOBT 0204–SL06	2	35	4	25	M6	16	8.1	16	29.5	69	Brown 33, JOCD–2
JOBT 0204–SL10S					M8					82	
JOBT 0204–SL10					M10					88	
JOBT 0205–SL10	1	50	2	35	M10	18	9.5	25	35	93	Green 37, JOCD–1
JOBT 0205–SL12					M12					113	
JOBT 0206–SL10	1/0	60	1	50	M10	19	10.2	25	36	97	Pink 42, JOCD–1/0
JOBT 0206–SL12					M12					116.5	
JOBT 0207–SL10	2/0	70	1	50	M10	21.5	11.3	25	36	100	Black 45, JOCD–2/0
JOBT 0207–SL12					M12					119	
JOBT 0208–SL10	3/0	95	2/0	70	M10	25	13.5	25	38.5	104	Orange 48, JOCD–3/0
JOBT 0208–SL12					M12					124	
JOBT 0209–SL10	4/0	100	2/0	70	M10	26	14	25	41	110	Orange 50, JOCD–4/0
JOBT 0209–SL12					M12					130	
JOBT 0210–SL10	250 kcmil	120	3/0	95	M10	27.5	15.2	25	41.5	110	Purple 54, JOCD–250 kcmil
JOBT 0210–SL12					M12					130	

## TUBULAR CABLE LUGS, TWO-HOLE, FOR GROUND BUSBAR (부스바용 동관단자) TYPE-BT

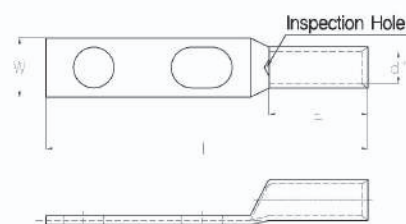
- Material : Electrolytic Copper (TPC)
- Surface : Tin Plated
- With Inspection Hole
- Color Coded to Show Proper Die Number and Color 10mm~400mm
- UL Listed 486A-486B up to 35KV



Part Number	Wire Range				Stud Size	Dimension (mm)					Color Code & Die No
	CODE		FLEX			W	d1	A	E	L	
	AWG	mm²	AWG	mm²							
JOBT 0211–SL10	300 kcmil	150	250 kcmil	120	M10	31	17	25	56	127	Yellow 62, JOCD–300 kcmil
JOBT 0211–SL12					M12			44,5		146	
JOBT 0212–SL10	350 kcmil	185	300 kcmil	150	M10	35	19	25	56	131	Red 71, JOCD–350 kcmil
JOBT 0212–SL12					M12			44,5		150	
JOBT 0213–SL10	400 kcmil	200	350 kcmil	185	M10	37.5	21	25	59	138	Blue 76, JOCD–400 kcmil
JOBT 0213–SL12					M12			44,5		157	
JOBT 0214–SL10	500 kcmil	240	400 kcmil	200	M10	40	22	25	63	146	Brown 87, JOCD–500 kcmil
JOBT 0214–SL12					M12			44,5		165	
JOBT 0215–SL10	600 kcmil	300	500 kcmil	240	M10	45	24	25	66	151	Green 94, JOCD–600 kcmil
JOBT 0215–SL12					M12			44,5		170	
JOBT 0216–SL10	750 kcmil	400	600 kcmil	300	M10	50	27	25	72,5	156	Black 106, JOCD–750 kcmil
JOBT 0216–SL12					M12			44,5		175	

## SPECIALIZED TUBULAR CABLE LUGS, FOR GROUND BUSBAR TYPE-BS

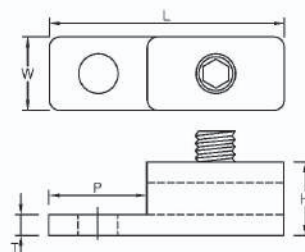
- Material : Electrolytic Copper (TPC)
- Surface : Tin Plated
- With Inspection Hole
- UL Listed 486A-486B up to 35KV



Part Number	Wire Range				Stud Size	Dimension (mm)				Color Code & Die No
	CODE		FLEX			W	d1	E	Hole Spacing Range	
	AWG	mm²	AWG	mm²						
JOBS 0202-SL10	6	16	6	16	M10	15.5	5.4	30	19~25	Blue 24, JOCD-6
JOBS 0204-SL10S	2(sol.)	35	4	25		16	8.1	33		Gray 29, JOCD-4
JOBS 0204-SL10	2	35	4	25		16	8.1	33		Brown 33, JOCD-2

## MECHANICAL CONNECTOR, CAST COPPER (동주물 볼트단자) STRAIGHT TONGUE LUG – ONE HOLE

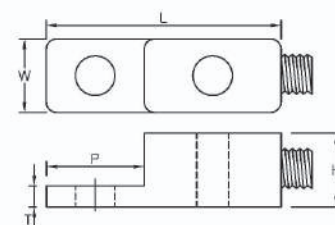
- Material : Cast Copper Alloy
- Flat Bottom Allows for Complete Contact with Mounting Surface
- For Copper Cables



Part Number	Copper Conductor Size Range		Stud Size (mm)	Hex Key Size (mm)	Dimensions(mm)				
	AWG	mm <sup>2</sup>			L	W	H	T	P
JMCO-25	#14 SOL-#4 STR	2.5~25	M6	M6	32	13	14	3.5	17
JMCO-70	#8 SOL-#2/0 STR	10~70	M8	M12	42	22	20	3.5	22
JMCO-120	#6 SOL-250kcmil	16~120	M10	M14	50	24	27	5.5	25
JMCO-240	#4 SOL-500kcmil	25~240	M12	M20	78	35	37	7.0	41

## STRAIGHT TONGUE, 90° LUG – ONE HOLE

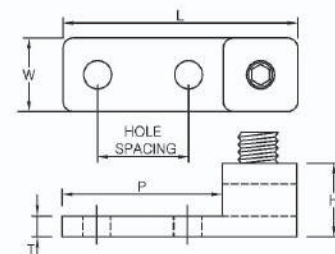
- Material : Cast Copper Alloy
- Flat Bottom Allows for Complete Contact with Mounting Surface
- For Copper Cables
- Provides Connection of Conductor at Right Angles to Terminal Bar



Part Number	Copper Conductor Size Range		Stud Size (mm)	Hex Key Size (mm)	Dimensions(mm)				
	AWG	mm <sup>2</sup>			L	W	H	T	P
JMCA-25	#8 SOL-#4 STR	10~25	M6	M6	46	14	19	5.0	16
JMCA-50	#4 SOL-#1 STR	25~50	M8	M8	38	19	19	6.0	18
JMCA-70	#1 STR-#2/0 STR	50~70	M10	M12	60	21	25	6.0	22
JMCA-100	#2/0 STR-#4/0 STR	70~100	M10	M12	68	25	29	6.5	25

## STRAIGHT TONGUE – TWO HOLE(TYPE-S)

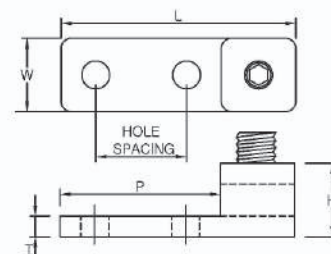
- Material : Cast Copper Alloy
- Flat Bottom Allows for Complete Contact with Mounting Surface
- For Copper Cables



Part Number	Copper Conductor Size Range		Stud Size (mm)	Hex Key Size (mm)	Stud Hole Spacing (mm)	Dimensions(mm)				
	AWG	mm <sup>2</sup>				L	W	H	T	P
JMCT-25S	#8 SOL - #4 STR	10~25	M6	M6	16	50	14	17	4.5	31
JMCT-50S	#4 SOL - #1 STR	25~50	M6	M8	19	62	19	23	5.5	38
JMCT-70S	#1 STR - 2/0 STR	50~70	M8	M12	25	73	20	27	5.5	47
JMCT-100S	2/0 STR - 4/0 STR	70~100	M10	M12	25	76	25	33	6.3	44
JMCT-150S	4/0 STR - 300 kcmil	100~150	M10	M16	25	79	27	36	7.8	50
JMCT-240S	300 kcmil - 500 kcmil	150~240	M10	M20	25	87	35	42	8.6	50

## MECHANICAL CONNECTOR, CAST COPPER (동주물 볼트단자) STRAIGHT TONGUE LUG – TWO HOLE (TYPE-L1)

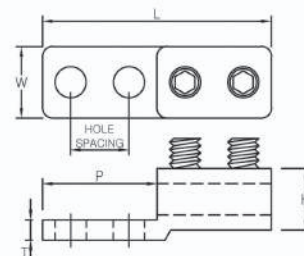
- Material : Cast Copper Alloy
- Flat Bottom Allows for Complete Contact with Mounting Surface
- For Copper Cables



Part Number	Copper Conductor Size Range		Stud Size (mm)	Hex Key Size (mm)	Stud Hole Spacing (mm)	Dimensions(mm)				
	AWG	mm <sup>2</sup>				L	W	H	T	P
JMCT-50L1	#4 SOL-#1 STR	25~50	M12	M8	44.45	100	25	20	6.0	76
JMCT-70L1	#1 SOL-#2/0 STR	50~70	M12	M12	44.45	108	25	25	6.0	76
JMCT-120L1	2/0 STR-250kcmil	70~120	M12	M14	44.45	108	32	35	6.5	76
JMCT-150L1	250kcmil-300kcmil	120~150	M12	M16	44.45	108	32	37	8.0	76
JMCT-240L1	300kcmil-500kcmil	150~240	M12	M20	44.45	118	38	42	10.0	76

## STRAIGHT TONGUE, TANDEM SET SCREW LUG – TWO HOLE (TYPE-L2)

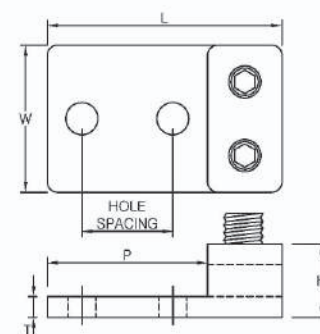
- Material : Cast Copper Alloy
- Flat Bottom Allows for Complete Contact with Mounting Surface
- For Copper Cables



Part Number	Copper Conductor Size Range		Stud Size (mm)	Hex Key Size (mm)	Stud Hole Spacing (mm)	Dimensions(mm)				
	AWG	mm <sup>2</sup>				L	W	H	T	P
JMCT-50L2	#4 SOL-#1 STR	25~50	M12	M8	44.45	130	25	20	6.0	76
JMCT-70L2	#1 SOL-#2/0 STR	50~70	M12	M12	44.45	124	32	25	6.0	76
JMCT-120L2	2/0 STR-250kcmil	70~120	M12	M14	44.45	143	38	35	6.5	76
JMCT-150L2	250kcmil-300kcmil	120~150	M12	M16	44.45	149	38	37	8.0	76
JMCT-240L2	300kcmil-500kcmil	150~240	M12	M20	44.45	160	48	48	10.0	76

## STRAIGHT TONGUE, TWO-BARREL LUG – TWO HOLE

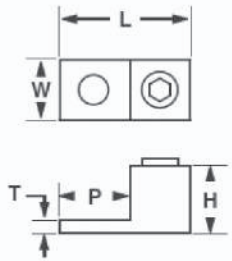
- Material : Cast Copper Alloy
- Flat Bottom Allows for Complete Contact with Mounting Surface
- For Copper Cables



Part Number	Copper Conductor Size Range		Stud Size (mm)	Hex Key Size (mm)	Stud Hole Spacing (mm)	Dimensions(mm)				
	AWG	mm <sup>2</sup>				L	W	H	T	P
JMCB-25	#8 SOL-#4 STR	10~25	M12	M6	44.45	95	32	19	5.0	76
JMCB-50	#4 SOL-#1 STR	25~50	M12	M8	44.45	100	35	23	6.0	76
JMCB-70	#1 SOL-#2/0 STR	50~70	M12	M12	44.45	101	41	27	6.0	76
JMCB-100	2/0 STR-#4/0 STR	70~100	M12	M12	44.45	106	48	34	6.5	76
JMCB-150	4/0 STR-300kcmil	100~150	M12	M16	44.45	111	50	37	8.0	76

## ALUMINIUM SCREW LUGS, ONE-HOLE, SINGLE BARREL (알루미늄 볼트단자) TYPE-ASO

- Material : High strength aluminium alloy
- Surface : Tin plated (Provide low contact resistance)
- Wide wire range-taking capability minimizes inventory requirements
- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector



Part Number	Wire Range		Stud Size	Dimension (mm)				
	AWG	mm²		L	W	H	T	P
JASO-16	#14~#6	2.5~16	1/4	26.5	12.7	12.3	1.9	17.0
JASO-35	#14~#2	2.5~35		29.3	12.7	14.2	2.7	17.4
JASO-60	#14~1/0	2.5~60		37.3	15.8	19.8	4.7	21.4
JASO-70	#6~2/0	16~70		37.3	15.8	19.8	4.7	21.4
JASO-120	#6~250kcmil	16~120	5/16	50.8	25.4	28.5	6.3	25.4
JASO-150	#6~300kcmil	16~150		50.8	25.4	28.5	6.3	25.4
JASO-185	#6~350kcmil	16~185	3/8	57.1	28.5	31.7	6.3	28.5
JASO-240	#4~500kcmil	25~240		71.4	38.1	39.6	7.9	40.4
JASO-300	#2~600kcmil	35~300		80.9	38.1	39.6	11.1	46.0
JASO-400	300kcmil~800kcmil	150~400	1/2	85.7	44.4	49.2	12.7	44.4
JASO-500	500kcmil~1000kcmil	240~500		85.7	44.4	49.2	1.27	44.4

## ALUMINIUM SCREW LUG, TWO-HOLE, SINGLE BARREL (알루미늄 볼트단자) TYPE-AST

- Material : High strength aluminium alloy
- Surface : Tin plated (Provide low contact resistance)
- Wide wire range-taking capability minimizes inventory requirements

- Inspection window to visually assure full conductor insertion
- Plated steel or aluminum set screw provides high strength, durable electrical contact between conductor and connector

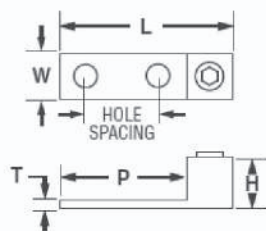


Figure 1

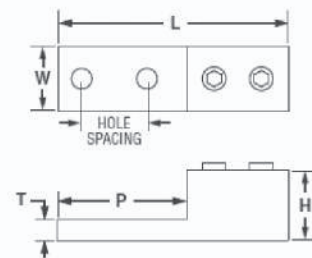


Figure 2

Part Number	Wire Range		Stud Size	Figure	Dimension (mm)					
	AWG	mm²			L	W	H	T	P	Hole Spacing
JAST-185S	#6~350kcmil	16~185	1/2	1	109.5	28.5	34.9	7.9	76.2	44.5
JAST-300S	#2~600kcmil	35~300			119.0	38.1	34.9	11.1	84.1	
JAST-400S	300kcmil~800kcmil	150~400			120.6	44.4	49.2	12.7	79.3	
JAST-500S	500kcmil~1000kcmil	240~500			120.6	44.4	49.2	12.7	79.3	
JAST-300	#2~600kcmil	35~300		2	139.7	34.9	38.1	9.5	82.5	
JAST-400	300kcmil~800kcmil	150~400			157.1	44.4	47.6	14.2	87.3	
JAST-500	500kcmil~1000kcmil	240~500			157.1	41.2	49.2	14.2	87.3	

## C - TAP GROUNDING CONNECTORS

(C탭 접지 슬리브)

- Material : High Conductivity Copper
- Surface : Copper Finish



Part Number	Standard Copper Cable Range				DIMENSION. In.(mm)		Installation Tooling		No. of Crimps
	AWG		mm <sup>2</sup>				Tool	Die.	
	Run	Tap	Run	Tap	H	L			
JGHC-4C4	#6 Sol. #2 Str.	#6 Sol. #2 Str.	10 – 35	10 – 35	1.16 (30)	0.75 (19)	JCT – 940CH	JGCD-4-C	1
JGHC-07C4	1 Str. 2/0 Str.	#6 Sol. #2 Str.	35 – 70	10 – 35	1.41 (36)	0.75 (19)		JGCD-4-U	1
JGHC-07C07	1 Str. 2/0 Str.	1 Str. 2/0 Str.	35 – 70	35 – 70	1.54 (39)	0.75 (19)		JGCD-4-U	1
JGHC-10C07	3/0 Str. 250 Kcmil	#6 Sol. 2/0 Str.	95 – 120	10 – 70	1.97 (50)	0.75 (19)		JGCD-7-U	1
JGHC-10C10	3/0 Str. 250 Kcmil	3/0 Str. 250 Kcmil	95 – 120	95 – 120	2.06 (52)	0.88 (22)		JGCD-7-U	1
JGHC-14C07	300 Kcmil 500 Kcmil	#6 Sol. 2/0 Str.	150 – 240	10 – 70	2.42 (62)	0.88 (22)		JGCD-14-P	2
JGHC-14C10	300 Kcmil 500 Kcmil	3/0 Str. 250 Kcmil	150 – 240	95 – 120	2.67 (68)	0.88 (22)		JGCD-14-P	2
JGHC-14C14	300 Kcmil 500 Kcmil	300 Kcmil 500 Kcmil	150 – 240	150 – 240	2.91 (74)	1.1 (28)		JGCD-14-P	3

\*For Crimping Tool Information See Page C17, C18

## GROUND SLEEVES (접지 슬리브)

- Material : High Conductivity Copper
- Surface : Copper Finish

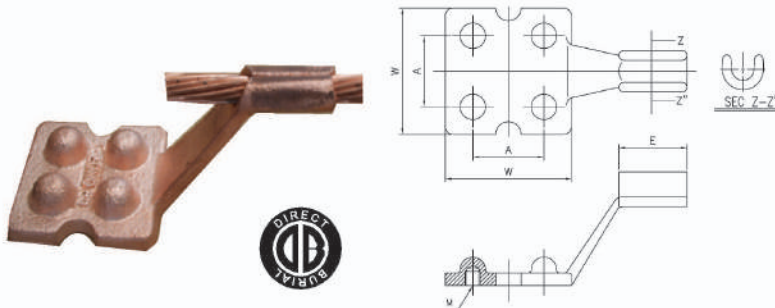


Part Number	COPPER CONDUCTOR SIZE				DIMENSION (mm)		Dies No.	No. of Crimps
	AWG		mm <sup>2</sup>		H	L		
	RUN	TAP	RUN	TAP				
SGW-22	4	4	22(25)	22(25)	20	30	SGWD-22	1
SGW-44	2	4~2	38(35)	38~22(35~25)	24	30	SGWD-44	
SGW-62	2/0	4	60(70)	22(25)	27	30	SGWD-62	
SGW-66	2/0	2/0~2	60(70)	60~38(70~35)	30	30	SGWD-1002	
SGW-1002	4/0	4	100(95)	22(25)	30	40	SGWD-1002	
SGW-1006	4/0	2/0~2	100(95)	60~38(70~35)	34	40	SGWD-1006	
SGW-1010	4/0	4/0	100(95)	100(95)	38	40	SGWD-1010	
SGW-1212	250Kcmil	250Kcmil	120	120	47	55	SGWD-2010	
SGW-1506	300Kcmil	2/0~2	150	60~38(70~35)	47	55	SGWD-2010	
SGW-2004	400Kcmil	2	200(185)	38(35)	47	55	SGWD-2010	
SGW-2010	400Kcmil	4/0~2/0	200(240)	100~60(38)	46	60	SGWD-2010	
SGW-2507	500Kcmil	2/0~2	240	70~35	46	60	SGWD-2010	
SGW-1515	300Kcmil	300Kcmil~4/0	150(240)	150~95(95~70)	60	55	SGWD-2525	
SGW-2020	400Kcmil	400Kcmil~300Kcmil	200(185)	200~150	60	60	SGWD-2525	
SGW-2515	500Kcmil	300Kcmil~4/0	240	150~95	60	60	SGWD-2525	
SGW-2525	500Kcmil	500Kcmil~300Kcmil	240	240~150	62	65	SGWD-2525	
SGW-3030	600Kcmil	600Kcmil~500Kcmil	300	300~240	65	65	SGWD-3030	

\*For Crimping Tool Information See Page C17, C18

## GROUNDING FLUSH PLATE (접지 패드) TYPE-GP

- Material : High Conductivity Copper
- Surface : Copper Finish

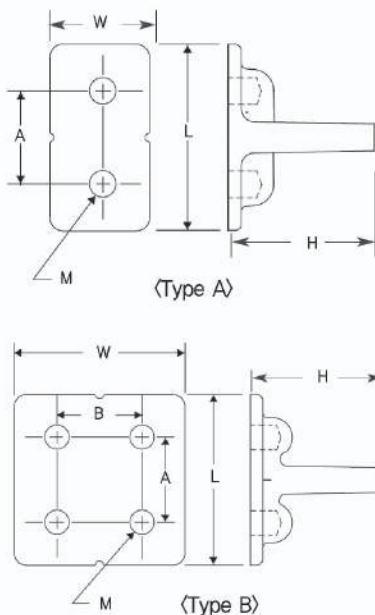


Part Number	COPPER CONDUCTOR SIZE		DIMENSION (mm)				Dies No.
	AWG	mm <sup>2</sup>	W	A	E	M	
JGP-60	1/0	60	60	25	30	3/8"	JGPD-70
JGP-70	2/0	70					
JGP-100	3/0~4/0	95 100	84	45	32	1/2"	JGPD-100
JGP-120	250Kcmil	120					
JGP-150	300Kcmil	150	96		50		JGPD-120
JGP-200	350~400Kcmil	185 200					JGPD-150
JGP-240	500Kcmil	240					JGPD-200
JGP-300	600Kcmil	300					JGPD-240
			100	56		JGPD-300	

\*For Crimping Tool Information See Page C17, C18

## EQUIPMENT GROUND PLATE (설비용 접지 패드)

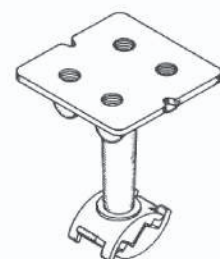
Equipment ground plates are cast into concrete structures to offer convenient connection points to the ground system. The cast ground plates are made from cast copper alloy and are easily exothermically welded to copper conductors. The resulting connection has an ampacity that surpasses that of the conductor or the stud.



Part Number	Stud Size	Type	Dimension(in.)						No. of TAP Holes
			W	L	A	B	H	M	
JEGP-1002	4/0	A	1.75	3.25	1.75	-	3	1/2"	2
JEGP-2402	500kcmil								
JEGP-1004S	4/0	B	2.50	2.25	1.00	1.25	3	3/8"	4
JEGP-2404S	500kcmil								
JEGP-1004L	4/0		3.25	3.25	1.75	1.75	3	1/2"	
JEGP-2404L	500kcmil								

## CLAMP TYPE GROUND PLATE (클램프 형식 접지 패드)

- Cast copper alloy
- Dimension similar to Equipment ground plate, JEGP-Series.
- Cable connection under bolt tension by LPM-8C.

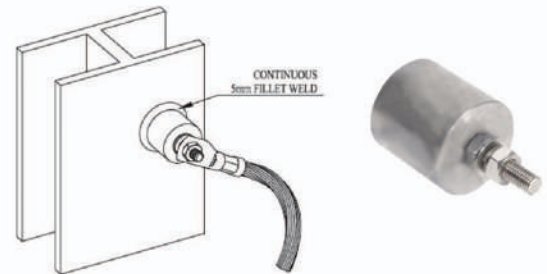


G

## EARTH BOSS (접지 보스)

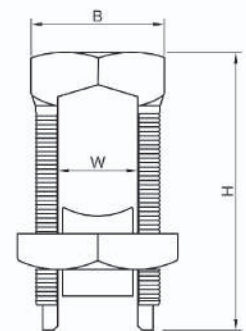
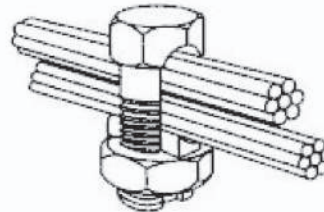
- Used to provide an earth connection point on a steel structure.
- The earth boss is welded onto steel vessels, tanks and other structures.
- Materials : High tensile mild steel
- Finish : Zinc plated

Part Number	Length (mm)	Dia. (mm)	Thread Dia.(mm)
JEB-5012	50	50	1/2



## SPLIT BOLT CONNECTORS (분기 컨넥터) TYPE-JSB

- For copper to copper connections
- Bolt and Nut made of copper which provides
- high strength and corrosion resistance
- Suitable for wide conductor range from #8 to 500kcmil
- Easy intallation, no need of extra tool



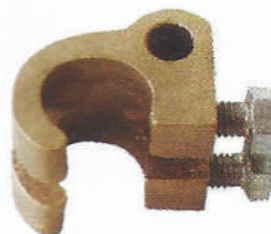
Part Number	Conductor Range AWG(mm <sup>2</sup> )	Dimension(mm)			Recommended Torque In.Lb.
	Range for Equal Main and Tap	H	W	B	
JSB 02	6(16) Sol. ~ 8(10) Sol.	27	6	12	165
JSB 03	4(25) Sol. ~ 8(10) Sol.	27	7	16	165
JSB 04	2(35) Sol. ~ 6(16) Sol.	35	8	18	275
JSB 07	2/0(70) str. ~ 4(25) Sol.	42	12	24	385
JSB 09	4/0(100) str. ~ 2(35) Sol.	46	12.5	25	500
JSB 10	250(120) kcmil ~ 1(50) Str.	53	14.5	26	650
JSB 12	350(185) kcmil ~ 1/0(60) Str.	60	17	30	650
JSB 14	500(240) kcmil ~ 2/0(70) Str.	63	20	32	825

## REBAR CLAMP (철근 클램프)

Specially designed to bond reinforcing bars and also ground rod clamps, water pipe clamps and direct burial clamping applications.

- Materials : Cast copper alloy

Part Number	Conductor Dia. (mm)	Rebar Dia. (mm)
JRCB-818	8	8 ~ 18
JRCB-838	8	8 ~ 38



## GROUND CONNECTOR (접지 컨넥터)

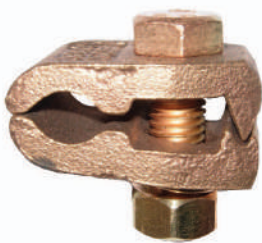
### For Copper Cable to Bar

High copper alloy ground connector for joining a range of cable to 1/4" thick bar.\* Type JGB separates cable from bar, JGBM clamps cable directly on bar surface. One-wrench installation. The high copper alloy cast body and SILICON BRONZE bolts, nuts, and lockwashers make the JGB and JGBM suitable for direct burial in concrete or ground.

Part Number		Copper Conductor size		Dimension (in.)		
Type JGB	Type JGBM	AWG	mm <sup>2</sup>	H	J	W
JGB-26	JGBM-26	#4 Sol. - 2/0 Str.	25~70	1-1/2	3/8	1-1/2
JGB-29	JGBM-29	2/0 Sol. - 250Kcmil	70~120	2	1/2	2
JGB-34	JGBM-34	300Kcmil~500Kcmil	150~250	2-1/4		2-3/8



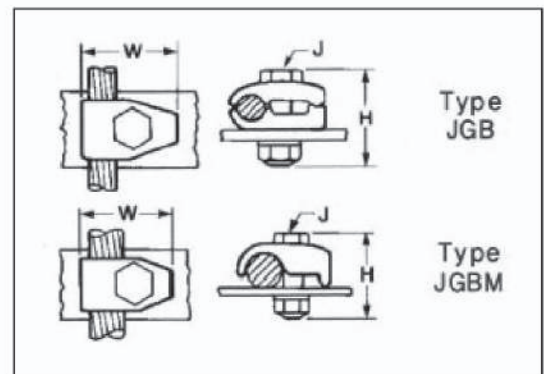
#### • TYPE - JGB



#### • TYPE - JGBM



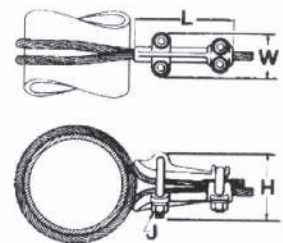
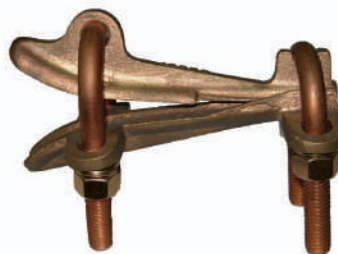
※ Bolt and Nut to be ordered separately.



## GROUND CONNECTOR (접지 컨넥터)

### For Copper Cable to Tube

High copper alloy ground connector for cross connecting a wide range of cable. High copper alloy, cast body, SILICON BRONZE U-bolts, nuts, and lockwashers make the JGQ suitable for burial in soil or concrete. One-wrench installation.



(In.)

Part Number	Conductor		Dimension			
	Tube I.P.S	Cable	H	J	L	W
JGQ-26-26	6" Max.	4 Str.-2/0 Str.	4-1/2	1/2	5	2-1/2
JGQ-26-1	Above 6"		7-1/8			
JGQ-29-29	6" Max.	2/0 Str.-250	4-1/8		6	2-3/4
JGQ-29-1	Above 6"		7-1/2			

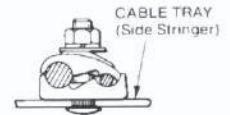
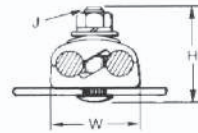
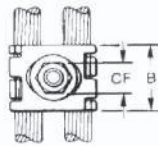
## GROUND CONNECTOR (접지 컨넥터) LPM-219



Cast Copper Alloy Metal Connector  
Cables through AWG #2~2/0 (35mm<sup>2</sup>~70mm<sup>2</sup>)

## CABLETRAY GROUND CLAMP (케이블트레이 접지 클램프)

This unique connector incorporates features which are unmatched. Made of tin-plated cast copper alloy, it accommodates either one or two conductors, copper or aluminum cable. In addition to a low profile head with a deep Phillips recess, the galvanized steel bolt has a ribbed neck which prevents rotation during installation when installed in a .44 diameter hole.



(In.)

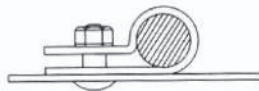
Part Number	ACCOMMODATES COPPER OR ALUMINUM CONDUCTOR IN EITHER GROOVE	Dimension				
		B	CF	H	J	W
JGC-2506CT	#6 Sol.(.162 Dia.) – 1/0 Str.(.372 Dia.)	1.12	.56	1.95	3/8"– 16	1.45
JGC-2607CT	#2 Sol.(.258 Dia.) – 2/0 Str.(.419 Dia.)	1.12	.56	1.95	3/8"– 16	1.70
JGC-2910CT	2/0 Str.(.414 Dia.) – 250 kcmil (.575 Dia.)	1.12	.56	2.20	3/8"– 16	1.98

### NOTE :

The bolt head is mounted on the inside wall of cabletray to avoid damage to the cable insulation.  
May be used with aluminum or galvanized steel cable tray.

## GROUND CLAMP (접지 클램프)

- Material : Electrolytic Copper
- Basic Hole Size : 5/16"



Part Number	Conductor	
	AWG	mm <sup>2</sup>
JGC-16	6	16
JGC-25	4	25
JGC-35	2	35
JGC-60	1/0	60
JGC-70	2/0	70
JGC-100	4/0	95
JGC-120	250Kcmil	120
JGC-150	300Kcmil	150
JGC-185	350Kcmil	185
JGC-240	500Kcmil	240
JGC-300	600Kcmil	300

## PARALLEL CLAMP (평행 클램프) TYPE-VP

For Copper

High strength, high copper alloy Type CP is recommended for heavy duty parallel connections. Silicone bronze hardware and cast copper body provides corrosion resistant assembly. Long contact surface provides excellent contact and assures full conductivity.



Fig. 1

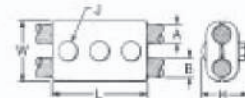


Fig. 2

Part Number	Groove		Fig. No.	Dimension (In.)		
	A	B		J	L	W
JVP-2C04	2 Str.	2 Str.	1	2-1/2	3/8	1-1/4
JVP-2506	1/0 Str.	1/0 Str.	1	3	3/8	1-5/8
JVP-2607	2/0 Str.	2/0 Str.	1	3	3/8	1-5/8
JVP-2809	4/0 Str.	4/0 Str.	2	4	3/8	1-5/8
JVP-2910	250	250	2	4	3/8	2
JVP-3414	500	400MCM	2	5	3/8	2
JVP-3430	1/0 Str.	400MCM	2	5	3/8	2-1/2

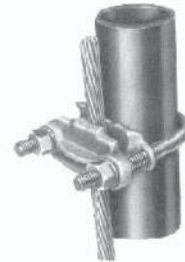
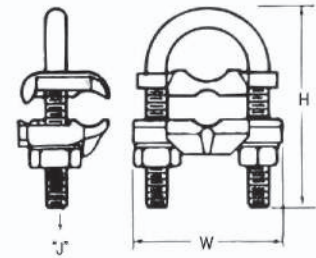
## FENCE POST GROUNDING CONNECTOR (펜스용 접지 컨넥터)

For Parallel 90°  
Copper Cable  
Connection

To Rod or Pipe with  
the Same Connector

High copper alloy ground connector for joining a range of cable, parallel or at right angles to rod or tube. Especially good for fence posts. High copper alloy cast body with SILICON BRONZE U-bolts, nuts, and lockwashers permit entire connection to be buried in ground or concrete without danger of corrosion.

- One-wrench installation.



(In.)

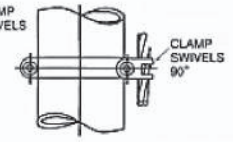
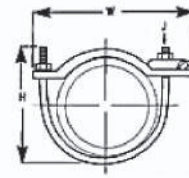
Part Number	Conductor				Dimension		
	Tube I.P.S.	Rod Size or O.D. Range	Cable		H	J	W
			AWG	mm <sup>2</sup>			
JGAR-1103	1/4	1/2	8 Sol.-4 Str.	10~25	2-1/2	3/8	1-7/8
JGAR-1107			4 Sol.-2/0 Str.	25~70			
JGAR-1110			2/0 Sol.-250	70~120			
JGAR-6403	3/8	5/8-3/4	8 Sol.-4 Str.	10~25	2-7/8		2-1/8
JGAR-6407			4 Sol.-2/0 Str.	25~70			
JGAR-6410			2/0 Sol.-250	70~120			
JGAR-6414	1/2-3/4	7/8-1	300-500	150~250	3-1/2	1/2	2-1/2
JGAR-1403			8 Sol.-4 Str.	10~25	2-3/4	3/8	2-3/8
JGAR-1407			4 Sol.-2/0 Str.	25~70	3		
JGAR-1410			2/0 Sol.-250	70~120			
JGAR-1414			300-500	150~250	3-3/4	1/2	2-3/4
JGAR-1503	1	1-1/8-1-1/4	8 Sol.-4 Str.	10~25	2-7/8	3/8	2-5/8
JGAR-1507			4 Sol.-2/0 Str.	25~70			
JGAR-1510			2/0 Sol.-250	70~120	3-3/8	1/2	
JGAR-1514			300-500	150~250	4-1/2		
JGAR-1603	1-1/4	1-3/8-1-1/2	8 Sol.-4 Str.	10~25	3-1/2	3/8	3
JGAR-1607			4 Sol.-2/0 Str.	25~70			
JGAR-1610			2/0 Sol.-250	70~120	4-1/4	1/2	3-3/8
JGAR-1614			300-500	150~250			
JGAR-1703	1-1/2	1-5/8-1-7/8	8 Sol.-4 Str.	10~25	4	3/8	3-1/4
JGAR-1707			4 Sol.-2/0 Str.	25~70			
JGAR-1710			2/0 Sol.-250	70~120	4-5/8	1/2	2-5/8
JGAR-1714			300-500	150~250			
JGAR-1803	2	2-2-3/8	8 Sol.-4 Str.	10~25	4-1/4	3/8	3-3/4
JGAR-1807			4 Sol.-2/0 Str.	25~70			
JGAR-1810			2/0 Sol.-250	70~120	4-1/2	1/2	4-1/8
JGAR-1814			300-500	150~250			
JGAR-1903	2-1/2	2-1/2-7/8	8 Sol.-4 Str.	10~25	5	3/8	4-1/4
JGAR-1907			4 Sol.-2/0 Str.	25~70			
JGAR-1910			2/0 Sol.-250	70~120	5-5/8	1/2	4-5/8
JGAR-1914			300-500	150~250			
JGAR-2003	3	3-3-1/2	8 Sol.-4 Str.	10~25	5-5/8	3/8	4-3/4
JGAR-2007			4 Sol.-2/0 Str.	25~70			
JGAR-2010			2/0 Sol.-250	70~120	6-3/8	1/2	5-1/4
JGAR-2014	3-1/2	3-1/2-4	300-500	150~250			
JGAR-2103			8 Sol.-4 Str.	10~25	6-1/4	3/8	5-3/8
JGAR-2107			4 Sol.-2/0 Str.	25~70			
JGAR-2110			2/0 Sol.-250	70~120	6-3/4	1/2	5-3/4
JGAR-2114			300-500	150~250			
JGAR-2203	4	4-4-1/2	8 Sol.-4 Str.	10~25	6-3/8	3/8	5-7/8
JGAR-2207			4 Sol.-2/0 Str.	25~70			
JGAR-2210			2/0 Sol.-250	70~120	6-7/8	1/2	6-1/4
JGAR-2214			300-500	150~250			
JGAR-2403	5	-	8 Sol.-4 Str.	10~25	7-3/4	3/8	6-7/8
JGAR-2407			4 Sol.-2/0 Str.	25~70		1/2	7-1/4
JGAR-2410			2/0 Sol.-250	70~120			
JGAR-2414			300-500	150~250	8-5/8		
JGAR-8610	6	-	2/0 Sol.-250	70~120	8-13/16	1/2	8-3/8

## GROUND CONNECTORS (접지 컨넥터) TYPES-JGAR-BU SERIES



### Features and Benefits

- Cable clamp swivels at 90°
- Permits parallel grounding of one pipe or a 90° cable run for grounding several parallel pipes.
- One-wrench installation.
- Simplified installation.
- Material
- Body : Copper Alloy



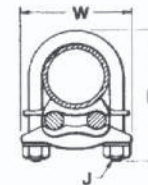
### \* JGAR-BU Type is listed UL 467

(In.)

Part Number		Cable Range	IPS Size	O.D. Range	H	J	W	Recommended Tightening Torque
Silicon Bronze U-Bolt	Steel U-Bolt							
JGAR-3902-BU	JGAR-3902	#4-4/0 AWG	1/2"-1"	0.840-1.32	3.50	3/8" - 16	3.25	240 in. - lbs.
JGAR-3903-BU	JGAR-3903		1-1/4"-2"	1.66-2.38	4.00		4.25	
JGAR-3904-BU	JGAR-3904		2-1/2"-3-1/2"	2.88-4.00	6.50		6.0	
JGAR-3905-BU	JGAR-3905		4"-5"	4.50-5.56	7.50		1.50	
JGAR-3906-BU	JGAR-3906		6"	6.62	8.50		8.62	
JGAR-3907-BU	JGAR-3907		8"	8.62	10		10.62	
JGAR-3908-BU	JGAR-3908		10"	10.75	12		12.75	
JGAR-3909-BU	JGAR-3909		12"	12.75	14		14.75	

## CABLE TO ROD/TUBE GROUND CONNECTOR (접지 컨넥터) TYPE-JGD

High copper alloy ground connector for joining a range of two parallel cables to rod or pipe. Especially good for grounding fence posts. High copper alloy cast body with SILICON BRONZE U-bolts, nuts, and lockwashers make the JGD suitable for burial in ground or concrete. One-wrench installation.



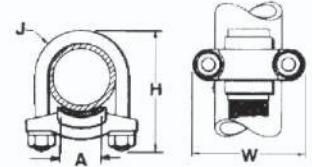
(In.)

Part Number	Conductor				H	J	W	
	Tube I.P.S.	Rod Size or O.D. Range	Cable					
			AWG	mm <sup>2</sup>				
JGD1506	1	1-1/8 – 1-1/4	4 Sol.-2/0 Str.	25~70	3-3/8	3-3/8	2-5/8	
JGD1510			2/0 sol.-250	70~120				
JGD1606	1-1/4	1-3/8-1-1/2	4 Sol.-2/0 Str.	25~70	3-1/2		3-3/8	3
JGD1610			2/0 sol.-250	70~120				
JGD1703C	1-1/2	1-5/8-1-7/8	8 Sol.-4 Str.	10~25	4	3-3/8		3-1/4
JGD1706			4 Sol.-2/0 Str.	25~70				
JGD1710			2/0 sol.-250	70~120				
JGD1714			300-500	150~250			4-5/8	
JGD1803C	2	2-2-3/8	8 Sol.-4 Str.	10~25	4-3/8	3/8	3-3/4	
JGD1806			4 Sol.-2/0 Str.	25~70				
JGD1810			2/0 sol.-250	70~120				
JGD1814			300-500	150~250				5-3/8
JGD1903C	2-1/2	2-1/2-2-7/8	8 Sol.-4 Str.	10~25	5	3/8	4-1/4	
JGD1906			4 Sol.-2/0 Str.	25~70				
JGD1910			2/0 sol.-250	70~120				
JGD1914			300-500	150~250				1/2
JGD2003C	3	3-3-1/2	8 Sol.-4 Str.	10~25	5-5/8	3/8	4-7/8	
JGD2006			4 Sol.-2/0 Str.	25~70				
JGD2010			2/0 sol.-250	70~120				
JGD2014			300-500	150~250				6-3/8
JGD2103C	3-1/2	3-1/2-4	8 Sol.-4 Str.	10~25	6-1/4	3/8	5-3/8	
JGD2106			4 Sol.-2/0 Str.	25~70				
JGD2110			2/0 sol.-250	70~120				
JGD2114			300-500	150~250				6-7/8
JGD2203C	4	4-4-1/2	8 Sol.-4 Str.	10~25	6-3/8	3/8	5-7/8	
JGD2206			4 Sol.-2/0 Str.	25~70				
JGD2210			2/0 sol.-250	70~120				
JGD2214			300-500	150~250				6-7/8

## GROUND CONNECTOR (접지 컨넥터)

For Copper Bar, Strap, Braid or  
Cable to Rod or Tube

High copper alloy ground connector for joining bar, strap, braid or cable to rod or tube. High copper alloy cast body, SILICON BRONZE U-bolts, nuts and lockwashers make the JGG particularly effective for use with braid for ground rods, switch handles, fence posts and gates. One-wrench installation.



(In.)

Part Number	Conductor		Dimension (In.)				
	Tube I.P.S.	Rod	A	H	J	W	
JGG-15-1	1	1-1/8 – 1-1/4	1	3-3/8	3/8	1-5/8	
JGG-16-1	1-1/4	1-3/8 – 1-1/2		3-1/2		3	
JGG-17-1	1-1/2	1-5/8 – 1-7/8				1-1/2	
JGG-17-15			4-1/4				
JGG-18-1	2	2-2-3/8	1	4-1/4	1/2	4-1/8	
JGG-18-15			1-1/2				5
JGG-18-2			2				
JGG-19-2	2-1/2	2-1/2-2-7/8	2-1/2	5-7/8		5-3/4	
JGG-19-25			3				
JGG-20-2	3	3-3-1/2	2		6-1/2		6-1/4
JGG-20-25			2-1/2				
JGG-20-3			3				
JGG-21-2	3-1/2	3-1/2-4	2	7-5/8		7-1/4	
JGG-21-25			2-1/2				
JGG-21-3			3				
JGG-21-35			3-1/2				
JGG-22-2	4	4-4-1/2	2		6-1/2		6-1/4
JGG-22-25			2-1/2				
JGG-22-3			3				
JGG-22-35			3-1/2				
JGG-22-4			4				
JGG-24-2	5	–	2	7-5/8			

## GROUNDING AND BONDING BUSHING (접지 부싱)

### Application

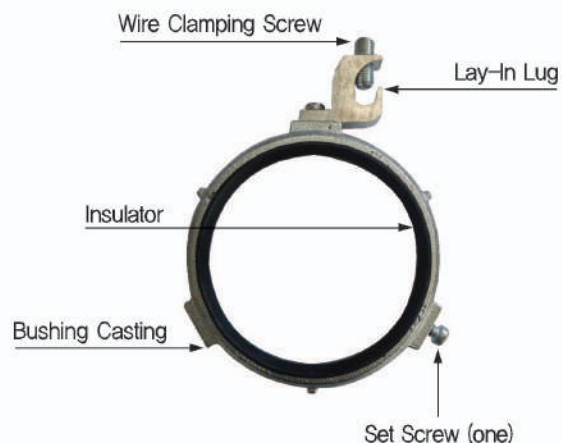
- For quick installation of bonding jumper to multiple conduits (Rigid and IMC).
- Designed to bush conductors and prevent insulation damage.

### Features

- Ease of installation, lay in lug design.
- Cast malleable iron body designed to lock insulator in place within body
- reducing common assembly problem resulting in dislodging of insulator.
- Insulator rated for 150°C/302°F application.

### Standard Material/Finish

Body	Electro zinc plated malleable iron
Lay in lug	Aluminum/tin plated
Insulator	Thermoplastic
	150°C/302°F
	Application with 94V-0 flammability

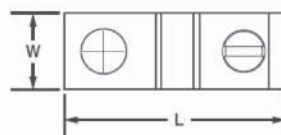


Catalog Number	Conduit Size	Insulator Dia. A	Bushing Dia. B	Bushing Height C	Wire Range AWG CU/AL
JB-3870	1/2	0.57	1.10	0.56	#14-#4
JB-3861					#8-2/0
JB-3987					#6-250Kcmil
JB-3871	3/4	0.69	1.31	0.56	#14-#4
JB-3862					#8-2/0
JB-3988					#6-250Kcmil
JB-3872	1	0.94	1.57	0.70	#14-#4
JB-3882					#8-2/0
JB-3989					#6-250Kcmil
JB-3873	1-1/4	1.28	2.00	0.70	#14-#4
JB-3883					#8-2/0
JB-3990					#6-250Kcmil
JB-3874	1-1/2	1.49	2.25	0.70	#14-#4
JB-3884					#8-2/0
JB-3991					#6-250Kcmil
JB-3875	2	1.95	2.72	0.75	#14-#4
JB-3889					#8-2/0
JB-3992					#6-250Kcmil
JB-3876	2-1/2	2.32	3.31	0.94	#14-#4
JB-3886					#8-2/0
JB-3993					#6-250Kcmil
JB-3877	3	2.87	3.87	0.94	#14-#4
JB-3887					#8-2/0
JB-3994					#6-250Kcmil
JB-3878	3-1/2	3.36	4.37	0.94	#14-#4
JB-3863					#8-2/0
JB-3995					#6-250Kcmil
JB-3879	4	3.78	4.90	0.95	#14-#4
JB-3864					#8-2/0
JB-3996					#6-250Kcmil
JB-3880	5	4.84	6.03	1.13	#14-#4
JB-3865					#8-2/0
JB-3997					#6-250Kcmil
JB-3881	6	5.90	7.19	1.13	#14-#4
JB-3866					#8-2/0
JB-3998					#6-250Kcmil

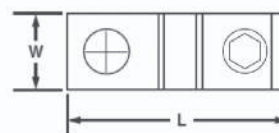
## ALUMINIUM LAY-IN LUGS, ONE-HOLE (알루미늄 러그) TYPE-LI

- Material : High strength aluminium alloy
- Surface : Tin plated to inhibit corrosion

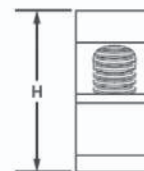
- Used for quick installation of a continuous grounding conductor
- Wide wire range-taking capability minimizes inventory requirements



<Figure 1>



<Figure 2>

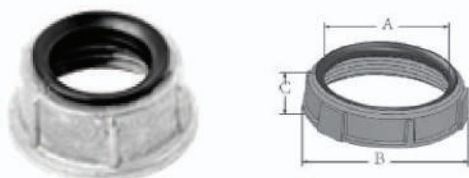


Part Number	Wire Range		Stud Hole Size	Hex Key Size (Fig. No)	Dimension (mm)		
	AWG	mm2			L	W	H
JBL-2520	#14~#4	2.5~25	M5	SLOT (1)	27.2	9.7	19.2
JBL-7010	#8~2/0	10~70	M6	SLOT (1)	38.1	15.2	28.0
JBL-12016	#6~250kcmil	16~120	M8	1/4 (2)	55.9	20.3	43.3

## RIGID AND INTERMEDIATE METAL CONDUIT FITTING (경질의 파이프 부싱)

### Insulated Throat Fitting

(In.)



- Material : Zinc plated malleable iron.

The National Electric Code paragraph 373-6C calls for protection of ungrounded conductors by means of smoothly rounded insulating surfaces at the entrance to raceways, pull boxes, junction boxes, etc. Insulated throat fittings, recognizable by the distinctive trademarked black insulation liner in the throat, meet and surpass this code requirement. In addition, insulated throat fittings also reduce wire pulling effort by much as 50%. Temperature rating 105°C.

CATALOG NUMBER	SIZE	DIMENSION		
		A	B	C
J1222	1/2"	0.57	1.10	0.56
J1223	3/4"	0.69	1.31	0.56
J1224	1"	0.94	1.57	0.70
J1225	1-1/4"	1.28	2.00	0.70
J1226	1-1/2"	1.49	2.25	0.70
J1227	2"	1.95	2.72	0.75
J1228	2-1/2"	2.32	3.31	0.94
J1229	3"	2.87	3.87	0.94
J1230	3-1/2"	3.36	4.37	0.94
J1231	4"	3.78	4.90	0.95
J1232	5"	4.84	6.03	1.13
J1233	6"	5.90	7.19	1.13

### Metallic Bushings

(In.)



- Material : Zinc plated malleable iron.

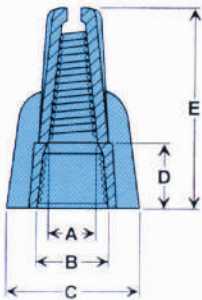
Smoothly rounded shoulder covers end of conduit broad flange covers knockout hole. High ribs make tightening easy with fingers or with wrench. Locknut-type base gives improved bonding and resists loosening under conditions of vibration.

CATALOG NUMBER	SIZE	DIMENSION		
		A	B	C
J122	1/2"	0.62	1.10	0.56
J123	3/4"	0.78	1.31	0.56
J124	1"	1.04	1.57	0.70
J125	1-1/4"	1.39	2.00	0.70
J126	1-1/2"	0.64	2.25	0.70
J127	2"	2.07	2.72	0.75
J128	2-1/2"	2.46	3.31	0.94
J129	3"	3.03	3.87	0.94
J130	3-1/2"	3.53	4.37	0.94
J131	4"	4.00	4.90	0.95
J132	5"	5.04	6.03	1.13
J133	6"	6.10	7.19	1.13

## GROUNDING CONNECTORS (접지 컨넥터)



- UL 467 Listed and CSA22.2 No.188 Certified
- Tough thermoplastic, UL 94V-2 flame-retardant shell.
- Wire Range : Max.#12 x 5, Min #14 x 2
- Color coded Green for quick identification.
- Temperature Rating : 105°C (221°F)
- Specifically designed for making positive ground connections and bonding non-metallic sheathed cable.
- Live-action square spring draws wires deep into spring for safe, tight grip and make strong connection.
- Build-in, swept-back designed wings enable users to tighten connectors easily without tools.



Part Number	Dimensions(mm)					Pcs/Bag
	A	B	C	D	E	
P99	8.30	12.10	20.20	9.40	28.80	500

To Device



Typical Example :

A. System grounding wire

B. System grounding wire

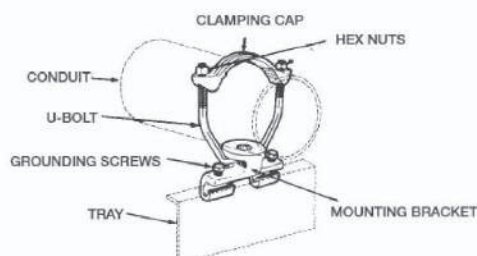
C. "Through" wire between device and box ground

Note : If "through" wire is a jumper, be sure wire extends below skirt 6" minimum.

## SWIVEL TRAY CLAMP (회전식 트레이 클램프)

Swivel cable tray clamps for aluminum and steel trays with regular or reinforced flanges.

- Materials : Body - Tin-plated Copper Alloy  
U-bolt - Steel
- Serrations and biting teeth on clamping saddle provides a high quality bond between conduit and clamp.
- 1/2" to 6" sizes that can be clamped to any position in a 90° arc.
- Hardened steel screws bite into tray and provide positive bond.
- Copper Alloy hub and steel u - bolt accepts conduit from any angle.



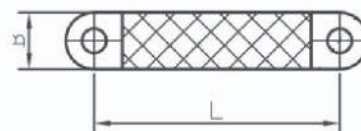
CatalogNumber	Conduit Size (In.)
JSTC-6209	1/2" - 3/4"
JSTC-6211	1" - 1 1/4"
JSTC-6214	1 1/2" - 2"
JSTC-6216	2 1/2" - 3"
JSTC-6218	3 1/2" - 4"
JSTC-6220	5" - 6"

## FLEXIBLE COPPER BRAID (편조선)

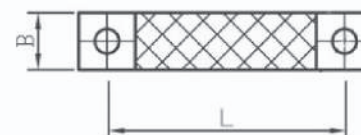
Flexible copper braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices.

Made of flat extra flexible, tinned, pure copper braid, with unplated, seamless, pure copper ferrules formed into a rectangular shape on each end.

※ Other lengths, plating and drilling are available. Refer to factory or section G(Substation).



〈Figure 1〉



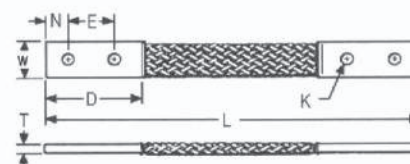
〈Figure 2〉

Part Number		Nominal Area(mm <sup>2</sup> )	Dimension (mm)	
Figure 1	Figure 2		B	L
JBR-1010	JBD-1010	10	14	100
JBR-1020	JBD-1020			200
JBR-1030	JBD-1030			300
JBR-1040	JBD-1040			400
JBR-1610	JBD-1610	16	20	100
JBR-1620	JBD-1620			200
JBR-1630	JBD-1630			300
JBR-1640	JBD-1640			400
JBR-2510	JBD-2510	25	22	100
JBR-2520	JBD-2520			200
JBR-2530	JBD-2530			300
JBR-2540	JBD-2540			400
JBR-3510	JBD-3510	35	25	100
JBR-3520	JBD-3520			200
JBR-3530	JBD-3530			300
JBR-3540	JBD-3540			400
JBR-5010	JBD-5010	50	33	100
JBR-5020	JBD-5020			200
JBR-5030	JBD-5030			300
JBR-5040	JBD-5040			400
JBR-7010	JBD-7010	70	35	100
JBR-7020	JBD-7020			200
JBR-7030	JBD-7030			300
JBR-7040	JBD-7040			400

※ JBD-12\* and JBE-12\* have two hole jumpers.

## FLEXIBLE COPPER BRAID for Nuclear power plant

Part Number	Dimensions(in.)							Approximate AMP	
	W	D	E	K	L	N	T	Indoor	Outdoor
JBD-12	0.94	2.5	1.25	0.44	12	0.62	0.13	190	225
JBE-12	1.5	3.0	1.5	0.44	12	0.75	0.17	340	405



## HARDWARE DATA

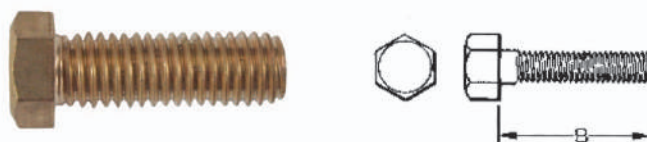
### RECOMMENDED TIGHTENING TORQUE

The hardware used in connectors must be compatible with the connector material, have high mechanical strength and be corrosion resistant and correspond to NEMA recommendations.

SILICON BRONZE and Steel Hardware		Aluminum Hardware	
Bolt Size	Recommended Torque (Inch Pounds)	Bolt Size	Recommended Torque (Inch Pounds)
1/4~20	80	1/2~13	300
5/16~18	180	5/8~11	480
3/8~16	240	3/4~10	650
1/2~13	480		
5/8~11	660		
3/4~10	1,050		

### SILICON BRONZE HEX HEAD BOLTS (실리콘 동 볼트) TYPE-BB

SILICON BRONZE bolts combine high strength with corrosion resistance. Bolts up to 2 inches long are fully threaded; longer bolts are threaded for two inches. Heads have American Standard dimension, and the threads are per American National Coarse Series, Class #2 fit. The silicon bronze is per ASTM B99.



Part Number	Thread Size	B Length	Part Number	Thread Size	B Length	Part Number	Thread Size	B Length
JBB-25×50	1/4~20	1/2"	JBB-38×125	3/8~16	1-1/4"	JBB-50×300	1/2~13	3"
JBB-25×62	1/4~20	5/8"	JBB-38×150	3/8~16	1-1/2"	JBB-50×325	1/2~13	3-1/4"
JBB-25×75	1/4~20	3/4"	JBB-38×175	3/8~16	1-3/4"	JBB-50×350	1/2~13	3-1/2"
JBB-25×100	1/4~20	1"	JBB-38×200	3/8~16	2"	JBB-50×375	1/2~13	3-3/4"
JBB-25×125	1/4~20	1-1/4"	JBB-38×225	3/8~16	2-1/4"	JBB-50×400	1/2~13	4"
JBB-25×150	1/4~20	1-1/2"	JBB-38×250	3/8~16	2-1/2"	JBB-50×450	1/2~13	4-1/2"
JBB-25×200	1/4~20	2"	JBB-38×275	3/8~16	2-3/4"	JBB-50×500	1/2~13	5"
JBB-25×250	1/4~20	2-1/2"	JBB-38×300	3/8~16	3"	JBB-50×550	1/2~13	5-1/2"
JBB-25×300	1/4~20	3"	JBB-38×325	3/8~16	3-1/4"	JBB-50×600	1/2~13	6"
JBB-31×50	5/16~18	1/2"	JBB-38×350	3/8~16	3-1/2"	JBB-62×100	5/8~11	1"
JBB-31×62	5/16~18	5/8"	JBB-38×400	3/8~16	4"	JBB-62×125	5/8~11	1-1/4"
JBB-31×75	5/16~18	3/4"	JBB-38×450	3/8~16	4-1/2"	JBB-62×150	5/8~11	1-1/2"
JBB-31×100	5/16~18	1"	JBB-38×500	3/8~16	5"	JBB-62×175	5/8~11	1-3/4"
JBB-31×125	5/16~18	1-1/4"	JBB-44×150	7/16~14	1-1/2"	JBB-62×200	5/8~11	2"
JBB-31×150	5/16~18	1-1/2"	JBB-44×200	7/16~14	2"	JBB-62×225	5/8~11	2-1/4"
JBB-31×175	5/16~18	1-3/4"	JBB-50×75	1/2~13	3/4"	JBB-62×250	5/8~11	2-1/2"
JBB-31×200	5/16~18	2"	JBB-50×100	1/2~13	1"	JBB-62×275	5/8~11	2-3/4"
JBB-31×250	5/16~18	2-1/2"	JBB-50×125	1/2~13	1-1/4"	JBB-62×300	5/8~11	3"
JBB-31×300	5/16~18	3"	JBB-50×150	1/2~13	1-1/2"	JBB-62×325	5/8~11	3-1/4"
JBB-38×50	3/8~16	1/2"	JBB-50×175	1/2~13	1-3/4"	JBB-62×350	5/8~11	3-1/2"
JBB-38×62	3/8~16	5/8"	JBB-50×200	1/2~13	2"	JBB-62×400	5/8~11	4"
JBB-38×75	3/8~16	3/4"	JBB-50×225	1/2~13	2-1/4"	JBB-62×450	5/8~11	4-1/2"
JBB-38×88	3/8~16	7/8"	JBB-50×250	1/2~13	2-1/2"	JBB-62×500	5/8~11	5"
JBB-38×100	3/8~16	1"	JBB-50×275	1/2~13	2-3/4"	JBB-62×600	5/8~11	6"

**SILICON BRONZE CAPSCREW ROUND HEAD BOLS (CONTINUED)**  
**(실리콘 동 볼트)**


Part Number	Thread Size	B Length	Part Number	Thread Size	B Length	Part Number	Thread Size	B Length
JRB-25×50	1/4~20	1/2"	JRB-38×125	3/8~16	1-1/4"	JRB-50×300	1/2~13	3"
JRB-25×62	1/4~20	5/8"	JRB-38×150	3/8~16	1-1/2"	JRB-50×325	1/2~13	3-1/4"
JRB-25×75	1/4~20	3/4"	JRB-38×175	3/8~16	1-3/4"	JRB-50×350	1/2~13	3-1/2"
JRB-25×100	1/4~20	1"	JRB-38×200	3/8~16	2"	JRB-50×375	1/2~13	3-3/4"
JRB-25×125	1/4~20	1-1/4"	JRB-38×225	3/8~16	2-1/4"	JRB-50×400	1/2~13	4"
JRB-25×150	1/4~20	1-1/2"	JRB-38×250	3/8~16	2-1/2"	JRB-50×450	1/2~13	4-1/2"
JRB-25×200	1/4~20	2"	JRB-38×275	3/8~16	2-3/4"	JRB-50×500	1/2~13	5"
JRB-25×250	1/4~20	2-1/2"	JRB-38×300	3/8~16	3"	JRB-50×550	1/2~13	5-1/2"
JRB-25×300	1/4~20	3"	JRB-38×325	3/8~16	3-1/4"	JRB-50×600	1/2~13	6"
JRB-31×50	5/16~18	1/2"	JRB-38×350	3/8~16	3-1/2"	JRB-62×100	5/8~11	1"
JRB-31×62	5/16~18	5/8"	JRB-38×400	3/8~16	4"	JRB-62×125	5/8~11	1-1/4"
JRB-31×75	5/16~18	3/4"	JRB-38×450	3/8~16	4-1/2"	JRB-62×150	5/8~11	1-1/2"
JRB-31×100	5/16~18	1"	JRB-38×500	3/8~16	5"	JRB-62×175	5/8~11	1-3/4"
JRB-31×125	5/16~18	1-1/4"	JRB-44×150	7/16~14	1-1/2"	JRB-62×200	5/8~11	2"
JRB-31×150	5/16~18	1-1/2"	JRB-44×200	7/16~14	2"	JRB-62×225	5/8~11	2-1/4"
JRB-31×175	5/16~18	1-3/4"	JRB-50×75	1/2~13	3/4"	JRB-62×250	5/8~11	2-1/2"
JRB-31×200	5/16~18	2"	JRB-50×100	1/2~13	1"	JRB-62×275	5/8~11	2-3/4"
JRB-31×250	5/16~18	2-1/2"	JRB-50×125	1/2~13	1-1/4"	JRB-62×300	5/8~11	3"
JRB-31×300	5/16~18	3"	JRB-50×150	1/2~13	1-1/2"	JRB-62×325	5/8~11	3-1/4"
JRB-38×50	3/8~16	1/2"	JRB-50×175	1/2~13	1-3/4"	JRB-62×350	5/8~11	3-1/2"
JRB-38×62	3/8~16	5/8"	JRB-50×200	1/2~13	2"	JRB-62×400	5/8~11	4"
JRB-38×75	3/8~16	3/4"	JRB-50×225	1/2~13	2-1/4"	JRB-62×450	5/8~11	4-1/2"
JRB-38×88	3/8~16	7/8"	JRB-50×250	1/2~13	2-1/2"	JRB-62×500	5/8~11	5"
JRB-38×100	3/8~16	1"	JRB-50×275	1/2~13	2-3/4"	JRB-62×600	5/8~11	6"

## SILICON BRONZE HEX NUTS (실리콘 동 너트) TYPE-HN

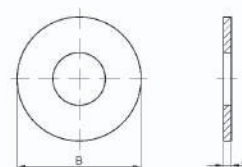
SILICON BRONZE hexagon regular nuts are non-magnetic and are made to American Standard dimensions. American National Coarse Series threads, #2 fit.



Part Number	Thread Size (In.)
JHN-25	1/4~20
JHN-31	5/16~18
JHN-38	3/8~16
JHN-44	7/16~14
JHN-50	1/2~13
JHN-62	5/8~11

## SILICON BRONZE FLAT WASHERS (실리콘 동 와샤) TYPE-FW

High strength SILICON BRONZE Flat Washers are non-magnetic and free from galvanic action when in contact with copper. Conforms to SAE standards.



Part Number	For Bolt Size	Nominal Dimensions in Inches	
		A	B
JFW-25	1/4	1/16	5/8
JFW-31	5/16	1/16	11/16
JFW-38	3/8	1/16	13/16
JFW-44	7/16	1/16	15/16
JFW-50	1/2	1/16	1-1/16
JFW-62	5/8	3/32	1-5/16

## SILICON BRONZE SPLIT LOCKWASHERS (실리콘 동 로크와샤) TYPE-SLW

SILICON BRONZE spring type lockwasher has high resiliency and exerts constant pressure on the face of the nut, preventing vibration from loosening the nut.



Part Number	Thread Size (In.)
JSLW-25	1/4
JSLW-31	5/16
JSLW-38	3/8
JSLW-44	7/16
JSLW-50	1/2
JSLW-62	5/8

## SILICON BRONZE INTERNAL TOOTH LOCKWASHER (실리콘 동 톱니와샤)

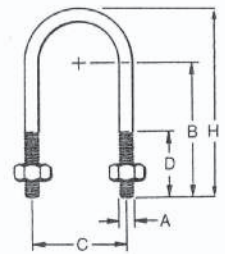
SILICON BRONZE Internal tooth lockwashers are available as illustrated. The teeth are twisted slightly and present biting edges which grip the nut and the part being clamped, preventing the nut from backing off.



Part Number	For Bolt Size (In.)
JNW-25	1/4
JNW-31	5/16
JNW-38	3/8
JNW-44	7/16
JNW-50	1/2
JNW-62	5/8

## SILICON BRONZE U - BOLTS (실리콘 동 유볼트)

SILICON BRONZE U - BOLTS are specifically designed for electrical connections to pipe and rod. The U - BOLTS are threaded on the straight portion of the legs only allowing for more contact surface on the pipe or rod. American National Coarse Threads Class #2 fit. The silicon bronze is per ASTM B99.



(In.)

Part Number	Thread Size(A)	Dimension (In.)			
		H	C	D	B
JUB-101	1/4 - 20	1.38	0.75	0.75	0.88
JUB-104		1.81	1.12	0.88	1.12
JUB-105		2.03	1.31	1.00	1.25
JUB-106		2.31	1.62	1.12	1.38
JUB-107		2.66	1.94	1.31	1.56
JUB-336	3/8 - 16	1.50	0.88	0.62	0.88
JUB-337		1.94	1.12	0.75	1.19
JUB-178		2.00	0.88	0.75	1.38
JUB-354		2.44	1.25	1.00	1.62
JUB-187		2.47	1.16	1.06	1.69
JUB-271		2.50	1.00	1.19	1.81
JUB-222		2.69	1.50	1.12	1.75
JUB-242		2.72	1.16	1.31	1.94
JUB-383		2.75	0.94	1.47	2.09
JUB-269		2.78	1.19	1.38	2.00
JUB-357		2.78	1.69	1.12	1.75
JUB-384		2.91	1.44	1.38	2.00
JUB-249		3.00	1.50	1.44	2.06
JUB-1031		3.31	1.75	1.90	2.25
JUB-244		3.31	1.75	1.62	2.25
JUB-199		3.41	2.34	1.44	2.05
JUB-204		3.47	2.06	1.62	2.25
JUB-124		3.50	2.75	1.31	1.94
JUB-268		3.97	2.34	2.00	2.62
JUB-257		4.16	2.81	1.94	2.56
JUB-1032		4.41	2.81	2.56	2.81
JUB-310		4.41	2.81	2.19	2.81
JUB-266		4.97	3.31	2.50	3.12
JUB-275		5.09	3.31	3.62	4.25
JUB-267		5.53	3.94	2.75	3.38
JUB-258		5.56	4.00	2.75	3.38
JUB-264		6.16	4.44	3.12	3.75
JUB-1033		6.16	4.44	3.50	3.75
JUB-261		6.34	4.94	3.06	3.69
JUB-422		7.69	6.00	3.88	4.50
JUB-1027		8.12	7.12	2.88	4.38
JUB-1028		9.62	9.12	2.88	4.38
JUB-1029		11.20	11.25	2.88	5.38
JUB-1030		12.70	13.25	2.88	5.88
JUB-224	1/2 - 13	2.44	1.12	0.88	1.62
JUB-358		2.66	1.31	1.00	1.75

(In.)

Part Number	Thread Size(A)	Dimension (In.)			
		H	C	D	B
JUB-226	1/2 - 13	2.75	1.25	1.12	1.88
JUB-291		2.81	1.19	1.22	1.97
JUB-293		2.81	1.75	1.19	1.69
JUB-464		3.12	1.81	1.31	1.96
JUB-540		3.19	1.38	1.75	2.25
JUB-254		3.41	1.31	1.75	2.50
JUB-328		3.41	2.94	0.94	1.69
JUB-400		4.03	1.31	2.38	3.12
JUB-256		4.16	2.22	2.06	2.81
JUB-230		4.34	2.94	1.88	2.62
JUB-311		4.44	1.88	2.50	3.25
JUB-302		4.62	2.47	2.38	3.12
JUB-232		4.97	3.44	2.25	3.00
JUB-260		5.34	2.94	2.88	3.62
JUB-390		5.38	2.50	3.12	3.88
JUB-263		5.78	4.56	2.50	3.25
JUB-282		6.31	4.12	3.25	4.00
JUB-236		6.41	5.06	2.88	3.62
JUB-339		6.66	1.31	5.00	5.75
JUB-436		6.66	4.56	3.62	4.12
JUB-262	5/8 - 11	6.78	5.06	3.25	4.00
JUB-392		7.06	1.62	5.25	6.00
JUB-416		7.53	5.06	4.00	4.75
JUB-300		7.62	6.12	3.56	4.31
JUB-306	3/4 - 10	7.88	6.12	3.81	4.56
JUB-437		8.56	6.12	4.50	5.25
JUB-294		3.50	1.38	1.75	2.50
JUB-314		3.66	2.09	1.56	2.31
JUB-425		3.72	2.31	1.50	2.25
JUB-317		4.97	1.81	3.00	3.75
JUB-315		5.56	2.09	3.44	4.19
JUB-318		4.22	2.44	1.87	2.62
JUB-344		4.72	1.94	2.63	3.38
JUB-319		6.34	2.44	4.00	4.75

G

## STAINLESS STEEL HARDWARE

Stainless steel bolts, nuts, flatwashers and split lockwashers are manufactured from 18-8 non-magnetic material. Bolts up to 2 inches long are fully threaded; longer bolts are threaded for 2 inches. Nut surfaces and bolt heads have American National Coarse Series, Class #2 fit.

### BOLTS (스테인리스 스틸 볼트)



Part Number	Thread Size	Length B (inches)
JSSB-38×125	3/8~16	1.25
JSSB-38×225	3/8~16	2.25
JSSB-38×250	3/8~16	2.50
JSSB-38×275	3/8~16	2.75
JSSB-50×200	1/2~13	2.00
JSSB-50×250	1/2~13	2.50
JSSB-50×300	1/2~13	3.00
JSSB-62×300	5/8~11	3.00

### NUTS (스테인리스 스틸 너트)



Part Number	Thread Size (In.)
JSSN-25	1/4~20
JSSN-38	3/8~16
JSSN-50	1/2~13
JSSN-62	5/8~11

### SPLIT LOCKWASHERS (스테인리스 스틸 로크 와샤)



Part Number	For Bolt Size (In.)
JSWSS-25	1/4
JSWSS-38	3/8
JSWSS-50	1/2
JSWSS-62	5/8

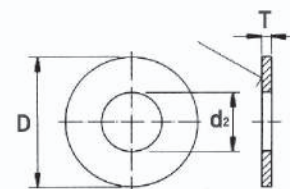
### FLATWASHER (스테인리스 스틸 와샤)



Part Number	Bolt Size	Nominal Dimensions	
		I.D.A	O.D.B
JFWSS-25	1/4	0.266	0.688
JFWSS-38	3/8	0.406	1.000
JFWSS-50	1/2	0.594	1.125
JFWSS-62	5/8	0.656	1.312
JFWSS-75	3/4	0.812	2.000

### BI-METALLIC WASHERS (바이메탈 와샤) TYPE-BW

- Material : Al 99.5 Sheet, One-side Copper plated
- Surface : UnCoated



Part Number	Stud Size (In.)	Dimension (mm)			Part Number	Stud Size (In.)	Dimension (mm)		
		d <sub>1</sub>	D	T			d <sub>1</sub>	D	T
JBW-6	1/4"	6.5	15	1	JBW-12B	1/2"	13	28	2
JBW-8	5/16"	8.5	18	1	JBW-12C	1/2"	13	30	2
JBW-10	3/8"	10.5	22	1	JBW-14	9/16"	15	28	2
JBW-10A	3/8"	11	26	1	JBW-16	5/8"	17	30	1
JBW-10B	3/8"	10.5	22	2	JBW-16A	5/8"	17	35	1
JBW-10C	3/8"	11	26	2	JBW-16B	5/8"	17	30	2
JBW-12	1/2"	13	28	1	JBW-16C	5/8"	17	35	2
JBW-12A	1/2"	13	30	1	JBW-20	6/8"	21	37	2

## INSULATION PIERCING CONNECTORS (무탈피 컨넥터)

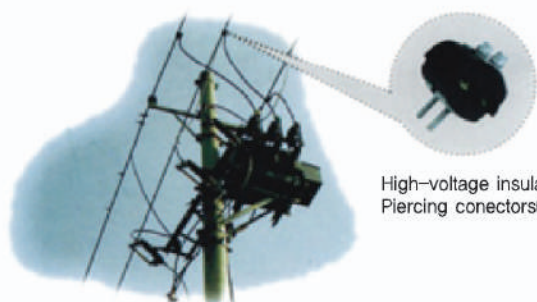
- Performs a splice or tap for non-tension applications
- Eliminates need for conductor insulation stripping
- Self-insulated for hot line applications.
- No taping required after installation.
- For copper to copper, copper to aluminum and aluminum to aluminum applications.
- For use on insulated conductor only.
- This connector line covers the range from #22~500Kcmil.

### TYPE – IPCL for LOW VOLTAGE

Part Number	AL or CU Conductor Range				No of Bolts
	AWG		mm <sup>2</sup>		
	Main	Tap	Main	Tap	
JPICL-01	#14~#2	#22~#6	2.5-35	1.5-6	1xM6
JPICL-02	#6~3/0	#22~#8	16-95	1.5-10	1xM6
JPICL-03	#6~3/0	#12~#1	16-95	4-50	1xM8
JPICL-04	1/0~300kcmil	#10~#1	50-150	6-50	1xM8
JPICL-05	#4~3/0	#4~3/0	25-95	25-95	1xM8
JPICL-06	#1~300kcmil	#1~300kcmil	50-150	50-150	2xM8

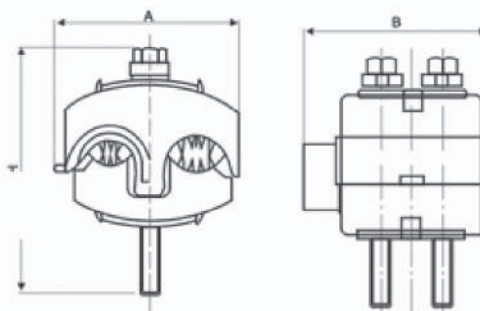


### TYPE – IPCH for HIGH VOLTAGE(10KV)



High-voltage insulation Piercing connectors(IPC)

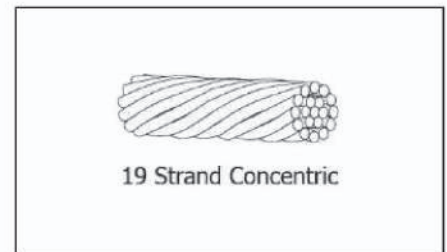
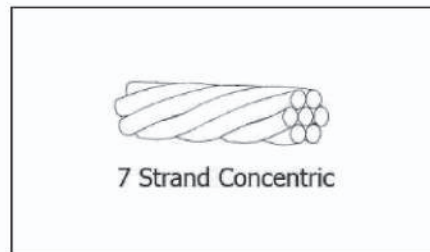
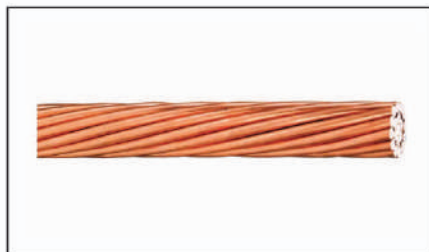
Application legend of high-voltage insulation Piercing connectors(IPC)



Part Number	AL or CU Conductor Range				Dimension			No of Bolts
	AWG		mm <sup>2</sup>					
	Main	Tap	Main	Tap	A	B	H	
JPICH-01	3/0~500kcmil	3/0~500kcmil	95~240	95~240	89	85.5	112	2
JPICH-02	3/0~500kcmil	#1~300kcmil	95~240	50~150	84	83	112.5	2
JPICH-03	3/0~350kcmil	#6~#1	95~185	16~50	78.5	77.5	112.5	2
JPICH-04	#4~3/0	#6~2/0	25~95	16~70	68	82.5	107.5	2
JPICH-05	#1~500kcmil	#1~500kcmil	50~240	50~240	88	102	130	2

## BARE COPPER WIRE (나동선)

Stranded bare copper conductors are suitable for direct burial and do not suffer from the inherent corrosion problems that an aluminum conductor would. Copper is almost twice as conductive as aluminum. Copper is easier than aluminum to terminate and join at splices and joints.



NOMINAL SECTIONAL AREA(mm <sup>2</sup> )	AWG (MCM)	NUMBER & DIA OF WIRE NO./mm	CALCUIATED AREA mm <sup>2</sup>	OVERALL DIAMETER mm	MAX.CONDUCTOR RESISTANCE AT.20℃ Ω/km	APPROX WEIGHT kg/km	STANDARD LENGTH m
100	4/0	19/2.60	100.9	13.0	0.173	907.6	600
95	3/0	19/2.52	94.76	12.60	0.193	854.91	600
70	2/0	19/2.14	68.34	10.70	0.268	616.68	1,000
50, (60)	#1, (1/0)	19/1.78	47.28	8.90	0.387	426.62	1,000
35	#2	7/2.52	34.91	7.56	0.524	313.57	300
22 (25)	#4 (#3)	7/2.14	25.18	6.42	0.727	225.87	300
16	#6	7/1.70	15.89	5.10	1.15	142.61	500
10	#8	7/1.35	10.02	4.05	1.83	89.92	500

\* Detail wire information. See page I25.