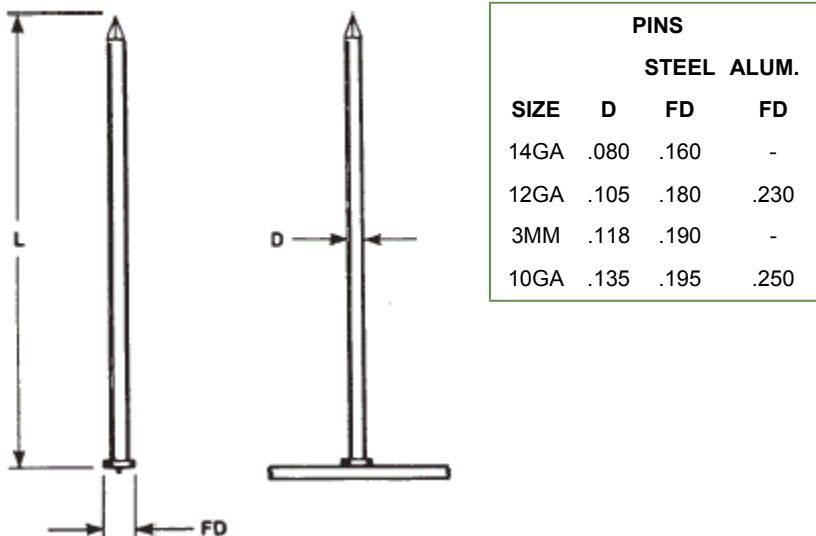


CAPACITOR DISCHARGE(CD)

The capacitor discharge CD Pin is a Low Carbon Steel, Stainless Steel or Aluminum weld pin that is ideal to apply with pin welding or stud welding equipment. Manufactured with a standard Capacitor Discharge weld tip and flange, the CD Weld Pin is popularly used as an insulation fastener, in combination with self locking washers (or "speed clips") to retain insulating material. Other applications of the weld pin replace weld studs, locator pins or various types of metal fasteners. The unique capacitor discharge weld tip and CD weld equipment for studwelding make this an economic and cost-saving metal fastener when stud welded in place.



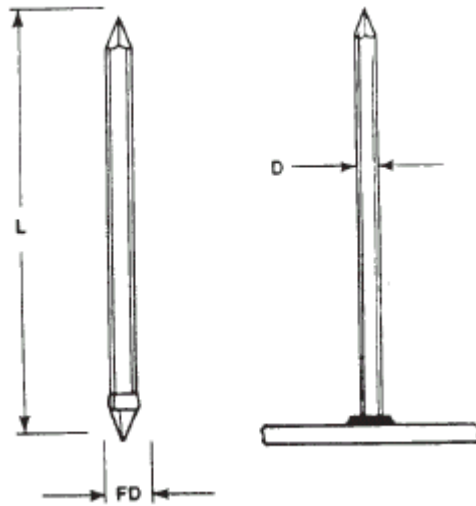
- | | | |
|-------------------------------|---|--|
| MATERIAL: | LOW CARBON STEEL
C- 0. 23% max. P- 0.04% max.
Mn - 0.90% max.S -0.05% max. | STAINLESS STEEL
AISI grade- 302/304/305
std.
Other grades available
upon request. |
| MECHANICAL PROPERTIES: | Tensile 60,000 psi (min.)
Yield 50,000 psi (min.)
Elongation 20% (in 2 inches) | Values for various grades
available upon request. |
| PLATING: | Galvanized and Copper plating are available. | Does not apply to Stainless. |
| ANNEALING: | Pins are annealed where required | Does not apply |
| MATERIAL: | ALUMINUM
Alloy - 1110-H14 std. Other alloys available upon request. | |
| MECHANICAL PROPERTIES: | Values for various alloys available upon request. | |
| APPLICATION: | This is the standard weld pin used for most applications. | |
| WASHERS: | Self - locking washers are available in a variety of sizes, shapes, and materials. | |

TO ORDER OR SPECIFY, GIVE:

1. Product Code.....WP
2. Size.....
3. Length.....L
4. Material.....

"POWER TIP" (CD)

The Power Tip Weld Pin is a capacitor discharge weld Pin in a Low Carbon Steel or Stainless Steel that is ideal to apply with heavy duty pin welding or capacitor discharge stud welding equipment. Manufactured with a heavy duty Capacitor Discharge weld tip and reduced flange, the Power Tip Weld Pin is popularly used as an insulation fastener, in combination with self locking washers (or speed clips) to retain insulating material. The unique enlarged capacitor discharge weld tip and large diameter CD weld equipment for studwelding make this an economic and cost-saving metal fastener when stud welded in place. A main advantage of the Power Tip Weld Pin is its ability to be properly welded through rust, paint or scale without prior costly preparation of the surface to be stud welded.

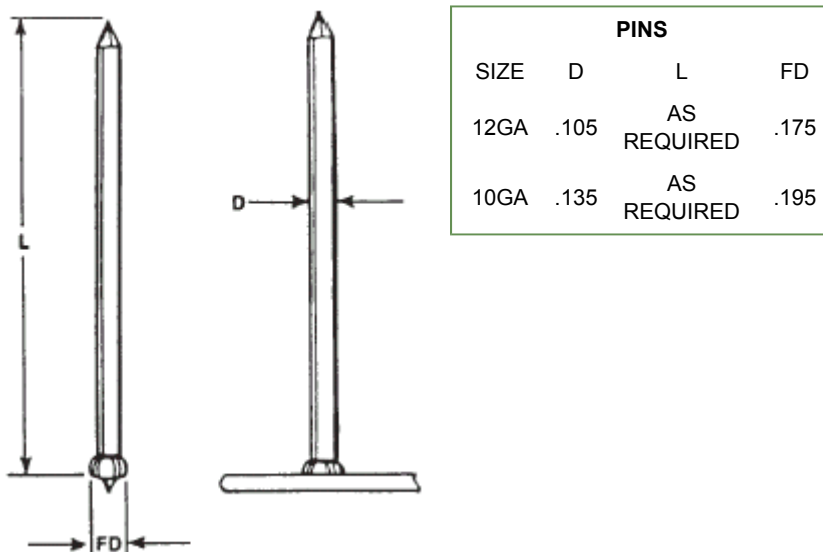


PINS			
SIZE	D	L	FD
12GA	.105	AS REQUIRED	.171
10GA	.135	AS REQUIRED	.187

- | | | |
|------------------------------------|---|--|
| MATERIAL : | LOW CARBON "MILD" STEEL
C- 0. 23% max. P- 0.04% max.
Mn - 0.90% max.S -0.05% max. | STAINLESS STEEL
AISI grade- 302/304/305
std.
Other grades available
upon request. |
| MECHANICAL PROPERTIES : | Tensile 60,000 psi (min.)
Yield 50,000 psi (min.)
Elongation 20% (in 2 inches) | Values for various grades
available upon request. |
| PLATING : | Galvanized and Copper plating are
available. . | Does not apply to
Stainless. |
| ANNEALING : | Can be annealed if required | Can be annealed if
required |
| APPLICATION : | Ideally suited for welding to surface covered with mill scale, rust,
or paint with out costly perparation. | |
| WASHERS : | Self - locking washers are available in a variety of size, shapes
and materials. | |
| TO ORDER OR SPECIFY, GIVE : | | |
| 1. Product Code.....PT | | |
| 2. Size..... | | |
| 3. Length.....L | | |
| 4. Material..... | | |

"SURE - FIRE " (CD)

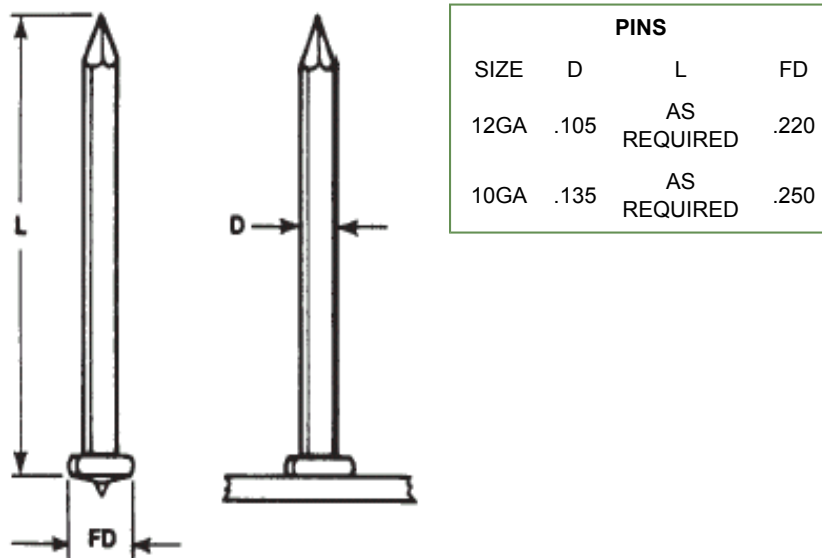
The Sure Fire Weld Pin is a capacitor discharge weld Pin in a Low Carbon Steel or Stainless Steel that is ideal to apply with heavy duty pin welding or capacitor discharge stud welding equipment. Manufactured with a heavy duty Capacitor Discharge weld tip and flange, the Sure Fire Weld Pin is popularly used as an insulation fastener, in combination with self locking washers (or speed clips) to retain insulating material. The unique enlarged capacitor discharge weld tip with flange and large diameter CD weld equipment for studwelding make this an economic and cost-saving metal fastener when stud welded in place. A main advantage of the Sure Fire Weld Pin is its ability to be properly welded through surface contamination without preparation of the area to be pin welded.



- | | | |
|------------------------------------|---|--|
| MATERIAL : | LOW CARBON "MILD" STEEL | STAINLESS STEEL |
| | C- 0.23% max. P- 0.04% max.
Mn - 0.90% max.S -0.05% max. | AISI grade- 302/304/305
std.
Other grades available
upon request. |
| MECHANICAL PROPERTIES : | Tensile 60,000 psi (min.)
Yield 50,000 psi (min.)
Elongation 20% (in 2 inches) | Values for various grades
available upon request. |
| PLATING : | Galvanized and Copper plating are
available. . | Does not apply to
Stainless. |
| ANNEALING : | Can be annealed if required | Can be annealed if
required |
| APPLICATION : | Ideally suited for welding to surface covered with mill scale, rust,
or paint | |
| WASHERS : | Self - locking washers are available in a variety of size, shapes,
and materials. | |
| TO ORDER OR SPECIFY, GIVE : | | |
| | 1. Product Code.....SF | |
| | 2. Size..... | |
| | 3. Length.....L | |
| | 4. Material..... | |

CONICAL TIP (CD)

The Conical Tip Weld Pin is a capacitor discharge weld Pin in Aluminum material that is ideal to apply with pin welding or capacitor discharge stud welding equipment. Manufactured with a heavy duty Capacitor Discharge weld tip and flange, the Conical Tip Weld Pin is popularly used as an insulation fastener, in combination with aluminum self locking washers (or speed clips) to retain insulating material. The unique enlarged capacitor discharge weld tip with flange and proper CD weld equipment for studwelding make this an economic and cost-saving metal fastener when stud welded in place. A main advantage of the Conical Tip Weld Pin is its ability to be properly welded to tough or embossed aluminum surfaces without preparation of the area to be pin welded.



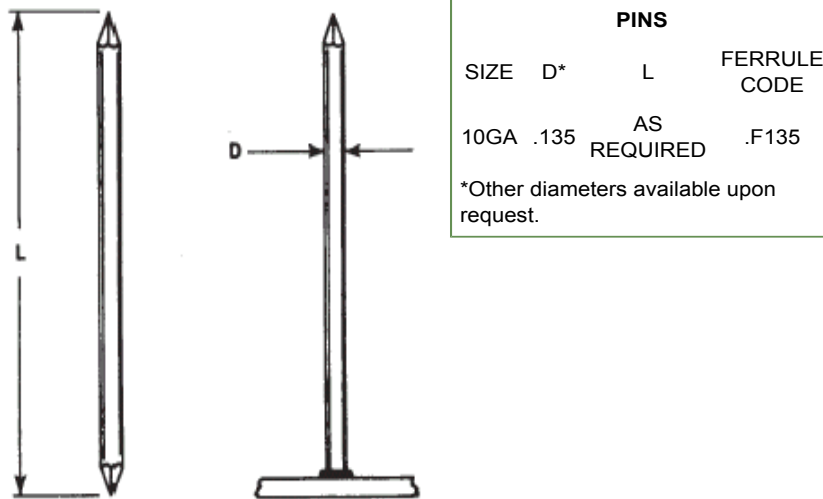
- MATERIAL :** **ALUMINUM**
Alloy - 1100-H14 std. Other alloys available upon request.
- MECHANICAL PROPERTIES :** Values for various alloys available upon request.
- PLATING :** Galvanized and Copper plating are available.
- APPLICATION :** Ideally suited for welding with production stud welding systems and for STUCCO embossed panels.
- WASHERS :** Self - locking washers are available in a variety of sizes, shapes, and materials.

TO ORDER OR SPECIFY, GIVE :

1. Product Code.....CT
2. Size.....
3. Length.....L
4. Material.....

DOUBLE POINTED (ARC)

The Double Point Weld Pin is an Arc Studwelded Pin in Mild or Stainless Steel. This type weld pin is ideal to apply with Arc pin welding or drawn arc stud welding equipment. Manufactured with a chiseled weld tip on each end, the Double Point Weld Pin is popularly used as an insulation fastener, in combination with locking washers (or speed clips) to retain insulating material. The unique double ended weld tips and proper stud welding equipment make this an economic and cost-saving metal fastener when stud welded in place. A main advantage of the Double Point Weld Pin is its ability to be properly welded to tough or contaminated surfaces without preparation of the area to be pin welded.



- | | | |
|--------------------------------|---|--|
| MATERIAL : | LOW CARBON STEEL
C- 0. 23% max. P- 0.04% max.
Mn - 0.90% max.S -0.05% max. | STAINLESS STEEL
AISI grade- 302/304/305 std.

Other grades available upon request. |
| MECHANICAL PROPERTIES : | Tensile 60,000 psi (min.)
Yield 50,000 psi (min.)
Elongation 20% (in 2 inches) | Values for various grades available upon request. |
| PLATING : | Galvanized and Copper plating are available. | Does not apply to Stainless. |
| ANNEALING : | Can be annealed if required | Can be annealed if required |
| APPLICATION : | This is the standard weld pin used with only ARC stud welding equipment. | |
| WASHERS : | Self - locking washers are available in a variety of sizes, shapes, and materials. | |

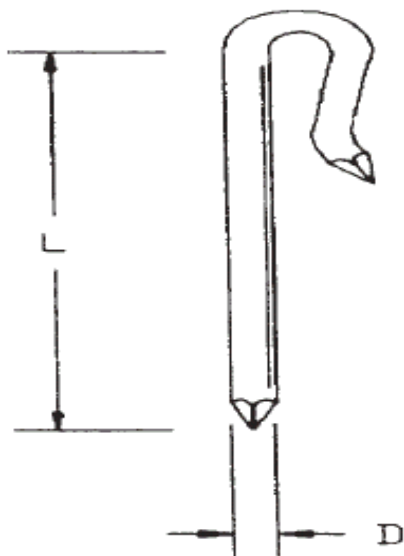
CODE	FERRULE				PART NO
	B	D	E	M	
135	.281	.375	.156	.390	092 0005 04

TO ORDER OR SPECIFY, GIVE :

1. Product Code.....DP
2. Size.....
3. Length.....L
4. Material.....

"J" - HOOK

The J-Hook weld pin is fabricated from a double point weld pin of the arc stud welded variety. Shaped in a "J" just like its name, this weld pin is usually part of a combination of elements for affixing and erecting industrial insulation applications. A typical installation finds the shorter leg of the J-Hook "hooked" under and through wire mesh, and then tack welded into place on the mesh. Insulation is captured and mounted on the longer leg using the MIDWEST Fasteners self-locking washer. Hole diameter for the insulation washer matches the diameter of the J-Hook. The J-Hook is most often 10gauge wire diameter, with other diameters available. Mild Steel J-Hooks are common, with some Stainless Steel applications also popular.



PINS		
SIZE	D*	L
10GA	.135	AS REQUIRED

*Other diameters available upon request.

MATERIAL : LOW CARBON STEEL

C- 0. 23% max. P- 0.04% max.
Mn - 0.90% max.S -0.05% max.

STAINLESS STEEL

AISI grade- 302/304/305 std.

Other grades available upon request.

MECHANICAL PROPERTIES :

Tensile 60,000 psi (min.)
Yield 50,000 psi (min.)
Elongation 20% (in 2 inches)

Values for various grades available upon request.

PLATING :

Galvanized and Copper plating are available. .

Does not apply to Stainless.

ANNEALING :

Can be annealed if required

Can be annealed if required

APPLICATION :

This is the standard insulation fastener used to secure insulation to wire road mesh.

WASHERS :

Self - locking washers are available in a variety of size, shapes, and materials.

TO ORDER OR SPECIFY, GIVE :

1. Product Code.....JH
2. Size.....
3. Length.....L
4. Material.....