

# JEONOWeld®

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## The JEONOWeld® Process (전오웰드 프로세스)



The JEONOWeld® connetion process is a simple, efficient method of welding copper to copper or copper to steel. One advantage is that NO outside power is required when using the JEONOWeld exothermic process.

The JEONOWeld® process uses high temperature reaction® of powdered copper oxide and aluminum.

The reaction takes place in a semi-permanent graphite mold. These molds will last for fifty or more welds if proper care is given. The reaction takes place very rapidly, threrefore the total amount of heat applied to the conductors or surfaces is considerably less than that of brazing or soldering. It is important to remember this when welding to insulated cable or thin wall pipe.

This system is very field friendly, since it is light and portable and requires no outside power source. It requires very little time or skill to obtain an efficient, maintenance free connection when using the JEONOWeld® process.

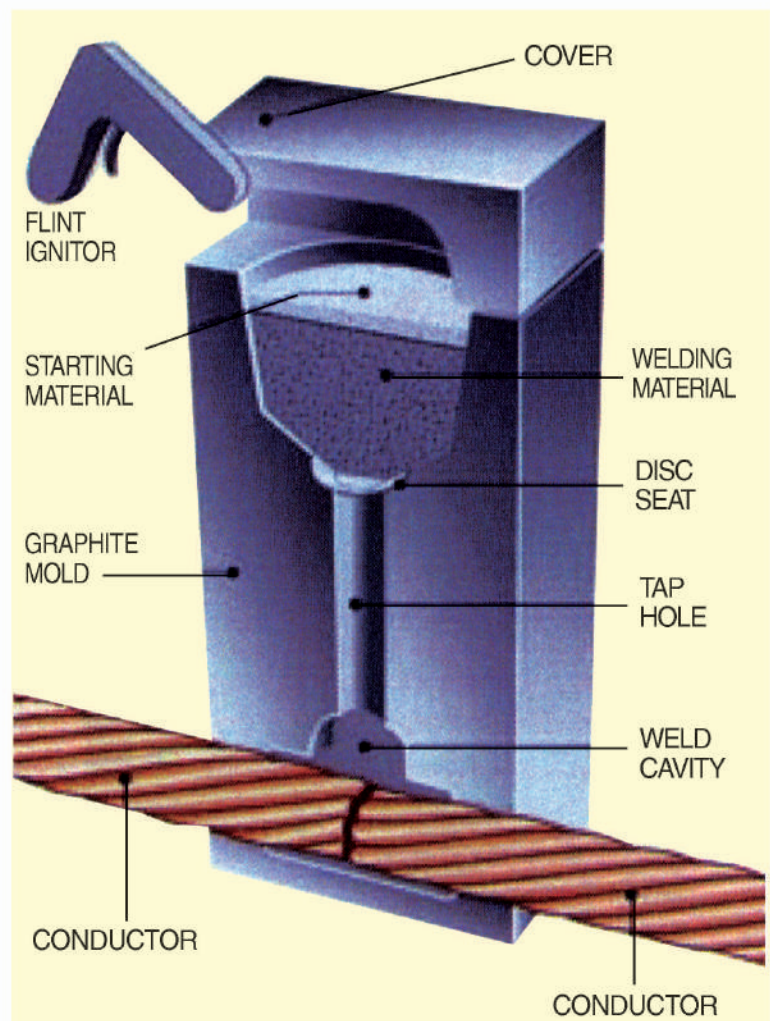
For more information visit our website at [www.JEONO.com](http://www.JEONO.com)

The JEONOWeld® process has been used to weld materials other than copper for electrical purposes. Materials welded include:

When welding to galvanized steel it is recommended to resurface exposed bare steel

The JEONOWeld® connection is a molecular weld. The weld metal has the same melting point as copper. These factors along with the increased cross section of the connection, JEONOWeld® connections:

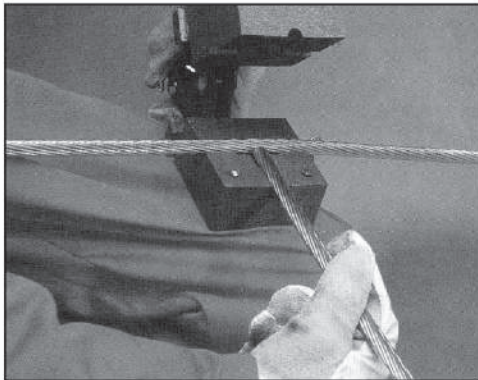
1. Will not be affected by a high current surge. tests have shown that the electrical conductor will melt before the JEONOWeld® connection when subjected to high short circuit current.
2. Will not loosen or corrode at the point of weld. There are no contact surfaces or mechanical pressures involved. A JEONOWeld® connection becomes an integral part of the conductor.
3. Have a current-carrying capacity equal to or greater than that of the conductors.



STANDARD JEONOWeld®

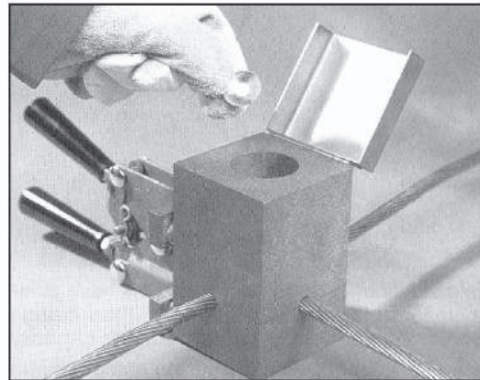


## Making a JEONOWeld® Connection (전오웰드 사용법)



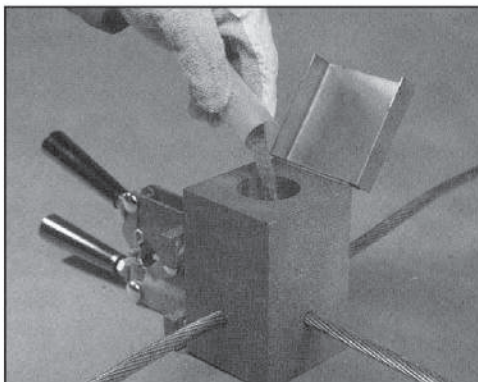
### STEP 1

Position the clean conductors in the mold after making sure the mold is dry, by pre-heating or making a test joint.



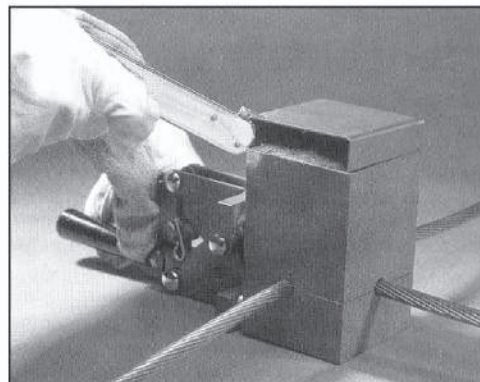
### STEP 2

Place the metal retaining disc in the bottom of the mold crucible.



### STEP 3

Pour the powder into the crucible, spreading some starting power onto the mold edge.



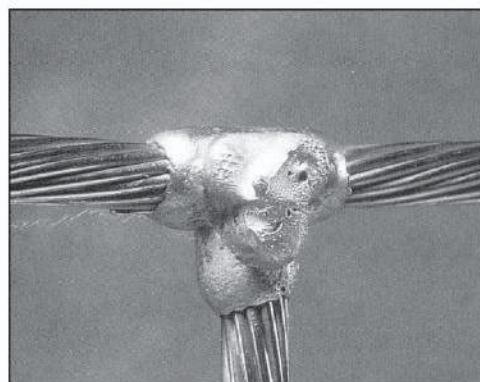
### STEP 4

Close the lid, and ignite with the flint gun from the side, firing the spark onto the starting powder.



### STEP 5

The reaction takes place safely inside the mold.



### STEP 6

Once the joint is finished, the mold should be cleaned using a mold scraper and brush ready for the next joint.

## WELD METALS (화약)

JEONOWeld® weld Metal is packed in moisture-resistant plastic cartridges that have tight fitting caps. These cartridges, along with the necessary steel discs, are then packed in boxes that are hermetically sealed. This ensures the powder arriving in good condition, always dry and ready for fast positive ignition.

Two types of JEONOWeld® weld Metal are used for groundind connections :

The Standard Weld Metal is used for all grounding connections with the exception of those to cast iron or to load bearing rail. The Standard Weld Metal containers have clear (or natural) caps.

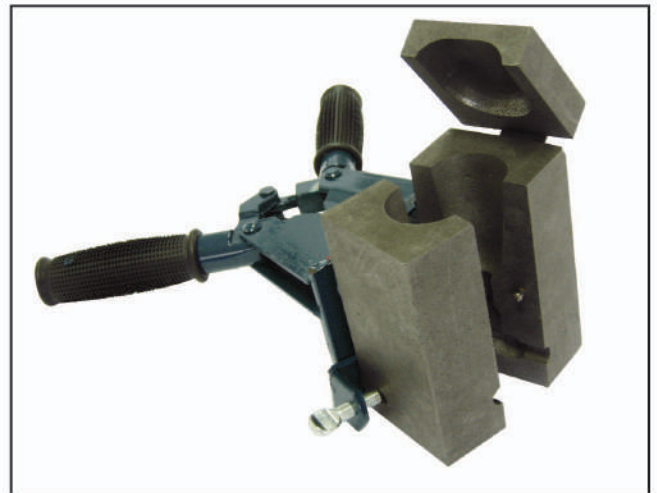
Alloy Weld Metal is used for all connections to cast iron. XF-19 Weld Metal containers have orange caps.



STANDARD WELD METAL	ALLOY WELD METAL	WEIGHT (g)	CARTRIDGES PER BOX
#J - 15	#J-15XF-19	15	50
#J - 32	#J-32XF-19	32	30
#J - 45	#J-45XF-19	45	30
#J - 65	#J-65XF-19	65	20
#J - 90	#J-90XF-19	90	10
#J - 115	#J-115XF-19	115	10
#J - 150	#J-150XF-19	150	10
#J - 200	#J-200XF-19	200	5
#J - 250	#J-250XF-19	250	5

## WELD MOLDS (몰드)

When making JEONOWeld® Connection, an accurate control of the JEONOWeld® Process is accomplished by using a semi - permanent graphite mold. Control is exercised obver the direction and speed of the molten JEONOWeld® weld metal flow and final shape. The graphite used in a JEONOWeld® mold is a high temperature type that lasts for an average of 50 or more JEONOWeld® connections under normal usage.



## HANDLE CLAMPS (핸들 클램프)

For most JEONOWeld® CONNECTIONS of cables, small busbars and lugs. The outstanding feature of the equipment is that many size and types of molds are usable with only two size hadle clamps.

These two sizes of Handle Clamps are:

1. JL - 160 3" for wide molds
2. JL - 159 4" for wide molds





## DISK (디스크)

The disk rests on the bottom of the crucible and holds the weld metal powder in place until the reaction occurs.

- A new disk is required each time a weld is made.
- Disks are included with the weld metal.

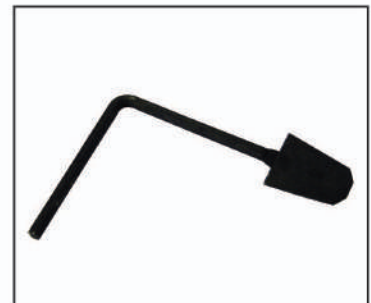
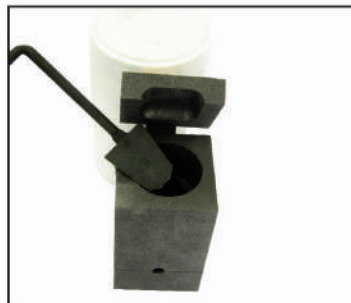
Part Number	Description
JDSK-S	Used in molds using #J-15 ~ #J-65 weld metal
JDSK-M	Used in molds using #J-90 ~ #J-115 weld metal
JDSK-L	Used in molds using #J-150 ~ #J-250 weld metal



## MOLD CLEANERS (몰드 클리너)

Mold Cleaners for molds not split thru the crucibles are useful for removing the slag after making a JEONOWeld® Connection. The following types are not split thru the crucible.

Mold Cleaner Catalog Number	Use With Mold Price	Using Weld Metal Size
JB - 136 - A	C	J - 65 & Smaller
JB - 136 - B	D	J - 90 & Larger



## MOLD CLEANING BRUSH (브러쉬)

Mold Cleaning brush JT-394 is very useful for removing modls - especially vertically split molds.



Cat No : JT - 394

## FLINT IGNITERS (건)

JEONOWeld® Flint Igniters, JT - 320 are used to ignite the starting materials When making a JEONOWeld® Connection. An igniter is included with each Handle Clamp and with each mold with frame.



Cat No : JT - 320

**CARD CLOTH BRUSH (모직 브러쉬)**

The card cloth brush has short, stiff, metal bristles which are generally preferred for cleaning concentric conductors and busbars, that are not heavily oxidized.

Cat No : JCB-313

**MOLD SEALER (몰드 실러)**

Mold sealer is for sealing slightly worn molds to guard against leakage from large stranded conductors.

- Available in a convenient 1 kg package

Cat No : JMS-403

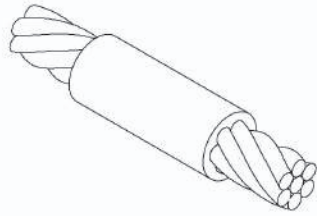
**TOOL KIT (공구 키트)**

Tool kit includes :

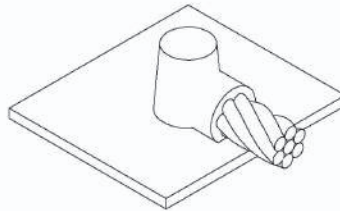
- Toolbox : Plastic toolbox with tray
- Mold Cleaner (JB-136)
- Mold Cleaning Brush (JT-394)
- Flint Igniter (JT-320)
- Hammer
- Saw Blade
- Blow Torch with gas
- Brush
- Gloves (2pairs)
- Needle nose pliers
- Sand paper
- Slotted Point screwdriver



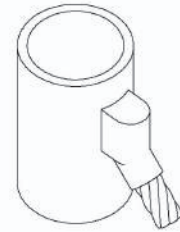
## WELDED FORM (용접 형상)



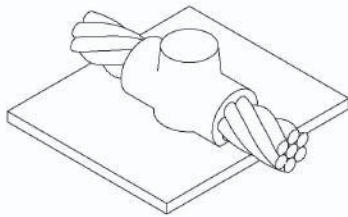
**TYPE-SS** Page 18



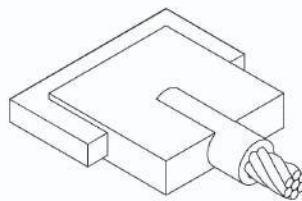
**TYPE-HA** Page 19



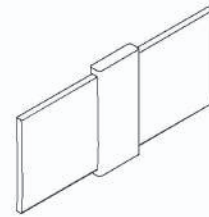
**TYPE-HB** Page 110



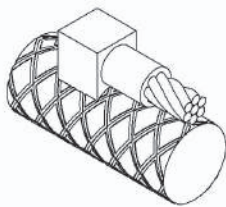
**TYPE-HC** Page 111



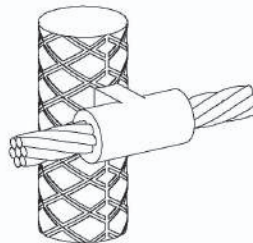
**TYPE-LJ** Page 112



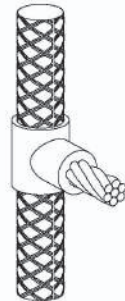
**TYPE-BA** Page 113



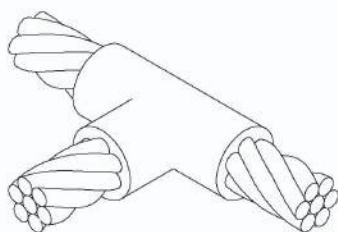
**TYPE-RR** Page 114



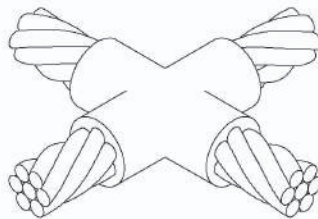
**TYPE-RC** Page 115



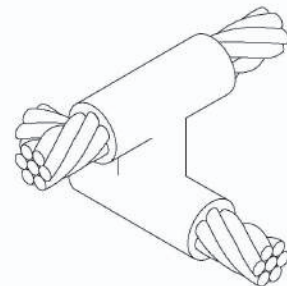
**TYPE-RJ** Page 116



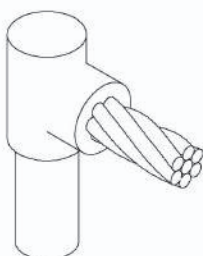
**TYPE-TA** Page 117



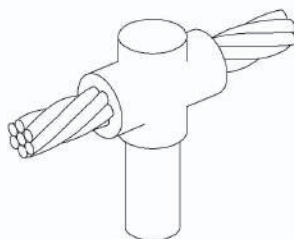
**TYPE-XA** Page 118



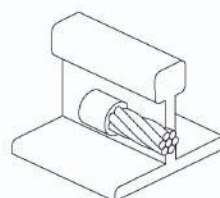
**TYPE-XB** Page 119



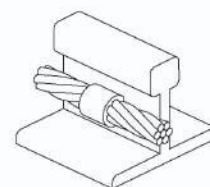
**TYPE-GR** Page 120



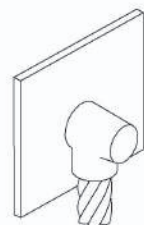
**TYPE-GT** Page 121



**TYPE-RX & RY** Page 122



**TYPE-VB** Page 123

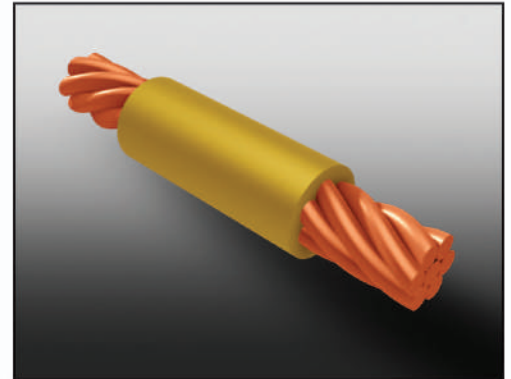


These are the most frequently ordered JEONOWeld® Products.  
To order other product type, Please contact technical sales team or factory.

## CABLE TO CABLE (전선 대 전선)

### TYPE : SS

JEONOWeld® Cable splice connections... for most conductors including copper.



### Concentric Strand Copper Cable

Mold Catalog Number	Cable Size AWG (mm <sup>2</sup> )	Mold Clamp	Weld Metal
JSSC - 1H	#6* (16)	JL-160	#J - 32
JSSC - 1L	4 (25)	JL-160	#J - 32
JSSC - 1Q	3 (30)	JL-160	#J - 32
JSSC - 1V	2 (35)	JL-160	#J - 45
JSSC - 1Y	1 (50)	JL-160	#J - 65
JSSC - 2C	1/0 (60)	JL-160	#J - 65
JSSC - 2G	2/0 (70)	JL-160	#J - 90
JSSC - 2L	3/0 (95)	JL-160	#J - 90
JSSC - 2Q	4/0 (100)	JL-160	#J - 90
JSSC - 2V	250 (120)	JL-160	#J - 115
JSSC - 3A	300 (150)	JL-160	#J - 115
JSSC - 3D	350 (185)	JL-160	#J - 150
JSSC - 3Q	500 (240)	JL-160	#J - 200
JSSC - 4L	750 (400)	JL-159	#J - 2-150
JSSC - 4Y	1000 (500)	JL-159	#J -2-200

Requires Sleeve JB-112 (2/weld)

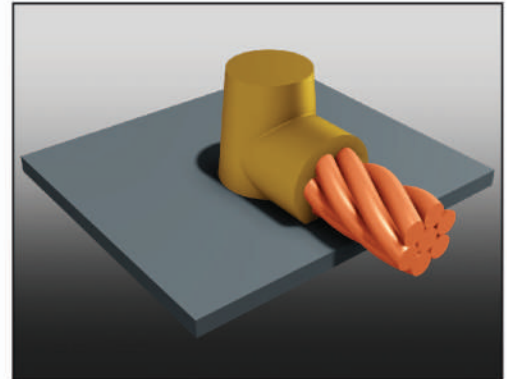


## CABLE TO STEEL (전선 대 철판)

### TYPE : HA

JEONOWeld® tap connections; cable to horizontal flat steel surface; cable to top of horizontal steel pipe for most grounding conductors including copper.

A test weld should be made to check the possibility of burn thru when intended for use on thin sections or thin wall pipe.



### Concentric Strand Copper Cable to Flat Steel Surface

Mold Catalog Number	Cable Size AWG (mm <sup>2</sup> )	Mold Clamp	Weld Metal
JHAA - 1H	#6* (16)	JL-160	#J - 45
JHAA - 1L	4 (25)	JL-160	#J - 65
JHAA - 1V	2 (35)	JL-160	#J - 65
JHAA - 1Y	1 (50)	JL-160	#J - 90
JHAC - 2C	1/0 (60)	JL-160	#J - 90
JHAC - 2G	2/0 (70)	JL-160	#J - 115
JHAC - 2L	3/0 (95)	JL-160	#J - 115
JHAC - 2Q	4/0 (100)	JL-160	#J - 115
JHAC - 2V	250 (120)	JL-160	#J - 150
JHAC - 3A	300 (150)	JL-160	#J - 150
JHAC - 3D	350 (185)	JL-160	#J - 200
JHAC - 3Q	500 (240)	JL-160	#J - 200
JHAD - 4L	750 (400)	JL-159	#J - 2-150
JHAD - 4Y	1000 (500)	JL-159	#J - 2-200

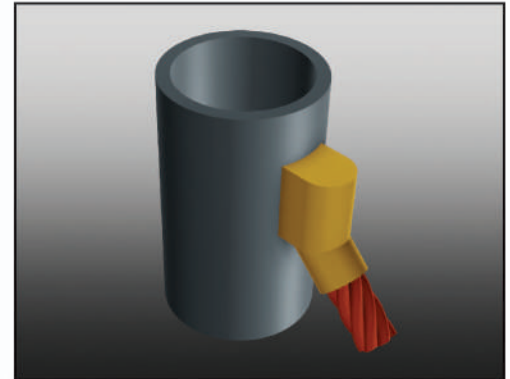
Requires Sleeve JB-112 (1/weld)

• Mold Catalog No. includes mold frame. If mold only (less frame) is required, order - Mold Catalog No. - "M"

# CABLE TO CAST IRON (전선 대 주철관)

## TYPE : HB

JEONOWeld tap connections; cable to horizontal flat cast surface; cable to top of horizontal cast iron pipe... for most grounding conductors including copper.



### Concentric Strand Copper, Solid Copper Conductor to Cast Iron – Flat Surface or Pipe

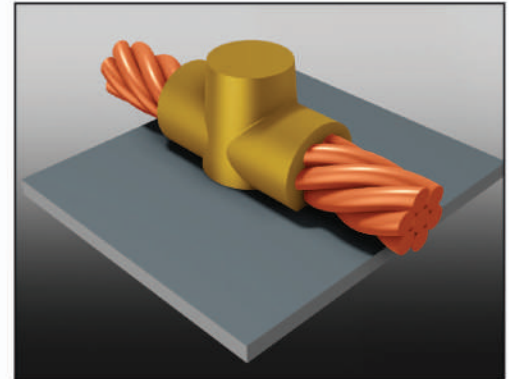
Mold Catalog Number	Conductor Size AWG (mm <sup>2</sup> )	Surface (In.)	Mold Clamp	Weld Metal
JHBA – 1G	#8 Solid or Stranded, (10)	Flat	JL-160	#J – 45XF – 19
JHBA – 1G-P.S.*	#6 Solid (16)	4" to 24" pipe	JL-160	#J – 45XF – 19
JHBA – 1H	6 Stranded (16)	Flat	JL-160	#J – 45XF – 19
JHBA – 1H-P.S.*		4" to 24" pipe	JL-160	#J – 45XF – 19
JHBA – 1K	4 Solid (25)	Flat	JL-160	#J – 65XF – 19
JHBA – 1K-P.S.*		4" to 24" pipe	JL-160	#J – 65XF – 19
JHBA – 1L	4 Stranded (25)	Flat	JL-160	#J – 65XF – 19
JHBA – 1L-P.S.*		4" to 24" pipe	JL-160	#J – 65XF – 19
JHBA – 1T	2 Solid (35)	Flat	JL-160	#J – 65XF – 19
JHBA – 1T-P.S.*		4" to 24" pipe	JL-160	#J – 65XF – 19
JHBA – 1V	2 Stranded (35)	Flat	JL-160	#J – 65XF – 19
JHBA – 1V-P.S.*		4" to 24" pipe	JL-160	#J – 65XF – 19
JHBA – 1Y	1 Stranded (50)	Flat	JL-160	#J – 90XF – 19
JHBA – 1Y-P.S.*		4" to 24" pipe	JL-160	#J – 90XF – 19
JHBA – 9A	7/ #10 Copperweld	Flat	JL-160	#J – 90XF – 19
JHBA – 9A-P.S.*		4" to 24" pipe	JL-160	#J – 90XF – 19

\* Specify nominal pipe size. Example: For #2 stranded to 6" pipe, JHBA-IV-6. Use Flat Surface Mold Catalog No. for 30" and larger pipes. Mold Catalog No. includes mold frame. If mold only (less frame) is required, order-Mold Catalog No. – "M"

## CABLE TO STEEL (전선 대 철판)

### TYPE : HC

JEONOWeld® thru connections; cable to horizontal flat steel surface; cable to top of horizontal steel pipe... for most grounding conductors including copper.



### Concentric Strand Copper Cable to Flat Steel Surface.

Mold Catalog Number	Cable Size AWG (mm <sup>2</sup> )	Mold Clamp	Weld Metal
JHCA - 1H	#6* (16)	JL-160	#J - 65
JHCA - 1L	4 (25)	JL-160	#J - 90
JHCA - 1V	2 (35)	JL-160	#J - 90
JHCA - 1Y	1 (50)	JL-160	#J - 115
JHCC - 2C	1/0 (60)	JL-160	#J - 150
JHCC - 2G	2/0 (70)	JL-160	#J - 150
JHCC - 2L	3/0 (95)	JL-160	#J - 200
JHCC - 2Q	4/0 (100)	JL-160	#J - 200
JHCC - 2V	250 (120)	JL-160	#J - 200
JHCC - 3A	300 (150)	JL-160	#J - 250
JHCC - 3D	350 (185)	JL-159	#J - 2 - 150
JHCD - 3Q	500 (240)	JL-159	#J - 2 - 150

Requires Sleeve JB-112 (1/weld)

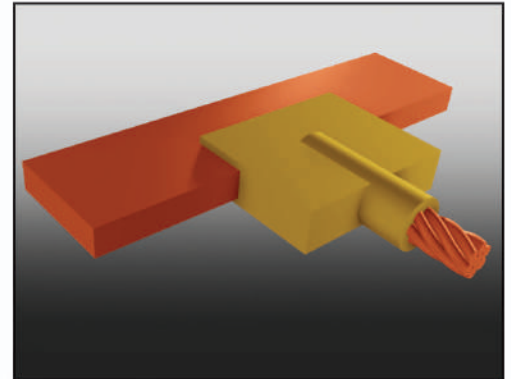
\* Mold Catalog No. includes mold frame. If mold only (less frame) is required, order - Mold Catalog No. - "M"



## CABLE TO BUSBAR (전선 대 부스바)

### TYPE : LJ

JEONOWeld® Tap Connections, cable to horizontal, flat busbar run for most conductors.



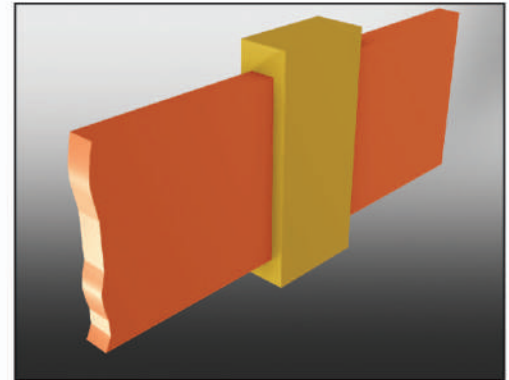
### Concentric Strand Copper Cable to Flat Steel Surface.

Mold Catalog Number	Cable Size		Mold Clamp	Weld Metal
	Bus Bar (In.)	Cable AWG (mm²)		
JLJC-EG2C	1/4 x 1-1/2 and Wider	1/0 (60)	JL-160	#J - 115
JLJC-EG2G		2/0 (70)	JL-160	#J - 115
JLJC-EG2L		3/0 (95)	JL-160	#J - 115
JLJC-EG2Q		4/0 (100)	JL-160	#J - 115
JLJC-EG2V		250 (120)	JL-160	#J - 115
JLJC-EG3A		300 (150)	JL-160	#J - 150
JLJC-EG3D		350 (185)	JL-160	#J - 150
JLJC-EG3Q		500 (240)	JL-160	#J - 200
JLJC-GG2C	3/8 x 1-1/2 and Wider	1/0 (60)	JL-160	#J - 150
JLJC-GG2G		2/0 (70)	JL-160	#J - 150
JLJC-GG2L		3/0 (95)	JL-160	#J - 200
JLJC-GG2Q		4/0 (100)	JL-160	#J - 200
JLJC-GG2V		250 (120)	JL-160	#J - 200
JLJC-GG3A		300 (150)	JL-160	#J - 200
JLJC-GG3D		350 (185)	JL-160	#J - 250
JLJC-GG3Q		500 (240)	JL-160	#J - 250
JLJC-GG4L	1/2 x 1-1/2 and Wider	750 (400)	JL-159	#J-2-150
JLJC-GG4Y		1000 (500)	JL-159	#J-2-200
JLJC-JG2C		1/0 (60)	JL-160	#J - 115
JLJC-JG2G		2/0 (70)	JL-160	#J - 115
JLJC-JG2L		3/0 (95)	JL-160	#J - 150
JLJC-JG2Q		4/0 (100)	JL-160	#J - 150
JLJC-JG2V		250 (120)	JL-160	#J - 200
JLJC-JG3A		300 (150)	JL-160	#J - 200
JLJC-JG3D	1/2 x 1-1/2 and Wider	350 (185)	JL-160	#J - 250
JLJC-JG3Q		500 (240)	JL-159	#J-2-150
JLJC-JG4L		750 (400)	JL-159	#J-2-200
JLJC-JG4Y		1000 (500)	JL-159	#J - 500

## CABLE TO BUSBAR (전선 대 부스바)

### TYPE : BA

JEONOWeld® splice and ell Connections for copper busbar.  
For sizes not listed or applications close-to-the-wall, contact the factory.



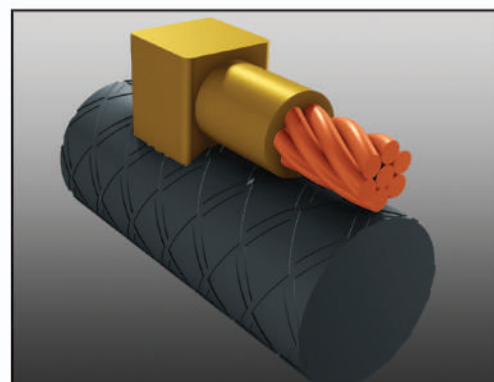
### Concentric Strand Copper Cable to Flat Steel Surface.

Mold Catalog Number	Bus Bar Size (In.)	Mold Clamp	Weld Metal
JBAC-CE	1/8 x 1	JL-160	#J - 90
JBAC-CG	1/8 x 1-1/2	JL-160	#J - 115
JBAC-CH	1/8 x 2	JL-160	#J - 150
JBAC-CK	1/8 x 3	JL-160	#J - 200
JBAC-CM	1/8 x 4	JL-160	#J - 250
JBAC-DE	3/16 x 1	JL-160	#J - 115
JBAC-DH	3/16 x 2	JL-160	#J - 250
JBAC-EE	1/4 x 1	JL-160	#J - 150
JBAC-EF	1/4 x 1-1/4	JL-160	#J - 200
JBAC-EG	1/4 x 1-1/2	JL-160	#J - 250
JBAC-EH	1/4 x 2	JL-160	#J - 2 - 150
JBAC-EJ	1/4 x 2-1/2	JL-160	#J - 2 - 150
JBAD-EK	1/4 x 3	JL-159	#J - 2 - 200
JBAD-EM	1/4 x 4	JL-159	#J - 2 - 250
JBAC-GE	3/8 x 1	JL-160	#J - 250
JBAC-GG	3/8 x 1-1/2	JL-160	#J - 2 - 200
JBAD-GH	3/8 x 2	JL-159	#J - 2 - 250
JBAD-GK	3/8 x 3	JL-159	#J - 3 - 250
JBAD-GM	3/8 x 4	JL-159	#J - 5 - 250
JBAC-JE	1/2 x 1	JL-160	#J - 2 - 250
JBAD-JH	1/2 x 2	JL-159	#J - 3 - 250

## CABLE TO REBAR (전선 대 철근)

### TYPE : RR

Rebar material characteristics and use and location of weld should be considered when selecting connections to rebar.



### Concentric Strand Copper Cable

Mold Catalog Number	Rebar Size	Cable Size AWG (mm²)	Mold Clamp	Weld Metal
JRRA - 521H	4 (13mm)	#6 (16)	JL-160	#J - 90
JRRA - 521L		4 (25)	JL-160	#J - 90
JRRA - 521V		2 (35)	JL-160	#J - 150
JRRA - 521Y		1 (50)	JL-160	#J - 150
JRRC - 522C		1/0 (60)	JL-160	#J - 150
JRRC - 522G		2/0 (70)	JL-160	#J - 150
JRRC - 522L		3/0 (95)	JL-160	#J - 150
JRRC - 522Q		4/0 (100)	JL-160	#J - 150
JRRC - 522V		250 (120)	JL-160	#J - 150
JRRC - 523A		300 (150)	JL-160	#J - 150
JRRC - 523D		350 (185)	JL-160	#J - 150
JRRC - 523Q		500 (240)	JL-160	#J - 250
JRRA - 531H	5 (16mm)	#6 (16)	JL-160	#J - 115
JRRA - 531L		4 (25)	JL-160	#J - 115
JRRA - 531V		2 (35)	JL-160	#J - 150
JRRA - 531Y		1 (50)	JL-160	#J - 150
JRRC - 532C		1/0 (60)	JL-160	#J - 200
JRRC - 532G		2/0 (70)	JL-160	#J - 200
JRRC - 532L		3/0 (95)	JL-160	#J - 200
JRRC - 532Q		4/0 (100)	JL-160	#J - 200
JRRC - 532V		250 (120)	JL-160	#J - 200
JRRC - 533A		300 (150)	JL-160	#J - 200
JRRC - 533D		350 (185)	JL-160	#J - 250
JRRC - 533Q		500 (240)	JL-159	#J-2-150
JRRA - 541H	6 (19mm)	#6 (16)	JL-160	#J - 150
JRRA - 541L		4 (25)	JL-160	#J - 150
JRRA - 541V		2 (35)	JL-160	#J - 200
JRRA - 541Y		1 (50)	JL-160	#J - 200
JRRH - 542C		1/0 (60)	JL-160	#J - 200
JRRH - 542G		2/0 (70)	JL-160	#J - 200
JRRH - 542L		3/0 (95)	JL-160	#J - 200
JRRH - 542Q		4/0 (100)	JL-160	#J - 200
JRRH - 542V		250 (120)	JL-160	#J - 200
JRRH - 543A		300 (150)	JL-160	#J - 250
JRRH - 543D		350 (185)	JL-160	#J - 250
JRRH - 543Q		500 (240)	JL-159	#J-2-200
JRRA - 551L	7 (22mm)	4 (25)	JL-160	#J - 150
JRRA - 551V		2 (35)	JL-160	#J - 200
JRRA - 551Y		1 (50)	JL-160	#J - 200
JRRH - 552C		1/0 (60)	JL-160	#J - 200
JRRH - 552G		2/0 (70)	JL-160	#J - 200
JRRH - 552L		3/0 (95)	JL-160	#J - 200
JRRH - 552Q		4/0 (100)	JL-160	#J - 200
JRRH - 552V		250 (120)	JL-160	#J - 250
JRRH - 553A		300 (150)	JL-160	#J - 250
JRRH - 553D		350 (185)	JL-160	#J - 250
JRRH - 553Q		500 (240)	JL-159	#J-2-200

Mold Catalog Number	Rebar Size	Cable Size AWG (mm²)	Mold Clamp	Weld Metal
JRRA - 561V	8 (25mm)	2 (35)	JL-160	#J - 200
JRRA - 561Y		1 (50)	JL-160	#J - 200
JRRH - 562C		1/0 (60)	JL-160	#J - 200
JRRH - 562G		2/0 (70)	JL-160	#J - 200
JRRH - 562L		3/0 (95)	JL-160	#J - 200
JRRH - 562Q		4/0 (100)	JL-160	#J - 200
JRRH - 562V		250 (120)	JL-160	#J - 250
JRRH - 563A		300 (150)	JL-160	#J - 250
JRRH - 563D		350 (185)	JL-160	#J - 250
JRRH - 563Q		500 (240)	JL-159	#J-2-200
JRRA - 571V	9 (28mm)	2 (35)	JL-160	#J - 200
JRRA - 571Y		1 (50)	JL-160	#J - 200
JRRH - 572C		1/0 (60)	JL-160	#J - 200
JRRH - 572G		2/0 (70)	JL-160	#J - 200
JRRH - 572L		3/0 (95)	JL-160	#J - 200
JRRH - 572Q		4/0 (100)	JL-160	#J - 200
JRRH - 572V		250 (120)	JL-160	#J - 250
JRRH - 573A		300 (150)	JL-159	#J-2-150
JRRH - 573D		350 (185)	JL-159	#J-2-150
JRRH - 573Q		500 (240)	JL-159	#J-2-250
JRRA - 581V	10 (32mm)	2 (35)	JL-160	#J - 250
JRRA - 581Y		1 (50)	JL-160	#J - 250
JRRH - 582C		1/0 (60)	JL-160	#J - 250
JRRH - 582G		2/0 (70)	JL-160	#J - 250
JRRH - 582L		3/0 (95)	JL-160	#J - 250
JRRH - 582Q		4/0 (100)	JL-160	#J - 250
JRRH - 582V		250 (120)	JL-160	#J - 250
JRRH - 583A		300 (150)	JL-159	#J-2-150
JRRH - 583D		350 (185)	JL-159	#J-2-150
JRRH - 583Q		500 (240)	JL-159	#J-2-250
JRRH - 591H	11 (35mm)	#6 (16)	JL-160	#J-200
JRRH - 592G		2/0 (70)	JL-159	#J-2-150
JRRH - 592L		3/0 (95)	JL-159	#J-2-150
JRRH - 592Q		4/0 (100)	JL-159	#J-2-150
JRRH - 593Q		500 (240)	JL-159	#J-2-250
JRRH - 601H	14 (43mm)	#6 (16)	JL-160	#J-250
JRRH - 602G		2/0 (70)	JL-159	#J-2-250
JRRH - 602L		3/0 (95)	JL-159	#J-2-250
JRRH - 602Q		4/0 (100)	JL-159	#J-2-250
JRRH - 603Q		500 (240)	JL-159	#J-3-250
JRRH - 611H	18 (57mm)	#6 (16)	JL-160	#J-250
JRRH - 612G		2/0 (70)	JL-159	#J-2-250
JRRH - 612L		3/0 95	JL-159	#J-2-250
JRRH - 612Q		7/0 (100)	JL-159	#J-2-250
JRRH - 613Q		500 (240)	JL-159	#J-4-200

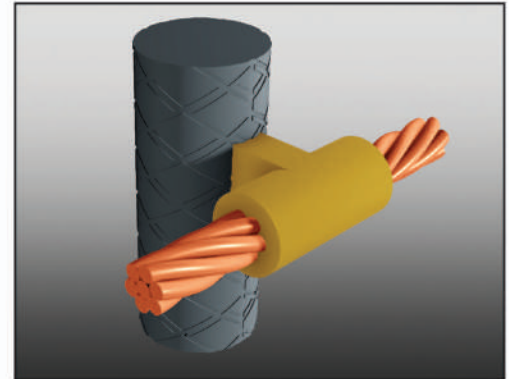
- Refer to Rebar size | 23 page(Reinforcing Bars)



## CABLE TO REBAR (전선 대 철근)

### TYPE : RC

Rebar material characteristics and use and location of weld should be considered when selecting connections to rebar.



### Concentric Strand Copper Cable

Mold Catalog Number	Rebar Size	Cable Size AWG (mm²)	Mold Clamp	Weld Metal
JRCE - 521H	4 (13mm)	#6* (16)	JL-160	#J - 115
JRCE - 521L		4 (25)	JL-160	#J - 115
JRCE - 521V		2 (35)	JL-160	#J - 150
JRCE - 521Y		1 (50)	JL-160	#J - 150
JRCE - 522C		1/0 (60)	JL-160	#J - 150
JRCE - 522G		2/0 (70)	JL-160	#J - 150
JRCE - 522L		3/0 (95)	JL-160	#J - 150
JRCE - 522Q		4/0 (100)	JL-160	#J - 150
JRCE - 522V		250 (120)	JL-160	#J - 150
JRCE - 523A		300 (150)	JL-160	#J - 150
JRCE - 523D	5 (16mm)	350 (185)	JL-160	#J - 150
JRCE - 523Q		500 (240)	JL-160	#J - 250
JRCE - 531H		#6* (16)	JL-160	#J - 115
JRCE - 531L		4 (25)	JL-160	#J - 115
JRCE - 531V		2 (35)	JL-160	#J - 90
JRCE - 531Y		1 (50)	JL-160	#J - 150
JRCE - 532C		1/0 (60)	JL-160	#J - 200
JRCE - 532G		2/0 (70)	JL-160	#J - 200
JRCE - 532L		3/0 (95)	JL-160	#J - 200
JRCE - 532Q		4/0 (100)	JL-160	#J - 200
JRCE - 532V	6 (19mm)	250 (120)	JL-160	#J - 200
JRCE - 533A		300 (150)	JL-160	#J - 200
JRCE - 533D		350 (185)	JL-160	#J - 250
JRCE - 533Q		500 (240)	JL-159	#J-2-150
JRCE - 541H		#6* (16)	JL-160	#J - 150
JRCE - 541L		4 (25)	JL-160	#J - 150
JRCE - 541V		2 (35)	JL-160	#J - 200
JRCE - 541Y		1 (50)	JL-160	#J - 200
JRCE - 542C		1/0 (60)	JL-160	#J - 200
JRCE - 542G		2/0 (70)	JL-160	#J - 200
JRCE - 542L	7 (22mm)	3/0 (95)	JL-160	#J - 200
JRCE - 542Q		4/0 (100)	JL-160	#J - 200
JRCE - 542V		250 (120)	JL-160	#J - 200
JRCE - 543A		300 (150)	JL-160	#J - 250
JRCE - 543D		350 (185)	JL-160	#J - 250
JRCE - 543Q		500 (240)	JL-159	#J-2-200
JRCE - 551L		4 (25)	JL-160	#J - 200
JRCE - 551V		2 (35)	JL-160	#J - 200
JRCE - 551Y		1 (50)	JL-160	#J - 200
JRCE - 552C		1/0 (60)	JL-160	#J - 200
JRCE - 552G	8 (25mm)	2/0 (70)	JL-160	#J - 200
JRCE - 552L		3/0 (95)	JL-160	#J - 200
JRCE - 552Q		4/0 (100)	JL-160	#J - 200
JRCE - 552V		250 (120)	JL-160	#J - 250
JRCE - 553A		300 (150)	JL-160	#J - 250
JRCE - 553D		350 (185)	JL-160	#J - 250
JRCE - 553Q		500 (240)	JL-159	#J-2-200

Mold Catalog Number	Rebar Size	Cable Size AWG (mm²)	Mold Clamp	Weld Metal
JRCE - 561V	8 (25mm)	2 (35)	JL-160	#J - 200
JRCE - 561Y		1 (50)	JL-160	#J - 200
JRCE - 562C		1/0 (60)	JL-160	#J - 200
JRCE - 562G		2/0 (70)	JL-160	#J - 200
JRCE - 562L		3/0 (95)	JL-160	#J - 200
JRCE - 562Q		4/0 (100)	JL-160	#J - 200
JRCE - 562V		250 (120)	JL-160	#J - 250
JRCE - 563A		300 (150)	JL-160	#J - 250
JRCE - 563D		350 (185)	JL-160	#J - 250
JRCE - 563Q		500 (240)	JL-159	#J-2-200
JRCE - 571V	9 (28mm)	2 (35)	JL-160	#J - 200
JRCE - 571Y		1 (50)	JL-160	#J - 200
JRCE - 572C		1/0 (60)	JL-160	#J - 200
JRCE - 572G		2/0 (70)	JL-160	#J - 200
JRCE - 572L		3/0 (95)	JL-160	#J - 250
JRCE - 572Q		4/0 (100)	JL-160	#J - 250
JRCE - 572V		250 (120)	JL-160	#J - 250
JRCE - 573A		300 (150)	JL-159	#J - 2 - 150
JRCE - 573D		350 (185)	JL-159	#J - 2 - 150
JRCE - 573Q		500 (240)	JL-159	#J - 2 - 250
JRCE - 581V	10 (32mm)	2 (35)	JL-160	#J - 250
JRCE - 581Y		1 (50)	JL-160	#J - 250
JRCE - 582C		1/0 (60)	JL-160	#J - 250
JRCE - 582G		2/0 (70)	JL-160	#J - 250
JRCE - 582L		3/0 (95)	JL-160	#J - 250
JRCE - 582Q		4/0 (100)	JL-160	#J - 250
JRCE - 582V		250 (120)	JL-160	#J - 250
JRCE - 583A		300 (150)	JL-159	#J-2-150
JRCE - 583D		350 (185)	JL-159	#J-2-150
JRCE - 583Q		500 (240)	JL-159	#J-2-250
JRCE - 591H	11 (35mm)	#6 (16)	JL-160	#J-250
JRCE - 592G		2/0 (70)	JL-159	#J-2-150
JRCE - 592L		3/0 (95)	JL-159	#J-2-150
JRCE - 592Q		4/0 (100)	JL-159	#J-2-150
JRCE - 593Q		500 (240)	JL-159	#J-2-250
JRCE - 601H	14 (43mm)	#6 (16)	JL-159	#J-2-150
JRCE - 602G		2/0 (70)	JL-159	#J-2-250
JRCE - 602L		3/0 (95)	JL-159	#J-2-250
JRCE - 602Q		4/0 (100)	JL-159	#J-2-250
JRCE - 603Q		500 (240)	JL-159	#J-3-250
JRCE - 611H	18 (57mm)	#6 (16)	JL-159	#J-2-150
JRCE - 612G		2/0 (70)	JL-159	#J-2-250
JRCE - 612L		3/0 95	JL-159	#J-2-250
JRCE - 612Q		7/0 (100)	JL-159	#J-2-250
JRCE - 613Q		500 (240)	JL-159	#J-4-200

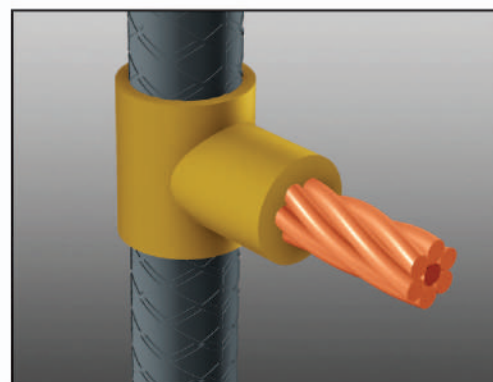
- Refer to Rebar size | 23 page(Reinforcing Bars)



## CABLE TO REBAR (전선 대 철근)

### TYPE : RJ

JEONOWeld® tee tap connection to vertical rebar for most grounding conductors.



## Concentric Strand Copper Cable

Mold Catalog Number	Rebar Size	Cable Size AWG (mm²)	Mold Clamp	Weld Metal
JRJC - 521H	4 (13mm)	6 (16)	JL-160	#J - 115
JRJC - 521L		4 (25)	JL-160	#J - 115
JRJC - 521V		2 (35)	JL-160	#J - 150
JRJC - 521Y		1 (50)	JL-160	#J - 150
JRJC - 522C		1/0 (60)	JL-160	#J - 150
JRJC - 522G		2/0 (70)	JL-160	#J - 150
JRJC - 522L		3/0 (95)	JL-160	#J - 150
JRJC - 522Q		4/0 (100)	JL-160	#J - 150
JRJC - 522V		250 (120)	JL-160	#J - 150
JRJC - 523A		300 (150)	JL-160	#J - 150
JRJC - 523D		350 (185)	JL-160	#J - 150
JRJC - 523Q		500 (240)	JL-160	#J - 250
JRJC - 531H	5 (16mm)	6 (16)	JL-160	#J - 115
JRJC - 531L		4 (25)	JL-160	#J - 115
JRJC - 531V		2 (35)	JL-160	#J - 150
JRJC - 531Y		1 (50)	JL-160	#J - 150
JRJC - 532C		1/0 (60)	JL-160	#J - 200
JRJC - 532G		2/0 (70)	JL-160	#J - 200
JRJC - 532L		3/0 (95)	JL-160	#J - 200
JRJC - 532Q		4/0 (100)	JL-160	#J - 200
JRJC - 532V		250 (120)	JL-160	#J - 200
JRJC - 533A		300 (150)	JL-160	#J - 200
JRJC - 533D		350 (185)	JL-160	#J - 250
JRJC - 533Q		500 (240)	JL-159	#J-2-150
JRJC - 541H	6 (19mm)	6 (16)	JL-160	#J - 150
JRJC - 541L		4 (25)	JL-160	#J - 150
JRJC - 541V		2 (35)	JL-160	#J - 200
JRJC - 541Y		1 (50)	JL-160	#J - 200
JRJC - 542C		1/0 (60)	JL-160	#J - 200
JRJC - 542G		2/0 (70)	JL-160	#J - 200
JRJC - 542L		3/0 (95)	JL-160	#J - 200
JRJC - 542Q		4/0 (100)	JL-160	#J - 200
JRJC - 542V		250 (120)	JL-160	#J - 200
JRJC - 543A		300 (150)	JL-160	#J - 250
JRJC - 543D		350 (185)	JL-160	#J - 250
JRJC - 543Q		500 (240)	JL-159	#J-2-200
JRJE - 551L	7 (22mm)	4 (25)	JL-160	#J - 150
JRJE - 551V		2 (35)	JL-160	#J - 200
JRJE - 551Y		1 (50)	JL-160	#J - 200
JRJE - 552C		1/0 (60)	JL-160	#J - 200
JRJE - 552G		2/0 (70)	JL-160	#J - 200
JRJE - 552L		3/0 (95)	JL-160	#J - 200
JRJE - 552Q		4/0 (100)	JL-160	#J - 200
JRJE - 552V		250 (120)	JL-160	#J - 250
JRJE - 553A		300 (150)	JL-160	#J - 250
JRJE - 553D		350 (185)	JL-160	#J - 250
JRJE - 553Q		500 (240)	JL-159	#J-2-200

Mold Catalog Number	Rebar Size	Cable Size AWG (mm²)	Mold Clamp	Weld Metal
JRJE - 561V	8 (25mm)	2 (35)	JL-160	#J - 200
JRJE - 561Y		1 (50)	JL-160	#J - 200
JRJE - 562C		1/0 (60)	JL-160	#J - 200
JRJE - 562G		2/0 (70)	JL-160	#J - 200
JRJE - 562L		3/0 (95)	JL-160	#J - 200
JRJE - 562Q		4/0 (100)	JL-160	#J - 200
JRJE - 562V		250 (120)	JL-160	#J - 250
JRJE - 563A		300 (150)	JL-160	#J - 250
JRJE - 563D		350 (185)	JL-160	#J - 250
JRJE - 563Q		500 (240)	JL-159	#J-2-200
JRJE - 571V	9 (29mm)	2 (35)	JL-160	#J - 200
JRJE - 571Y		1 (50)	JL-160	#J - 200
JRJE - 572C		1/0 (60)	JL-160	#J - 200
JRJE - 572G		2/0 (70)	JL-160	#J - 200
JRJE - 572L		3/0 (95)	JL-160	#J - 250
JRJE - 572Q		4/0 (100)	JL-160	#J - 250
JRJE - 572V		250 (120)	JL-160	#J - 250
JRJE - 573A		300 (150)	JL-159	#J-2-150
JRJE - 573D		350 (185)	JL-159	#J-2-150
JRJE - 573Q		500 (240)	JL-159	#J-2-250
JRJE - 581V	10 (32mm)	2 (35)	JL-160	#J - 250
JRJE - 581Y		1 (50)	JL-160	#J - 250
JRJE - 582C		1/0 (60)	JL-160	#J - 250
JRJE - 582G		2/0 (70)	JL-160	#J - 250
JRJE - 582L		3/0 (95)	JL-160	#J - 250
JRJE - 582Q		4/0 (100)	JL-160	#J - 250
JRJE - 582V		250 (120)	JL-160	#J - 250
JRJE - 583A		300 (150)	JL-159	#J-2-150
JRJE - 583D		350 (185)	JL-159	#J-2-150
JRJE - 583Q		500 (240)	JL-159	#J-2-250
JRJE - 591H	11 (35mm)	#6 (16)	JL-160	#J-200
JRJE - 592G		2/0 (70)	JL-159	#J-2-150
JRJE - 592L		3/0 (95)	JL-159	#J-2-150
JRJE - 592Q		4/0 (100)	JL-159	#J-2-150
JRJE - 593Q		500 (240)	JL-159	#J-2-250
JRJE - 601H	14 (43mm)	#6 (16)	JL-160	#J-250
JRJE - 602G		2/0 (70)	JL-159	#J-2-250
JRJE - 602L		3/0 (95)	JL-159	#J-2-250
JRJE - 602Q		4/0 (100)	JL-159	#J-2-250
JRJE - 603Q		500 (240)	JL-159	#J-3-250
JRJE - 611H	18 (57mm)	#6 (16)	JL-160	#J-250
JRJE - 612G		2/0 (70)	JL-159	#J-2-250
JRJE - 612L		3/0 95	JL-159	#J-2-250
JRJE - 612Q		7/0 (100)	JL-159	#J-2-250
JRJE - 613Q		500 (240)	JL-159	#J-4-200

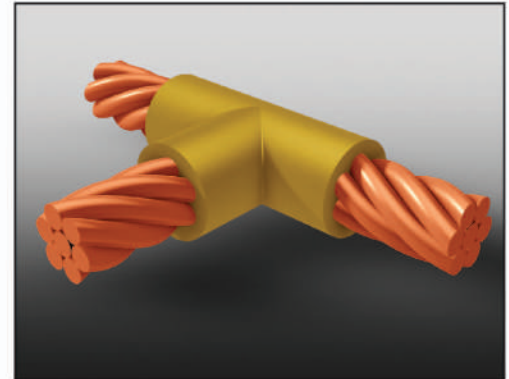
- Refer to Rebar size I 23 page(Reinforcing Bars)



## CABLE TO CABLE (전선 대 전선)

### TYPE : TA

JEONOWeld® Tee connections of Horizontal cables...  
for most conductors including copper



### Concentric Strand Copper Cable

Mold Catalog Number	Cable Size AWG (mm²)		Mold Clamp	Weld Metal
	Run	Tap		
JTAC-1H1H	#6 (16)	#6 (16)	JL-160	#J - 32
JTAC-1L1L	#4 (25)	#4 (25)	JL-160	#J - 32
JTAC-1L1H		#6 (16)	JL-160	#J - 32
JTAC-1V1V	2 (35)	2 (35)	JL-160	#J - 45
JTAC-1V1H		#6 (16)	JL-160	#J - 45
JTAC-1V1L		4 (25)	JL-160	#J - 45
JTAC-1Y1Y	1 (50)	1 (50)	JL-160	#J - 90
JTAC-1Y1V		2 (35)	JL-160	#J - 65
JTAC-1Y1L		4 (25)	JL-160	#J - 45
JTAC-2C2C	1/0 (60)	1/0 (60)	JL-160	#J - 90
JTAC-2C2Y		1 (50)	JL-160	#J - 90
JTAC-2C2V		2 (35)	JL-160	#J - 65
JTAC-2C2L		4 (25)	JL-160	#J - 45
JTAC-2G2G	2/0 (70)	2/0 (70)	JL-160	#J - 115
JTAC-2G2C		1/0 (60)	JL-160	#J - 90
JTAC-2G1Y		1 (50)	JL-160	#J - 90
JTAC-2G1V		2 (35)	JL-160	#J - 65
JTAC-2G1L	3/0 (95)	4 (25)	JL-160	#J - 65
JTAC-2L2L		3/0 (95)	JL-160	#J - 150
JTAC-2L2G		2/0 (70)	JL-160	#J - 115
JTAC-2L2C		1/0 (60)	JL-160	#J - 90
JTAC-2L1Y		1 (50)	JL-160	#J - 90
JTAC-2L1V		2 (35)	JL-160	#J - 90
JTAC-2L1L	4/0 (100)	4 (25)	JL-160	#J - 90
JTAC-2Q2Q		4/0 (100)	JL-160	#J - 150
JTAC-2Q2L		3/0 (95)	JL-160	#J - 150
JTAC-2Q2G		2/0 (70)	JL-160	#J - 115
JTAC-2Q2C		1/0 (60)	JL-160	#J - 90
JTAC-2Q1Y		1 (50)	JL-160	#J - 90
JTAC-2Q1V	250 (120)	2 (35)	JL-160	#J - 90
JTAC-2Q1L		4 (25)	JL-160	#J - 90
JTAC-2V2V		250 (120)	JL-160	#J - 150
JTAC-2V2Q		4/0 (100)	JL-160	#J - 150
JTAC-2V2L		3/0 (95)	JL-160	#J - 150
JTAC-2V1G		2/0 (70)	JL-160	#J - 115
JTAC-2V2C		1/0 (60)	JL-160	#J - 90
JTAC-2V1Y		1 (50)	JL-160	#J - 90
JTAC-2V1V		2 (35)	JL-160	#J - 90
JTAC-2V1L		4 (25)	JL-160	#J - 90
JTAC-3A3A	300 (150)	300 (150)	JL-160	#J - 200
JTAC-3A2V		250 (120)	JL-160	#J - 150
JTAC-3A2Q		4/0 (100)	JL-160	#J - 150
JTAC-3A2L		3/0 (95)	JL-160	#J - 150
JTAC-3A2G		2/0 (70)	JL-160	#J - 115

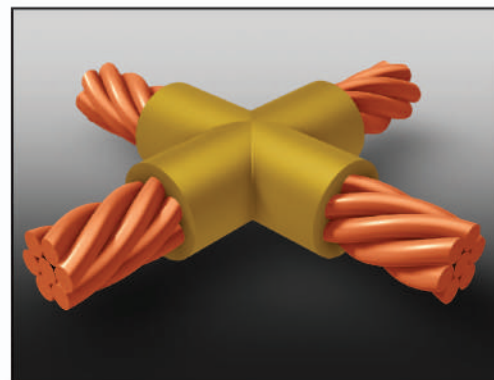
Mold Catalog Number	Cable Size AWG (mm²)		Mold Clamp	Weld Metal
	Run	Tap		
JTAC-3A2G	300 (150)	1/0 (60)	JL-160	#J - 115
JTAC-3A1Y		1 (50)	JL-160	#J - 115
JTAC-3A1V		2 (35)	JL-160	#J - 115
JTAC-3A1L		4 (25)	JL-160	#J - 115
JTAC-3D3D	350 (185)	350 (185)	JL-160	#J - 250
JTAC-3D3A		300 (150)	JL-160	#J - 200
JTAC-3D2V		250 (120)	JL-160	#J - 200
JTAC-3D2Q		4/0 (100)	JL-160	#J - 150
JTAC-3D2L		3/0 (95)	JL-160	#J - 150
JTAC-3D2G		2/0 (70)	JL-160	#J - 150
JTAC-3D2C		1/0 (60)	JL-160	#J - 115
JTAC-3D1Y		1 (50)	JL-160	#J - 115
JTAC-3D1V		2 (35)	JL-160	#J - 115
JTAC-3D1L		4 (25)	JL-160	#J - 115
JTAC-3Q3Q	500 (240)	500 (240)	JL-160	#J - 2-150
JTAC-3Q3D		350 (185)	JL-160	#J - 250
JTAC-3Q3A		300 (150)	JL-160	#J - 250
JTAC-3Q2V		250 (120)	JL-160	#J - 200
JTAC-3Q2Q		4/0 (100)	JL-160	#J - 200
JTAC-3Q2L		3/0 (95)	JL-160	#J - 200
JTAC-3Q2G		2/0 (70)	JL-160	#J - 150
JTAC-3Q2C		1/0 (60)	JL-160	#J - 150
JTAC-3Q1Y		1 (50)	JL-160	#J - 150
JTAC-3Q1V		2 (35)	JL-160	#J - 150
JTAC-3Q1L	600 (300)	4 (25)	JL-160	#J - 150
JTAC-3V3V		600 (300)	JL-159	#J - 2-200
JTAC-3V3Q		500 (240)	JL-159	#J - 2-200
JTAC-3V3D		350 (185)	JL-160	#J - 250
JTAC-3V3A		300 (150)	JL-160	#J - 250
JTAC-3V2V		250 (120)	JL-160	#J - 200
JTAC-3V2Q		4/0 (100)	JL-160	#J - 200
JTAC-3V2L		3/0 (95)	JL-160	#J - 200
JTAC-3V2G		2/0 (70)	JL-160	#J - 200
JTAC-3V2C		1/0 (60)	JL-160	#J - 200
JTAC-3V1Y	600 (300)	1 (50)	JL-160	#J - 150
JTAC-3V1V		2 (35)	JL-160	#J - 150
JTAC-3V1L		4 (25)	JL-160	#J - 150
JTAC-3V1H	600 (300)	6 (16)	JL-160	#J - 150
JTAC-3V4L		750 (400)	JL-159	#J - 2-200
JTAC-4L3V	750 (400)	600 (300)	JL-159	#J - 2-200



## CABLE TO CABLE (전선 대 전선)

### TYPE : XA

JEONOWeld® X connections... for most conductors including copper



### Concentric Strand Copper Cable

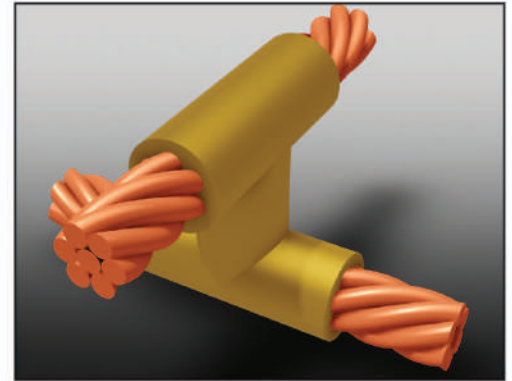
Mold Catalog Number	Cable Size AWG (mm²)		Mold Clamp	Weld Metal
	Run	Tap		
JXAC-1H1H	#6 (10)	#6 (16)	JL-160	#J - 45
JXAC-1L1L	#4 (25)	#4 (25)	JL-160	#J - 45
JXAC-1V1V	2 (35)	2 (35)	JL-160	#J - 65
JXAC-1V1L		4 (25)	JL-160	#J - 65
JXAC-1V1H	#2 (35)	#6 (16)	JL-160	#J - 65
JXAC-1Y1Y	1 (50)	1 (50)	JL-160	#J - 90
JXAC-1Y1V		2 (35)	JL-160	#J - 90
JXAC-1Y1L		4 (25)	JL-160	#J - 90
JXAC-2C2C	1/0 (60)	1/0 (60)	JL-160	#J - 90
JXAC-2C1Y		1 (50)	JL-160	#J - 90
JXAC-2C1V		2 (35)	JL-160	#J - 90
JXAC-2C1L		4 (25)	JL-160	#J - 90
JXAC-2G2G	2/0 (70)	2/0 (70)	JL-160	#J - 150
JXAC-2G2C		1/0 (60)	JL-160	#J - 115
JXAC-2G1Y		1 (50)	JL-160	#J - 115
JXAC-2G1V		2 (35)	JL-160	#J - 115
JXAC-2L2L	3/0 (95)	3/0 (95)	JL-160	#J - 200
JXAC-2L2G		2/0 (70)	JL-160	#J - 150
JXAC-2L2C		1/0 (60)	JL-160	#J - 115
JXAC-2L1Y		1 (50)	JL-160	#J - 115
JXAC-2L1V	4/0 (100)	2 (35)	JL-160	#J - 115
JXAC-2Q2Q		4/0 (100)	JL-160	#J - 200
JXAC-2Q2L		3/0 (95)	JL-160	#J - 200
JXAC-2Q2G		2/0 (70)	JL-160	#J - 150
JXAC-2Q2C		1/0 (50)	JL-160	#J - 150
JXAC-2Q1Y		1 (35)	JL-160	#J - 150
JXAC-2Q1V	250 (120)	2 (25)	JL-160	#J - 115
JXAC-2V2V		250 (120)	JL-160	#J - 200
JXAC-2V2Q		4/0 (100)	JL-160	#J - 200
JXAC-2V2L		3/0 (95)	JL-160	#J - 200
JXAC-2V2G		2/0 (70)	JL-160	#J - 150
JXAC-2V2C		1/0 (50)	JL-160	#J - 150
JXAC-2V1Y		1 (35)	JL-160	#J - 150
JXAC-2V1V		2 (25)	JL-160	#J - 115

Mold Catalog Number	Cable Size AWG (mm²)		Mold Clamp	Weld Metal
	Run	Tap		
JXAC-3A3A	300 (150)	300 (150)	JL-160	#J - 250
JXAC-3A2V		250 (120)	JL-160	#J - 250
JXAC-3A2Q		4/0 (100)	JL-160	#J - 200
JXAC-3A2L		3/0 (95)	JL-160	#J - 200
JXAC-3A2G		2/0 (70)	JL-160	#J - 200
JXAC-3A2C		1/0 (60)	JL-160	#J - 150
JXAC-3A1Y		1 (50)	JL-160	#J - 150
JXAC-3A1V		2 (35)	JL-160	#J - 115
JXAC-3D3D	350 (185)	350 (185)	JL-160	#J - 250
JXAC-3D3A		300 (150)	JL-160	#J - 250
JXAC-3D2V		250 (120)	JL-160	#J - 250
JXAC-3D2Q		4/0 (100)	JL-160	#J - 200
JXAC-3D2L		3/0 (95)	JL-160	#J - 200
JXAC-3D2G		2/0 (70)	JL-160	#J - 200
JXAC-3D2C		1/0 (60)	JL-160	#J - 200
JXAC-3D1Y		1 (50)	JL-160	#J - 200
JXAC-3D1V	500 (240)	2 (35)	JL-160	#J - 150
JXAC-3Q3Q		500 (240)	JL-160	#J - 2-250
JXAC-3Q3D		350 (185)	JL-160	#J - 2-200
JXAC-3Q3A		300 (150)	JL-160	#J - 2-200
JXAC-3Q2V		250 (120)	JL-160	#J - 2-150
JXAC-3Q2Q		4/0 (100)	JL-160	#J - 2-150
JXAC-3Q2L		3/0 (95)	JL-160	#J - 2-150
JXAC-3Q2G		2/0 (70)	JL-160	#J - 250
JXAC-3Q2C	600 (300)	1/0 (60)	JL-160	#J - 250
JXAC-3Q1Y		1 (50)	JL-160	#J - 250
JXAC-3Q1V		2 (35)	JL-160	#J - 200
JXAC-3V4L		750 (400)	JL-159	#J - 4-200
JXAC-3V3V		600 (300)	JL-159	#J - 3-250
JXAC-3V3Q		500 (240)	JL-160	#J - 2-250
JXAC-3V3D		350 (180)	JL-160	#J - 2-250
JXAC-3V3A		300 (150)	JL-160	#J - 2-200
JXAC-3V2V	750 (400)	250 (120)	JL-160	#J - 2-200
JXAC-3V2Q		4/0 (100)	JL-160	#J - 2-150
JXAC-3V2L		3/0 (95)	JL-160	#J - 2-150
JXAC-3V2G		2/0 (70)	JL-160	#J - 2-150
JXAC-3V2C		1/0 (60)	JL-160	#J - 2-150
JXAC-3V1Y		1 (50)	JL-160	#J - 250
JXAC-3V1V		2 (35)	JL-160	#J - 250
JXAC-3V1L		4 (25)	JL-160	#J - 250
JXAC-3V1H		6 (16)	JL-160	#J - 200
JXAC-4L4L		750 (400)	JL-159	#J - 4-200
JXAC-4L3V		600 (300)	JL-159	#J - 4-200

## CABLE TO CABLE (전선 대 전선)

### TYPE : XB

For Most cables including copper, coppeweld and steel.  
The cables are not cut.



### Concentric Strand Copper Cable

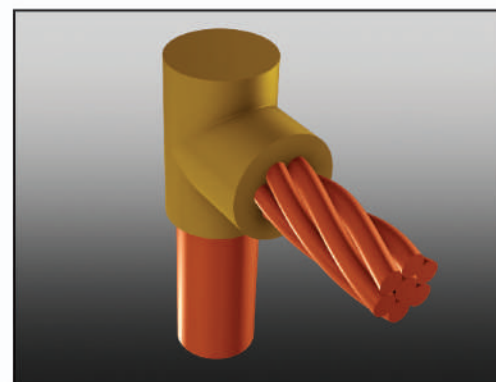
Mold Catalog Number	Cable Size AWG (mm²)		Mold Clamp	Weld Metal
	Run	Tap		
JXBC-1H1H	#6 (16)	#6 (16)	JL-160	#J - 65
JXBC-1L1L	#4 (25)	#4 (25)	JL-160	#J - 65
JXBC-1V1V	2 (35)	2 (35)	JL-160	#J - 115
JXBC-1V1L		4 (25)	JL-160	#J - 90
JXBC-1V1H	#2 (35)	#6 (16)	JL-160	#J - 90
JXBC-1Y1Y	1 (50)	1 (50)	JL-160	#J - 150
JXBC-1Y1V		2 (35)	JL-160	#J - 150
JXBC-1Y1L		4 (25)	JL-160	#J - 115
JXBM-2C2C	1/0 (60)	1/0 (60)	JL-160	#J - 150
JXBM-2C1Y		1 (50)	JL-160	#J - 150
JXBM-2C1V		2 (35)	JL-160	#J - 115
JXBM-2C1L		4 (25)	JL-160	#J - 115
JXBM-2G2G	2/0 (70)	2/0 (70)	JL-160	#J - 200
JXBM-2G2C		1/0 (60)	JL-160	#J - 200
JXBM-2G1Y		1 (50)	JL-160	#J - 150
JXBM-2G1V	3/0 (95)	2 (35)	JL-160	#J - 150
JXBM-2L2L		3/0 (95)	JL-160	#J - 250
JXBM-2L2G		2/0 (70)	JL-160	#J - 200
JXBM-2L2C		1/0 (60)	JL-160	#J - 200
JXBM-2L1Y		1 (50)	JL-160	#J - 200
JXBM-2L1V		2 (35)	JL-160	#J - 150
JXBM-2Q2Q	4/0 (100)	4/0 (100)	JL-160	#J - 250
JXBM-2Q2L		3/0 (95)	JL-160	#J - 250
JXBM-2Q2G		2/0 (70)	JL-160	#J - 200
JXBM-2Q2C		1/0 (60)	JL-160	#J - 200
JXBM-2Q1Y		1 (50)	JL-160	#J - 200
JXBM-2Q1V		2 (35)	JL-160	#J - 150
JXBM-2V2V	250 (120)	250 (120)	JL-159	#J - 2-150
JXBM-2V2Q		4/0 (100)	JL-159	#J - 2-150
JXBM-2V2L		3/0 (95)	JL-159	#J - 2-150
JXBM-2V2G		2/0 (70)	JL-160	#J - 250
JXBM-2V2C		1/0 (60)	JL-160	#J - 250
JXBM-2V1Y		1 (50)	JL-160	#J - 250
JXBM-2V1V		2 (35)	JL-160	#J - 150

Mold Catalog Number	Cable Size AWG (mm²)		Mold Clamp	Weld Metal
	Run	Tap		
JXBM-3A3A	300 (150)	300 (150)	JL-159	#J - 2-200
JXBM-3A2V		250 (120)	JL-159	#J - 2-200
JXBM-3A2Q		4/0 (100)	JL-159	#J - 2-150
JXBM-3A2L		3/0 (95)	JL-159	#J - 2-150
JXBM-3A2G		2/0 (70)	JL-160	#J - 250
JXBM-3A2C		1/0 (60)	JL-160	#J - 250
JXBM-3A1Y		1 (50)	JL-160	#J - 250
JXBM-3A1V		2 (35)	JL-160	#J - 200
JXBM-3D3D	350 (185)	350 (185)	JL-159	#J - 500
JXBM-3D3A		300 (150)	JL-159	#J - 500
JXBM-3D2V		250 (120)	JL-159	#J - 2-250
JXBM-3D2Q		4/0 (100)	JL-159	#J - 2-250
JXBM-3D2L		3/0 (95)	JL-159	#J - 2-200
JXBM-3D2G		2/0 (70)	JL-159	#J - 2-150
JXBM-3D2C		1/0 (60)	JL-160	#J - 250
JXBM-3D1Y		1 (50)	JL-160	#J - 250
JXBM-3D1V		2 (35)	JL-160	#J - 200
JXBM-3Q3Q	500 (240)	500 (240)	JL-159	#J - 3-250
JXBM-3Q3D		350 (185)	JL-159	#J - 3-200
JXBM-3Q3A		300 (150)	JL-159	#J - 3-200
JXBM-3Q2V		250 (120)	JL-159	#J - 2-250
JXBM-3Q2Q		4/0 (100)	JL-159	#J - 2-250
JXBM-3Q2L		3/0 (95)	JL-159	#J - 2-250
JXBM-3Q2G		2/0 (70)	JL-159	#J - 2-200
JXBM-3Q2C		1/0 (60)	JL-159	#J - 2-200
JXBM-3Q1Y	600 (300)	1 (50)	JL-159	#J - 2-150
JXBM-3Q1V		2 (35)	JL-160	#J - 250
JXBM-3V4L		750 (400)	JL-159	#J - 4-250
JXBM-3V3V		600 (300)	JL-159	#J - 4-250
JXBM-3V3Q		500 (240)	JL-159	#J - 3-250
JXBM-3V3D		350 (185)	JL-159	#J - 3-250
JXBM-3V3A		300 (150)	JL-159	#J - 3-200
JXBM-3V2V		250 (120)	JL-159	#J - 3-200
JXBM-3V2Q	750 (400)	4/0 (100)	JL-159	#J - 2-250
JXBM-3V2L		3/0 (95)	JL-159	#J - 2-250
JXBM-3V2G		2/0 (70)	JL-159	#J - 2-200
JXBM-3V2C		1/0 (60)	JL-159	#J - 2-200
JXBM-3V1Y		1 (50)	JL-159	#J - 2-150
JXBM-3V1V		2 (35)	JL-159	#J - 2-150
JXBM-4L4L		750 (400)	JL-159	#J - 4-250
JXBM-4L3V		600 (300)	JL-159	#J - 4-250



## CABLE TO GROUND ROD (전선 대 접지봉) TYPE : GR

JEONOWeld® ground rod connections are available for most grounding conductors including copper, Copperweld and steel, as well as for most types of ground rods including copper clad and steel (stainless, stainless clad and galvanized).



### Concentric Strand Copper Cable

Mold Catalog Number			Rod Size (In.)	Cable size AWG (mm²)	Mold Clamp	Weld Metal
Column ①	Column ②	Column ③				
JGRC-141L	JGRC-151L	JGRC-131L	1/2"	#4 (25)	JL-160	#J-90
JGRC-141V	JGRC-151V	JGRC-131V		2 (35)	JL-160	#J-90
JGRC-141Y	JGRC-151Y	JGRC-131Y		1 (50)	JL-160	#J-90
JGRC-142C	JGRC-152C	JGRC-132C		1/0 (60)	JL-160	#J-90
JGRC-142G	JGRC-152G	JGRC-132G		2/0 (70)	JL-160	#J-90
JGRC-142L	JGRC-152L	JGRC-132L		3/0 (95)	JL-160	#J-90
JGRC-142Q	JGRC-152Q	JGRC-132Q		4/0 (100)	JL-160	#J-90
JGRC-142V	JGRC-152V	JGRC-132V		250 (120)	JL-160	#J-90
JGRC-143A	JGRC-153A	JGRC-133A		300 (150)	JL-160	#J-115

Mold Catalog Number		Rod Size (In.)	Cable size AWG (mm²)	Mold Clamp	Weld Metal
Column ④	Column ⑤				
JGRC-161L	JGRC-311L	5/8"	#4 (25)	JL-160	#J-90
JGRC-161V	JGRC-311V		2 (35)	JL-160	#J-90
JGRC-161Y	JGRC-311Y		1 (50)	JL-160	#J-90
JGRC-162C	JGRC-312C		1/0 (60)	JL-160	#J-90
JGRC-162G	JGRC-312G		2/0 (70)	JL-160	#J-90
JGRC-162L	JGRC-312L		3/0 (95)	JL-160	#J-90
JGRC-162Q	JGRC-312Q		4/0 (100)	JL-160	#J-90
JGRC-162V	JGRC-312V		250 (120)	JL-160	#J-90
JGRC-163A	JGRC-313A		300 (150)	JL-160	#J-115
JGRC-163D	JGRC-313D	3/4"	350 (185)	JL-160	#J-115
JGRC-163Q	JGRC-313Q		500 (240)	JL-160	#J-150
JGRC-181L	JGRC-331L		#4 (25)	JL-160	#J-90
JGRC-181V	JGRC-331V		2 (35)	JL-160	#J-90
JGRC-181Y	JGRC-331Y		1 (50)	JL-160	#J-90
JGRC-182C	JGRC-332C		1/0 (60)	JL-160	#J-90
JGRC-182G	JGRC-332G		2/0 (70)	JL-160	#J-90
JGRC-182L	JGRC-332L		3/0 (95)	JL-160	#J-90
JGRC-182Q	JGRC-332Q		4/0 (100)	JL-160	#J-90
JGRC-182V	JGRC-332V	1"	250 (120)	JL-160	#J-90
JGRC-183A	JGRC-333A		300 (150)	JL-160	#J-115
JGRC-183D	JGRC-333D		350 (185)	JL-160	#J-115
JGRC-183Q	JGRC-333Q		500 (240)	JL-160	#J-150
JGRC-184L	JGRC-334L		750 (400)	JL-160	#J-250
JGRC-221L	JGRC-371L		4 (25)	JL-160	#J-150
JGRC-221V	JGRC-371V		2 (35)	JL-160	#J-150
JGRC-222Y	JGRC-371Y		1 (50)	JL-160	#J-150
JGRC-222C	JGRC-372C		1/0 (60)	JL-160	#J-150
JGRC-222G	JGRC-372G		2/0 (70)	JL-160	#J-150
JGRC-222L	JGRC-372L		3/0 (95)	JL-160	#J-150
JGRC-222Q	JGRC-372Q		4/0 (100)	JL-160	#J-150
JGRC-222V	JGRC-372V		250 (120)	JL-160	#J-150
JGRC-223A	JGRC-373A		300 (150)	JL-160	#J-200
JGRC-223D	JGRC-373D		350 (185)	JL-160	#J-200
JGRC-223Q	JGRC-373Q		500 (240)	JL-160	#J-200
JGRC-224L	JGRC-374L		750 (400)	JL-160	#J-250
JGRC-224Y	JGRC-374Y		1000 (500)	JL-159	#J-2-150

### 1/2" NOMINAL SIZE GROUND RODS USE...

#### Column ①

1/2" steel rods" or 1/2" sectional copper clad rods with a 9/16" rolled thread,

#### Column ②

1/2" plain (unthreaded) copper clad rod,

#### Column ③

1/2" sectional copper clad rods with 1/2" rolled threads,

### 5/8" NOMINAL SIZE GROUND RODS USE...

#### Column ④

Copper clad sectional (threaded) or plain rods,

#### Column ⑤

Steel rods (full size),\*

\*Stainless, stainless clad, galvanized, etc.

### 3/4" and 1" NOMINAL SIZE GROUND RODS USE...

#### Column ④

Copper clad sectional (threaded) or plain rods,

#### Column ⑤

Steel rods (full size),\*

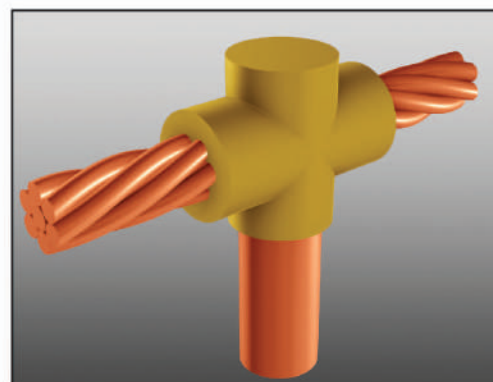
\*Stainless, stainless clad, galvanized, etc.



## CABLE TO GROUND ROD (전선 대 접지봉)

### TYPE : GT

JEONOWeld® ground rod connections are available for most grounding conductors including copper, Copperweld and steel, as well as for most types of ground rods including copper clad and steel (stainless, stainless clad and galvanized).



### Concentric Strand Copper Cable

Mold Catalog Number			Rod Size (In.)	Cable size AWG (mm²)	Mold Clamp	Weld Metal
Column ①	Column ②	Column ③				
JGTC-141L	JGTC-151L	JGTC-131L	1/2"	#4 (25)	JL-160	#J-90
JGTC-141V	JGTC-151V	JGTC-131V		2 (35)	JL-160	#J-90
JGTC-141Y	JGTC-151Y	JGTC-131Y		1 (50)	JL-160	#J-90
JGTC-142C	JGTC-152C	JGTC-132C		1/0 (60)	JL-160	#J-90
JGTC-142G	JGTC-152G	JGTC-132G		2/0 (70)	JL-160	#J-90
JGTC-142L	JGTC-152L	JGTC-132L		3/0 (95)	JL-160	#J-115
JGTC-142Q	JGTC-152Q	JGTC-132Q		4/0 (100)	JL-160	#J-115
JGTC-142V	JGTC-152V	JGTC-132V		250 (120)	JL-160	#J-150
JGTC-143A	JGTC-153A	JGTC-133A		300 (150)	JL-160	#J-200

Mold Catalog Number		Rod Size (In.)	Cable size AWG (mm²)	Mold Clamp	Weld Metal
Column ④	Column ⑤				
JGTC-161L	JGTC-311L	5/8"	#4 (25)	JL-160	#J-90
JGTC-161V	JGTC-311V		2 (35)	JL-160	#J-90
JGTC-161Y	JGTC-311Y		1 (50)	JL-160	#J-90
JGTC-162C	JGTC-312C		1/0 (60)	JL-160	#J-90
JGTC-162G	JGTC-312G		2/0 (70)	JL-160	#J-115
JGTC-162L	JGTC-312L		3/0 (95)	JL-160	#J-115
JGTC-162Q	JGTC-312Q		4/0 (100)	JL-160	#J-115
JGTC-162V	JGTC-312V		250 (120)	JL-160	#J-150
JGTC-163A	JGTC-313A		300 (150)	JL-160	#J-200
JGTC-163D	JGTC-313D	3/4"	350 (180)	JL-160	#J-200
JGTC-163Q	JGTC-313Q		500 (240)	JL-160	#J-250
JGTC-181L	JGTC-331L		#4 (25)	JL-160	#J-90
JGTC-181V	JGTC-331V		2 (35)	JL-160	#J-90
JGTC-181Y	JGTC-331Y		1 (50)	JL-160	#J-115
JGTC-182C	JGTC-332C		1/0 (60)	JL-160	#J-115
JGTC-182G	JGTC-332G		2/0 (70)	JL-160	#J-115
JGTC-182L	JGTC-332L		3/0 (95)	JL-160	#J-115
JGTC-182Q	JGTC-332Q		4/0 (100)	JL-160	#J-115
JGTC-182V	JGTC-332V	1"	250 (120)	JL-160	#J-150
JGTC-183A	JGTC-333A		300 (150)	JL-160	#J-200
JGTC-183D	JGTC-333D		350 (180)	JL-160	#J-200
JGTC-183Q	JGTC-333Q		500 (240)	JL-160	#J-250
JGTC-184L	JGTC-334L		750 (400)	JL-159	#J-2-200
JGTC-221L	JGTC-371L		4 (25)	JL-160	#J-150
JGTC-221V	JGTC-371V		2 (35)	JL-160	#J-150
JGTC-222Y	JGTC-371Y		1 (50)	JL-160	#J-150
JGTC-222C	JGTC-372C		1/0 (60)	JL-160	#J-150
JGTC-222G	JGTC-372G		2/0 (70)	JL-160	#J-150
JGTC-222L	JGTC-372L		3/0 (95)	JL-160	#J-150
JGTC-222Q	JGTC-372Q		4/0 (100)	JL-160	#J-150
JGTC-222V	JGTC-372V		250 (120)	JL-160	#J-200
JGTC-223A	JGTC-373A		300 (150)	JL-160	#J-200
JGTC-223D	JGTC-373D		350 (180)	JL-160	#J-200
JGTC-223Q	JGTC-373Q		500 (240)	JL-160	#J-250
JGTC-224L	JGTC-374L		750 (400)	JL-160	#J-2-200
JGTC-224Y	JGTC-374Y		1000 (500)	JL-159	#J-500

### 1/2" NOMINAL SIZE GROUND RODS USE...

#### Column ①

1/2" steel rods\* or 1/2" sectional copper clad rods with a 9/16" rolled thread,

#### Column ②

1/2" plain (unthreaded) copper clad rod,

#### Column ③

1/2" sectional copper clad rods with 1/2" rolled threads,

### 5/8" NOMINAL SIZE GROUND RODS USE...

#### Column ④

Copper clad sectional (threaded) or plain rods,

#### Column ⑤

Steel rods (full size),\*

\*Stainless, stainless clad, galvanized, etc.

### 3/4" and 1" NOMINAL SIZE GROUND RODS USE...

#### Column ④

Copper clad sectional (threaded) or plain rods,

#### Column ⑤

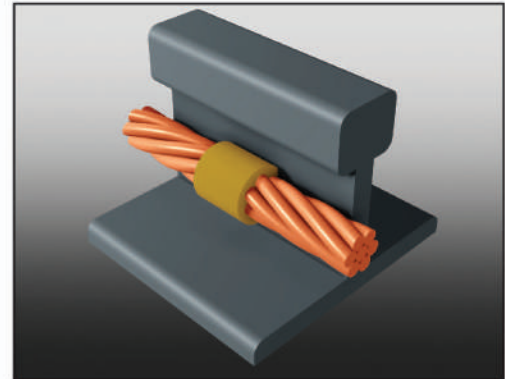
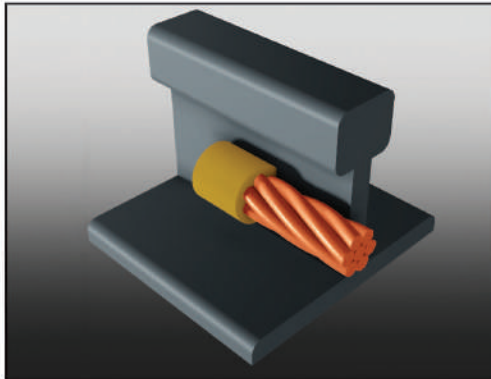
Steel rods (full size),\*

\*Stainless, stainless clad, galvanized, etc.

†Suggested procedure for welding a continuous cable 500 and larger to a ground rod.

## CABLE TO RAIL OR BEAM (전선 대 레일, 빔)

JEONOWeld® Connections for grounding cable to rail fillet of 40lbs. and larger rails or beams for most types of cable Including copper, Copperweld and steel.



**TYPE : RX**  
Cable tap to rail fillet

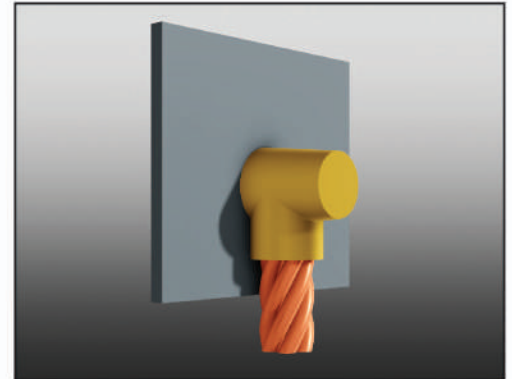
Mold Catalog Number	Cable size AWG (mm <sup>2</sup> )	Mold Clamp	Weld Metal
JRXR-1V	2 (35)	JL-160	#J-65
JRXR-1Y	1 (50)	JL-160	#J-90
JRXR-2G	2/0 (70)	JL-160	#J-115
JRXR-2L	3/0 (95)	JL-160	#J-150
JRXR-2Q	4/0 (100)	JL-160	#J-150
JRXR-2V	250 (120)	JL-160	#J-150
JRXR-3A	300 (150)	JL-160	#J-150

**TYPE : RY**  
Cable tap to rail fillet

Mold Catalog Number	Cable size AWG (mm <sup>2</sup> )	Mold Clamp	Weld Metal
JRYR-1V	2 (35)	JL-160	#J-65
JRYR-1Y	1 (50)	JL-160	#J-90
JRYR-2G	2/0 (70)	JL-160	#J-115
JRYR-2L	3/0 (95)	JL-160	#J-150
JRYR-2V	250 (120)	JL-160	#J-150
JRYR-3A	300 (150)	JL-160	#J-150

**CABLE TO STEEL (전선 대 철판)**
**TYPE : VB**

JEONOWeld tap connection to vertical steel  
for most grounding conductor


**Concentric Strand Copper Cable to Flat Steel Surface**

Mold Catalog Number	Cable Size AWG (mm <sup>2</sup> )	Mold Clamp	Weld Metal
JVBA-1H	#6 (16)	JL-160	#J-45
JVBA-1L	4 (25)	JL-160	#J-65
JVBA-1V	2 (35)	JL-160	#J-65
JVBA-1Y	1 (50)	JL-160	#J-90
JVBA-2C	1/0 (60)	JL-160	#J-115
JVBA-2G	2/0 (70)	JL-160	#J-115
JVBA-2L	3/0 (95)	JL-160	#J-115
JVBA-2Q	4/0 (100)	JL-160	#J-150
JVBA-2V	250 (120)	JL-160	#J-150
JVBA-3A	300 (150)	JL-160	#J-200
JVBA-3D	350 (185)	JL-160	#J-200
JVBA-3Q	500 (240)	JL-160	#J-250
JVBA-4L	750 (400)	JL-159	#J-2-150
JVBA-4Y	1000 (500)	JL-159	#J-2-200



## TECHNICAL INFORMATION REFERENCE DATA (기술자료)

### GROUND RODS (접지봉)

Nominal Size	Material	Type	Thread Size	Body Dia. (Inches)
1/2"	Copperclad	Sectional	9/16"	.505
	Steel*	Plain	—	.500
	Copperclad	Plain	—	.475
	Copperclad	Sectional	1/2"	.447
5/8"	Copperclad	Sectional	5/8"	.563
	Steel*	Plain	—	.625
	Copperclad	Plain	—	.563
3/4"	Copperclad	Sectional	3/4"	.682
	Steel*	Plain	—	.750
	Copperclad	Plain	—	.682
1"	Copperclad	Sectional	1"	.914
	Steel*	Plain	—	1.00
	Copperclad	Plain	—	.914

\* Plain steel, stainless steel, stainless clad rods or galvanized steel.

### REINFORCING BARS (철근)

Rebar Size	Nominal Dimensions		Equivalent copper sizes*
	Dia. (inches)	Cross-Sectional Area-Sq.Inches	
3	.375	.11	#9 AWG
4	.500	.20	7
5	.625	.31	5
6	.750	.44	3
7	.875	.60	2
8	1.000	.79	1
9	1.128	1.00	1/0
10	1.270	1.27	2/0
11	1.410	1.56	3/0
14	1.693	2.25	250Kcmil
18	2.257	4.0	450

\* Based on 8% IACS, rounded to next higher commercial copper size.

### CAST IRON PIPE – CLASS A THRU D (주철관)

AWWA Specification 1908, ASA A21.2 Class 100 - 250.

Nominal Size (Inches)	Actual O.D. (Inches)	Nominal Size (Inches)	Actual O.D. (Inches)
4	4.80 to 5.00	24	25.80 to 26.30
6	6.90 to 7.10	30	31.70 to 32.70
8	9.05 to 9.30	36	38.00 to 39.20
10	11.10 to 11.40	42	44.20 to 45.60
12	13.20 to 13.50	48	50.50 to 52.00
14	15.30 to 15.70	54	56.70 to 58.40
16	17.40 to 17.80	60	62.80 to 64.80
18	19.50 to 19.90	72	75.30 to 76.90
20	21.60 to 22.10	84	87.50 to 88.50

## HARD-DRAWN ALUMINIUM STRANDED WIRE FOR ELECTRICAL PURPOSE(HASC) 전기용 경 알루미늄연선

NOMINAL SECTIONAL AREA (mm <sup>2</sup> )	NUMBER & DIA OF WIRE No./mm	CALCULATED SECTIONAL AREA mm <sup>2</sup>	OVERALL DIAMETER mm	MAX. CONDUCTOR RESISTANCE AT 20°C Ω/km	APPROX WEIGHT kg/km	MIN. TENSILE FORCE KN	STANDARD LENGTH m
1260	91/4.2	1260.75	46.2	0.0230	3499	179950	600
980	91/3.7	978.44	40.7	0.0297	2716	142200	600
850	61/4.2	845.12	37.8	0.0342	2334	120620	1300
660	61/3.7	655.88	33.3	0.0441	1812	95320	1300
510	37/4.2	512.61	29.4	0.0563	1413	73160	1300
400	37/3.7	397.83	25.9	0.0726	1097	57760	1300
300	37/3.2	297.57	22.4	0.0969	820.1	43440	1500
240	19/4.0	238.76	20.0	0.120	654.5	34230	1300
200	19/3.7	204.29	18.5	0.140	559.8	29710	1300
150	19/3.2	152.81	16.0	0.188	418.7	22260	1500
95	7/4.2	96.98	12.6	0.295	264.9	13830	1000
55	7/3.2	56.30	9.6	0.507	153.8	8220	1000
38	7/2.6	37.17	7.8	0.769	101.5	5650	1800
30	7/2.3	29.08	6.9	0.984	79.40	4600	1800

NOMINAL SECTIONAL AREA (mm <sup>2</sup> )	NUMBER & DIA OF WIRE No./mm	CALCULATED SECTIONAL AREA mm <sup>2</sup>	OVERALL DIAMETER mm	MAX. CONDUCTOR RESISTANCE AT 20°C Ω/km	APPROX WEIGHT kg/km	MIN. TENSILE FORCE KN	STANDARD LENGTH m
1500	91/4.58	1499.21	50.4	0.0193	4143.9	240.00	600
1400	91/4.43	1402.62	48.7	0.0207	3866.9	224.00	600
1250	91/4.18	1248.77	46.0	0.0231	3452.60	200.00	600
1120	91/3.96	1120.78	43.05	0.0258	3095.5	179.20	600
1000	61/4.57	1000.58	41.1	0.0289	2759.2	160.00	600
900	61/4.33	898.25	39.0	0.0321	2483.3	144.00	600
800	61/4.09	801.43	36.8	0.0361	2207.4	128.00	1300
710	61/3.85	710.14	34.6	0.0407	1959.1	113.60	1300
630	61/3.63	631.30	32.6	0.0458	1738.3	100.80	1300
560	37/4.39	560.04	30.7	0.0515	1542.9	89.60	1300
500	37/4.15	500.48	29.0	0.0577	1377.6	80.00	1300
450	37/3.94	451.11	27.5	0.0641	1239.8	72.00	1300
400	37/3.71	399.98	26.0	0.0721	1102.0	64.00	1300
315	37/3.29	314.55	23.0	0.0916	867.9	51.97	1300
250	19/4.09	249.63	20.5	0.1151	687.1	40.00	1300
200	19/3.66	199.90	18.3	0.1439	549.7	32.00	1300
160	19/3.27	159.57	16.4	0.1798	439.8	26.40	1300
125	19/2.89	124.63	14.5	0.2302	343.6	21.25	1500
100	19/2.59	100.10	12.9	0.2877	274.8	17.00	1500
63	7/3.39	63.18	10.2	0.4545	172.3	10.39	1000
40	7/2.70	40.08	8.09	0.7158	109.4	6.80	1000
25	7/2.13	24.94	6.40	0.1453	68.4	4.50	1800
16	7/1.71	16.08	5.12	0.7896	43.8	3.04	1800
10	7/1.35	10.02	4.05	0.8633	27.4	1.95	1800

## ANNEALED COPPER STRANDED WIRE FOR ELECTRICAL PURPOSE(AS) (전기용 연동 연선)

NOMINAL SECTIONAL AREA (mm²)	AWG (MCM)	NUMBER & DIA OF WIRE No./mm	CALCUIATED AREA mm²	OVERALL DIAMETER mm	MAX. CONDUCTOR RESISTANCE AT 20°C Ω/km	APPROX WEIGHT kg/km	STANDARD LENGTH m
1,000	2,000kcmil	127/3.20	1021.39	41.60	0.0176	9439.86	300
800	1,750kcmil	127/2.85	810.18	37.05	0.0221	7481.70	300
630	1,500kcmil	127/2.52	633.42	32.76	0.0283	5854.30	300
500	1,000kcmil	61/3.20	490.59	28.80	0.0366	4470.04	300
400	750kcmil	61/2.85	389.14	25.65	0.0470	3549.98	300
300	600kcmil	61/2.52	304.24	22.68	0.0601	2775.72	300
240	500kcmil	61/2.52	242.54	20.25	0.0754	2211.04	300
185	350kcmil	37/2.52	184.54	17.64	0.0991	1671.85	500
150	300kcmil	37/2.52	147.11	15.75	0.124	1334.92	600
120	250kcmil	37/2.03	119.75	14.21	0.153	1084.59	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
6	#10	7/1.04	5.95	3.12	3.08	53.38	500
4	#12	7/0.85	3.97	2.55	4.61	35.64	500
2.5	#14	7/0.67	2.47	2.01	7.41	22.14	500
1.5	#16	7/0.53	1.54	1.59	12.1	13.85	500
1	#18	7/0.40	0.89	1.20	18.1	7.90	500
0.75	#20	7/0.37	0.752	1.11	24.5	6.84	500
0.5	#22	7/0.32	0.56	0.96	36.0	5.09	500

## 0.6/1kV TFR-GV, TRY FRAME-RETARDANT INSULATED CABLE FOR GROUNDING (난연 접지 비닐절연 전선)

CONDUCTOR			NOMINAL INSULATION THICKNESS mm	APPROX. OVERALL DIAMETER mm	MAX. CONDUCTOR RESISTANCE AT 20°C Ω/km	TEST VOLTAGE V/5min	APPROX WEIGHT kg/km	STANDARD LENGTH m
NOMINAL SECTIONAL AREA (mm²)	NUMBER & DIAMETER OF WIRE No./mm	OUTER DIAMETER mm						
1.5	7/0.53	1.59	2.2	6.5	12.1	3500	65	300
2.5	7/0.67	2.01		7.0	7.41		80	
4	7/0.85	2.55		8.0	4.61		105	
6	7/1.04	3.12	2.4	8.5	3.08		135	
10	7/1.35	4.05		9.5	1.83		185	
16	C.C.	4.7		10.0	1.15		240	
25	C.C.	5.9	2.6	12.0	0.727		350	
35	C.C.	6.9		13.0	0.524		440	
50	C.C.	8.1		14.5	0.387		615	
70	C.C.	9.8	2.8	16.0	0.268		800	
95	C.C.	11.4		18.5	0.193		1080	
120	C.C.	12.9		20.0	0.153		1330	
150	C.C.	14.4	3.4	22.0	0.124		1640	
185	C.C.	15.9	3.7	25.0	0.0991		2040	200
240	C.C.	18.3	4.0	28.0	0.0754		2595	
300	C.C.	20.5	4.3	30.0	0.0601		3235	
400	C.C.	23.2	4.6	34.0	0.0470		4200	150
500	C.C.	26.4	4.9	38.0	0.0366		5060	
630	C.C.	30.2	5.0	42.0	0.0283		6740	

※CC : 원형압축



## STEEL PIPE SIZES (스틸 파이프 사이즈)

STANDARD WEIGHT (SCHEDULE 40) | ASTM A120 - 73  
ANSI B36. 10 - 1970

Nominal Size (Inches)	O.D. Inches	Wall Thickness Inches	JEONOWeld® Mold Code
1	1.315	.133	1
1 1/4	1.660	.140	1.25
1 1/2	1.900	.145	1.50
2	2.375	.154	2
2 1/2	2.875	.203	2.50
3	3.500	.216	3
3 1/2	4.000	.226	3.50
4	4.500	.237	4
5	5.563	.258	5
6	6.625	.280	6
8	8.625	.322	8
10	10.750	.365	10



