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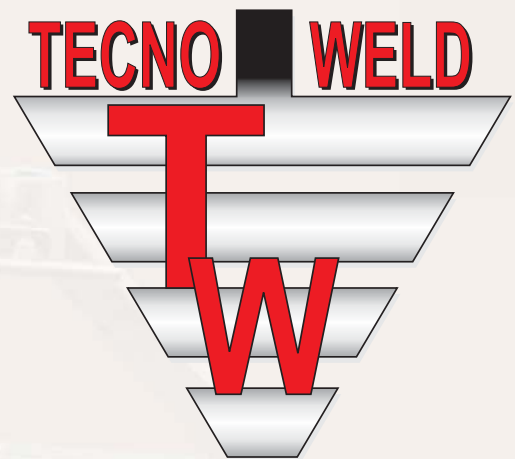
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The background of the entire page is a faded, high-angle photograph of various welding tools and equipment. Visible items include a yellow gas cylinder on the left, a central welding torch with orange handles, a box of "thermOweld" consumables on the right, several cross-shaped metal fixtures, and a large, curved metal component at the bottom. The text "CATALOGO" and "CATALOG" is overlaid on this background.

# **CATALOGO**

# **CATALOG**

## **Información Técnica • Technical Information**

Departamento de Ingeniería - TECNOWELD S.A.

Departamento de Estudios Técnicos - TECNOWELD S.A.

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**Tecnoweld S. A.** es una empresa que ha sido creada para ofrecer soluciones precisas para el Suministro, Instalación y Mantenimiento de **MALLAS A TIERRA** y poder prestar a ustedes todos los servicios que de esta área se desprenden. Así mismo hemos sido nombrados como **“Distribuidor Master para Colombia de los Productos Thermoweld”**

### **PRODUCTOS:**

1. Soldadura Aluminotérmica
2. Molde de Grafito
3. Herramientas de sujeción para moldes y cables
4. Kit de limpieza para moldes
5. Varillas tipo Copper Weld
6. Sistemas de protección contra rayos

### **FINALIDAD**

Proteger a las personas de las descargas eléctricas, proteger a los animales, proteger los equipos contra cortos circuitos, brindar confiabilidad en la conductibilidad eléctrica.

### **VENTAJAS DE LA SOLDADURA ALUMINOTÉRMICA**

1. Se garantiza una conexión perfecta rápida y permanente
2. Simplicidad y eficiencia
3. Libre mantenimiento
4. Portátil
5. No requiere fuente externa de energía
6. Elimina el par galvánico
7. Puede soportar igual o mayor voltaje y corriente que los conductores a soldar.

### **AREAS DE USO**

1. Subestaciones eléctricas
2. Telecomunicaciones
3. Pararrayos
4. Salas de Computo
5. Aeronavegación
6. Apantallamiento
7. Torres eléctricas
8. Puentes
9. Transformadores
10. Edificios

11. Salas de Cirugía
12. Estructuras Metálicas
13. Equipos sensibles
14. Tuneles
15. Industria

Como complemento a nuestra línea de productos ofrecemos:

1. Conectores Mecánicos de cobre
2. Platinas de cobre ( Barrajes de puesta a tierra)
3. Sistema de protección contra rayos
4. Tornillería en bronce
5. Tratamientos químicos o suelos artificiales

### **SERVICIO TÉCNICO**

- Contamos con departamento de ingeniería para proyectos especiales
- Servicio de instalación
- Servicio completo de aplicación, suministro de materiales y mano de obra

### **CALIDAD**

Control de Calidad a todos nuestros productos.

### **ASESORÍA**

Brindamos cursos de capacitación en todo el país.



**Tecnoweld S. A.** is a company that has been created to provide precise solutions for the supply, installation and maintenance of **GROUNDING SYSTEMS** and provide you all services derived from this area. Also, we have been appointed as **“Master Distributor for Colombia”** for **Thermoweld®** products.

### **PRODUCTS:**

1. Thermal Welded Connections
2. Graphite Molds
3. Clamping tools for molds and cables
4. Cleaning kits for molds
5. Copperweld type rods
6. Lightning protection systems

### **GOAL**

Protect people from electrical discharges, protect the animals, protect equipment against short circuits, and provide trustworthiness to electrical conductance.

### **ADVANTAGES OF THERMICAL WELDED CONNECTIONS**

1. A perfect, fast and permanent connection is guaranteed
2. Simplicity and efficiency
3. Maintenance-free
4. Portable
5. Does not require an external power source
6. Eliminates galvanic pair
7. May withstand an equal or greater voltage and current than welded conductors

### **AREAS OF APPLICATION**

1. Electrical secondary stations
2. Telecommunications
3. Lightning arrests
4. Computer rooms
5. Air navigation
6. Shielding
7. Electrical towers
8. Bridges
9. Transformers
10. Buildings
11. Surgical Rooms (OR's)

12. Metallic Structures
13. Sensitive equipment
14. Tunnels
15. Industry

**As a compliment to our product line, we also offer:**

1. Mechanical copper connectors
2. Copper Busbars
3. Lightning Protection Sistem
4. Bronze screws/bolts
5. Soil chemical treatment

**TECHNICAL SERVICE**

- We have an engineering department for special projects
- Installation service
- Complete application, materials supply and hand of labour service

**QUALITY**

We exercise Quality Assurance on all our products.

**CONSULTING**

We provide training courses nation-wide.

# MALLAS A TIERRA GROUNDING SYSTEMS

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# MALLAS A TIERRA

# GROUNDING SYSTEMS

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## CARACTERÍSTICAS

Sistema de Soldadura Aluminotérmica: Produce unión molecular. No se suelta. No se afecta por par galvánico. Puede soportar igual o mayor voltaje y corriente que los conductores soldados. Esta soldadura se emplea en empresas de servicios públicos, en plantas generadoras de energía eléctrica, fabricas procesadoras, grandes edificios comerciales y demás establecimientos. El sistema ha sido diseñado para asegurar buenas y permanentes conexiones. Es de poco peso y volumen; fácil de transportar.

## COMPONENTES

### 1. MOLDE:

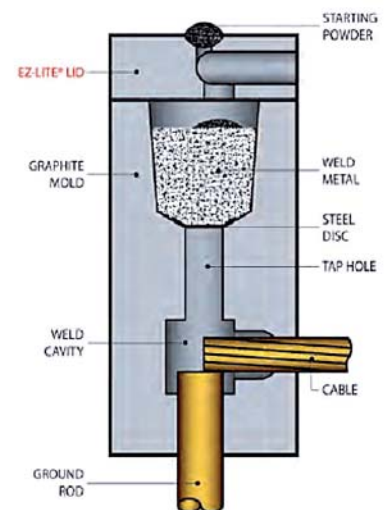
- El molde de grafito está maquinado, de manera precisa para la conexión que se va a realizar y para el tamaño apropiado de los conductores.
- Están disponibles en gran variedad de tipos de uniones; desde uniones cable a cable hasta uniones cable a estructura de acero.
- Cada molde se suministra con una hoja de instrucciones generales sobre seguridad, preparación de los conductores e instrucciones sobre la soldadura.
- Cada molde tiene una marcación que incluye la referencia de catálogo, los elementos a soldar y la carga de soldadura requerida.

### Partes del molde:

- Tapa: Cierra el molde mientras se realiza la reacción exotérmica.
- Crisol o Copa: Sostiene el material de soldadura antes de que la reacción suceda.
- Asiento del Disco Retenedor: En el fondo del crisol hay un asiento en el cual se coloca el disco de retención para sostener el material en el crisol antes de la reacción.
- Cámara de Soldadura: Cavidad mecanizada en el cual se ajustan de manera precisa los conductores o elementos a soldar. Tiene una holgura o mayor diámetro que los elementos a soldar.
- Ducto o Vaciadero: El material fundido baja por un ducto desde el crisol hasta la cavidad de soldadura.

### 2. SOLDADURA:

- El material soldante se suministra identificado con el número de catálogo y cantidad.
- El material soldante, es un mezcla de óxido de cobre y aluminio que requiere más de 870 °C para encenderse. El polvo color plateado que se encuentra aparte, es el INICIADOR de la reacción, el cual se enciende con el chispero o encendedor.





## MALLAS A TIERRA • GROUNDING SYSTEMS

### SOLDADURA ALUMINOTERMICA • THERMICAL WELDED CONNECTIONS

Características • Features

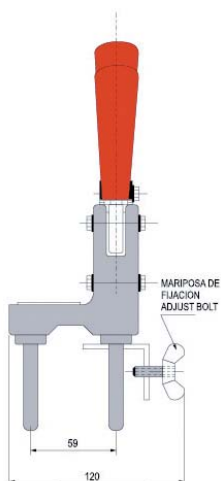
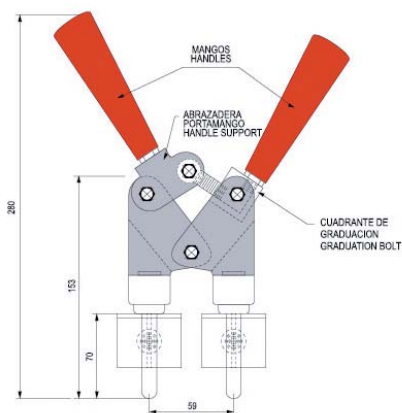
#### 3. DISCO:



- De material ferroso o no ferroso.
- Permite la reacción exotérmica en el crisol durante el tiempo necesario para que la escoria resultante flote; el calor del cobre fundido (líquido) derrite el disco y fluye hacia la cavidad para la soldadura.

#### 4. PINZAS:

- Diseño exclusivo para el 100% de los moldes de grafito fabricados, para - soldaduras cable a cable, cable a platinas y cable a varilla.
- Ajusta el molde ejerciendo presión entre partes. La presión se puede variar.



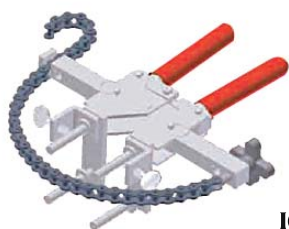
#### PINZAS DE CADENA HORIZONTAL Y VERTICAL

Las pinzas de cadena son usadas para sostener el molde en posición sobre tubería o estructura horizontal o vertical de hasta 4" de diámetro. Para tuberías de mayor diámetro se suministra una extensión de cadena de 20" que permite que la pinza sea utilizada en tuberías de hasta 10" de diámetro. La pinza con cadena puede suministrarse como un solo elemento completo o si ya se tienen las pinzas puede ordenarse únicamente la cadena y los accesorios de montaje que se adaptan perfectamente con la pinza tradicional.

#### PREPARACIÓN DE LOS ELEMENTOS

- **Cables, Varillas, Platinas o superficies que reciban la soldadura:** La humedad retenida entre los filamentos ocasiona salpicaduras y derrames de soldadura; al igual que el mugre, la grasa o los aceites industriales y óxidos. La soldadura, en presencia de estos elementos será deficiente. Los elementos deben limpiarse con un cepillo metálico para remover todos los componentes extraños. Debe calentarse con antorcha.
- **Moldes:** Absorben humedad del medio ambiente, El polvo, mugre, grasa y otros ocasionan soldaduras deficientes. Deben calentarse con antorcha, a través del crisol y las entradas de los elementos a soldar. Asegurarse que se elimine todo vestigio de humedad. Se comprueba en el campo colocando una gota de agua en uno de los costados; esta debe evaporarse inmediatamente.
- **Fugas:** Si hay evidencia de posible fugas a través de las entradas de los conductores, se pueden utilizar barro arcilloso o cerámico alrededor de los conductores o cables en la parte exterior.

Pinza de cadena a tubo en posición vertical



**IG6 40 0106 32**

Grapa y Cadena para fijar tubo en posición vertical

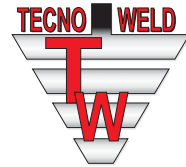


**IG6 40 0106 76**

Grapa y cadena para fijar tubo en posición horizontal



**IG6 40 0106 78**



## INSTALACIÓN Y REACCIÓN

- Para hacer una conexión, sostenga un disco retenedor contra el lateral del crisol. Permita que se deslice hasta el fondo y verifique que el disco quede bien colocado en el asiento del fondo.
- Vierta el material soldante en el crisol teniendo cuidado de no verter el material iniciador.
- Vierta el cartucho de fundente en el crisol. Cierre la tapa.
- Vierta un poco de material iniciador en el bolsillo de ignición.
- Encienda con el chispero apuntando al centro de la tapa donde depositó el material iniciador. El material se enciende y se inicia la reacción del material soldante dentro del crisol.
- El oxígeno del óxido de cobre se combina con el aluminio para formar cobre fundido y escoria (óxido de aluminio).
- El disco retenedor actúa como válvula que retiene la reacción en el crisol para permitir que la escoria flote en la parte alta y se separe del material de cobre fundido. El calor liberado por esta reacción funde el disco y el cobre fundido fluye por el ducto hacia la cámara de soldadura.
- El material fundido calienta la cámara de soldadura, funde los extremos de los hilos de los conductores, llena la cavidad y se convierte en sólido para producir una unión compacta.
- Toda la reacción ocurre en pocos segundos.

## PRECAUCIONES DE SEGURIDAD

- Encienda el chispero iniciador de la reacción, colocándose a un lado del molde. Con el brazo extendido accione el chispero en el bolsillo de ignición ubicado en el centro de la tapa superior del molde.
- Si hay brisa, colóquese con está a favor (brisa a su espalda). Evite la aspiración de los humos de la reacción (son tóxicos).
- Tenga presente que por la boca del crisol, salen gotas o salpicaduras de metal fundido que pueden ocasionar graves quemaduras. Utilice guantes de carnaza para manipular el molde después de la reacción para remover la escoria.



## PROBLEMAS FRECUENTES

La mayoría de los problemas presentados en soldaduras aluminotérmicas pueden solucionarse verificando las siguientes causas:

### PROBLEMA No. 1

La soldadura está cubierta con excesiva escoria.

#### Verificación:

- 1.1 La mezcla soldante escapó por el borde del disco retenedor.
- 1.2 Asiento para el disco desportillado en el molde.
- 1.3 Disco retenedor, corrido cuando se vació la mezcla soldante.
- 1.4 Disco no sentado correctamente.
- 1.5 Disco no utilizado.

**NOTA:** Una pequeña cantidad de escoria sobre la superficie es aceptable.

### PROBLEMA No. 2

Goticas de metal fundido son expulsadas fuera del crisol cuando se efectúa la conexión.

#### Causa:

- 2.1 Presencia de humedad en el molde, cables o en ambos.

### PROBLEMA No. 3

Cables no se soldan.

#### Verificación:

- 3.1 Los cables no fueron limpiados y secados adecuadamente

#### Corrección:

- 3.1.1 Remover óxidos con cepillo de alambre. Cortar extremos muy oxidados. Usar carga soldante para trabajo pesado
- 3.1.2 Secar conductores con antorcha.
- 3.2 Cables separados en el molde.

#### Corrección:

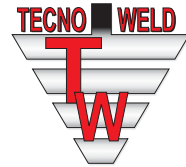
- 3.2.1 Colocar los cables adecuadamente.
- 3.2.2 La separación debe quedar bajo canal de llenado.

### PROBLEMA No. 4

Los cables se salen del molde durante el proceso de soldadura.

#### Corrección:

- 4.1 Use grapas o prensas para sostenerlos en su sitio.
- 4.2 Evite que los cables queden tirantes o en tensión.

**PROBLEMA No. 5**

Escapes de soldadura alrededor de los cables.

**Corrección:**

- 5.1 Aplicar barro cerámico alrededor de los cables, cuando el molde este cerrado.
- 5.2 Usar moldes con platinas de desgaste (que actúan como enfriadoras)
- 5.3 Molde con medidas adecuadas a los cables a soldar.
- 5.4 Molde muy desgastado, reemplazarlo.

**PROBLEMA No. 6**

Insuficiente soldadura para cubrir los cables

**Verificación:**

- 6.1 Utilizar la cantidad recomendada de material soldante.
- 6.2 Demasiada separación entre los cables o elementos a soldar.
- 6.3 Molde con fugas.

**Corrección:** Ver problemas 3, 9 y 11

**PROBLEMA No. 7**

Conexión con aletas

**Corrección:**

- 7.1 Molde mal cerrado. Verificar el ajuste del molde y de la pinza.
- 7.2 Molde con desgaste excesivo necesita cambio.

**PROBLEMA No. 8**

El vaciadero (llenadero) es muy alto

**Verificación:**

- 8.1 Correcta cantidad de mezcla soldante
- 8.2 Humedad en el molde o cables

**Corrección:** Ver problema No. 3

**PROBLEMA No. 9**

El molde se desgasta rápidamente.

**Verificación:**

- 9.1 Limpiar el molde con un cepillo suave, trapo o papel periódico. No use cepillo de alambre.
- 9.2 Remover el molde después de cada soldadura con cuidado y evitar astillamiento y fricciones.

**PROBLEMA No. 10**

La soldadura no se adhiere (pega) sobre el acero



#### **Corrección:**

- 10.1 Limpiar el acero con escofina, grata, esmeril o similar, hasta el grado "metal brillante" o desnudo. Capas de óxido, pinturas y otras deben removerse completamente, el cepillo de alambre no es suficiente, grasa y aceites deben removerse con disolventes.
- 10.2 Limpiar superficies galvanizadas con cepillo de alambre o tela esmeril. Galvanizado espeso, debe limpiarse con un raspador.
- 10.3 Si el acero tiene humedad, calentar con antorcha preferiblemente desde la cara posterior.
- 10.4 Todo depósito de carbón formado por la antorcha, debe removerse.
- 10.5 Verificar la posición correcta de los cables.

#### PROBLEMA No 11

La soldadura no se adhiere (pega) al hierro nodular, maleable o fundido.

Corrección:

- 11.1 Remover toda capa antes de limpiar.
- 11.2 Limpiar toda superficie con raspador, esmeril o similar hasta "metal brillante o desnudo".
- 11.3 Limpiar las superficies con disolventes seguros.

#### PROBLEMA No. 12

La conexión es porosa o no es uniforme.

- 12.1 Presencia de humedad en el cable, molde o ambos.

Corrección:

- 12.2 Limpiar, secar los cables y calentarlos.
  - 12.3 Calentar el molde con antorcha por encima de 100 C o efectuar una "quema" sin cables a conectar, teniendo cuidado de evitar posibles graves quemaduras por escape repentino del metal fundido.
  - 12.4 Si el molde tiene platinas metálicas de desgaste, solo calentar con antorcha.
  - 12.5 Presencia de barro cerámico en la cavidad de soldar.
- Corrección: Si es necesario, aplicarlo solo cuando el molde esté cerrado.

#### PROBLEMA No. 13

El molde no cierra firmemente.

Verificación:

- 13.1 Grapa de cierre desajustada.
- 13.2 Cables ovalados o doblados.
- 13.3 Mugre o escoria en las juntas del molde.
- 13.4 Diámetro incorrecto de cables.



## CONEXIONES DE TRABAJO PESADO

### USO:

Requerimientos especialmente para reconexiones de cables de cobre multifilares, sólidos o de cables endurecidos.

Para conexiones eléctricas de difícil acceso y cuyas condiciones de preparación para la soldadura sean apenas aceptables en comparación con las condiciones normales de una soldadura corriente.

Para reconexiones en mallas a tierra antiguas

Para interconexión con mallas antiguas (ampliaciones de mallas antiguas)

Para mallas con cables o conductores reciclados.

Para garantizar mayor resistencia mecánica en conexiones críticas.

### CARACTERÍSTICAS:

Molde con mayor volumen que el corriente en la cavidad de soldadura.

Se requiere mayor cantidad de soldadura

Mayor cantidad de calorías o BTU's en tiempo (la temperatura de la reacción exotérmica es la misma, es decir, superior a 2.800 °C).

### VENTAJAS:

Elimina la necesidad de corte de los extremos de cable viejo, siempre y cuando se limpie aceptablemente.

Se puede soldar cables que han sufrido fuerte oxidación siempre y cuando se limpien aceptablemente.

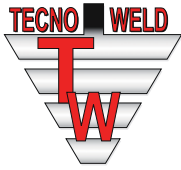
La reacción exotérmica se prolonga por más tiempo con lo cual se permite sublimar cuerpos extraños remanentes en la limpieza.

Se puede reforzar los puntos críticos en las mallas a tierra en donde se prevean condiciones y factores severos.

### NOTAS:

No se puede utilizar un molde corriente debido a la capacidad menor en la cavidad de la soldadura.

No todos los tipos de soldadura requieren de soldaduras "trabajo pesado".



## MALLAS A TIERRA • GROUNDING SYSTEMS

### SOLDADURA ALUMINOTERMICA • THERMAL WELDED CONNECTIONS

Características • Features



## FEATURES

Thermic welding process produces a molecular bond. It will not loose, is not affected by galvanic corrosion, accepts equal or more current capacity than the welded conductors themselves. The thermic weldings are used in government utility companies, power stations, factories, commercial buildings and other facilities. The process has been engineered to assure a good and permanent electrical connection. Elements required are small and light therefore easy to carry.

## REQUIRED ELEMENTS

### 1. MOLD:

The graphite mold is precisely drilled for the exact size of conductors to be welded.

There are great variety of different weldings from a simple cable-cable to a cable-steel structure.

Each mold is supplied with a general instructions sheet which details the recommended safety procedure, preparation of conductors and welding material.

Every mold includes a nameplate with catalog number, size of conductors that it was built for and size of weld metal cartridge required.

Parts of the mold:

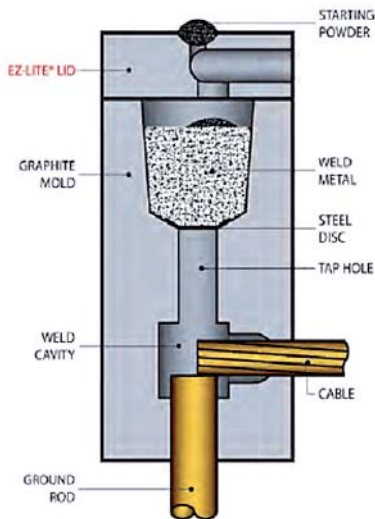
Cover: Closes the mold during exothermic reaction.

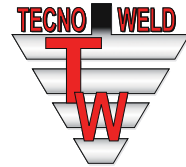
Crucible: Contents the welding material before exothermic reactions is dropped into the welding cavity.

Seat of Retention Disk: At the bottom of the crucible, there is a seat where the retention disk accommodates to hold the molten material.

Tap Hole: The molten copper flows through the tap hole into the welding cavity.

Welding Cavity: It is a precisely machined cavity that holds the conductors or elements that will be welded. The molten copper reaches this cavity after melting the retention disk and running across the tap hole.





## 2. WELDING POWDER:

### Características • Features

- Every cartridge of welding powder is supplied with a label indicating weight of powder contained (expressed in grams).
- The welding powder is a mixture of copperoxide and aluminum powder that requires temperatures above 870 C to be ignited. A second type of powder, silver color is also packed inside but separately. This is called the starting powder for the reaction. The flint gun shall be pointed to the starting powder to start the reaction.



## 3. DISK:

Made up of ferrous or non-ferrous material.

The disk holds exothermic reaction in the upper chamber for a period of time to allow slag float and permit pure copper to flow down first, after melting the disk, to the welding cavity.

## 4. HANDLE CLAMPS:

TECNOWELD handles are appropriate for 100% of the molds offered. Used to handle the graphite molds.

Handle clamps are also used to hold the mold closed while the reaction of the powder takes place.

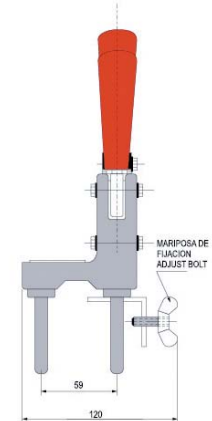
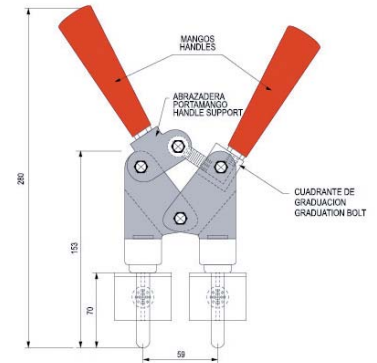
### HORIZONTAL AND VERTICAL CHAIN CLAMPS

Chain clamps are used to hold a mold in position on horizontal or vertical pipe or surface up to 4" in diameter. For larger pipes a 20" chain extension is available to allow the chain clamps to be used on pipe up to 10" in diameter. The chain clamp can be purchased complete with the handle clamp, or if you already have a set of clamps, you can order just the chain clamp and mounting assembly. The mounting assembly can easily attached to the standard handle clamps.

## PREPARATION OF ELEMENTS

Cables, Grounds Rods and surfaces involved in the welding: Moisture trapped between the strands of cables, as well as dirt, grease industrial oil and oxides may produce splash or overflow of welding material while reaction takes place. Elements must be cleaned with a metallic brush to remove all the foreign elements. They must be dried with torch.

Molds: They absorbed moisture from the environment. Molds must be carefully dried with heat (using a torch). Check mold by splashing water to the mold. Water must evaporate immediately.



IG6 40 0106 32



IG6 40 0106 76



IG6 40 0106 78



Leaks: If there is evidence of possible leaks through the cable openings use clay around conductors in the external part of the mold.

### INSTALLATION AND REACTION

To make a connection, hold retention disk inside the crucible wall. Let the disk slide to the bottom seat.

Pour the welding material into the crucible without including the starting powder.

Pour a small amount of the starting powder in the upper border of the mold and uniformly spread the balance over the welding powder.

Close the cover.

Pour a small quantity of powder in starting the ignition pocket. Set fire pointing the flint gun to the starting powder.

Oxygen from the copper oxide combines with the aluminum powder to produce free molten copper plus slag (aluminum oxide).

The retention disk act as a valve to retain the reaction into the crucible until the slag floats over the molten copper. The reaction heat melts the retention disk and then, the molten copper flows to the welding cavity through the tap hole.

The molten copper fill the welding cavity, melts the strands of the cable and produces a compact solid connection.

All the process of the reaction takes place in only a few seconds.

### SAFETY PRECAUTIONS

When setting fire, place your hand extended to a side of the mold to avoid possible splashes of the welding material. Extend your arm in full when holding the flint gun, aiming to the ignition pocket located on the center of the mold's upper cap.

If wind is blowing, be sure to stand between the coming wind and the welding point. This protects you from being touched by the flames or reached by the fumes.

Avoid aspiration of fumes produced in this reaction. (These fumes are toxic).

Drops of hot welding metal may come out from the inside of the mold and produce heavy burns. Use hand leather gloves during all the process to protect yourself.



## TROUBLE SHOOTING TIPS

### PROBLEM No. 1

The connection is covered with excessive slag.

Recommended inspection:

- 1.1 Welding material escaped through the edge disk.
- 1.2 Disk seat at the mold is chipped.
- 1.3 Retention disk was moved when the welding material was poured
- 1.4 Retention disk was not properly seated.
- 1.5 Retention disk was not installed.

NOTE: A small amount of slag on the surface is acceptable.

### PROBLEM No. 2

Molten metal drops are spits out of the crucible when making a connection.

Cause:

- 2.1 Presence of moisture in the mold, cables or Both.

### PROBLEM No. 3

The conductors do not weld.

Check:

- 3.1 The conductors were not properly cleaned and dried.

Correction:

- 3.1.1 Remove the oxide with wire brush. Cut the oxide ends. Use heavy duty molds.
- 3.1.2 Dry conductors with torch.

- 3.2 Separated cables at the mold.

Correction:

- 3.2.1 Set the cables properly.
- 3.2.2 The gap must be centered under the tap hole.

### PROBLEM No. 4

The cable pull out of the mold during welding

Correction:

- 4.1 Use clamps to hold them in place.
- 4.2 Avoid cable tension.



PROBLEM No. 5

The metal weld leaks around the conductors.

Correction:

- 5.1 Apply clay around the conductors when the mold is closed.
- 5.2 Use mold with wear plate (which act as chill plates).
- 5.3 Use molds with adequate size to the cable being welded.
- 5.4 The mold is too worn, replace it.

PROBLEM No.6

Insufficient fill metal to cover the conductors.

Check:

- 6.1 Use the recommended size welding material.
- 6.2 Too large gap between conductors.
- 6.3 Mold with leakage.

Correction: See problem 3, 9 and 11

PROBLEM No. 7

Connections with fins (The metals is lost).

Correction:

- 7.1 The mold is not completely closed.
- 7.2 The mold is excessively worn. Change it.

PROBLEM No. 8

The riser is too high

Check:

- 8.1 The correct size of the welding material.
- 8.2 Moisture in the mold or conductors.

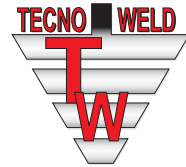
Correction: See problem 13

PROBLEM No. 9

The mold wears out quickly.

Check:

- 9.1 Clean the mold with a brush, cloth or newspaper. Do not use wire brush.
- 9.2 Remove the mold carefully after each connection; avoid chipping.

**PROBLEM No. 10**

The welding does not stick to the steel.

Correction:

- 10.1 Clean the steel with a rasp, grinder or similar up to the "bare metal" grade. Oxide scale, paint and other coating, must be completely removed. The wire brush, is not sufficient. Grease, and oil must be removed with safety solvent.
- 10.2 Clean the galvanized surface with a wire brush or emery. The heavy galvanized must be cleaned with a rasp.
- 10.3 If the steel has moisture, heat it with a torch preferable from the back side.
- 10.4 Any carbon deposit from the flame, must be removed.
- 10.5 Check the correct conductor position.

**PROBLEM No. 11**

The welding to nodular iron malleable or cast iron does not stick to the surface.

Correction:

- 11.1 Remove any coat before clean.
- 11.2 Clean all the surface with a rasp, grinder or similar upto bright metal grade.
- 11.3 Clean the surface with safety solvent.

**PROBLEM No. 12**

The connection is porous and uniformed.

- 12.1 Presence of moisture either in conductor or mold.

Correction:

- 12.2 Clean, dry and heating the conductors.
  - 12.3 Heat the mold over 100 C or ignite a weld metal without conductors, having care to avoid severe burns due to the sudden scape of the molten material.
  - 12.4 If the mold has wear plate, heat only with torch:
  - 12.5 Presence of clay in the welding cavity.
- Correction: If it necessary, apply it only when the mold is closed.

**PROBLEM No. 13**

The mold does not close tightly

Check:

- 13.1 The adjustment of the handle clamps.
- 13.2 Conductors out of round or bent.
- 13.3 Dirt or slag in the mold parting line.
- 13.4 Correct size of the conductors.



## HEAVY DUTY CONNECTIONS

### USE:

Specially used when reconnecting cables with multiple filaments, and solid or endured cables.

For electrical connections when access and preparation of conductors is difficult not allowing a comparable acceptable cleaning process of the cables for welding.

For reconnections in old grounding networks or interconnections with them.

When connecting grounding with second-hand cables.

To ensure higher mechanical resistance in critical junctions of the grounding networks.

### FEATURES:

The mold cavity volume is larger than the standard connections molds, therefore:

Quantities of welding powder required are larger than in standard connections.

Temperature of the reaction is always the same is standard or HDC but the exposition time to the welding temperature (2.800 C) is longer in HDC which assure appropriate welding.

### ADVANTAGES:

Allow correct connections without having to cut ends of old cable.

Connections with cables that has been exposed to great oxidation can be accomplished.

In the above mentioned cases, cleaning of cable is required.

Time of exposition to the reaction temperature helps burn some of the dust left in the cleaning process.

If special conditions occurred that may have damage some of the junction points in the network, the connections can be welded over the previous ones using a Heavy Duty Mold.

### NOTES:

A standard mold cannot be used for a Heavy Duty connections.

Not all the very different configurations of connections require Heavy Duty joints.

**Contact TECNOWELD for special requirements.**

## INSTRUCCIONES PARA INSPECCIÓN DE SOLDADURAS • INSPECTION OF WELDING POINTS

### BUENA

Soldadura sólida solo presenta imperfecciones menores en la superficie.

### GOOD

A solid welding. Only minor imperfections can be observed in the surface.



### ACEPTABLE

El llenado es más bajo que el normal, pero aún es suficiente.

### ACCEPTABLE

The welding material did not fill the welding cavity. It is low but still enough to guarantee acceptable conductivity.



### ACEPTABLE

Molde incorrecto o desgastado. Permite fugas alrededor del conductor. El llenado es suficiente. Recomendación: Debe revisar el molde.

### ACCEPTABLE

Mold is falling or is overused  
Leaks are present around the conductors and therefore.  
Welding material is not enough to fill the cavity.  
Solution: Mold should be revised or disposed.





### **ACCEPTABLE**

El llenadero queda poroso.

El molde o hilos del cable captaron agua o humedad.

La soldadura es sólida la porosidad no es suficiente para rechazar la conexión.

Recomendación: Secar cables y moldes con disolventes seguros y calentar con antorcha (butano, propano, gasolina, acetileno).

### **ACCEPTABLE**

The crucible is porous.

The mold or the conductor strands were wet (water or simile moisture).

The weld is solid; porosity is not enough to allow rejection of the connection.

Solution: Clean and dry the cables, conductors and mold with a safety solvent and heat it with torch.



### **RECHAZADA**

Grandes cantidades de escoria sobre la soldadura causada por: Disco mal colocado ó ausencia del disco.

Recomendación: Verificar asiento del molde para el disco y que el disco sea el apropiado para la soldadura.

### **REJECT**

Extreme amounts of slag on surfaces are caused by weld material leaking past disk or complete lack of disk.

Solution: Inspect the conditions of mold disk seat and check disk size and positioning.

## RECHAZADA

Ligeras trazas de carbón en los hilos de los cables y en la soldadura por presencia de aceite, grasa o mugre antes de soldar.

Recomendación: Limpiar bien con disolventes seguros, calentar.

## REJECT

Light carbon traces of the connections are present due to presence of oil, grease or dirt.

Solution: Clean all the involved elements with a safety solvent and heat them with a torch



## RECHAZADA

Soldadura deforme.

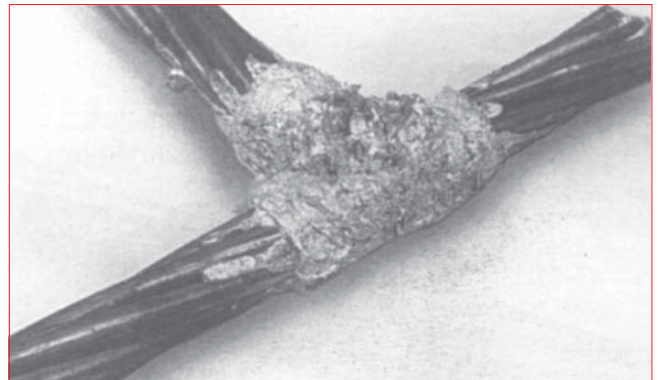
Excesiva cantidad de agua entre los hilos del cable o en el molde.

Recomendación: Los cables y el molde deben limpiarse y secarse con calor (antorcha).

## REJECT

Excessive water in cable strands.

Solution: Cable and mold must be dried by heating.



## RECHAZADA

Gruesas capas de carbón en los cable y soldadura.

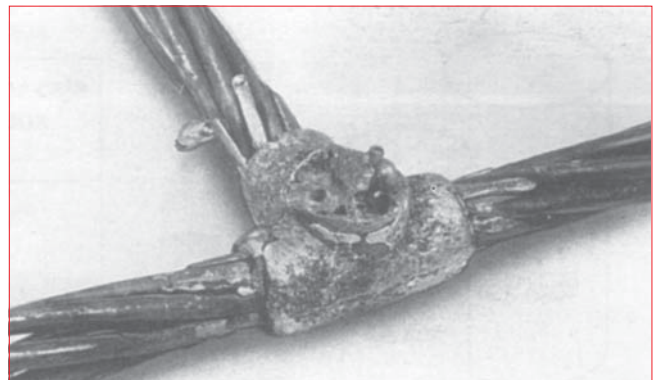
Presencia de aceite, grasas o mugre en gran cantidad en los cables.

Recomendación: Limpiar bien con disolventes seguro, calentar.

## REJECT

Heavy carbon coating on cable and connection shows grease or oil was presents on cables.

Solution: Cables must be cleaned with safety solvents.





### RECHAZADA

Llenado bajo o pobre, la cavidad no fue llenada sobre los hilos de los cables, aletas de fuga presentes.

Molde con cerrado incorrecto, probablemente debido a la presencia de algún cuerpo extraño aprisionado.

Recomendación: Verifique el ajuste de la grapa de cierre.

### REJECT

Fill is too low. Weld cavity was not filled over cable strands

"Fins" indicate mold was not closed tightly.

Solution: Check for foreign material in mold parting line.



### RECHAZADA

Llenado bajo o pobre. La cavidad no fue llenada sobre los hilos de los cables.

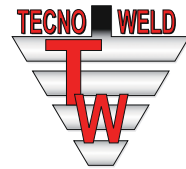
La ausencia de fugas indica que el material soldante (tamaño del cartucho de soldadura utilizado) fue insuficiente.

### REJECT

Fill is too low.

Welding cavity was not filled enough.

The absence of leak paths indicates that welding powder cartridge used was very small.



## SOLDADURA

### USO:

Compuesto de óxido de cobre y aluminio el cual en una reacción exotérmica permite la fundición y empalme de elementos de cobre y acero.

### EMPAQUE:

Cartucho plástico de 15 hasta 250 gms. En cajas de plástico de 10 y 20 unidades cada una.

### ADVERTENCIA:

Las cajas de soldadura deberán almacenarse en lugar seco. Para Evitar su deterioro, Los cartuchos no utilizados de una caja abierta deberán empacarse, preferiblemente, y en bolsa plástica seca bien sellada y en sitio seco.

## WELDING POWDER

### USE:

This is a composite powder of copper oxide and aluminum that allows welding copper and steel in an exothermically reaction us With graphite molds.

### PACKING:

Plastic cartridges of 15 to 250 gms. each. Arranged in boxes of 10 Or 20 units.

### WARNING:

Thermoweld pack should be stored in a dry place to avoid damage of welding powder. Cartridges from an open box must be place in a dry plastic very tightly closed.

| CARGA<br>CARTRIDGE<br>gms | REFERENCIA<br>REFERENCE | CANTIDAD POR CAJA<br>QTY PER BOX |
|---------------------------|-------------------------|----------------------------------|
| 15                        | IG5 015 P               | 20                               |
| 32                        | IG5 032 P               | 20                               |
| 45                        | IG5 045 P               | 20                               |
| 65                        | IG5 065 P               | 20                               |
| 90                        | IG5 090 P               | 10                               |
| 115                       | IG5 115 P               | 10                               |
| 150                       | IG5 150 P               | 10                               |
| 200                       | IG5 200 P               | 10                               |
| 250                       | IG5 250 P               | 10                               |
| 500                       | IG5 500 P               | 10                               |





## MALLAS A TIERRA • GROUNDING SYSTEMS

**SOLDADURA ALUMINOTERMICA • THERMAL WELDED CONNECTIONS**

Soldadura • Welding Powder

### PLACAS DE REFUERZO



El promedio de vida de los moldes TECNOWELD es de 50 soldaduras dependiendo del cuidado y tratamiento que reciben durante su normal uso. El máximo desgaste en los moldes se presenta en las entradas para los cables debido a la presión de cierre sobre cables con redondez imperfecta (ovalados), ocasionando desportillamiento en las entradas del molde. Para aumentar el promedio de vida de los moldes, TECNOWELD ofrece la opción de instalar Placas de Refuerzo en las entradas, disponible para cables calibre 1/0 AWG hasta 500 y electrodos (varillas copperweld) de 1/2" a 1".

### WEAR PLATES

Averages life of a TECNOWELD mold is 50 uses, according to the clearing and handling care it is given. The point that is most commonly damaged is the entry point of the cables to the molds because they suffer the stress of cables that are not totally cylindrical. To improve the life of molds, TECNOWELD offers the possibility of wearplates installation (add-W to the selected reference to order a mold with wareplates), for all molds used with any cable from 1/0 AWG to 500 MCM and grounding rods from 1/2" to 1".



IG738412900  
IG738412905

### MASILLA SELLANTE

Se utiliza para evitar el fugas de la soldadura. Cuando las cavidades del molde se dilatan después de su uso estándar debido al trabajo pesado al que es sometido, se puede usar la masilla sellante para prolongar la vida útil del molde. También se utiliza alrededor del cable trenzado para prevenir fugas. Presentación de 1 y 5 libras. Solo debe usar en la parte exterior del Molde. SI la masilla se aplica en el interior del molde la soldadura podrá quedar defectuosa y ser rechazada.

### KIT DE HERRAMIENTAS

#### GRATA DE BRONCE

Se utiliza para limpiar los cables antes de realizar la conexión



LG64769

LG64749

#### CEPILLO DE FIBRA NATURAL

Se utiliza para limpiar el molde de Grafito sin dañarlo

### ESCOFINA

Se utiliza pala limpiar y remover recubrimientos sobre las superficies de Acero o Hierro  
I38010100RASP



IG638010100RASP

### ANTORCHA MANUAL DE PROPANO

Antorcha manual de Propano usada para precalentar el molde y remover la humedad.

### HAND HELD PROPANE TORCH

Hand held torches are used to preheat the molds to remove any moisture.



LG6 38439100

### LIMPIADOR DE MOLDES

Se utiliza para remover la escoria sobrante acumulada en el crisol del molde y evitar que se tapone

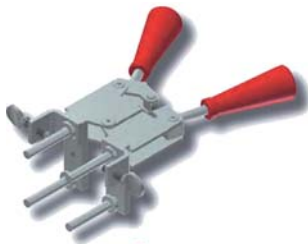


LIMPIADOR DE MOLDES

### PINZA PARA MOLDES Y SOPORTES DE CADENA

Se utilizan para manipular el molde y limpiarlo después de realizada la soldadura. La misma pinza se utiliza para todos los moldes tipo A y B.

IG640031901 para moldes de carga 15 a 65gr  
IG640031903 para moldes de carga 90 a 500gr



IGB106



IG6 40 0106 32



IG6 40 0106 76



IG6 40 0106 78

### PINZA PARA CABLES

Se recomienda para mantener fijos, de forma adecuada, cables de calibre grueso al interior del molde, especialmente cuando los cables están sometidos a tensión o esfuerzos mecánicos. Evita que los cables se salgan del molde cuando se realiza la soldadura.



### PROTECTOR DE VARILLA

Se coloca en la parte superior de la varilla durante su instalación. Evita que la cabeza de la varilla se deforme.

SG6001 protector Varilla de 1/2"

SG6002 protector Varilla de 5/8"

SG6003 protector Varilla de 3/4"

SG6004 protector Varilla de 1"L





## MALLAS A TIERRA • GROUNDING SYSTEMS

### HERRAMIENTAS Y ACCESORIOS • TOOLS AND ACCESSORIES

Kit de Herramientas de Montaje • Tools Kit

#### HERRAMIENTAS Y ACCESORIOS

##### CHISPERO MANUAL



IG6ENA

La soldadura exotérmica se enciende con el material iniciador ( incluido en cada soldadura ), El material iniciador activa por medio de una chispa y no por medio de una flama. Una sola chispa es suficiente para iniciar la reacción.

##### SISTEMA DE ENCENDIDO ELECTRICO REMOTO "EZ Lite Remote®"



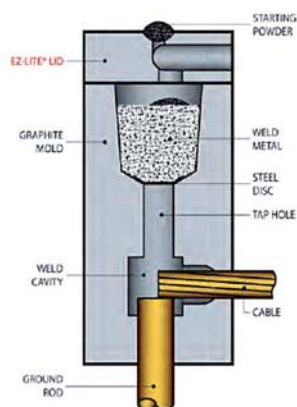
IG638EZLTRU

Es el ultimo avance tecnológico de thermOweld® en conexiones exotérmicas para la industria.

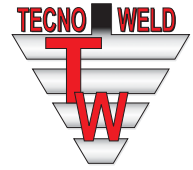
Por mas de 50 años , thermOweld® ha inventado y desarrollado productos y soluciones practicas cmo la mejor opción para los instaladores a nivel mundial.

Se puede utilizar con los moldes y la soldadura estándar que Ud. ya tiene o ha utilizado

Con el sistema EZ Lite Remote®, que esta en proceso de patente en tramite proceso el contratista, instalador o Distribuidor tiene versatilidad y facilidad de uso manual



- \* Use el Chispero o el sistema de encendido electrico EZ Lite Remote® y no se retrase durante el montaje
- \* 100 % de confianza que tendra conecciones bien hechas cuando quiera
- \* No se preocupe por la obselecencia del producto o por materiales que no rotan en el inventario
- \* Solamente lo puede conseguir con Tecnowled
- \* Confiabilidad con patente en proceso – 100% garantía de encendido
- \* No requiere material iniciador.
- \* Compatible con los Moldes Existentes TECNOWELD y la soldadura tradicional thermOweld®.
- \* Triple ventaja – Moldes con tapa liviana con salida de flama lateral + encendido remoto + Garantía y confiabilidad con la reconocida soldadura thermOweld®
- \* Encendido Inmediato – No espere.
- \* Utiliza Baterías Alcalinas "D" disponibles en todas partes para 100's de conexiones.
- \* Incluye indicador de carga de las baterías.
- \* Botones de encendido y operación independientes
- \* Cable y conector resistente al calor, longitud estandard de seis pies, disponible en otras longitudes como opcional



USO: Empalme de dos conductores en cualquier forma, y de calibres iguales o diferentes.

MATERIAL: Cuerpo y tapa en grafito. Bisagra en acero.

ACABADO: Natural.

TAMAÑOS ESTANDAR: Cables desde calibre 8 AWG 1000 MCM.

USE: Any type of connection of two cables. Either the same or different gauges, terminal cables or a tap to a running conductor.

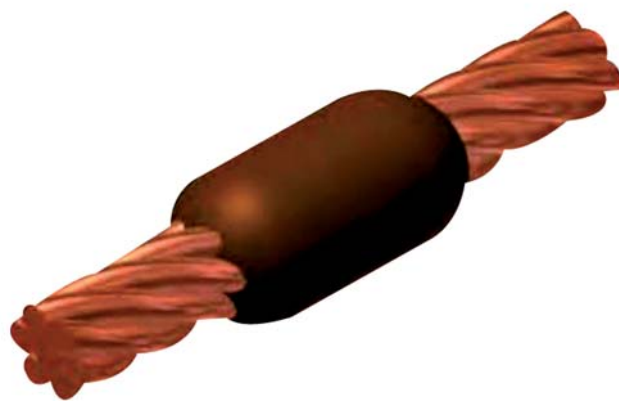
MATERIAL: Graphite body and cover, steel hinge.

FINISH: Natural.

STANDARD SIZES: Conductors from 8 AWG to 1000 MCM.

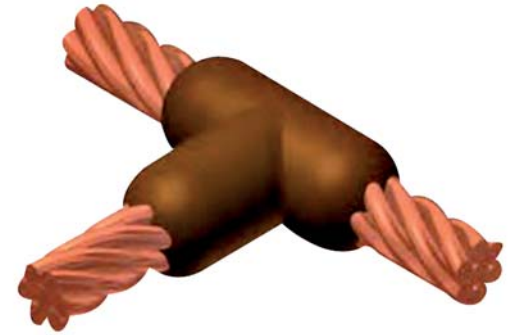
CC1

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1TN 200               | 25                 | <b>A</b> |
| 4       | SG1TN 201               | 25                 |          |
| 3       | SG1TN 202               | 32                 |          |
| 2       | SG1TN 203               | 32                 |          |
| 1       | SG1TN 204               | 32                 |          |
| 1/0     | SG1TN 205               | 45                 |          |
| 2/0     | SG1TN 206               | 65                 |          |
| 3/0     | SG1TN 207               | 90                 |          |
| 4/0     | SG1TN 208               | 90                 |          |
| 250 MCM | SG1TN 209               | 115                |          |
| 300     | SG1TN 210               | 115                |          |
| 350     | SG1TN 211               | 150                |          |
| 500     | SG1TN 213               | 200                |          |
| 750     | SG1TN 214               | 2-150              | <b>B</b> |
| 1000    | SG1TN 215               | 2-200              |          |



# CC2

| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|------------------|-------------------|-------------------------|--------------------|------|
| 4                | 4                 | SG1TN 221               | 32                 | A    |
| 3                | 3                 | SG1TN 222               | 32                 |      |
| 2                | 2                 | SG1TN 223               | 45                 |      |
|                  | 4                 | SG1TN 224               | 45                 |      |
| 1                | 1                 | SG1TN 225               | 45                 |      |
|                  | 2                 | SG1TN 226               | 45                 |      |
|                  | 4                 | SG1TN 227               | 45                 |      |
| 1/0              | 1/0               | <b>SG1TN 228*</b>       | 90                 |      |
|                  | 1                 | SG1TN 229               | 45                 |      |
|                  | 2                 | SG1TN 230               | 45                 |      |
|                  | 4                 | SG1TN 231               | 45                 |      |
| 2/0              | 2/0               | <b>SG1TN 232*</b>       | 90                 |      |
|                  | 1/0               | SG1TN 233               | 90                 |      |
|                  | 1                 | SG1TN 234               | 45                 |      |
|                  | 2                 | SG1TN 235               | 45                 |      |
|                  | 4                 | SG1TN 5475              | 45                 |      |
|                  | 4/0               | SG1TN 5059              | 90                 |      |
| 3/0              | 3/0               | SG1TN 236               | 115                | A    |
|                  | 2/0               | SG1TN 237               | 90                 |      |
|                  | 1/0               | SG1TN 238               | 90                 |      |
|                  | 1                 | SG1TN 239               | 45                 |      |
|                  | 2                 | SG1TN 240               | 45                 |      |
|                  | 4                 | SG1TN 5574              | 45                 |      |
| 4/0              | 4/0               | SG1TN 241               | 150                | A    |
|                  | 3/0               | SG1TN 242               | 115                |      |
|                  | 2/0               | SG1TN 243               | 90                 |      |
|                  | 1/0               | SG1TN 244               | 90                 |      |
|                  | 1                 | SG1TN 245               | 90                 |      |
|                  | 2                 | SG1TN 246               | 90                 |      |
|                  | 4                 | SG1TN 5021              | 90                 |      |
| 250 MCM          | 250 MCM           | SG1TN 247               | 150                | A    |
|                  | 4/0               | SG1TN 248               | 150                |      |
|                  | 3/0               | SG1TN 249               | 150                |      |
|                  | 2/0               | SG1TN 250               | 90                 |      |
|                  | 1/0               | SG1TN 251               | 90                 |      |
|                  | 1                 | SG1TN 252               | 90                 |      |
|                  | 2                 | SG1TN 253               | 90                 |      |
| 300              | 300 MCM           | SG1TN 254               | 200                | A    |
|                  | 250               | SG1TN 255               | 150                |      |
|                  | 4/0               | SG1TN 256               | 150                |      |
|                  | 3/0               | SG1TN 257               | 150                |      |
|                  | 2/0               | SG1TN 258               | 90                 |      |
|                  | 1/0               | SG1TN 259               | 90                 |      |
|                  | 1                 | SG1TN 260               | 90                 |      |
|                  | 2                 | SG1TN 261               | 90                 |      |



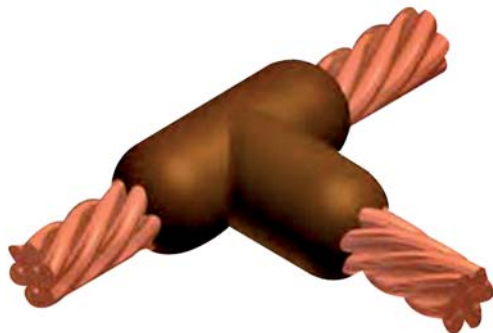


## MALLAS A TIERRA • GROUNDING SYSTEMS

### MOLDES CABLE A CABLE • CABLE TO CABLE MOLDS

Horizontal • Horizontal "T" Connection

CC2



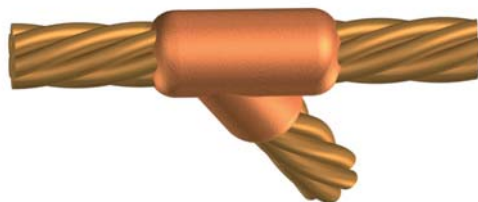
| PRINCIPAL RUN | DERIVACIÓN TAP | REFERENCIA REFERENCE | CARGA CARTRIDGE | TIPO     |
|---------------|----------------|----------------------|-----------------|----------|
| 350           | 350 MCM        | SG1TN 262            | 200             | <b>A</b> |
|               | 300            | SG1TN 263            | 200             |          |
|               | 250            | SG1TN 264            | 200             |          |
|               | 4/0            | SG1TN 265            | 150             |          |
|               | 3/0            | SG1TN 266            | 150             |          |
|               | 2/0            | SG1TN 267            | 90              |          |
|               | 1/0            | SG1TN 268            | 90              |          |
|               | 1              | SG1TN 269            | 90              |          |
|               | 2              | SG1TN 270            | 90              |          |
| 500           | 500 MCM        | SG1TN 280            | 2-150           | <b>B</b> |
|               | 350            | SG1TN 282            | 200             |          |
|               | 300            | SG1TN 283            | 200             |          |
|               | 250            | SG1TN 284            | 200             |          |
|               | 4/0            | SG1TN 285            | 150             | <b>A</b> |
|               | 2/0            | SG1TN 286            | 90              |          |
|               | 1/0            | SG1TN 287            | 90              |          |
|               | 1              | SG1TN 288            | 90              |          |
|               | 2              | SG1TN 289            | 90              |          |
| 750           | 750 MCM        | SG1TN 290            | 500             | <b>D</b> |
|               | 500            | SG1TN 291            | 2-200           | <b>C</b> |
|               | 350            | SG1TN 293            | 250             | <b>B</b> |
|               | 300            | SG1TN 294            | 200             |          |
|               | 250            | SG1TN 295            | 200             | <b>A</b> |
|               | 4/0            | SG1TN 296            | 150             |          |
|               | 2/0            | SG1TN 297            | 150             |          |
|               | 1/0            | SG1TN 298            | 150             |          |
| 1000          | 1000 MCM       | SG1TN 299            | 500             | <b>D</b> |
|               | 750            | SG1TN 300            | 500             | <b>C</b> |
|               | 500            | SG1TN 301            | 2-200           |          |
|               | 350            | SG1TN 303            | 250             | <b>B</b> |
|               | 300            | SG1TN 304            | 200             |          |
|               | 250            | SG1TN 305            | 200             |          |
|               | 4/0            | SG1TN 306            | 150             | <b>A</b> |
|               | 2/0            | SG1TN 307            | 150             |          |
|               | 1/0            | SG1TN 308            | 150             |          |
|               |                |                      |                 |          |

CC5

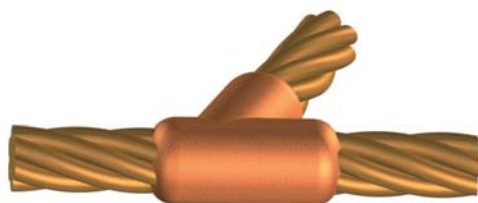
| CABLE RUN | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|-----------|-------------------------|--------------------|------|
| 4         | SG1TN 1251              | 25                 | B    |
| 3         | SG1TN 1252              | 32                 |      |
| 2         | SG1TN 1253              | 32                 |      |
| 1         | SG1TN 1254              | 32                 |      |
| 1/0       | SG1TN 1255              | 45                 |      |
| 2/0       | SG1TN 1256              | 65                 |      |
| 3/0       | SG1TN 1257              | 90                 |      |
| 4/0       | SG1TN 1258              | 90                 |      |
| 250 MCM   | SG1TN 1259              | 115                |      |
| 300       | SG1TN 1260              | 115                |      |
| 350       | SG1TN 1261              | 150                |      |
| 500       | SG1TN 1263              | 200                |      |
| 750       | SG1TN 1264              | 2-150              | D    |
| 1000      | SG1TN 1265              | 2-200              |      |



**DERIVACIÓN IZQUIERDA  
LEFT 30ª CONNECTION**



**DERIVACIÓN DERECHA  
RIGHT 30ª CONNECATION**

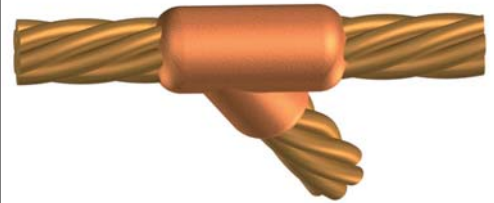


| CABLE            |                   | REFERENCIA • REFERENCE |                  | CARGA     | TIPO |
|------------------|-------------------|------------------------|------------------|-----------|------|
| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | IZQUIERDA<br>LEFT      | DERECHA<br>RIGHT | CARTRIDGE | B    |
| 4                | 4                 | SG1TN 1401             | SG1TN 1491       | 45        |      |
| 3                | 3                 | SG1TN 1402             | SG1TN 1492       | 45        |      |
| 2                | 2                 | SG1TN 1403             | SG1TN 1493       | 65        |      |
|                  | 4                 | SG1TN 1404             | SG1TN 1494       | 65        |      |
| 1                | 1                 | SG1TN 1405             | SG1TN 1495       | 65        |      |
|                  | 2                 | SG1TN 1406             | SG1TN 1496       | 65        |      |
|                  | 4                 | SG1TN 1407             | SG1TN 1497       | 65        |      |
| 1/0              | 1/0               | SG1TN 1408             | SG1TN 1498       | 90        |      |
|                  | 1                 | SG1TN 1409             | SG1TN 1499       | 90        |      |
|                  | 2                 | SG1TN 1410             | SG1TN 1500       | 90        |      |
|                  | 4                 | SG1TN 1411             | SG1TN 1501       | 90        |      |
| 2/0              | 2/0               | SG1TN 1412             | SG1TN 1502       | 115       |      |
|                  | 1/0               | SG1TN 1413             | SG1TN 1503       | 115       |      |
|                  | 1                 | SG1TN 1414             | SG1TN 1504       | 115       |      |
|                  | 2                 | SG1TN 1415             | SG1TN 1505       | 115       |      |
| 3/0              | 3/0               | SG1TN 1416             | SG1TN 1506       | 115       |      |
|                  | 2/0               | SG1TN 1417             | SG1TN 1507       | 115       |      |
|                  | 1/0               | SG1TN 1418             | SG1TN 1508       | 115       |      |
|                  | 1                 | SG1TN 1419             | SG1TN 1509       | 115       |      |
|                  | 2                 | SG1TN 1420             | SG1TN 1510       | 115       |      |
| 4/0              | 4/0               | SG1TN 1421             | SG1TN 1511       | 150       |      |
|                  | 3/0               | SG1TN 1422             | SG1TN 1512       | 150       |      |
|                  | 2/0               | SG1TN 1423             | SG1TN 1513       | 150       |      |
|                  | 1/0               | SG1TN 1424             | SG1TN 1514       | 150       |      |
|                  | 1                 | SG1TN 1425             | SG1TN 1515       | 115       |      |
|                  | 2                 | SG1TN 1426             | SG1TN 1516       | 115       |      |
| 250 MCM          | 250 MCM           | SG1TN 1427             | SG1TN 1517       | 150       |      |
|                  | 4/0               | SG1TN 1428             | SG1TN 1518       | 150       |      |
|                  | 3/0               | SG1TN 1429             | SG1TN 1519       | 150       |      |
|                  | 2/0               | SG1TN 1430             | SG1TN 1520       | 150       |      |
|                  | 1/0               | SG1TN 1431             | SG1TN 1521       | 150       |      |
|                  | 1                 | SG1TN 1432             | SG1TN 1522       | 115       |      |
|                  | 2                 | SG1TN 1433             | SG1TN 1523       | 115       |      |
| 300              | 300 MCM           | SG1TN 1434             | SG1TN 1524       | 200       |      |
|                  | 250               | SG1TN 1435             | SG1TN 1525       | 200       |      |
|                  | 4/0               | SG1TN 1436             | SG1TN 1526       | 200       |      |
|                  | 3/0               | SG1TN 1437             | SG1TN 1527       | 200       |      |
|                  | 2/0               | SG1TN 1438             | SG1TN 1528       | 200       |      |
|                  | 1/0               | SG1TN 1439             | SG1TN 1529       | 200       |      |
|                  | 1                 | SG1TN 1440             | SG1TN 1530       | 150       |      |
|                  | 2                 | SG1TN 1441             | SG1TN 1531       | 150       |      |

# CC9

| CABLE         |                | REFERENCIA • REFERENCE |               | CARGA     | TIPO |
|---------------|----------------|------------------------|---------------|-----------|------|
| PRINCIPAL RUN | DERIVACIÓN TAP | IZQUIERDA LEFT         | DERECHA RIGHT | CARTRIDGE |      |
| 350           | 350 MCM        | SG1TN 1442             | SG1TN 1532    | 200       | B    |
|               | 300            | SG1TN 1443             | SG1TN 1533    | 200       |      |
|               | 250            | SG1TN 1444             | SG1TN 1534    | 200       |      |
|               | 4/0            | SG1TN 1445             | SG1TN 1535    | 200       |      |
|               | 3/0            | SG1TN 1446             | SG1TN 1536    | 200       |      |
|               | 2/0            | SG1TN 1447             | SG1TN 1537    | 200       |      |
|               | 1/0            | SG1TN 1448             | SG1TN 1538    | 200       |      |
|               | 1              | SG1TN 1449             | SG1TN 1539    | 150       |      |
|               | 2              | SG1TN 1450             | SG1TN 1540    | 150       |      |
| 500           | 500 MCM        | SG1TN 1461             | SG1TN 1551    | 2-150     | B    |
|               | 350            | SG1TN 1463             | SG1TN 1553    | 2-150     |      |
|               | 300            | SG1TN 1464             | SG1TN 1554    | 250       |      |
|               | 250            | SG1TN 1465             | SG1TN 1555    | 250       |      |
|               | 4/0            | SG1TN 1466             | SG1TN 1556    | 250       |      |
|               | 3/0            | SG1TN 1467             | SG1TN 1557    | 250       |      |
|               | 2/0            | SG1TN 1468             | SG1TN 1558    | 250       |      |
|               | 1/0            | SG1TN 1469             | SG1TN 1559    | 250       |      |
|               | 1              | SG1TN 1470             | SG1TN 1560    | 200       |      |
|               | 2              | SG1TN 1471             | SG1TN 1561    | 200       |      |
| 750           | 750 MCM        | SG1TN 1472             | SG1TN 1562    | 3-200     | C    |
|               | 500            | SG1TN 1473             | SG1TN 1563    | 500       |      |
|               | 350            | SG1TN 1475             | SG1TN 1565    | 500       |      |
|               | 300            | SG1TN 1476             | SG1TN 1566    | 2-200     |      |
|               | 250            | SG1TN 1477             | SG1TN 1567    | 2-150     |      |
|               | 4/0            | SG1TN 1478             | SG1TN 1568    | 250       | B    |
|               | 2/0            | SG1TN 1479             | SG1TN 1569    | 250       |      |
|               | 1/0            | SG1TN 1480             | SG1TN 1570    | 250       |      |
|               |                |                        |               |           |      |
| 1000          | 1000 MCM       | SG1TN 1481             | SG1TN 1571    | 3-250     | D    |
|               | 750            | SG1TN 1482             | SG1TN 1572    | 3-200     |      |
|               | 500            | SG1TN 1483             | SG1TN 1573    | 500       |      |
|               | 350            | SG1TN 1485             | SG1TN 1575    | 500       |      |
|               | 300            | SG1TN 1486             | SG1TN 1576    | 2-200     |      |
|               | 250            | SG1TN 1487             | SG1TN 1577    | 2-200     | C    |
|               | 4/0            | SG1TN 1488             | SG1TN 1578    | 250       |      |
|               | 2/0            | SG1TN 1489             | SG1TN 1579    | 250       |      |
|               | 1/0            | SG1TN 1490             | SG1TN 1580    | 250       |      |
|               |                |                        |               |           |      |

DERIVACIÓN IZQUIERDA  
LEFT 30° CONNECTION

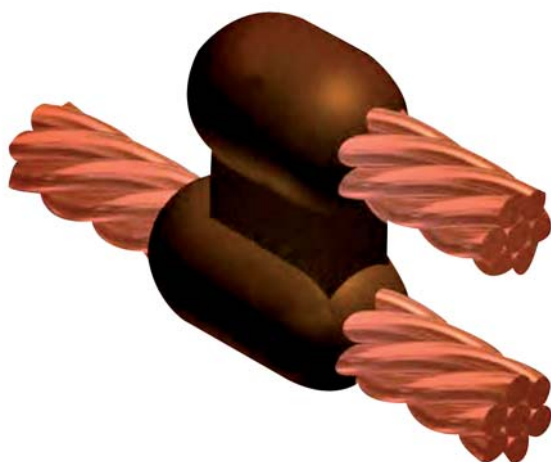


DERIVACIÓN DERECHA  
RIGHT 30° CONNECTION



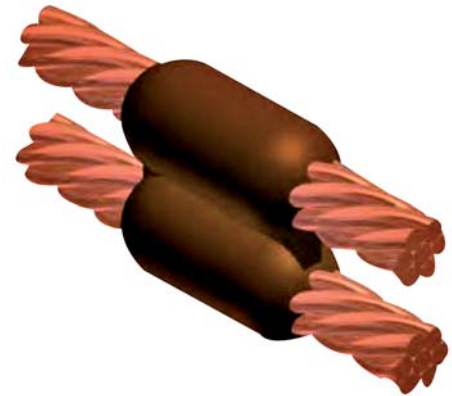
**CC6**

| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|------------------|-------------------|-------------------------|--------------------|------|
| 6<br>4           | 6                 | SG1TN 1271              | 25                 | A    |
|                  | 4                 | SG1TN 1272              | 32                 |      |
|                  | 6                 | SG1TN 1273              | 32                 |      |
| 2                | 2                 | SG1TN 1276              | 65                 |      |
|                  | 4                 | SG1TN 1277              | 45                 |      |
|                  | 6                 | SG1TN 1278              | 32                 |      |
| 1                | 1                 | SG1TN 1281              | 65                 |      |
|                  | 2                 | SG1TN 1282              | 65                 |      |
|                  | 4                 | SG1TN 1283              | 45                 |      |
|                  | 6                 | SG1TN 1284              | 45                 |      |
| 1/0              | 1/0               | SG1TN 1287              | 90                 |      |
|                  | 1                 | SG1TN 1288              | 90                 |      |
|                  | 2                 | SG1TN 1289              | 65                 |      |
|                  | 4                 | SG1TN 1290              | 65                 |      |
|                  | 6                 | SG1TN 1291              | 45                 |      |
| 2/0              | 2/0               | SG1TN 1294              | 115                |      |
|                  | 1/0               | SG1TN 1295              | 115                |      |
|                  | 1                 | SG1TN 1296              | 90                 |      |
|                  | 2                 | SG1TN 1297              | 90                 |      |
|                  | 4                 | SG1TN 1298              | 65                 |      |
|                  | 6                 | SG1TN 1299              | 65                 |      |
| 4/0              | 4/0               | SG1TN 1302              | 150                |      |
|                  | 2/0               | SG1TN 1303              | 115                |      |
|                  | 1/0               | SG1TN 1304              | 115                |      |
|                  | 1                 | SG1TN 1305              | 115                |      |
|                  | 2                 | SG1TN 1306              | 115                |      |
|                  | 4                 | SG1TN 1307              | 90                 |      |
|                  | 6                 | SG1TN 1308              | 90                 |      |

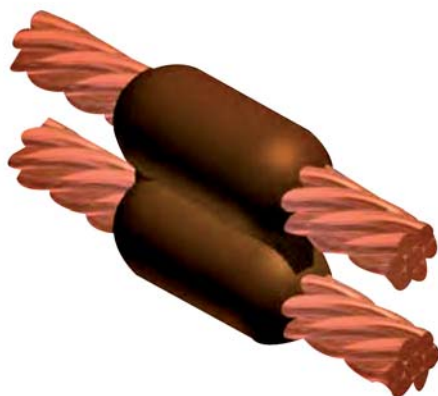


# CC7

| PRINCIPAL RUN | DERIVACIÓN TAP | REFERENCIA REFERENCE | CARGA CARTRIDGE | TIPO |
|---------------|----------------|----------------------|-----------------|------|
| 4             | 4              | SG1TN 1311           | 32              | A    |
| 3             | 3              | SG1TN 1312           | 45              |      |
| 2             | 2              | SG1TN 1313           | 65              |      |
|               | 4              | SG1TN 1314           | 65              |      |
| 1             | 1              | SG1TN 1315           | 65              |      |
|               | 2              | SG1TN 1316           | 65              |      |
|               | 4              | SG1TN 1317           | 65              |      |
| 1/0           | 1/0            | SG1TN 1318           | 90              |      |
|               | 1              | SG1TN 1319           | 65              |      |
|               | 2              | SG1TN 1320           | 65              |      |
|               | 4              | SG1TN 1321           | 65              |      |
| 2/0           | 2/0            | SG1TN 1322           | 115             |      |
|               | 1/0            | SG1TN 1323           | 115             |      |
|               | 1              | SG1TN 1324           | 90              |      |
|               | 2              | SG1TN 1325           | 90              |      |
| 3/0           | 3/0            | SG1TN 1326           | 150             |      |
|               | 2/0            | SG1TN 1327           | 150             |      |
|               | 1/0            | SG1TN 1328           | 115             |      |
|               | 1              | SG1TN 1329           | 115             |      |
|               | 2              | SG1TN 1330           | 115             |      |
| 4/0           | 4/0            | SG1TN 1331           | 200             |      |
|               | 3/0            | SG1TN 1332           | 200             |      |
|               | 2/0            | SG1TN 1333           | 150             |      |
|               | 1/0            | SG1TN 1334           | 150             |      |
|               | 1              | SG1TN 1335           | 150             |      |
|               | 2              | SG1TN 1336           | 150             |      |
| 250 MCM       | 250 MCM        | SG1TN 1337           | 250             | B    |
|               | 4/0            | SG1TN 1338           | 200             | A    |
|               | 3/0            | SG1TN 1339           | 200             |      |
|               | 2/0            | SG1TN 1340           | 150             |      |
|               | 1/0            | SG1TN 1341           | 150             |      |
|               | 1              | SG1TN 1342           | 150             |      |
|               | 2              | SG1TN 1343           | 150             |      |
| 300           | 300 MCM        | SG1TN 1344           | 2-150           | C    |
|               | 250            | SG1TN 1345           | 250             | B    |
|               | 4/0            | SG1TN 1346           | 200             | A    |
|               | 3/0            | SG1TN 1347           | 200             |      |
|               | 2/0            | SG1TN 1348           | 150             |      |
|               | 1/0            | SG1TN 1349           | 150             |      |
|               | 1              | SG1TN 1350           | 150             |      |
|               | 2              | SG1TN 1351           | 150             |      |



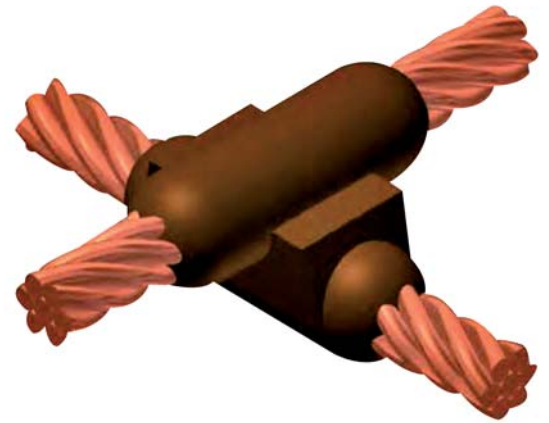
**CC7**



| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|------------------|-------------------|-------------------------|--------------------|----------|
| 350              | 350 MCM           | SG1TN 1352              | 2-150              | <b>C</b> |
|                  | 300               | SG1TN 1353              | 2-150              |          |
|                  | 250               | SG1TN 1354              | 250                |          |
|                  | 4/0               | SG1TN 1355              | 200                | <b>B</b> |
|                  | 3/0               | SG1TN 1356              | 200                |          |
|                  | 2/0               | SG1TN 1357              | 150                | <b>A</b> |
|                  | 1/0               | SG1TN 1358              | 150                |          |
|                  | 1                 | SG1TN 1359              | 150                |          |
|                  | 2                 | SG1TN 1360              | 150                |          |
| 500              | 500 MCM           | SG1TN 1371              | 2-200              | <b>C</b> |
|                  | 350               | SG1TN 1373              | 2-150              |          |
|                  | 300               | SG1TN 1374              | 2-150              |          |
|                  | 250               | SG1TN 1375              | 250                | <b>B</b> |
|                  | 4/0               | SG1TN 1376              | 200                |          |
|                  | 3/0               | SG1TN 1377              | 200                | <b>A</b> |
|                  | 2/0               | SG1TN 1378              | 150                |          |
|                  | 1/0               | SG1TN 1379              | 150                |          |
|                  | 1                 | SG1TN 1380              | 150                |          |
|                  | 2                 | SG1TN 1381              | 150                |          |
| 750              | 750 MCM           | SG1TN 1382              | 3-250              | <b>D</b> |
|                  | 500               | SG1TN 1383              | 500                |          |
|                  | 350               | SG1TN 1385              | 2-200              | <b>C</b> |
|                  | 300               | SG1TN 1386              | 2-150              |          |
|                  | 250               | SG1TN 1387              | 2-150              |          |
|                  | 4/0               | SG1TN 1388              | 250                | <b>B</b> |
|                  | 2/0               | SG1TN 1389              | 250                |          |
|                  | 1/0               | SG1TN 1390              | 250                |          |
| 1000             | 1000 MCM          | SG1TN 1391              | 2-500              | <b>D</b> |
|                  | 750               | SG1TN 1392              | 3-250              |          |
|                  | 500               | SG1TN 1393              | 500                |          |
|                  | 350               | SG1TN 1395              | 2-150              | <b>C</b> |
|                  | 300               | SG1TN 1396              | 2-150              |          |
|                  | 250               | SG1TN 1397              | 250                | <b>B</b> |
|                  | 4/0               | SG1TN 1398              | 250                |          |
|                  | 2/0               | SG1TN 1399              | 250                |          |
|                  | 1/0               | SG1TN 1400              | 250                |          |
|                  |                   |                         |                    |          |

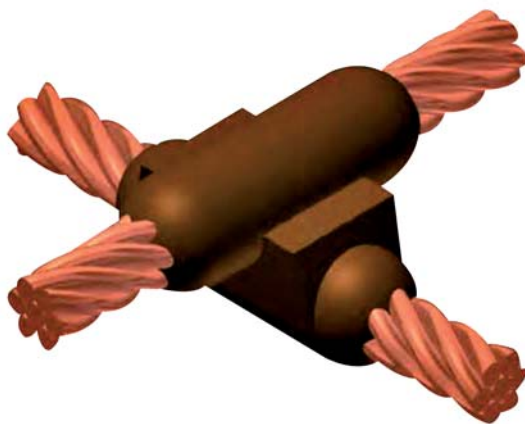
# CC11

| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|------------------|-------------------|-------------------------|--------------------|------|
| 4                | 4                 | SG1TN 2687              | 65                 | A    |
| 3                | 3                 | SG1TN 2688              | 65                 |      |
| 2                | 2                 | SG1TN 2689              | 90                 |      |
|                  | 4                 | SG1TN 2690              | 65                 |      |
| 1                | 1                 | SG1TN 2691              | 115                |      |
|                  | 2                 | SG1TN 2692              | 90                 |      |
|                  | 4                 | SG1TN 2693              | 90                 |      |
| 1/0              | 1/0               | SG1TN 2694              | 150                |      |
|                  | 1                 | SG1TN 2695              | 150                |      |
|                  | 2                 | SG1TN 2696              | 115                |      |
|                  | 4                 | SG1TN 2697              | 115                |      |
| 2/0              | 2/0               | SG1TN 2698              | 200                | A    |
|                  | 1/0               | SG1TN 2699              | 200                |      |
|                  | 1                 | SG1TN 2700              | 150                |      |
|                  | 2                 | SG1TN 2701              | 150                |      |
| 3/0              | 3/0               | SG1TN 2702              | 250                | B    |
|                  | 2/0               | SG1TN 2703              | 200                |      |
|                  | 1/0               | SG1TN 2704              | 200                |      |
|                  | 1                 | SG1TN 2705              | 150                |      |
|                  | 2                 | SG1TN 2706              | 150                |      |
| 4/0              | 4/0               | SG1TN 2707              | 250                | B    |
|                  | 3/0               | SG1TN 2708              | 250                |      |
|                  | 2/0               | SG1TN 2709              | 200                |      |
|                  | 1/0               | SG1TN 2710              | 200                |      |
|                  | 1                 | SG1TN 2711              | 150                |      |
|                  | 2                 | SG1TN 2712              | 150                |      |
| 250 MCM          | 250 MCM           | SG1TN 2713              | 2-150              | I    |
|                  | 4/0               | SG1TN 2714              | 2-150              |      |
|                  | 3/0               | SG1TN 2715              | 2-150              |      |
|                  | 2/0               | SG1TN 2716              | 250                |      |
|                  | 1/0               | SG1TN 2717              | 250                |      |
|                  | 1                 | SG1TN 2718              | 200                |      |
|                  | 2                 | SG1TN 2719              | 150                |      |



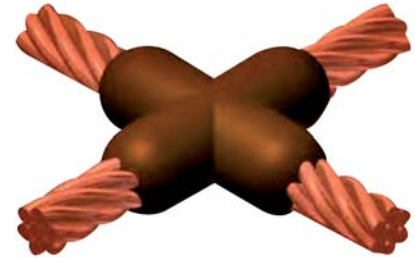
**CC11**

| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|------------------|-------------------|-------------------------|--------------------|----------|
| 300              | 300 MCM           | SG1TN 2720              | 2-200              | <b>I</b> |
|                  | 250               | SG1TN 2721              | 2-200              |          |
|                  | 4/0               | SG1TN 2722              | 2-150              |          |
|                  | 3/0               | SG1TN 2723              | 2-150              |          |
|                  | 2/0               | SG1TN 2724              | 250                |          |
|                  | 1/0               | SG1TN 2725              | 250                |          |
|                  | 1                 | SG1TN 2726              | 200                |          |
|                  | 2                 | SG1TN 2727              | 150                |          |
| 350              | 350 MCM           | SG1TN 2728              | 500                | <b>I</b> |
|                  | 300               | SG1TN 2729              | 500                |          |
|                  | 250               | SG1TN 2730              | 500                |          |
|                  | 4/0               | SG1TN 2731              | 2-200              |          |
|                  | 3/0               | SG1TN 2732              | 2-200              |          |
|                  | 2/0               | SG1TN 2733              | 2-150              |          |
|                  | 1/0               | SG1TN 2734              | 200                |          |
|                  | 1                 | SG1TN 2735              | 200                |          |
| 500              | 500 MCM           | SG1TN 2747              | 3-250              | <b>I</b> |
|                  | 350               | SG1TN 2749              | 3-200              |          |
|                  | 300               | SG1TN 2750              | 3-200              |          |
|                  | 250               | SG1TN 2751              | 500                |          |
|                  | 4/0               | SG1TN 2752              | 500                |          |
|                  | 3/0               | SG1TN 2753              | 500                |          |
|                  | 2/0               | SG1TN 2754              | 2-200              |          |
|                  | 1/0               | SG1TN 2755              | 2-150              |          |
|                  | 1                 | SG1TN 2756              | 250                |          |
|                  | 2                 | SG1TN 2757              | 250                |          |



# CC4

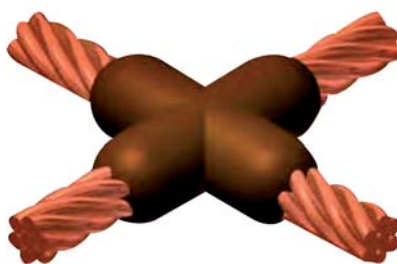
| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|------------------|-------------------|-------------------------|--------------------|------|
| 4                | 4                 | SG1TN 423               | 45                 | A    |
| 3                | 3                 | SG1TN 424               | 45                 |      |
| 2                | 2                 | SG1TN 425               | 65                 |      |
|                  | 4                 | SG1TN 426               | 65                 |      |
| 1                | 1                 | SG1TN 427               | 65                 |      |
|                  | 2                 | SG1TN 428               | 65                 |      |
|                  | 4                 | SG1TN 429               | 65                 |      |
| 1/0              | 1/0               | SG1TN 430               | 90                 |      |
|                  | 1                 | SG1TN 431               | 90                 |      |
|                  | 2                 | SG1TN 432               | 90                 |      |
|                  | 4                 | SG1TN 433               | 90                 |      |
| 2/0              | 2/0               | <b>SG1TN 434*</b>       | 115                |      |
|                  | 1/0               | SG1TN 435               | 115                |      |
|                  | 1                 | SG1TN 436               | 115                |      |
|                  | 2                 | SG1TN 437               | 115                |      |
| 3/0              | 3/0               | SG1TN 438               | 150                |      |
|                  | 2/0               | SG1TN 439               | 150                |      |
|                  | 1/0               | SG1TN 440               | 115                |      |
|                  | 1                 | SG1TN 441               | 115                |      |
|                  | 2                 | SG1TN 442               | 115                |      |
| 4/0              | 4/0               | SG1TN 443               | 200                |      |
|                  | 3/0               | SG1TN 444               | 200                |      |
|                  | 2/0               | SG1TN 445               | 150                |      |
|                  | 1/0               | SG1TN 446               | 115                |      |
|                  | 1                 | SG1TN 447               | 115                |      |
|                  | 2                 | SG1TN 448               | 115                |      |
| 250 MCM          | 250 MCM           | SG1TN 449               | 200                | B    |
|                  | 4/0               | SG1TN 450               | 200                | A    |
|                  | 3/0               | SG1TN 451               | 200                |      |
|                  | 2/0               | SG1TN 452               | 150                |      |
|                  | 1/0               | SG1TN 453               | 150                |      |
|                  | 1                 | SG1TN 454               | 115                |      |
|                  | 2                 | SG1TN 455               | 115                |      |



\* Certificado UL E359848

**CC4**

| PRINCIPAL<br>RUN | DERIVACIÓN<br>TAP | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|------------------|-------------------|-------------------------|--------------------|----------|
| 300              | 300 MCM           | SG1TN 456               | 250                | <b>B</b> |
|                  | 250               | SG1TN 457               | 250                |          |
|                  | 4/0               | SG1TN 458               | 200                |          |
|                  | 3/0               | SG1TN 459               | 200                |          |
|                  | 2/0               | SG1TN 460               | 150                | <b>A</b> |
|                  | 1/0               | SG1TN 461               | 150                |          |
|                  | 1                 | SG1TN 462               | 115                |          |
|                  | 2                 | SG1TN 463               | 115                |          |
|                  |                   |                         |                    |          |
| 350              | 350 MCM           | SG1TN 464               | 250                | <b>B</b> |
|                  | 300               | SG1TN 465               | 250                |          |
|                  | 250               | SG1TN 466               | 250                |          |
|                  | 4/0               | SG1TN 467               | 200                |          |
|                  | 3/0               | SG1TN 468               | 200                |          |
|                  | 2/0               | SG1TN 469               | 200                |          |
|                  | 1/0               | SG1TN 470               | 200                |          |
|                  | 1                 | SG1TN 471               | 150                | <b>A</b> |
|                  | 2                 | SG1TN 472               | 150                |          |
|                  |                   |                         |                    |          |
|                  |                   |                         |                    |          |
|                  |                   |                         |                    |          |
| 500              | 500 MCM           | SG1TN 483               | 500                | <b>D</b> |
|                  | 350               | SG1TN 485               | 2-200              | <b>C</b> |
|                  | 300               | SG1TN 486               | 2-200              |          |
|                  | 250               | SG1TN 487               | 2-150              |          |
|                  | 4/0               | SG1TN 488               | 2-150              |          |
|                  | 3/0               | SG1TN 489               | 2-150              |          |
|                  | 2/0               | SG1TN 490               | 250                | <b>B</b> |
|                  | 1/0               | SG1TN 491               | 250                |          |
|                  | 1                 | SG1TN 492               | 200                | <b>A</b> |
|                  | 2                 | SG1TN 493               | 200                |          |
|                  |                   |                         |                    |          |
|                  |                   |                         |                    |          |





USO:

Para empalme de un conductor de cobre a varilla copperweld.

MATERIAL:

Cuerpo y tapa en grafito, bisagra en acero.

ACABADO:

Natural.

TAMAÑOS ESTANDAR:

Para conductores desde 2 AWG hasta 1000 MCM, varillas desde ½" hasta 1".

USE:

For connection of copper cable to ground rod.

MATERIAL:

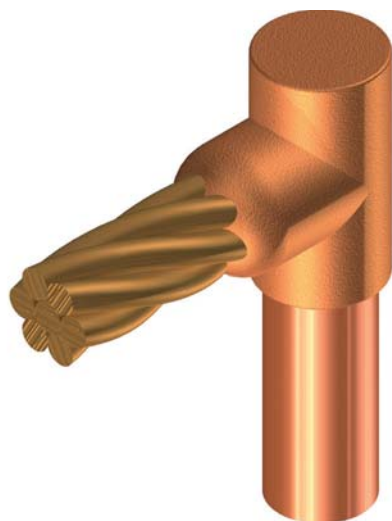
Graphite body and cover, steel hinge.

FINISH:

Natural.

STANDARD SIZES:

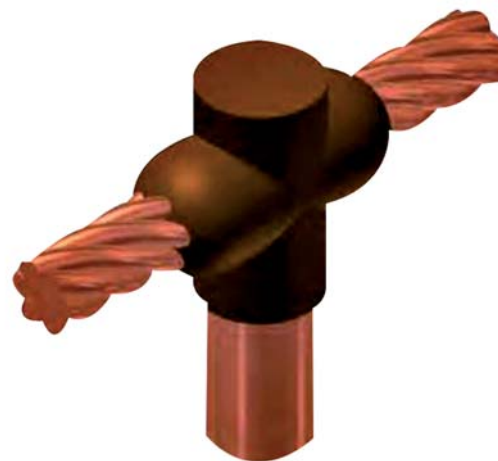
Conductors from 2 AWG to 1000 MCM, rods from ½" to 1".



| VARILLA<br>ROD | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|---------|-------------------------|--------------------|------|
| 1/2"           | 2       | SG1TN 495               | 65                 | A    |
|                | 1       | SG1TN 496               | 65                 |      |
|                | 1/0     | SG1TN 497               | 90                 |      |
|                | 2/0     | SG1TN 498               | 90                 |      |
|                | 3/0     | SG1TN 499               | 90                 |      |
|                | 4/0     | SG1TN 500               | 90                 |      |
|                | 250 MCM | SG1TN 501               | 90                 |      |
|                | 300     | SG1TN 502               | 90                 |      |
| 5/8"           | 6       | SG1TN 8414              | 32                 |      |
|                | 4       | SG1TN 8415              | 32                 |      |
|                | 2       | SG1TN 503               | 65                 |      |
|                | 1       | SG1TN 504               | 65                 |      |
|                | 1/0     | SG1TN 505               | 90                 |      |
|                | 2/0     | SG1TN 506               | 90                 |      |
|                | 3/0     | SG1TN 507               | 90                 |      |
|                | 4/0     | SG1TN 508               | 90                 |      |
|                | 250 MCM | SG1TN 509               | 90                 |      |
|                | 300     | SG1TN 510               | 115                |      |
|                | 350     | SG1TN 511               | 115                |      |
|                | 500     | SG1TN 513               | 150                | B    |
| 3/4"           | 1       | SG1TN 514               | 90                 | A    |
|                | 1/0     | SG1TN 515               | 90                 |      |
|                | 2/0     | SG1TN 516               | 90                 |      |
|                | 3/0     | SG1TN 517               | 90                 |      |
|                | 4/0     | SG1TN 518               | 90                 |      |
|                | 250 MCM | SG1TN 519               | 90                 |      |
|                | 300     | SG1TN 520               | 115                |      |
|                | 350     | SG1TN 521               | 115                |      |
|                | 500     | SG1TN 523               | 150                |      |
|                | 750     | SG1TN 524               | 250                | B    |
| 1"             | 1/0     | SG1TN 525               | 150                | A    |
|                | 2/0     | SG1TN 526               | 150                |      |
|                | 3/0     | SG1TN 527               | 150                |      |
|                | 4/0     | SG1TN 528               | 150                |      |
|                | 250 MCM | SG1TN 529               | 150                |      |
|                | 300     | SG1TN 530               | 200                |      |
|                | 350     | SG1TN 531               | 200                |      |
|                | 500     | SG1TN 533               | 200                |      |
|                | 750     | SG1TN 534               | 250                | B    |
|                | 1000    | SG1TN 535               | 2-150              | C    |

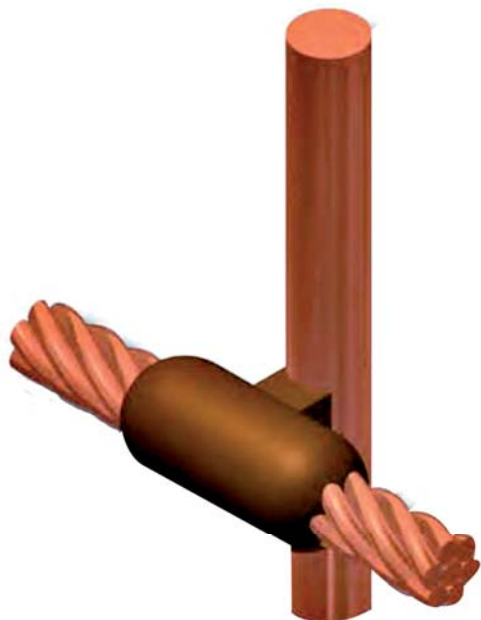
## CR2

| VARILLA<br>ROD | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|---------|-------------------------|--------------------|------|
| 1/2"           | 2       | SG1TN 537               | 90                 | A    |
|                | 1       | SG1TN 538               | 90                 |      |
|                | 1/0     | SG1TN 539               | 90                 |      |
|                | 2/0     | SG1TN 540               | 90                 |      |
|                | 3/0     | SG1TN 541               | 115                |      |
|                | 4/0     | SG1TN 542               | 115                |      |
|                | 250 MCM | SG1TN 543               | 150                |      |
|                | 300     | SG1TN 544               | 200                |      |
| 5/8"           | 6       | SG1TN 8441              | 32                 |      |
|                | 4       | SG1TN 8442              | 32                 |      |
|                | 2       | SG1TN 545               | 90                 |      |
|                | 1       | SG1TN 546               | 90                 |      |
|                | 1/0     | SG1TN 547               | 90                 |      |
|                | 2/0     | <b>SG1TN 548*</b>       | 115                |      |
|                | 3/0     | SG1TN 549               | 115                |      |
|                | 4/0     | <b>SG1TN 550*</b>       | 115                |      |
|                | 250 MCM | SG1TN 551               | 150                |      |
|                | 300     | SG1TN 552               | 200                |      |
|                | 350     | SG1TN 553               | 200                |      |
|                | 500     | SG1TN 555               | 250                | B    |
| 3/4"           | 2       | SG1TN 556               | 90                 | A    |
|                | 1       | SG1TN 557               | 90                 |      |
|                | 1/0     | SG1TN 558               | 115                |      |
|                | 2/0     | SG1TN 559               | 115                |      |
|                | 3/0     | SG1TN 560               | 115                |      |
|                | 4/0     | SG1TN 561               | 115                |      |
|                | 250 MCM | SG1TN 562               | 150                |      |
|                | 300     | SG1TN 563               | 200                |      |
|                | 350     | SG1TN 564               | 200                | B    |
|                | 500     | SG1TN 566               | 250                |      |
|                | 750     | SG1TN 567               | 2-200              |      |
|                | 1000    | SG1TN 568               | 500                | D    |
| 1"             | 1/0     | SG1TN 569               | 150                | A    |
|                | 2/0     | SG1TN 570               | 150                |      |
|                | 3/0     | SG1TN 571               | 150                |      |
|                | 4/0     | SG1TN 572               | 150                |      |
|                | 250 MCM | SG1TN 573               | 200                | B    |
|                | 300     | SG1TN 574               | 200                |      |
|                | 350     | SG1TN 575               | 200                |      |
|                | 500     | SG1TN 577               | 250                |      |
|                | 750     | SG1TN 578               | 2-200              | C    |
|                | 1000    | SG1TN 579               | 500                | D    |



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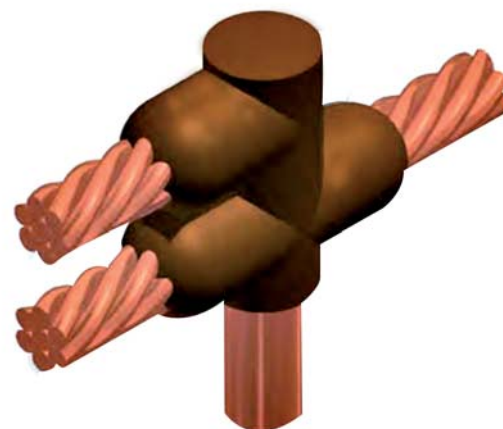
**CR3**

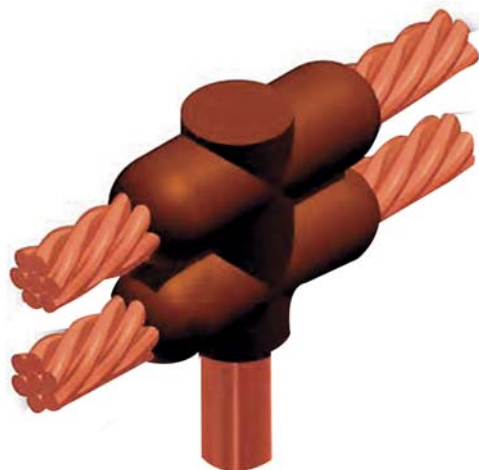


| VARILLA<br>ROD | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|----------------|---------|-------------------------|--------------------|----------|
| 1/2"           | 4       | SG1TN 2154              | 90                 | <b>B</b> |
|                | 2       | SG1TN 2155              | 90                 |          |
|                | 1       | SG1TN 2156              | 115                |          |
|                | 1/0     | SG1TN 1581              | 115                |          |
|                | 2/0     | SG1TN 1582              | 115                |          |
|                | 4/0     | SG1TN 1583              | 150                |          |
|                | 250 MCM | SG1TN 1584              | 150                |          |
|                | 300     | SG1TN 1585              | 200                |          |
| 5/8"           | 4       | SG1TN 2157              | 90                 | <b>I</b> |
|                | 2       | SG1TN 2158              | 90                 |          |
|                | 1       | SG1TN 2159              | 115                |          |
|                | 1/0     | SG1TN 1586              | 115                |          |
|                | 2/0     | SG1TN 1587              | 115                |          |
|                | 4/0     | SG1TN 1588              | 150                |          |
|                | 250 MCM | SG1TN 1589              | 150                |          |
|                | 300     | SG1TN 1590              | 200                |          |
|                | 350     | SG1TN 1591              | 250                |          |
|                | 500     | SG1TN 1593              | 2-200              |          |
| 3/4"           | 4       | SG1TN 2160              | 90                 | <b>B</b> |
|                | 2       | SG1TN 2161              | 90                 |          |
|                | 1       | SG1TN 2162              | 115                |          |
|                | 1/0     | SG1TN 1594              | 115                |          |
|                | 2/0     | SG1TN 1595              | 115                |          |
|                | 4/0     | SG1TN 1596              | 150                | <b>I</b> |
|                | 250 MCM | SG1TN 1597              | 200                |          |
|                | 300     | SG1TN 1598              | 250                |          |
|                | 350     | SG1TN 1599              | 2-150              |          |
|                | 500     | SG1TN 1601              | 500                |          |
| 1"             | 750     | SG1TN 1602              | 3-250              | <b>B</b> |
|                | 4       | SG1TN 2163              | 90                 |          |
|                | 2       | SG1TN 2164              | 90                 |          |
|                | 1       | SG1TN 2165              | 115                |          |
|                | 1/0     | SG1TN 1603              | 115                |          |
|                | 2/0     | SG1TN 1604              | 115                |          |
|                | 4/0     | SG1TN 1605              | 150                | <b>I</b> |
|                | 250 MCM | SG1TN 1606              | 200                |          |
|                | 300     | SG1TN 1607              | 250                |          |
|                | 350     | SG1TN 1608              | 2-150              |          |
|                | 500     | SG1TN 1610              | 500                |          |
|                | 750     | SG1TN 1611              | 3-250              |          |
|                | 1000    | SG1TN 1612              | 3-250              |          |

# CR17

| VARILLA<br>ROD | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|---------|-------------------------|--------------------|------|
| 1/2"           | 4       | SG1TN 5416              | 90                 | A    |
|                | 2       | SG1TN 6165              | 90                 |      |
|                | 1       | SG1TN 5830              | 90                 |      |
|                | 1/0     | SG1TN 5940              | 115                |      |
|                | 2/0     | SG1TN 5850              | 150                | B    |
|                | 3/0     | SG1TN 5833              | 200                |      |
|                | 4/0     | SG1TN 5380              | 200                |      |
| 5/8"           | 4       | SG1TN 5972              | 90                 | A    |
|                | 2       | SG1TN 5935              | 115                |      |
|                | 1       | SG1TN 5699              | 115                |      |
|                | 1/0     | SG1TN 5746              | 150                |      |
|                | 2/0     | SG1TN 5963              | 200                | B    |
|                | 3/0     | SG1TN 5734              | 250                |      |
|                | 4/0     | SG1TN 5732              | 250                |      |
|                | 250 MCM | SG1TN 5722              | 2-150              | C    |
| 3/4"           | 4       | SG1TN 5698              | 90                 | A    |
|                | 2       | SG1TN 5294              | 115                |      |
|                | 1       | SG1TN 5390              | 115                |      |
|                | 1/0     | SG1TN 6025              | 150                |      |
|                | 2/0     | SG1TN 5738              | 200                | B    |
|                | 3/0     | SG1TN 6003              | 250                |      |
|                | 4/0     | SG1TN 2566              | 250                |      |
|                | 250 MCM | SG1TN 5904              | 2-150              | C    |
|                | 300     | SG1TN 5857              | 2-200              |      |
|                | 350     | SG1TN 5777              | 2-200              |      |
|                | 500     | SG1TN 5961              | 3-200              | D    |
| 1"             | 4       | SG1TN 5556              | 115                | A    |
|                | 2       | SG1TN 5555              | 150                |      |
|                | 1       | SG1TN 6048              | 150                |      |
|                | 1/0     | SG1TN 5992              | 200                | B    |
|                | 2/0     | SG1TN 5877              | 250                |      |
|                | 3/0     | SG1TN 5821              | 2-150              | C    |
|                | 4/0     | SG1TN 5820              | 2-150              |      |
|                | 250 MCM | SG1TN 5807              | 2-200              |      |
|                | 300     | SG1TN 5803              | 500                |      |
|                | 350     | SG1TN 5561              | 500                | D    |
|                | 500     | SG1TN 5515              | 3-250              |      |
|                | 750     | SG1TN 5513              | 2-500              |      |



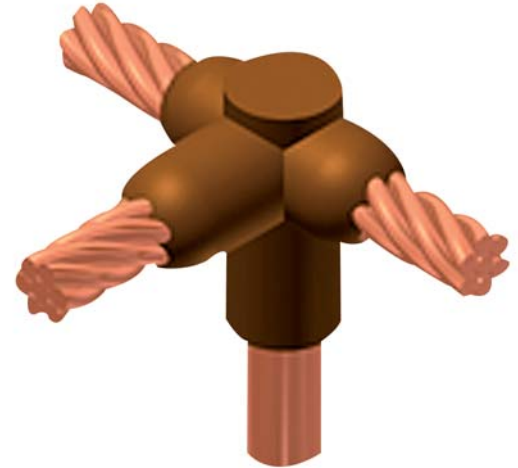


| VARILLA<br>ROD | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|---------|-------------------------|--------------------|------|
| 1/2"           | 4       | SG1TN 5640              | 115                | A    |
|                | 2       | SG1TN 5667              | 115                |      |
|                | 1       | SG1TN 6002              | 115                |      |
|                | 1/0     | SG1TN 5767              | 150                |      |
|                | 2/0     | SG1TN 5604              | 200                | B    |
|                | 3/0     | SG1TN 5560              | 250                |      |
|                | 4/0     | SG1TN 6766              | 250                |      |
| 5/8"           | 4       | SG1TN 6208              | 115                | A    |
|                | 2       | SG1TN 5702              | 150                |      |
|                | 1       | SG1TN 5517              | 150                |      |
|                | 1/0     | SG1TN 5573              | 200                | B    |
|                | 2/0     | SG1TN 8451              | 250                |      |
|                | 3/0     | SG1TN 2510              | 2-150              | C    |
|                | 4/0     | SG1TN 5428              | 2-150              |      |
|                | 250 MCM | SG1TN 1212              | 2-200              |      |
|                | 300     | SG1TN 2084              | 500                | D    |
|                | 350     | SG1TN 2558              | 500                |      |
|                | 500     | SG1TN 2450              | 3-250              |      |
| 3/4"           | 4       | SG1TN 8011              | 115                | A    |
|                | 2       | SG1TN 2320              | 150                |      |
|                | 1       | SG1TN 2235              | 150                |      |
|                | 1/0     | SG1TN 6051              | 200                | B    |
|                | 2/0     | SG1TN 8802              | 250                |      |
|                | 3/0     | SG1TN 8726              | 2-150              | C    |
|                | 4/0     | SG1TN 5677              | 2-150              |      |
|                | 250 MCM | SG1TN 8461              | 2-200              |      |
|                | 300     | SG1TN 8428              | 500                | D    |
|                | 350     | SG1TN 8294              | 500                |      |
|                | 500     | SG1TN 8214              | 3-250              |      |
|                | 750     | SG1TN 8027              | 2-500              |      |
| 1"             | 4       | SG1TN 5330              | 150                | A    |
|                | 2       | SG1TN 5332              | 200                | B    |
|                | 1       | SG1TN 5333              | 200                |      |
|                | 1/0     | SG1TN 5334              | 250                |      |
|                | 2/0     | SG1TN 5335              | 2-150              | C    |
|                | 3/0     | SG1TN 5336              | 2-200              |      |
|                | 4/0     | SG1TN 5337              | 2-200              |      |
|                | 250 MCM | SG1TN 5338              | 500                |      |
|                | 300     | SG1TN 5341              | 3-200              | D    |
|                | 350     | SG1TN 5351              | 3-200              |      |
|                | 500     | SG1TN 5352              | 2-500              |      |
|                | 750     | SG1TN 5353              | 5-250              |      |

## CR25

Cable horizontal en T Varilla Vertical • Horizontal Cable T Vertical Ground Rod

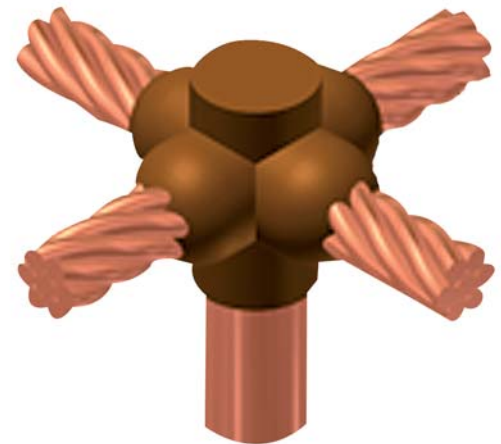
| VARILLA<br>ROD | CABLE | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|-------|-------------------------|--------------------|------|
| 5/8"           | 2     | SG1TN 8847              | 115                | B    |
|                | 1/0   | SG1TN 6519              | 150                |      |
|                | 2/0   | SG1TN 0091              | 150                |      |



Cable horizontal en T Varilla Vertical • Horizontal Cable T Vertical Ground Rod

## CR4

| VARILLA<br>ROD | CABLE | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|-------|-------------------------|--------------------|------|
| 5/8"           | 2     | SG1TN 10048             | 115                | B    |
|                | 1/0   | SG1TN 8697              | 200                |      |
|                | 2/0   | SG1TN 10060             | 250                |      |



## MOLDES DESECHABLES

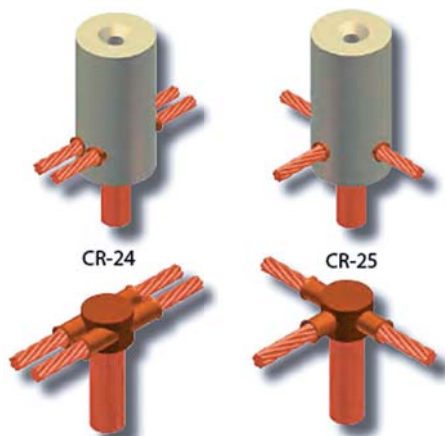
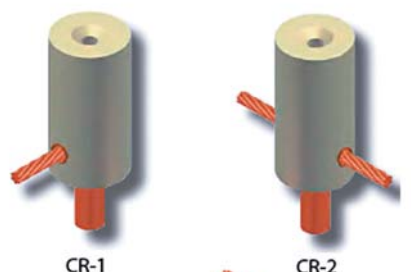
Los moldes desechables son una forma económica de hacer conexiones de cable a varillas de puesta a tierra.

Los moldes desechables son de cerámica y permiten hacer una sola soldadura, una vez hecha la conexión el molde se destruye. Incluyen todos los elementos necesarios para hacer la conexión (soldadura y disco), no incluye el chispero.

Se puede usar con el sistema de encendido eléctrico remoto

“EZ Lite Remote®” que se suministra por separado.

Este método innovador elimina la necesidad de un molde, pinzas y accesorios.



| Diametro Varilla | Cable | Tipo | Molde     |
|------------------|-------|------|-----------|
| 1/2"             | 8     | CR1  | SG1TN2009 |
|                  | 4 - 6 | CR1  | SG1TN2010 |
|                  | 2 - 3 | CR1  | SG1TN2011 |
|                  | 8     | CR2  | SG1TN2024 |
|                  | 4 - 6 | CR2  | SG1TN2025 |
|                  | 2 - 3 | CR2  | SG1TN2026 |

| Diametro Varilla | Cable   | Tipo | Molde     |
|------------------|---------|------|-----------|
| 5/8"             | 8       | CR1  | SG1TN2012 |
|                  | 4 - 6   | CR1  | SG1TN2013 |
|                  | 2 - 3   | CR1  | SG1TN2014 |
|                  | 1/0 - 1 | CR1  | SG1TN2015 |
|                  | 2/0     | CR1  | SG1TN2016 |
|                  | 8       | CR2  | SG1TN2027 |
|                  | 4 - 6   | CR2  | SG1TN2028 |
|                  | 2 - 3   | CR2  | SG1TN2029 |
|                  | 1/0 - 1 | CR2  | SG1TN2030 |
|                  | 8       | CR24 | SG1TN2105 |
|                  | 4 - 6   | CR24 | SG1TN2106 |
|                  | 2 - 3   | CR24 | SG1TN2107 |
|                  | 8       | CR25 | SG1TN2006 |
|                  | 4 - 6   | CR25 | SG1TN2007 |
|                  | 2 - 3   | CR25 | SG1TN2008 |

| Diametro Varilla | Cable   | Tipo | Molde     |
|------------------|---------|------|-----------|
| 3/4"             | 8       | CR1  | SG1TN2017 |
|                  | 4 - 6   | CR1  | SG1TN2018 |
|                  | 2 - 3   | CR1  | SG1TN2019 |
|                  | 1/0 - 1 | CR1  | SG1TN2020 |
|                  | 2/0     | CR1  | SG1TN2021 |
|                  | 8       | CR2  | SG1TN2031 |
|                  | 4 - 6   | CR2  | SG1TN2032 |
|                  | 2 - 3   | CR2  | SG1TN2033 |
|                  | 1/0 - 1 | CR2  | SG1TN2034 |
|                  | 8       | CR24 | SG1TN2108 |
|                  | 4 - 6   | CR24 | SG1TN2109 |
|                  | 2 - 3   | CR24 | SG1TN2110 |
|                  | 8       | CR25 | SG1TN2068 |
|                  | 4 - 6   | CR25 | SG1TN2069 |
|                  | 2 - 3   | CR25 | SG1TN2070 |

USO:

Para empalme vertical u horizontal de dos secciones de varilla copperweld.

MATERIAL:

Cuerpo y tapa en grafito, bisagra en acero.

ACABADO:

Natural.

TAMAÑOS ESTANDAR:

Para varillas de  $\frac{1}{2}$ " a 1".

USE:

For vertical or horizontal union of two sections of ground rod.

MATERIAL:

Graphite body and cover, steel hinge.

FINISH:

Natural.

STANDARD SIZES:

Rods from  $\frac{1}{2}$ " to 1".

**RR1**

| VARILLA<br>ROD | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|----------------|-------------------------|--------------------|----------|
| 1/2"           | SG1TN581V               | 250                | <b>C</b> |
| 5/8"           | SG1TN582V               | 2-150              |          |
| 3/4"           | SG1TN583V               | 2-200              |          |
| 1"             | SG1TN584V               | 3-250              | <b>D</b> |



**RR2**

Empalme Horizontal de Varillas • Horizontal Ground Rods

| VARILLA<br>ROD | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|----------------|-------------------------|--------------------|----------|
| 1/2"           | SG1TN581 H              | 250                | <b>B</b> |
| 5/8"           | SG1TN582 H              | 2-150              | <b>C</b> |
| 3/4"           | SG1TN583 H              | 2-200              |          |
| 1"             | SG1TN584 H              | 3-250              | <b>D</b> |

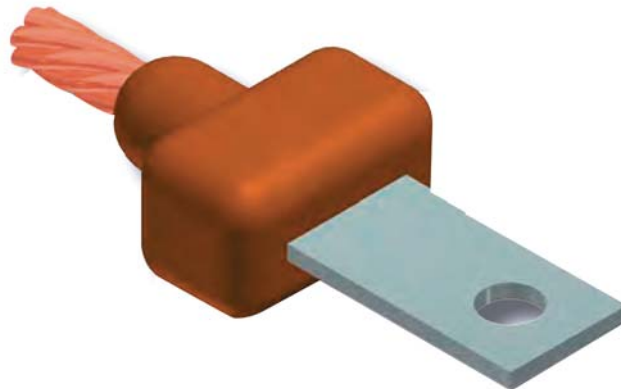


USO: Para empalme horizontal de un conductor terminal a una platina terminal.

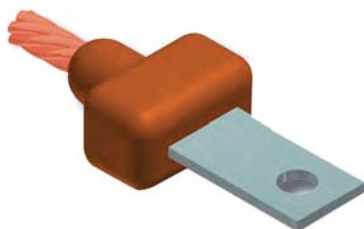
TAMAÑOS ESTANDAR: Conductores desde cable 8 AWG a 1000 MCM  
platinas desde 1/8" X 1" hasta 7/16" X 2".

USE: For horizontal union of terminal cable to a terminal LUG.

STANDARD SIZES: Conductors from 8 AWG to 1000 MCM terminal lugs  
from 1/8" X 1" to 7/16" X 2".



**CB1**



| TERMINAL      | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------------|---------|-------------------------|--------------------|----------|
| 1/8" X 1"     | 8       | SG1TN 967               | 45                 | <b>A</b> |
| 1/8" X 1"     | 6       | SG1TN 969               | 45                 |          |
| 1/8" X 1"     | 4       | SG1TN 971               | 45                 |          |
| 1/8" X 1"     | 3       | SG1TN 973               | 45                 |          |
| 1/8" X 1"     | 2       | SG1TN 975               | 45                 |          |
| 1/8" X 1"     | 1       | SG1TN 977               | 45                 |          |
| 1/8" X 1"     | 1/0     | SG1TN 978               | 45                 |          |
| 1/4" X 1"     |         | SG1TN 979               | 90                 |          |
| 1/8" X 1"     | 2/0     | SG1TN 980               | 65                 |          |
| 1/4" X 1"     |         | SG1TN 981               | 90                 |          |
| 3/16" X 1"    | 3/0     | SG1TN 982               | 65                 |          |
| 1/4" X 1"     |         | SG1TN 983               | 90                 |          |
| 3/16" X 1"    | 4/0     | SG1TN 984               | 90                 |          |
| 1/4" X 1"     |         | SG1TN 985               | 90                 |          |
| 1/4" X 1 1/4" |         | SG1TN 986               | 115                |          |
| 1/4" X 1 1/2" |         | SG1TN 987               | 150                |          |
| 1/4" X 1"     | 250 MCM | SG1TN 988               | 90                 |          |
| 1/4" X 1 1/4" |         | SG1TN 989               | 115                |          |
| 1/4" X 1 1/2" |         | SG1TN 990               | 150                |          |
| 1/4" X 1"     | 300     | SG1TN 991               | 90                 |          |
| 1/4" X 1 1/4" |         | SG1TN 992               | 115                |          |
| 1/4" X 1 1/2" |         | SG1TN 993               | 150                |          |
| 1/4" X 1"     | 350     | SG1TN 994               | 115                |          |
| 1/4" X 1 1/4" |         | SG1TN 995               | 115                |          |
| 1/4" X 1 1/2" |         | SG1TN 996               | 150                |          |
| 1/4" X 1 1/2" | 500     | SG1TN 1001              | 200                | <b>B</b> |
| 1/4" X 2"     |         | SG1TN 1002              | 200                |          |
| 3/8" X 1"     |         | SG1TN 1003              | 200                | <b>C</b> |
| 3/8" X 1 1/2" |         | SG1TN 1004              | 200                |          |
| 3/8" X 2"     |         | SG1TN 1005              | 2-150              |          |
| 1/4" X 2"     | 750     | SG1TN 1006              | 2-150              |          |
| 3/8" X 1 1/2" |         | SG1TN 1007              | 2-150              |          |
| 3/8" X 2"     |         | SG1TN 1008              | 2-150              |          |
| 3/8" X 2"     | 1000    | SG1TN 1009              | 2-200              | <b>D</b> |
| 7/16" X 2"    |         | SG1TN 1010              | 2-200              |          |
| 1/2" X 2"     |         | SG1TN 1011              | 500                |          |

# CB4

| BARRAJE<br>BUS BAR | CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|--------------------|---------|-------------------------|--------------------|----------|
| 1/4" x 1 1/2"      | 1/0     | SG1TN 1651              | 90                 | <b>A</b> |
|                    | 2/0     | SG1TN 1652              | 90                 |          |
|                    | 3/0     | SG1TN 1653              | 90                 |          |
|                    | 4/0     | SG1TN 1654              | 90                 |          |
|                    | 250 MCM | SG1TN 1655              | 115                |          |
|                    | 300     | SG1TN 1656              | 115                |          |
|                    | 350     | SG1TN 1657              | 150                |          |
|                    | 500     | SG1TN 1659              | 200                | <b>B</b> |
| 3/8" X 1 1/2"      | 1/0     | SG1TN 1660              | 90                 | <b>A</b> |
|                    | 2/0     | SG1TN 1661              | 90                 |          |
|                    | 3/0     | SG1TN 1662              | 115                |          |
|                    | 4/0     | SG1TN 1663              | 115                |          |
|                    | 250 MCM | SG1TN 1664              | 150                | <b>B</b> |
|                    | 300     | SG1TN 1665              | 150                |          |
|                    | 350     | SG1TN 1666              | 200                | <b>C</b> |
|                    | 500     | SG1TN 1668              | 250                |          |
| 1/2" X 1 1/2"      | 750     | SG1TN 1669              | 2-150              |          |
|                    | 1000    | SG1TN 1670              | 2-200              |          |
|                    | 1/0     | SG1TN 1671              | 115                | <b>A</b> |
|                    | 2/0     | SG1TN 1672              | 115                |          |
|                    | 3/0     | SG1TN 1673              | 150                |          |
|                    | 4/0     | SG1TN 1674              | 150                |          |
|                    | 250 MCM | SG1TN 1675              | 200                | <b>B</b> |
|                    | 300     | SG1TN 1676              | 200                |          |
|                    | 350     | SG1TN 1677              | 250                |          |
|                    | 400     | SG1TN 1678              | 2-150              | <b>C</b> |
|                    | 500     | SG1TN 1679              | 2-150              |          |
|                    | 750     | SG1TN 1680              | 2-200              |          |
|                    | 1000    | SG1TN 1681              | 500                |          |

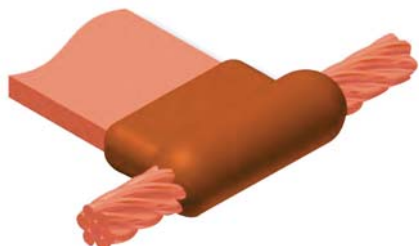


## MALLAS A TIERRA • GROUNDING SYSTEMS

### MOLDES CABLE A BARRAJE • CABLE TO BUSBAR MOLDS

Cable Pasante a Barraje Terminal • Thru Cable to Terminal BusBar

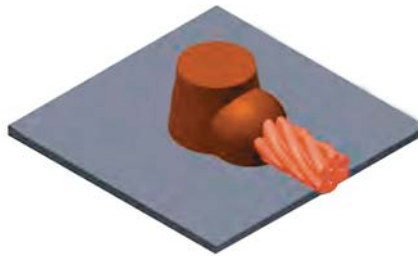
**CB5**



| BARRAJE<br>BUS BAR                                        | CABLE   | REFERENCIA<br>REFERENCE                              | CARGA<br>CARTRIDGE             | TIPO     |
|-----------------------------------------------------------|---------|------------------------------------------------------|--------------------------------|----------|
| 1/8" X 1"<br>1/4" X 1"                                    | 1/0     | SG1TN 1682<br>SG1TN 1683                             | 65<br>90                       | <b>B</b> |
| 1/8" X 1"<br>1/4" X 1"                                    | 2/0     | SG1TN 1684<br>SG1TN 1685                             | 90<br>115                      |          |
| 3/16" X 1 1/2"<br>1/4" X 1"<br>1/4" X 1 1/2"<br>1/4" X 2" | 3/0     | SG1TN 1686<br>SG1TN 1687<br>SG1TN 1688<br>SG1TN 1689 | 115<br>150<br>200<br>250       |          |
| 3/16" X 1 1/2"<br>1/4" X 1"<br>1/4" X 1 1/2"<br>1/4" X 2" | 4/0     | SG1TN 1690<br>SG1TN 1691<br>SG1TN 1692<br>SG1TN 1693 | 150<br>150<br>200<br>250       |          |
| 1/4" X 1"<br>1/4" X 1 1/2"<br>1/4" X 2"                   | 250 MCM | SG1TN 1694<br>SG1TN 1695<br>SG1TN 1696               | 150<br>200<br>250              |          |
| 1/4" X 1"<br>1/4" X 1 1/2"<br>1/4" X 2"                   | 300     | SG1TN 1697<br>SG1TN 1698<br>SG1TN 1699               | 200<br>250<br>2-150            |          |
| 1/4" X 1"<br>1/4" X 1 1/4"<br>1/4" X 1 1/2"<br>1/4" X 2"  | 350     | SG1TN 1700<br>SG1TN 1701<br>SG1TN 1702<br>SG1TN 1703 | 200<br>200<br>250<br>2-150     |          |
| 1/4" X 1"<br>1/4" X 1 1/2"<br>1/4" X 2"                   | 500     | SG1TN 1707<br>SG1TN 1708<br>SG1TN 1709               | 250<br>2-150<br>2-200          |          |
| 1/4" X 1 1/2"<br>1/4" X 2"<br>3/8" X 1 1/2"<br>3/8" X 2"  | 750     | SG1TN 1710<br>SG1TN 1711<br>SG1TN 1712<br>SG1TN 1713 | 2-200<br>500<br>500<br>3-200   | <b>C</b> |
| 1/4" X 1 1/2"<br>1/4" X 2"<br>3/8" X 1 1/2"<br>3/8" X 2"  | 1000    | SG1TN 1714<br>SG1TN 1715<br>SG1TN 1716<br>SG1TN 1717 | 500<br>3-200<br>3-200<br>3-250 |          |
|                                                           |         |                                                      |                                |          |
|                                                           |         |                                                      |                                |          |
|                                                           |         |                                                      |                                | <b>D</b> |

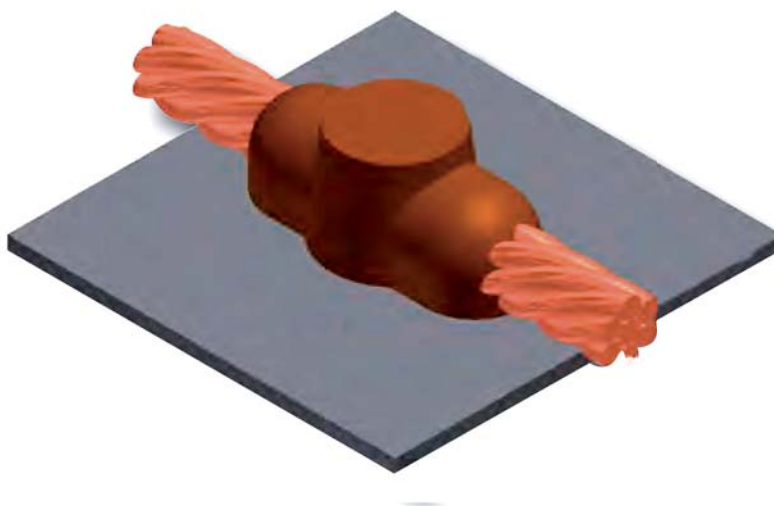
CS8

| VARILLA<br>ROD | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|----------------|-------------------------|--------------------|------|
| 6              | SG1TN628                | 45                 | A    |
| 4              | SG1TN629                | 45                 |      |
| 2              | SG1TN630                | 45                 |      |
| 1              | SG1TN631                | 65                 |      |
| 1/0            | SG1TN7146               | 90                 |      |
| 2/0            | SG1TN7075               | 90                 |      |
| 3/0            | SG1TN2199               | 115                |      |
| 4/0            | SG1TN6114               | 115                |      |
| 250 MCM        | SG1TN2200               | 115                |      |
| 300            | SG1TN2506               | 150                |      |
| 350            | SG1TN2507               | 200                |      |
| 500            | SG1TN2509               | 200                |      |
| 750            | SG1TN2542               | 2-150              | B    |
| 1000           | SG1TN2511               | 2-200              | C    |



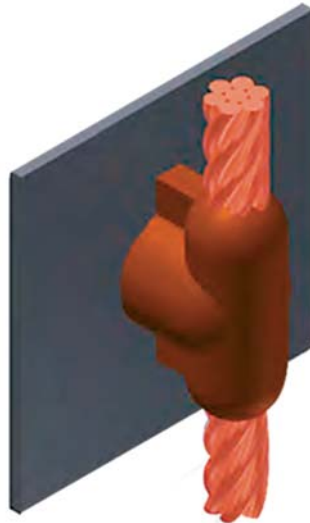
**CS9**

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1TN 602               | 45                 | <b>A</b> |
| 4       | SG1TN 603               | 45                 |          |
| 2       | SG1TN 604               | 45                 |          |
| 1       | SG1TN 605               | 65                 |          |
| 1/0     | SG1TN 8379              | 90                 |          |
| 2/0     | SG1TN 5331              | 115                |          |
| 3/0     | SG1TN 8381              | 115                |          |
| 4/0     | SG1TN 7192              | 150                |          |
| 250 MCM | SG1TN 8413              | 150                |          |
| 300     | SG1TN 8423              | 200                |          |
| 350     | SG1TN 8410              | 250                | <b>B</b> |
| 500     | SG1TN 5065              | 2-150              | <b>C</b> |
| 750     | SG1TN 625               | 3-250              | <b>D</b> |
| 1000    | SG1TN 626               | 2-500              |          |



CS26

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1TN 1215              | 90                 | <b>B</b> |
| 4       | SG1TN 1216              | 90                 |          |
| 3       | SG1TN 1217              | 90                 |          |
| 2       | SG1TN 1218              | 115                |          |
| 1       | SG1TN 1219              | 115                |          |
| 1/0     | SG1TN 1220              | 200                |          |
| 2/0     | SG1TN 1221              | 200                |          |
| 3/0     | SG1TN 1222              | 250                |          |
| 4/0     | SG1TN 1223              | 250                |          |
| 250 MCM | SG1TN 1224              | 250                | <b>D</b> |
| 300     | SG1TN 1225              | 500                |          |
| 350     | SG1TN 1226              | 3-200              |          |
| 500     | SG1TN 1228              | 3-250              |          |



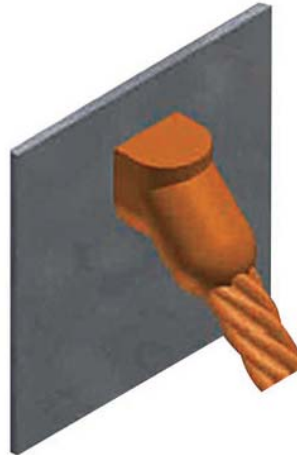
## MALLAS A TIERRA • GROUNDING SYSTEMS

### MOLDES CABLE A SUPERFICIE • CABLE TO SURFACE MOLDS

Cable Terminal Ascendente a Superficie Vertical • Terminal Ascending Cable to Vertical Surface

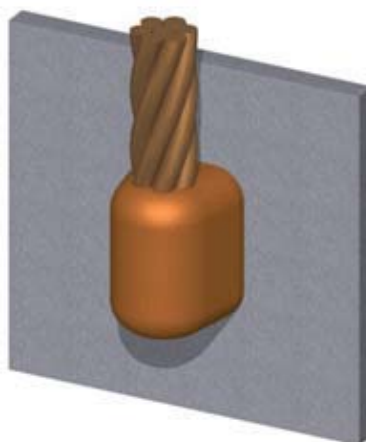
**CS3**

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1TN 585               | 45                 | <b>A</b> |
| 4       | SG1TN 586               | 45                 |          |
| 3       | SG1TN 587               | 45                 |          |
| 2       | SG1TN 588               | 45                 |          |
| 1       | SG1TN 589               | 65                 |          |
| 1/0     | SG1TN 590               | 90                 |          |
| 2/0     | SG1TN 591               | 90                 |          |
| 3/0     | SG1TN 592               | 115                |          |
| 4/0     | SG1TN 593               | 115                |          |
| 250 MCM | SG1TN 594               | 115                |          |
| 300     | SG1TN 595               | 150                | <b>B</b> |
| 350     | SG1TN 596               | 200                |          |
| 500     | SG1TN 598               | 200                | <b>C</b> |
| 750     | SG1TN 599               | 2-150              |          |
| 1000    | SG1TN 600               | 2-200              |          |



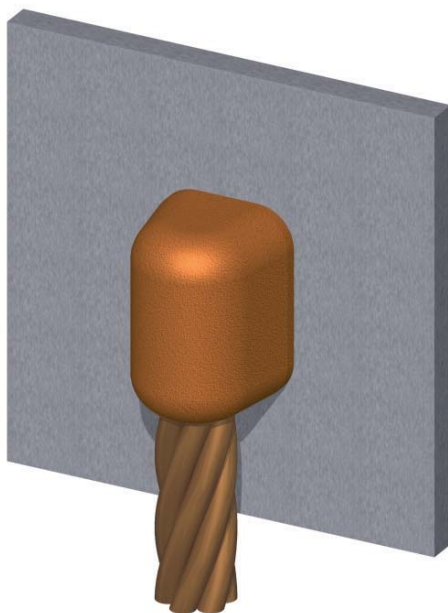
# CS7

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1TN 1635              | 65                 | <b>B</b> |
| 4       | SG1TN 1636              | 65                 |          |
| 3       | SG1TN 1637              | 65                 |          |
| 2       | SG1TN 1638              | 65                 |          |
| 1       | SG1TN 1639              | 90                 |          |
| 1/0     | SG1TN 1640              | 150                |          |
| 2/0     | SG1TN 1641              | 150                |          |
| 3/0     | SG1TN 1642              | 200                |          |
| 4/0     | SG1TN 1643              | 200                |          |
| 250 MCM | SG1TN 1644              | 200                |          |
| 300     | SG1TN 1645              | 250                | <b>C</b> |
| 350     | SG1TN 1646              | 2-150              |          |
| 500     | SG1TN 1648              | 2-150              |          |
| 750     | SG1TN 1649              | 500                | <b>D</b> |
| 1000    | SG1TN 1650              | 3-200              |          |



**CS25**

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 4       | SG1TN 6960              | 65                 | <b>A</b> |
| 2       | SG1TN 7443              | 65                 |          |
| 1       | SG1TN 5361              | 90                 |          |
| 1/0     | SG1TN 8179              | 115                |          |
| 2/0     | SG1TN 5700              | 115                |          |
| 3/0     | SG1TN 5362              | 150                |          |
| 4/0     | SG1TN 5562              | 150                | <b>B</b> |
| 250 MCM | SG1TN 8111              | 200                |          |
| 300     | SG1TN 4559              | 200                |          |
| 350     | SG1TN 4384              | 250                | <b>C</b> |
| 500     | SG1TN 5813              | 2-150              |          |



## CB34

| CABLE | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|-------|-------------------------|--------------------|------|
| 4     | SG1TN 2687F             | 45                 | A    |
| 2     | SG1TN 2689F             | 45                 |      |
| 1     | SG1TN 2691F             | 45                 |      |
| 1/0   | SG1TN 2694F             | 65                 |      |
| 2/0   | SG1TN 2698F             | 65                 |      |
| 3/0   | SG1TN 2702F             | 90                 |      |
| 4/0   | SG1TN 2707F             | 90                 |      |



MOLDES SUPERFICIE A SUPERFICIE • FOIL TO FOIL MOLDS

Molde Foil a Foil (Lamina 25 x 2 mm) • Foil to Foil Mold (25 x 2 mm)

## BB46



Tamaño diferente según requerimiento

( C )

( L )

( T )

( X )

| REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|-------------------------|--------------------|------|
| SG1TN FF25 C            | 45                 | A    |
| SG1TN FF25 L            | 45                 |      |
| SG1TN FF25 T            | 45                 |      |
| SG1TN FF25 X            | 45                 |      |



## MALLAS A TIERRA • GROUNDING SYSTEMS

### MOLDES CABLE A TUBO • CABLE TO PIPE MOLDS

Conecciones de Cable a Tubo o Superficie Curva • Cable to Pipe or Curve Surface

USO:

Para empalme de un conductor terminal o pasante a tubo.

MATERIAL:

Cuerpo y tapa en grafito, bisagra en acero.

ACABADO:

Natural.

TAMAÑOS ESTANDAR:

Para conductores desde 6 AWG hasta 1000 MCM tubería de ½" en adelante.

USE:

For connection of one Terminal or thru cable to a pipe.

MATERIAL:

Graphite body and cover, steel hinge.

FINISH:

Natural.

STANDARD SIZES:

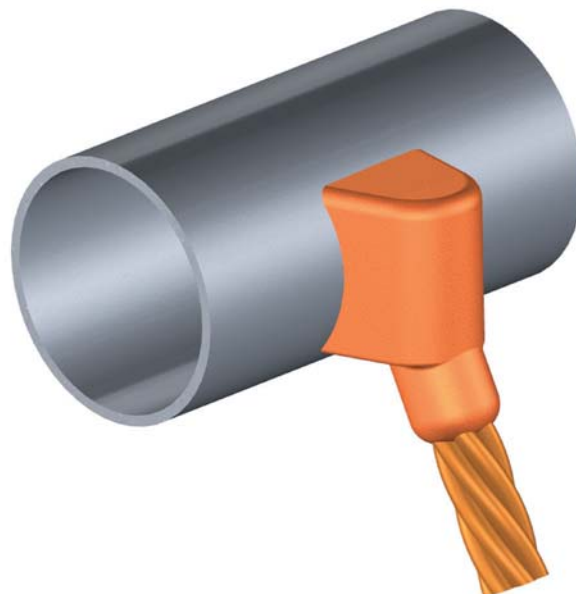
Cable from 6 AWG to 1000 MCM ½" pipe or larger.

# CS3H

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|---------|-------------------------|--------------------|------|
| 6       | SG1 TN 585H xx          | 45                 | A    |
| 4       | SG1 TN 586H xx          | 45                 |      |
| 3       | SG1 TN 587H xx          | 45                 |      |
| 2       | SG1 TN 588H xx          | 45                 |      |
| 1       | SG1 TN 589H xx          | 65                 |      |
| 1/0     | SG1 TN 590H xx          | 90                 |      |
| 2/0     | SG1 TN 591H xx          | 90                 |      |
| 3/0     | SG1 TN 592H xx          | 115                |      |
| 4/0     | SG1 TN 593H xx          | 115                |      |
| 250 MCM | SG1 TN 594H xx          | 115                |      |
| 300     | SG1 TN 595H xx          | 150                | B    |
| 350     | SG1 TN 596H xx          | 200                |      |
| 500     | SG1 TN 598H xx          | 200                |      |
| 750     | SG1 TN 599H xx          | 2-150              | C    |
| 1000    | SG1 TN 600H xx          | 2-200              |      |

XX Reemplace la xx por el diámetro del tubo correspondiente  
EJ. SG1TN 588 H 2" :Cable terminal ascendente Cal. 2 AWG a tubo horizontal de 2".

XX Replace xx by the corresponding diameter of pipe  
Ex. SG1TN 588 H 2" :Terminal ascending 2 AWG cable to horizontal 2" pipe.

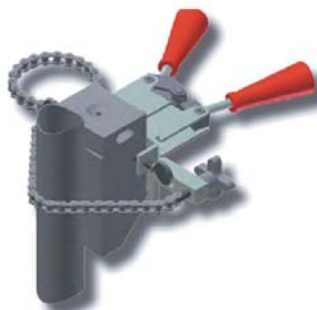
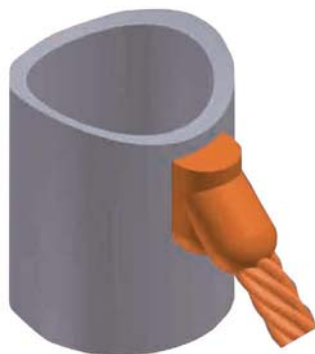


**CS3V**

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 585V xx          | 45                 | <b>A</b> |
| 4       | SG1 TN 586V xx          | 45                 |          |
| 3       | SG1 TN 587V xx          | 45                 |          |
| 2       | SG1 TN 588V xx          | 45                 |          |
| 1       | SG1 TN 589V xx          | 65                 |          |
| 1/0     | SG1 TN 590V xx          | 90                 |          |
| 2/0     | SG1 TN 591V xx          | 90                 |          |
| 3/0     | SG1 TN 592V xx          | 115                |          |
| 4/0     | SG1 TN 593V xx          | 115                |          |
| 250 MCM | SG1 TN 594V xx          | 115                |          |
| 300     | SG1 TN 595V xx          | 150                | <b>B</b> |
| 350     | SG1 TN 596V xx          | 200                |          |
| 500     | SG1 TN 598V xx          | 200                |          |
| 750     | SG1 TN 599V xx          | 2-150              | <b>C</b> |
| 1000    | SG1 TN 600V xx          | 2-200              |          |

XX Reemplace la xx por el diámetro del tubo correspondiente  
 EJ. SG1TN 588 V 2" : Cable terminal ascendente Cal. 2 AWG a tubo  
 vertical de 2".

XX Replace xx by the corresponding diameter of pipe  
 Ex. SG1TN 588 V 2" : Terminal ascending 2 AWG cable to a vertical 2"  
 pipe.



# CS7H

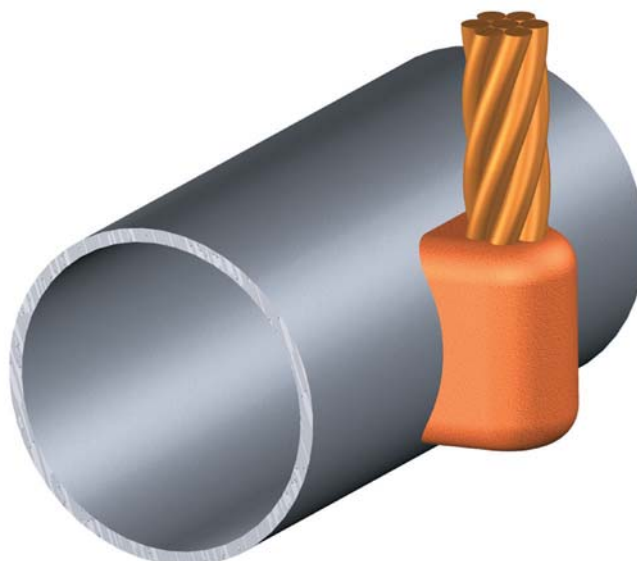
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 1635H xx         | 65                 | <b>A</b> |
| 4       | SG1 TN 1636H xx         | 65                 |          |
| 3       | SG1 TN 1637H xx         | 65                 |          |
| 2       | SG1 TN 1638H xx         | 65                 |          |
| 1       | SG1 TN 1639H xx         | 90                 |          |
| 1/0     | SG1 TN 1640H xx         | 150                |          |
| 2/0     | SG1 TN 1641H xx         | 150                | <b>B</b> |
| 3/0     | SG1 TN 1642H xx         | 200                |          |
| 4/0     | SG1 TN 1643H xx         | 200                |          |
| 250 MCM | SG1 TN 1644H xx         | 200                | <b>C</b> |
| 300     | SG1 TN 1645H xx         | 250                |          |
| 350     | SG1 TN 1646H xx         | 2-150              |          |
| 500     | SG1 TN 1648H xx         | 2-150              | <b>D</b> |
| 750     | SG1 TN 1649H xx         | 500                |          |
| 1000    | SG1 TN 1650H xx         | 3-200              |          |

XX Reemplace la xx por el diámetro del tubo

EJ. SG1TN 1641 H 2" : Cable terminal descendente Cal. 2/0 a tubo horizontal de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 1641 H 2" : Terminal 2/0 descending cable to horizontal 2" pipe.



**CS7V**

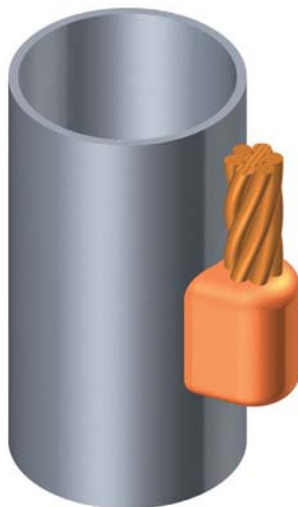
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 1635V xx         | 65                 | <b>A</b> |
| 4       | SG1 TN 1636V xx         | 65                 |          |
| 3       | SG1 TN 1637V xx         | 65                 |          |
| 2       | SG1 TN 1638V xx         | 65                 |          |
| 1       | SG1 TN 1639V xx         | 90                 |          |
| 1/0     | SG1 TN 1640V xx         | 150                |          |
| 2/0     | SG1 TN 1641V xx         | 150                |          |
| 3/0     | SG1 TN 1642V xx         | 200                | <b>B</b> |
| 4/0     | SG1 TN 1643V xx         | 200                |          |
| 250 MCM | SG1 TN 1644V xx         | 200                |          |
| 300     | SG1 TN 1645V xx         | 250                | <b>C</b> |
| 350     | SG1 TN 1646V xx         | 2-150              |          |
| 500     | SG1 TN 1648V xx         | 2-150              |          |
| 750     | SG1 TN 1649V xx         | 500                | <b>D</b> |
| 1000    | SG1 TN 1650V xx         | 3-200              |          |

XX Reemplace la xx por el diámetro del tubo

EJ. SG1TN 1641 V 2" : Cable terminal descendente Cal. 2/0 a tubo vertical de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 1641 V 2" : Terminal 2/0 descending cable to vertical 2" pipe.



# CS4H

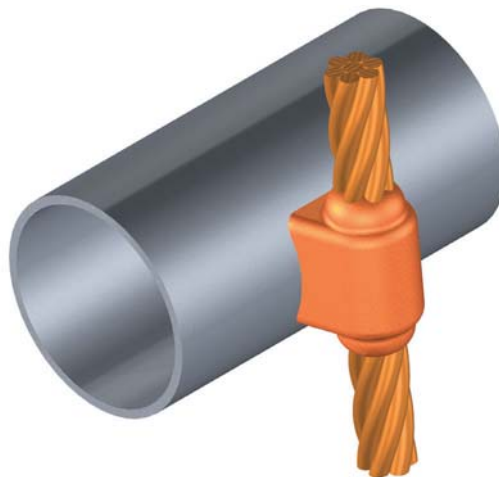
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 1215H xx         | 90                 | <b>B</b> |
| 4       | SG1 TN 1216H xx         | 90                 |          |
| 3       | SG1 TN 1217H xx         | 90                 |          |
| 2       | SG1 TN 1218H xx         | 115                |          |
| 1       | SG1 TN 1219H xx         | 115                |          |
| 1/0     | SG1 TN 1220H xx         | 200                |          |
| 2/0     | SG1 TN 1221H xx         | 200                |          |
| 3/0     | SG1 TN 1222H xx*        | 250                |          |
| 4/0     | SG1 TN 1223H xx*        | 250                |          |
| 250 MCM | SG1 TN 1224H xx*        | 250                |          |
| 300     | SG1 TN 1225H xx*        | 500                | <b>C</b> |
| 350     | SG1 TN 1226H xx*        | 3-200              |          |
| 500     | SG1 TN 1228H xx*        | 3-250              | <b>D</b> |

XX Reemplace la xx por el diámetro del tubo

EJ. SG1TN 1221 H 2" : Cable 2/0 vertical pasante a tubo horizontal de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 1221 H 2" : Thru 2/0 vertical cable to horizontal 2" pipe.



**CS4V**

| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 1215V xx         | 90                 | <b>B</b> |
| 4       | SG1 TN 1216V xx         | 90                 |          |
| 3       | SG1 TN 1217V xx         | 90                 |          |
| 2       | SG1 TN 1218V xx         | 115                |          |
| 1       | SG1 TN 1219V xx         | 115                |          |
| 1/0     | SG1 TN 1220V xx         | 200                |          |
| 2/0     | SG1 TN 1221V xx         | 200                |          |
| 3/0     | SG1 TN 1222V xx*        | 250                |          |
| 4/0     | SG1 TN 1223V xx*        | 250                |          |
| 250 MCM | SG1 TN 1224V xx*        | 250                |          |
| 300     | SG1 TN 1225V xx*        | 500                | <b>C</b> |
| 350     | SG1 TN 1226V xx*        | 3-200              | <b>D</b> |
| 500     | SG1 TN 1228V xx*        | 3-250              |          |

\* Tipo Pesado - Heavy Duty

XX Reemplace la xx por el diámetro del tubo

EJ. SG1TN 1221 V 2" : Cable 2/0 vertical pasante a tubo horizontal de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 1221V 2" : Thru 2/0 vertical cable to horizontal 2".



## CS18PI / CS18PD

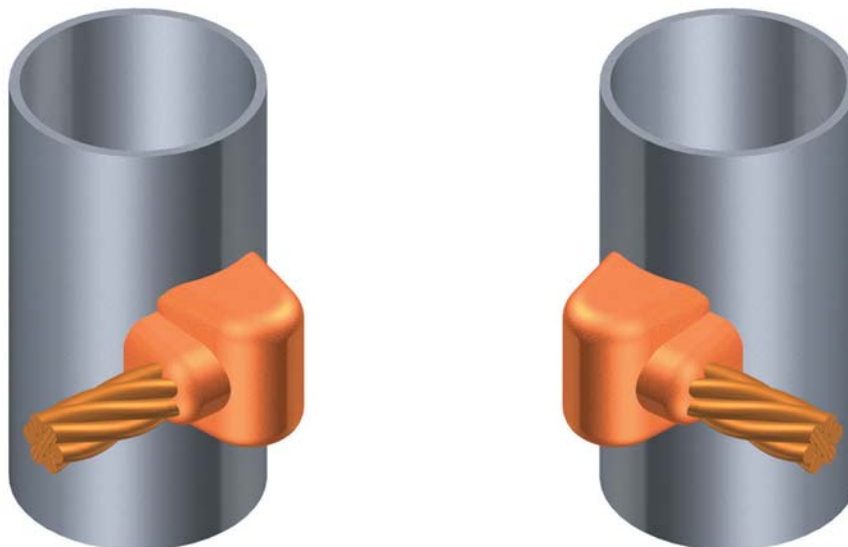
| PRINCIPAL<br>RUN | REFERENCIA<br>IZQUIERDA<br>REFERENCE<br>LEFT | REFERENCIA<br>DERECHA<br>REFERENCE<br>RIGHT | CARGA<br>CARTRIDGE | TIPO |
|------------------|----------------------------------------------|---------------------------------------------|--------------------|------|
| 6                | SG1TN 5910 VI xx                             | SG1TN 5910 VD xx                            | 45                 | A    |
| 4                | SG1TN 2761 VI xx                             | SG1TN 2761 VD xx                            | 45                 |      |
| 2                | SG1TN 2569 VI xx                             | SG1TN 2569 VD xx                            | 45                 |      |
| 1                | SG1TN 6060 VI xx                             | SG1TN 6060 VD xx                            | 65                 |      |
| 1/0              | SG1TN 5419 VI xx                             | SG1TN 5419 VD xx                            | 90                 |      |
| 2/0              | SG1TN 2567 VI xx                             | SG1TN 2567 VD xx                            | 90                 |      |
| 3/0              | SG1TN 6072 VI xx                             | SG1TN 6072 VD xx                            | 115                |      |
| 4/0              | SG1TN 9253 VI xx                             | SG1TN 9253 VD xx                            | 115                |      |
| 250 MCM          | SG1TN 2568 VI xx                             | SG1TN 2568 VD xx                            | 115                |      |
| 300 MCM          | SG1TN 6061 VI xx                             | SG1TN 6061 VD xx                            | 150                |      |
| 350 MCM          | SG1TN 6067 VI xx                             | SG1TN 6067 VD xx                            | 200                |      |
| 500 MCM          | SG1TN 8359 VI xx                             | SG1TN 8359 VD xx                            | 200                |      |

XX Reemplace las xx por el diámetro del tubo

EJ. SG1TN 5910 VI 2" : Cable 6AWG horizontal a tubo vertical de 2" izquierda.

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 5910 VI 2" : Terminal 6AWG left horizontal cable to vertical 2" pipe.



**CS18HI**  
**CS18HD**

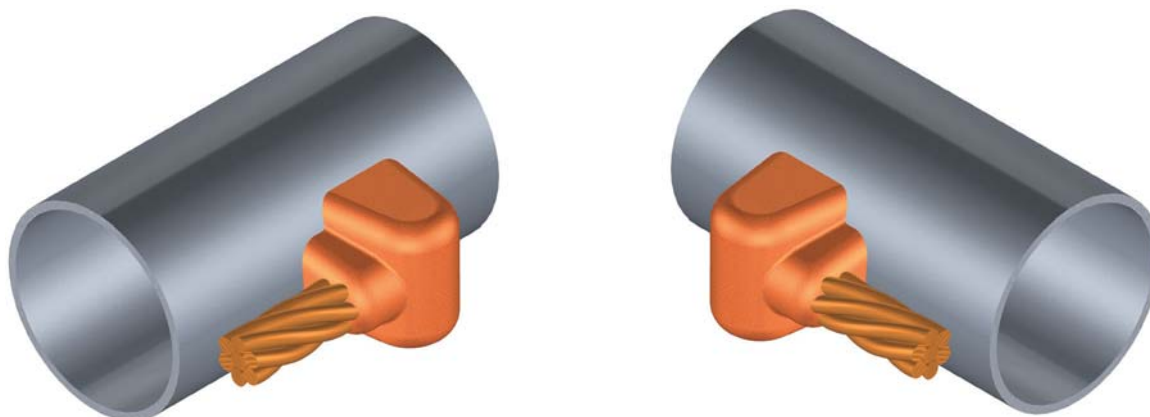
| PRINCIPAL RUN | REFERENCIA IZQUIERDA<br>REFERENCE LEFT | REFERENCIA DERECHA<br>REFERENCE RIGHT | CARGA CARTRIDGE | TIPO     |
|---------------|----------------------------------------|---------------------------------------|-----------------|----------|
| 6             | SG1TN 5910 HI xx                       | SG1TN 5910 HD xx                      | 45              | <b>A</b> |
| 4             | SG1TN 2761 HI xx                       | SG1TN 2761 HD xx                      | 45              |          |
| 2             | SG1TN 2569 HI xx                       | SG1TN 2569 HD xx                      | 45              |          |
| 1             | SG1TN 6060 HI xx                       | SG1TN 6060 HD xx                      | 65              |          |
| 1/0           | SG1TN 5419 HI xx                       | SG1TN 5419 HD xx                      | 90              |          |
| 2/0           | SG1TN 2567 HI xx                       | SG1TN 2567 HD xx                      | 90              |          |
| 3/0           | SG1TN 6072 HI xx                       | SG1TN 6072 HD xx                      | 115             |          |
| 4/0           | SG1TN 9253 HI xx                       | SG1TN 9253 HD xx                      | 115             |          |
| 250 MCM       | SG1TN 2568 HI xx                       | SG1TN 2568 HD xx                      | 115             |          |
| 300 MCM       | SG1TN 6061 HI xx                       | SG1TN 6061 HD xx                      | 150             |          |
| 350 MCM       | SG1TN 6067 HI xx                       | SG1TN 6067 HD xx                      | 200             |          |
| 500 MCM       | SG1TN 8359 HI xx                       | SG1TN 8359 HD xx                      | 200             |          |

XX Reemplace las xx por el diámetro del tubo

EJ. SG1TN 5910 HI 2" : Cable 6AWG horizontal a tubo paralelo de 2" izquierdo.

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 5910 HI 2" : Terminal 6AWG left horizontal cable to parallel 2" pipe.



## CS8H

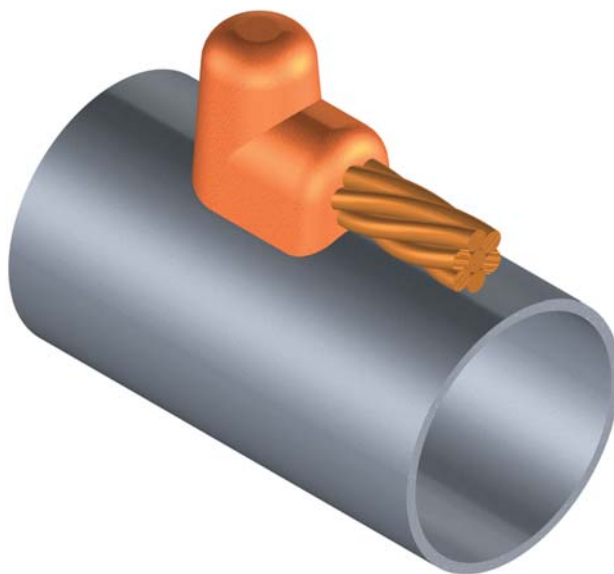
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|---------|-------------------------|--------------------|------|
| 6       | SG1 TN 628H xx          | 45                 | A    |
| 4       | SG1 TN 629H xx          | 45                 |      |
| 2       | SG1 TN 630H xx          | 45                 |      |
| 1       | SG1 TN 631H xx          | 65                 |      |
| 1/0     | SG1 TN 7146H xx         | 90                 |      |
| 2/0     | SG1 TN 7075H xx         | 90                 |      |
| 3/0     | SG1 TN 2199H xx         | 115                |      |
| 4/0     | SG1 TN 6114H xx         | 115                |      |
| 250 MCM | SG1 TN 2200H xx         | 115                |      |
| 300     | SG1 TN 2506H xx         | 150                |      |
| 350     | SG1 TN 2507H xx         | 200                |      |
| 500     | SG1 TN 2509H xx         | 200                |      |
| 750     | SG1 TN 2542H xx         | 2-150              | C    |
| 1000    | SG1 TN 2511H xx         | 2-200              |      |

XX Reemplace la xx por el diámetro del tubo

EJ. SG1TN 645 H 2" : Cable horizontal Cal. 2/0 sobre tubo horizontal paralelo de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 645 H 2" : Terminal Horizontal 2/0 cable over Horizontal parallel 2" pipe.



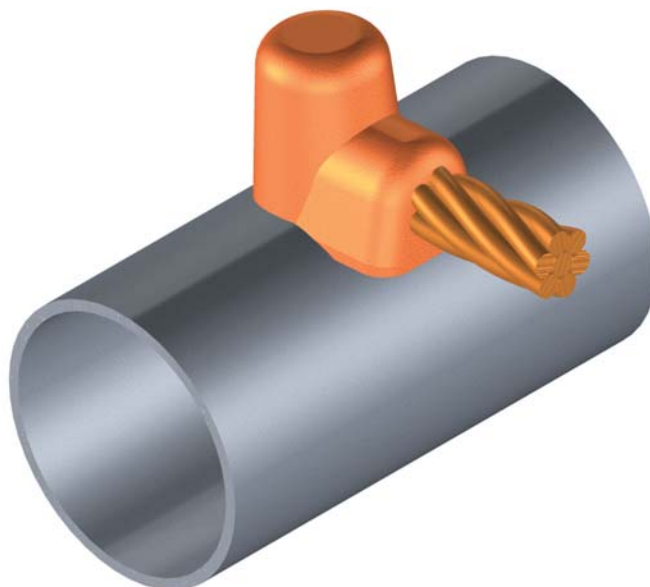
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 628P xx          | 45                 | <b>A</b> |
| 4       | SG1 TN 629P xx          | 45                 |          |
| 2       | SG1 TN 630P xx          | 45                 |          |
| 1       | SG1 TN 631P xx          | 65                 |          |
| 1/0     | SG1 TN 7146P xx         | 90                 |          |
| 2/0     | SG1 TN 7075P xx         | 90                 |          |
| 3/0     | SG1 TN 2199P xx         | 115                |          |
| 4/0     | SG1 TN 6114P xx         | 115                |          |
| 250 MCM | SG1 TN 2200P xx         | 115                |          |
| 300     | SG1 TN 2506P xx         | 150                |          |
| 350     | SG1 TN 2507P xx         | 200                |          |
| 500     | SG1 TN 2509P xx         | 200                |          |
| 750     | SG1 TN 2542P xx         | 2-150              | <b>C</b> |
| 1000    | SG1 TN 2511P xx         | 2-200              |          |

XX Reemplace la xx por el diámetro del tubo

EJ. SG1TN 7075 P 2" : Cable horizontal terminal Cal. 2/0 sobre tubo horizontal de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 7075 P 2" : Terminal Horizontal 2/0 cable over Horizontal 2" pipe.



## CS9H

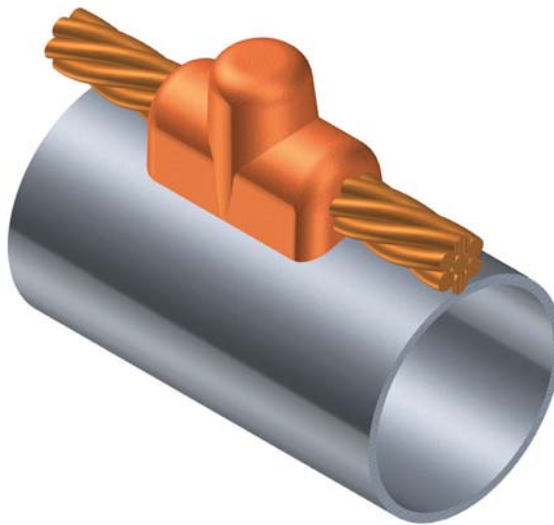
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 602H xx          | 45                 | <b>A</b> |
| 4       | SG1 TN 603H xx          | 45                 |          |
| 2       | SG1 TN 604H xx          | 45                 |          |
| 1       | SG1 TN 605H xx          | 65                 |          |
| 1/0     | SG1 TN 8379H xx         | 90                 |          |
| 2/0     | SG1 TN 5331H xx         | 115                |          |
| 3/0     | SG1 TN 8381H xx         | 115                |          |
| 4/0     | SG1 TN 7192H xx         | 150                |          |
| 250 MCM | SG1 TN 8413H xx         | 150                |          |
| 300     | SG1 TN 8423H xx         | 200                |          |
| 350     | SG1 TN 8410H xx         | 250                | <b>B</b> |
| 500     | SG1 TN 5065H xx         | 2-150              |          |
| 750     | SG1 TN 625H xx          | 3-250              | <b>D</b> |
| 1000    | SG1 TN 626H xx          | 2-500              |          |

XX Reemplace las xx por el diámetro del tubo

EJ. SG1TN 5331H 2" : Cable 2/0 horizontal pasante sobre tubo horizontal paralelo de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 5331H 2" : Horizontal thru 2/0 cable over parallel 2" horizontal pipe.



## CS9P - CS16

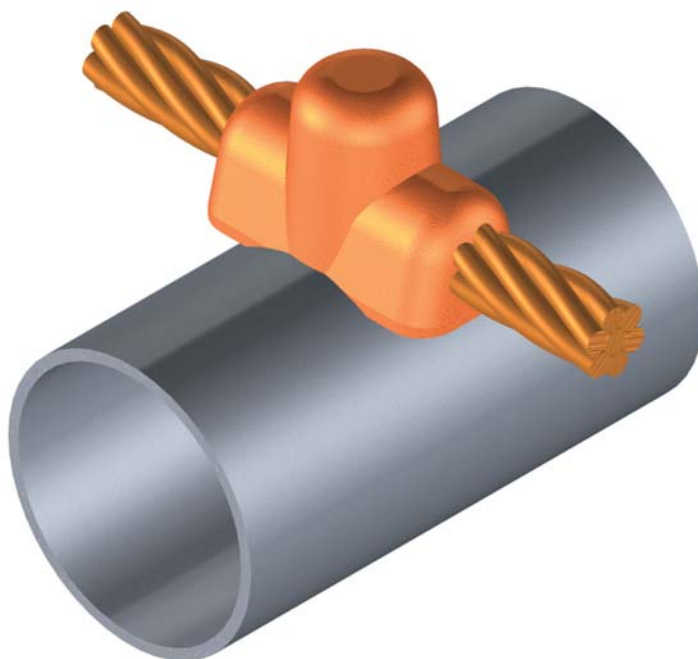
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 8004 xx          | 65                 | <b>A</b> |
| 4       | SG1 TN 6921 xx          | 65                 |          |
| 2       | SG1 TN 6250 xx          | 65                 |          |
| 1       | SG1 TN 605P xx          | 65                 |          |
| 1/0     | SG1 TN 8728 xx          | 115                |          |
| 2/0     | SG1 TN 6928 xx          | 115                |          |
| 3/0     | SG1 TN 8331P xx         | 115                |          |
| 4/0     | SG1 TN 7192P xx         | 150                |          |
| 250 MCM | SG1 TN 8413P xx         | 150                |          |
| 300     | SG1 TN 8423P xx         | 200                |          |
| 350     | SG1 TN 8410P xx         | 250                | <b>B</b> |
| 500     | SG1 TN 5482 xx          | 2-150              |          |
| 750     | SG1 TN 625P xx          | 3-250              | <b>D</b> |
| 1000    | SG1 TN 626P xx          | 2-500              |          |

XX Reemplace las xx por el diámetro del tubo

EJ. SG1TN 6928 2" : Cable 2/0 horizontal pasante sobre tubo horizontal perpendicular de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 6928 2" : Horizontal thru 2/0 cable over perpendicular 2" horizontal pipe.



## CS27V

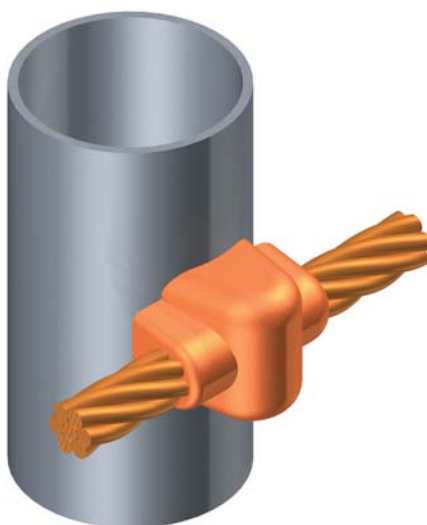
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|---------|-------------------------|--------------------|------|
| 6       | SG1 TN 5816V xx         | 65                 | A    |
| 4       | SG1 TN 8095V xx         | 65                 |      |
| 2       | SG1 TN 5822V xx         | 65                 |      |
| 1       | SG1 TN 6279V xx         | 90                 |      |
| 1/0     | SG1 TN 1168V xx         | 115                |      |
| 2/0     | SG1 TN 9242V xx         | 115                |      |
| 3/0     | SG1 TN 6195V xx         | 150                |      |
| 4/0     | SG1 TN 2177V xx         | 150                |      |
| 250 MCM | SG1 TN 2520V xx         | 150                |      |

XX Reemplace las xx por el diámetro del tubo

EJ. SG1TN 9242V2" : Cable 2/0 horizontal pasante a tubo vertical de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 9242V2" : Thru 2/0 horizontal cable to vertical 2" pipe.



**CS27H**

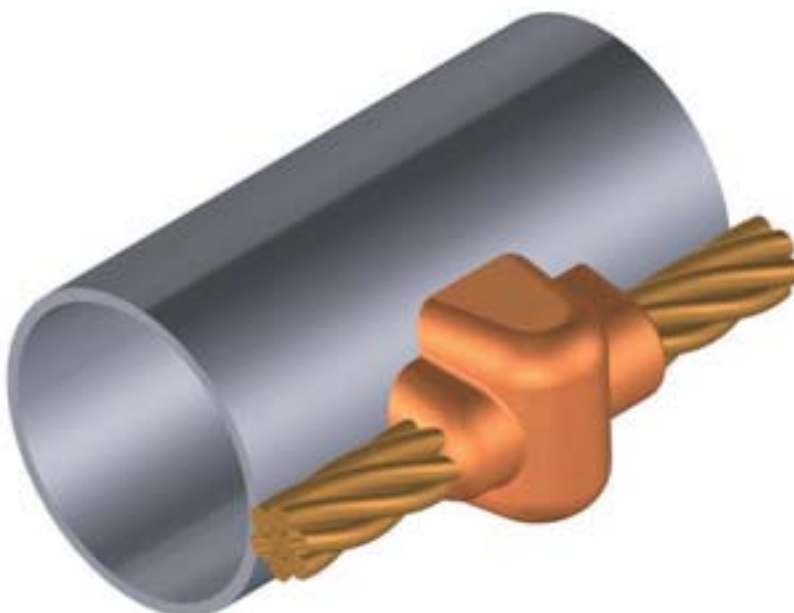
| CABLE   | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|---------|-------------------------|--------------------|----------|
| 6       | SG1 TN 5816H **         | 45                 | <b>A</b> |
| 4       | SG1 TN 8095H **         | 45                 |          |
| 2       | SG1 TN 5822H **         | 45                 |          |
| 1       | SG1 TN 6279H **         | 90                 |          |
| 1/0     | SG1 TN 1168H **         | 115                |          |
| 2/0     | SG1 TN 5417 **          | 115                |          |
| 3/0     | SG1 TN 6195H **         | 150                |          |
| 4/0     | SG1 TN2177 H **         | 150                |          |
| 250 MCM | SG1 TN 2520H **         | 150                |          |

XX Reemplace las xx por el diámetro del tubo

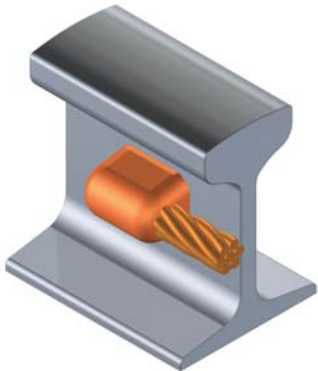
EJ. SG1TN 5417 H 2" : Cable 2/0 horizontal a tubo horizontal de 2".

XX Replace xx by corresponding diameter of pipe

Ex. SG1TN 5417 H 2" : Thru 2/0 horizontal cable to horizontal 2" pipe.

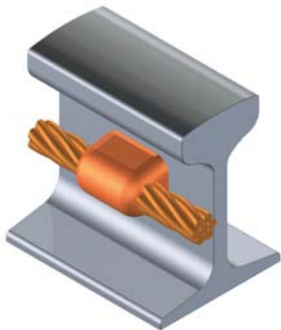


## CX8

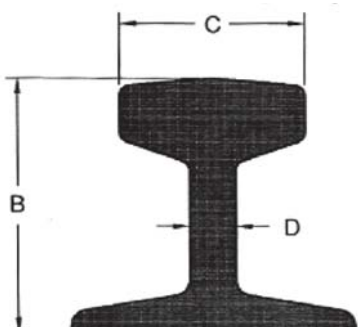


| CABLE | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|-------|-------------------------|--------------------|----------|
| 4     | SG1 TN 6384             | 65                 | <b>C</b> |
| 2     | SG1 TN 5502             | 65                 |          |
| 1     | SG1 TN 6385             | 65                 |          |
| 1/0   | SG1 TN 6386             | 90                 |          |
| 2/0   | SG1 TN 5398             | 90                 |          |
| 4/0   | SG1 TN 1087             | 115                |          |

## CX10



| CABLE | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO     |
|-------|-------------------------|--------------------|----------|
| 4     | SG1 TN 6387             | 90                 | <b>C</b> |
| 2     | SG1 TN 6389             | 90                 |          |
| 1     | SG1 TN 6390             | 90                 |          |
| 1/0   | SG1 TN 6391             | 115                |          |
| 2/0   | SG1 TN 6392             | 115                |          |
| 4/0   | SG1 TN 6395             | 150                |          |



Los moldes TECNOWELD son fabricados para ajustarse al perfil de riel. Si el tamaño y tipo de riel se desconocen, se deben suministrar las dimensiones mostradas para la adecuada identificación del riel. Las medidas deben tener un grado de exactitud de 1/16".

Se requiere la siguiente información para ordenar un pedido de molde para riel :

1. Tamaño de riel
2. Tipo de riel o numero de sección
3. Posición ( Si es invertida )
4. Tipo de conexión: cable a la derecha, cable a la izquierda o cable pasante
5. Tamaño de cable y tipo

TECNOWELD molds are manufactured to fit the rail contour. If the size and type of rail is not known, the four dimensions shown must be supplied for proper rail identification. Measurements should be accurate to the 1/16".

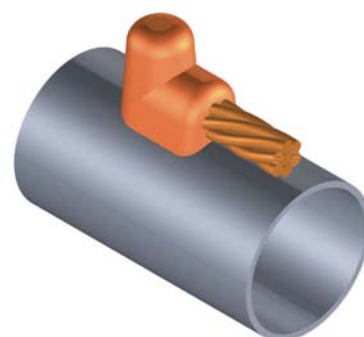
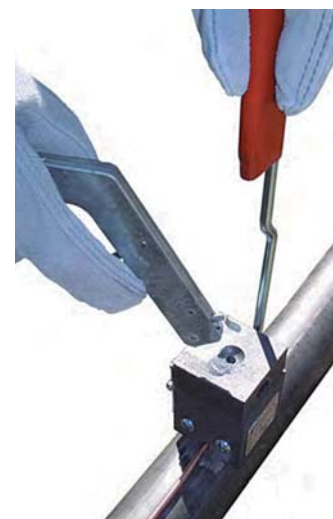
The following information is required for ordering rail molds:

1. Rail size
2. Rail type or section number
3. Position ( if inverted ).
4. Connection type: right hand, left hand or through run.
5. Conductor size and type.

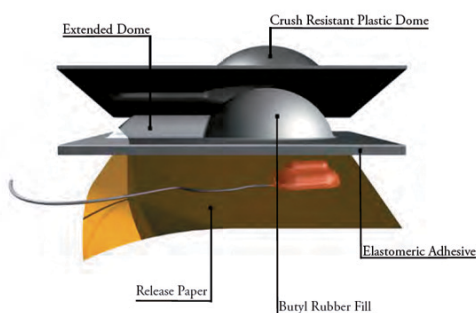
**CS32**

| WIRE SIZE | STEEL SURFACE            | REFERENCIA<br>REFERENCE | CARGA<br>CARTRIDGE | TIPO |
|-----------|--------------------------|-------------------------|--------------------|------|
| 14/6      | Flat (4" & Larger pipe)  | SG1TN 100               | 15                 | A    |
|           | 3/4" to 3 1/2" pipe      | SG1TN 101               | 15                 |      |
| 6         | Flat (4" & Larger pipe)  | SG1TN 102               | 15                 |      |
|           | 3/4" to 3 1/2" pipe      | SG1TN 103               | 15                 |      |
| 4 *       | Flat (6" & Larger pipe)  | SG1TN 104               | 15                 |      |
|           | 3/4" to 4" pipe          | SG1TN 105               | 15                 |      |
| 4         | Flat (6" & Larger pipe)  | SG1TN 106               | 15                 |      |
|           | 3/4" to 1 1/2" pipe      | SG1TN 107               | 15                 |      |
|           | 2" to 4" pipe            | SG1TN 108               | 15                 |      |
| 2 *       | Flat (8" & Larger pipe)  | SG1TN 109               | 25                 |      |
|           | 1" to 2" pipe            | SG1TN 110               | 25                 |      |
|           | 2 1/2 to 6" pipe         | SG1TN 111               | 25                 |      |
| 2         | Flat (8" & larger pipe)  | SG1TN 112               | 32                 |      |
|           | 1" to 1 1/2" pipe        | SG1TN 113               | 32                 |      |
|           | 2" to 3" pipe            | SG1TN 114               | 32                 |      |
|           | 4" to 6" pipe            | SG1TN 115               | 32                 |      |
| 1         | Flat (12" & larger pipe) | SG1TN 116               | 45                 |      |
|           | 1 1/2" to 2" pipe        | SG1TN 117               | 45                 |      |
|           | 3" to 4" pipe            | SG1TN 118               | 45                 |      |
|           | 6" to 10" pipe           | SG1TN 119               | 45                 |      |
| 1/0       | Flat (18" & larger pipe) | SG1TN 120               | 65                 |      |
|           | 2 1/2" to 4" pipe        | SG1TN 121               | 65                 |      |
|           | 6" to 10" pipe           | SG1TN 122               | 65                 |      |
|           | 12" to 16" pipe          | SG1TN 123               | 65                 |      |
| 2/0       | Flat (18" & larger pipe) | SG1TN 124               | 65                 |      |
|           | 3" to 4" pipe            | SG1TN 125               | 65                 |      |
|           | 6" to 10" pipe           | SG1TN 126               | 65                 |      |
|           | 12" to 16" pipe          | SG1TN 127               | 65                 |      |

\* Conductor sólido - Solid Conductor



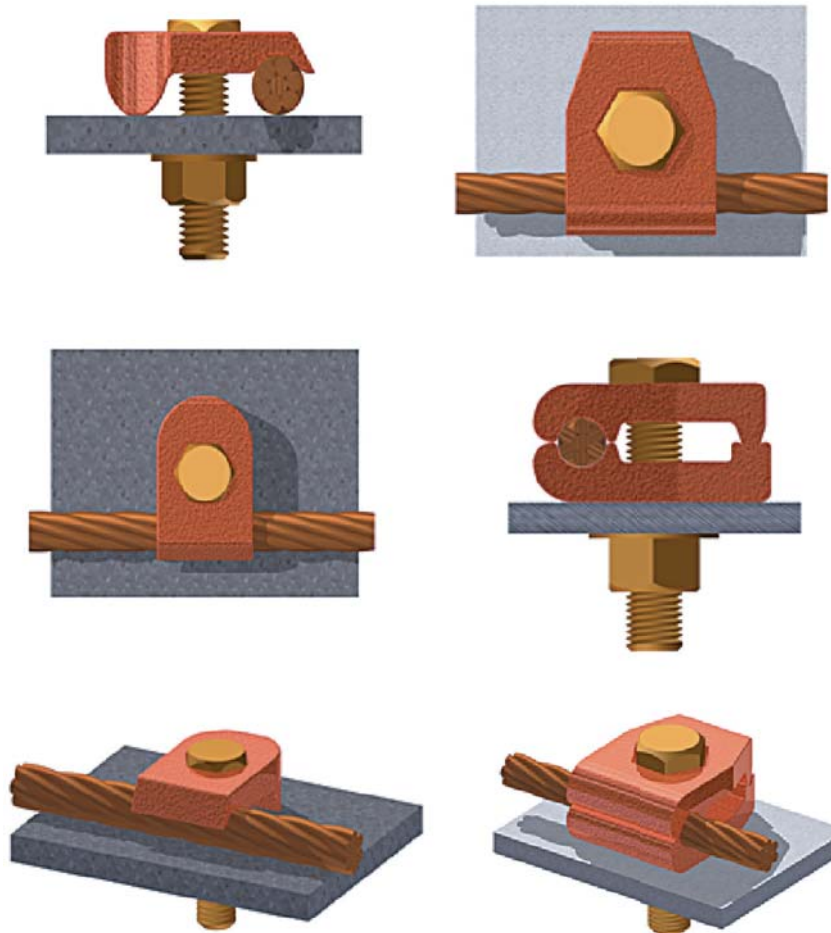
**ThermOcap® PC**



El ThermOcap® PC está diseñado para proteger las conexiones con soldadura extermica de cable a tubería, no requiere primer y tiene alta adherencia.

Facil aplicación en campo, simplemente separe la cubierta y pegue sobre la superficie. Las areas de contacto se deben limpiar previamente.

# TGBM - TGB



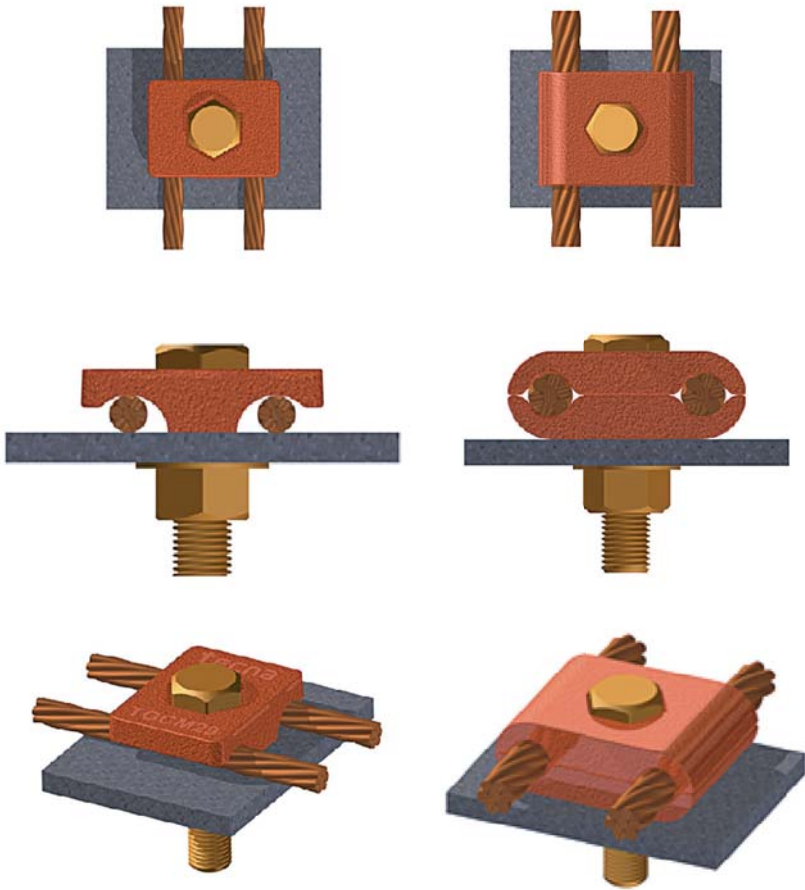
| CABLE         | CUERPO<br>SENCILLO      | DOS<br>CUERPOS          |
|---------------|-------------------------|-------------------------|
|               | REFERENCIA<br>REFERENCE | REFERENCIA<br>REFERENCE |
| 8 - 4 AWG     | SG2 TGBM4C              | SG2 TGB4C               |
| 4 - 2/0       | SG2 TGBM26              | SG2 TGB26               |
| 2/0 - 250 MCM | SG2 TGBM29              | SG2 TGB29               |
| 300 - 500     | SG2 TGBM34              | SG2 TGB34               |

**MALLAS A TIERRA • GROUNDING SYSTEMS**

**CONECTOR CABLE A SUPERFICIE PLANA • CABLE TO FLAT SURFACE CLAMP**

Dos Conductores a Superficie Plana, un solo Tornillo • Two cables to Flat Surface, One Single Bolt

**TGCM - TGC**



| CABLE A<br>GAUGE | CABLE B<br>GAUGE | UN CUERPO<br>ONE COVER | DOS CUERPOS<br>TWO COVERS |
|------------------|------------------|------------------------|---------------------------|
| 8 - 4            | 8 - 4            | SG2 TGCM 4C4C          | SG2 TGC 4C4C              |
|                  | 4 - 2/0          | SG2 TGCM 4C26          | SG2 TGC 4C26              |
| 4 - 2/0          | 2/0 - 250        | SG2 TGCM 4C29          | SG2 TGC 4C29              |
| 2/0 - 250        | 300 - 500        | SG2 TGCM 4C34          | SG2 TGC 4C34              |
|                  | 4 - 2/0          | SG2 TGCM 2626          | SG2 TGC 2626              |
| 300 - 500        | 2/0 - 250        | SG2 TGCM 2629          | SG2 TGC 2629              |
|                  | 300 - 500        | SG2 TGCM 2634          | SG2 TGC 2634              |
|                  | 2/0 - 250        | SG2 TGCM 2929          | SG2 TGC 2929              |
|                  | 300 - 500        | SG2 TGCM 2934          | SG2 TGC 2934              |
|                  | 300 - 500        | SG2 TGCM 3434          | SG2 TGC 3434              |

# MALLAS A TIERRA • GROUNDING SYSTEMS

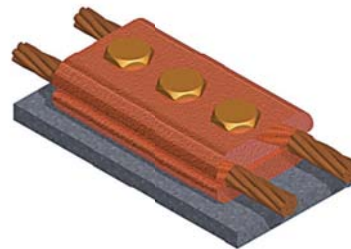
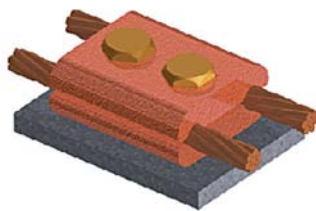
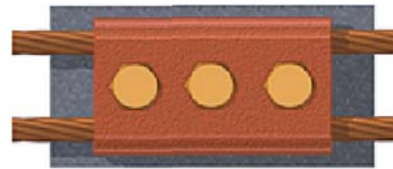
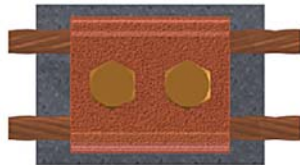
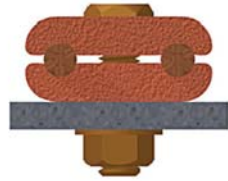
## CONECTOR CABLE A SUPERFICIE PLANA • CABLE TO FLAT SURFACE CLAMP

Dos Conductores a Superficie Plana, con Dos o Tres Tornillos • Two Cables to Surface  
With Two or Three Bolts

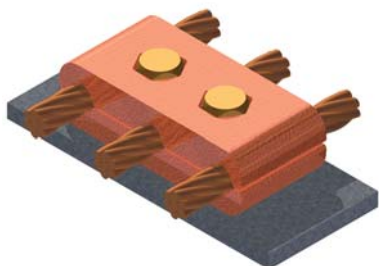
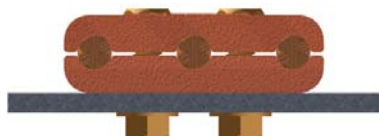
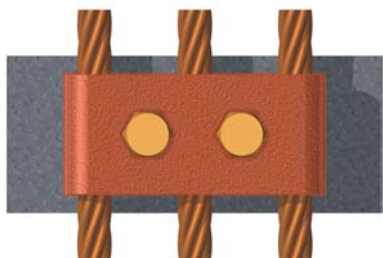


**TIPO**  
**SG2 TGL**  
**SG2 TCP**

# TGL - TCP

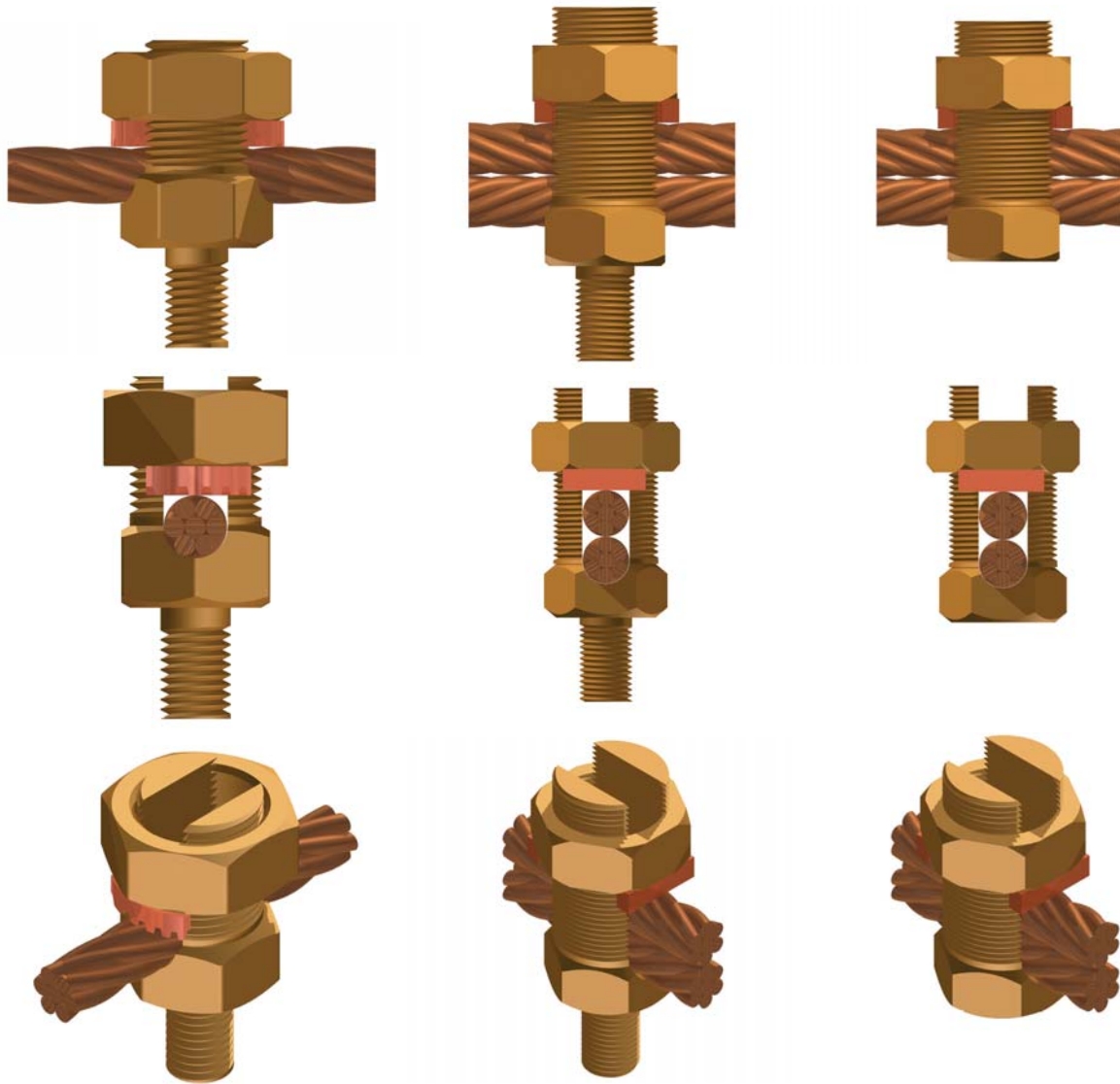


| CABLE A<br>GAUGE | CABLE B<br>GAUGE | DOSTORNILLOS<br>TWO BOLTS | TRES TORNILLOS<br>THREE BOLTS |
|------------------|------------------|---------------------------|-------------------------------|
| 8 - 4            | 8 - 4            | SG2 TGL 4C4C              | SG2 TCP 4C4C                  |
|                  | 4 - 2/0          | SG2 TGL 4C26              | SG2 TCP 4C26                  |
| 4 - 2/0          | 2/0 - 250        | SG2 TGL 4C29              | SG2 TCP 4C29                  |
| 2/0 - 250        | 300 - 500        | SG2 TGL 4C34              | SG2 TCP 4C34                  |
|                  | 4 - 2/0          | SG2 TGL 2626              | SG2 TCP 2626                  |
| 300 - 500        | 2/0 - 250        | SG2 TGL 2629              | SG2 TCP 2629                  |
|                  | 300 - 500        | SG2 TGL 2634              | SG2 TCP 2634                  |
|                  | 2/0 - 250        | SG2 TGL 2929              | SG2 TCP 2929                  |
|                  | 300 - 500        | SG2 TGL 2934              | SG2 TCP 2934                  |
|                  | 300 - 500        | SG2 TGL 3434              | SG2 TCP 3434                  |



| CABLE A GAUGE | CABLE B GAUGE                              | DOSTORNILLOS TWO BOLTS                                                                               | TRES CABLES THREE CABLES                                                                                                                     |
|---------------|--------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 8 - 4         | 8 - 4                                      | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500                                                           | SG2 TGE 4C4C4C<br>SG2 TGE 4C4C26<br>SG2 TGE 4C4C29<br>SG2 TGE 4C4C34                                                                         |
|               | 4 - 2/0                                    | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500                                                           | SG2 TGE 4C264C<br>SG2 TGE 4C2626<br>SG2 TGE 4C2629<br>SG2 TGE 4C2634                                                                         |
|               | 2/0 - 250                                  | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500                                                           | SG2 TGE 4C294C<br>SG2 TGE 4C2926<br>SG2 TGE 4C2929<br>SG2 TGE 4C2934                                                                         |
|               | 300 - 500                                  | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500                                                           | SG2 TGE 4C344C<br>SG2 TGE 4C3426<br>SG2 TGE 4C3429<br>SG2 TGE 4C3434                                                                         |
| 4 - 2/0       | 8 - 4<br>4 - 2/0                           | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>4 - 2/0<br>2/0 - 250<br>300 - 500                               | SG2 TGE 264C26<br>SG2 TGE 264C29<br>SG2 TGE 264C34<br>SG2 TGE 262626<br>SG2 TGE 262629<br>SG2 TGE 262634                                     |
|               | 2/0 - 250<br>300 - 500                     | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>4 - 2/0<br>2/0 - 250<br>300 - 500                               | SG2 TGE 262926<br>SG2 TGE 262929<br>SG2 TGE 262934<br>SG2 TGE 263426<br>SG2 TGE 263429<br>SG2 TGE 263434                                     |
| 2/0 - 250     | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500 | 2/0 - 250<br>300 - 500<br>2/0 - 250<br>300 - 500<br>2/0 - 250<br>300 - 500<br>2/0 - 250<br>300 - 500 | SG2 TGE 294C29<br>SG2 TGE 294C34<br>SG2 TGE 292629<br>SG2 TGE 292634<br>SG2 TGE 292929<br>SG2 TGE 292934<br>SG2 TGE 293429<br>SG2 TGE 293434 |
| 300 - 500     | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500 | 300 - 500<br>300 - 500<br>300 - 500<br>300 - 500                                                     | SG2 TGE 344C34<br>SG2 TGE 342634<br>SG2 TGE 342934<br>SG2 TGE 343434                                                                         |

# TKC - TK2C - TK2F



| CABLE GAUGE | UN CABLE<br>ONE CONDUCTOR | DOS CABLES<br>TWO CONDUCTORS | DOS CABLES<br>TWO CONDUCTORS |
|-------------|---------------------------|------------------------------|------------------------------|
| 10 - 7 AWG  | SG2 TKC 17                | SG2 TK2C 17                  | SG2 TK2F 17                  |
| 10 - 5      | SG2 TKC 20                | SG2 TK2C 20                  | SG2 TK2F 20                  |
| 10 - 3      | SG2 TKC 22                | SG2 TK2C 22                  | SG2 TK2F 22                  |
| 8 - 2       | SG2 TKC 23                | SG2 TK2C 23                  | SG2 TK2F 23                  |
| 2 - 1/0     | SG2 TKC 25                | SG2 TK2C 25                  | SG2 TK2F 25                  |
| 2 - 2/0     | SG2 TKC 26                | SG2 TK2C 26                  | SG2 TK2F 26                  |
| 1 - 4/0     | SG2 TKC 28                | SG2 TK2C 28                  | SG2 TK2F 28                  |
| 1 - 350 MCM | SG2 TKC 31                | SG2 TK2C 31                  | SG2 TK2F 31                  |



**TIPO**  
**SG2 TQA**  
**SG2 TQ2A**

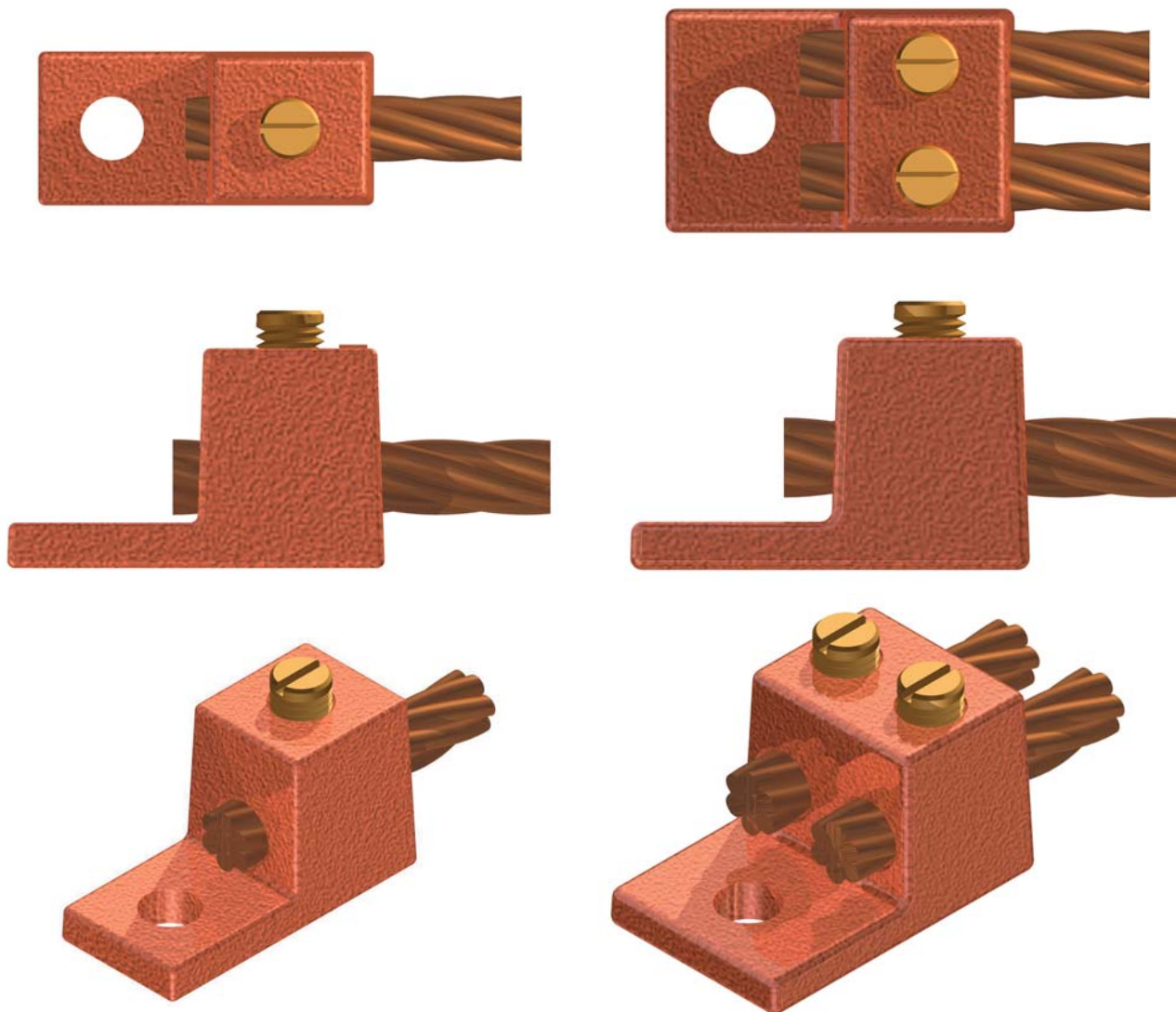
## MALLAS A TIERRA • GROUNDING SYSTEMS

### CONECTOR CABLE A SUPERFICIE PLANA • CABLE TO FLAT SURFACE CLAMP

Un conductor a una Superficie Plana o Barraje, Uno o Dos Tornillos

One Cable to a Flat surface or Bus Bar, One or Two Bolts

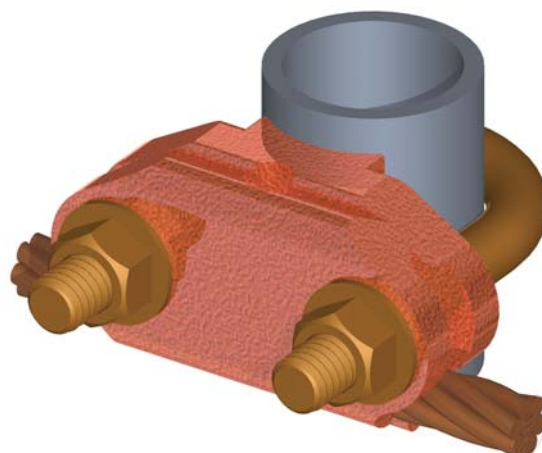
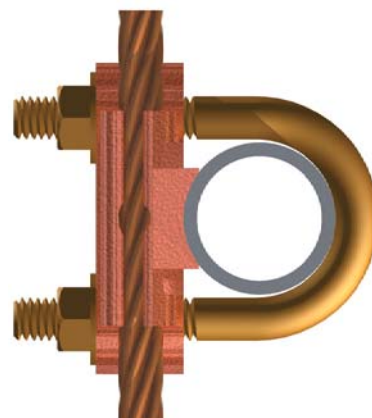
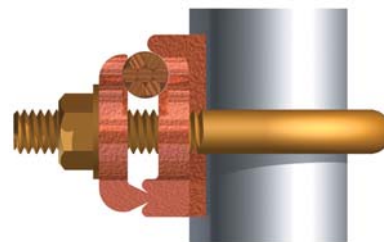
## TQA - TQ2A



| CABLE GAUGE | UN TORNILLO<br>ONE BOLT | DOS TORNILLOS<br>TWO BOLTS |
|-------------|-------------------------|----------------------------|
| 14 - 8      | SG2 TQA 8C              | SG2 TQ2A 8C                |
| 8 - 4       | SG2 TQA 4C              | SG2 TQ2A 4C                |
| 4 - 1       | SG2 TQA 1C              | SG2 TQ2A 1C                |
| 1/0 - 2/0   | SG2 TQA 26              | SG2 TQ2A 26                |
| 3/0 - 4/0   | SG2 TQA 28              | SG2 TQ2A 28                |

# TGAR

| TUBO<br>PIPE | VARILLA<br>ROD | CABLES<br>GAUGES                               | REFERENCIA<br>REFERENCE                                          |
|--------------|----------------|------------------------------------------------|------------------------------------------------------------------|
| 3/8"         | 5/8" - 3/4"    | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGAR 644C<br>SG2 TGAR 6426<br>SG2 TGAR 6429<br>SG2 TGAR 6434 |
| 1/2" - 3/4"  |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGAR 144C<br>SG2 TGAR 1426<br>SG2 TGAR 1429<br>SG2 TGAR 1434 |
| 1"           |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGAR 154C<br>SG2 TGAR 1526<br>SG2 TGAR 1529<br>SG2 TGAR 1534 |
| 1 1/4"       |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGAR 164C<br>SG2 TGAR 1626<br>SG2 TGAR 1629<br>SG2 TGAR 1634 |
| 1 1/2"       |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGAR 174C<br>SG2 TGAR 1726<br>SG2 TGAR 1729<br>SG2 TGAR 1734 |
| 2"           |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGAR 1826<br>SG2 TGAR 1829<br>SG2 TGAR 1834<br>SG2 TGAR 1926 |
| 2 1/2"       |                | 4 - 2/0<br>2/0 - 250<br>300 - 500              | SG2 TGAR 1929<br>SG2 TGAR 1934<br>SG2 TGAR 2026                  |
| 3"           |                | 4 - 2/0<br>2/0 - 250<br>300 - 500              | SG2 TGAR 2029<br>SG2 TGAR 2034<br>SG2 TGAR 2039                  |
| 3 1/2"       |                | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>550 - 750 | SG2 TGAR 2126<br>SG2 TGAR 2129<br>SG2 TGAR 2134<br>SG2 TGAR 219  |
| 4"           |                | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>550 - 750 | SG2 TGAR 2226<br>SG2 TGAR 2229<br>SG2 TGAR 2234<br>SG2 TGAR 2239 |

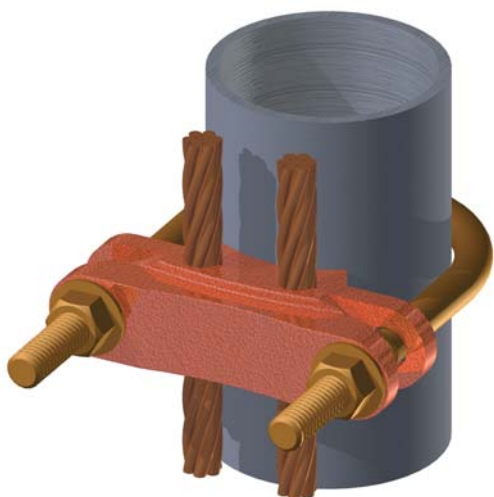
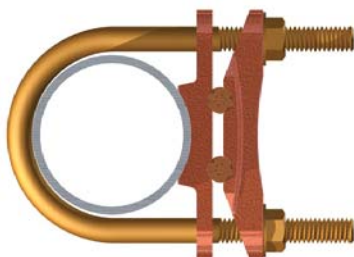
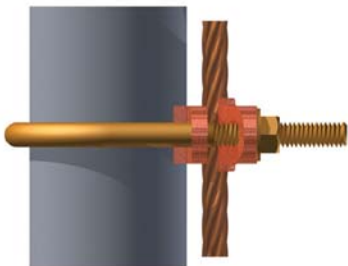


## MALLAS A TIERRA • GROUNDING SYSTEMS

### CONECTOR CABLE A TUBO • CABLE TO CONDUIT PIPE CLAMP

Dos conductores Paralelos a Tubo o Varilla  
 Two Cables Parallel to a Pipe or Ground Rod

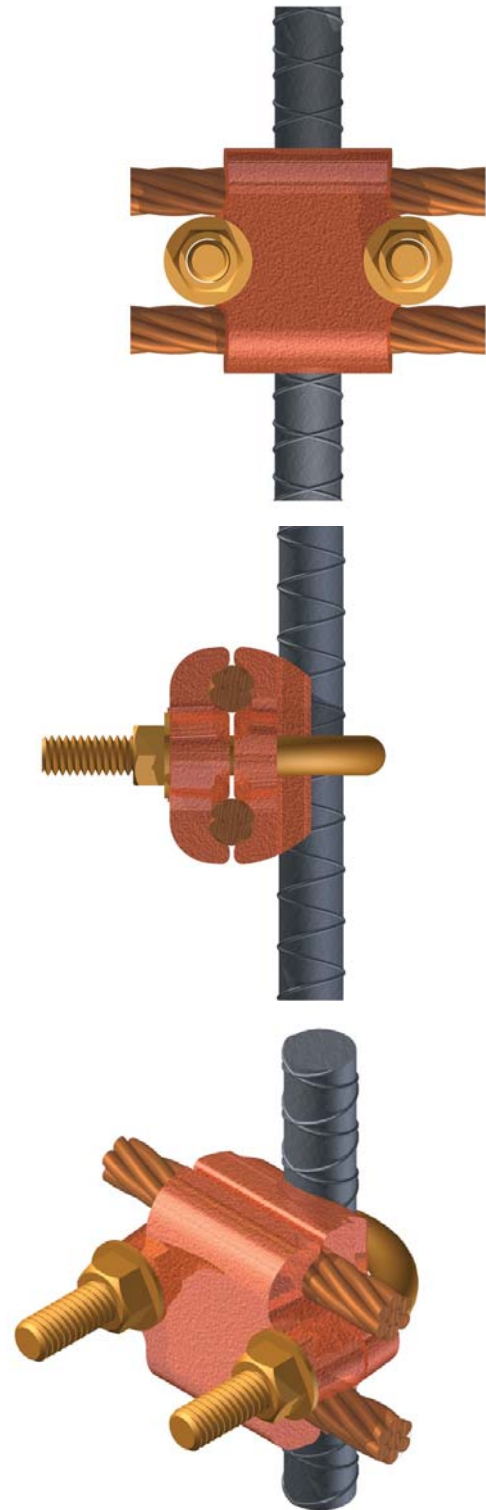
**TGD**



| TUBO<br>PIPE | VARILLA<br>ROD | CABLES<br>GAUGES                               | REFERENCIA<br>REFERENCE                                      |
|--------------|----------------|------------------------------------------------|--------------------------------------------------------------|
| 3/8"         | 5/8" - 3/4"    | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGD 644C<br>SG2 TGD 6426<br>SG2 TGD 6429<br>SG2 TGD 6434 |
| 1/2" - 3/4"  |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGD 144C<br>SG2 TGD 1426<br>SG2 TGD 1429<br>SG2 TGD 1434 |
| 1"           |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGD 154C<br>SG2 TGD 1526<br>SG2 TGD 1529<br>SG2 TGD 1534 |
| 1 1/4"       |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGD 164C<br>SG2 TGD 1626<br>SG2 TGD 1629<br>SG2 TGD 1634 |
| 1 1/2"       |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGD 174C<br>SG2 TGD 1726<br>SG2 TGD 1729<br>SG2 TGD 1734 |
| 2"           |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGD 1826<br>SG2 TGD 1829<br>SG2 TGD 1834<br>SG2 TGD 1926 |
| 2 1/2"       |                | 4 - 2/0<br>2/0 - 250<br>300 - 500              | SG2 TGD 1929<br>SG2 TGD 1934<br>SG2 TGD 2026                 |
| 3"           |                | 4 - 2/0<br>2/0 - 250<br>300 - 500              | SG2 TGD 2029<br>SG2 TGD 2034<br>SG2 TGD 2039                 |
| 3 1/2"       |                | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>550 - 750 | SG2 TGD 2126<br>SG2 TGD 2129<br>SG2 TGD 2134<br>SG2 TGD 219  |
| 4"           |                | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>550 - 750 | SG2 TGD 2226<br>SG2 TGD 2229<br>SG2 TGD 2234<br>SG2 TGD 2239 |

# TGP

| TUBO<br>PIPE | VARILLA<br>ROD | CABLES<br>GAUGES                               | REFERENCIA<br>REFERENCE                                      |
|--------------|----------------|------------------------------------------------|--------------------------------------------------------------|
| 3/8"         | 5/8" - 3/4"    | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGP 644C<br>SG2 TGP 6426<br>SG2 TGP 6429<br>SG2 TGP 6434 |
| 1/2" - 3/4"  |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGP 144C<br>SG2 TGP 1426<br>SG2 TGP 1429<br>SG2 TGP 1434 |
| 1"           |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGP 154C<br>SG2 TGP 1526<br>SG2 TGP 1529<br>SG2 TGP 1534 |
| 1 1/4"       |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGP 164C<br>SG2 TGP 1626<br>SG2 TGP 1629<br>SG2 TGP 1634 |
| 1 1/2"       |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGP 174C<br>SG2 TGP 1726<br>SG2 TGP 1729<br>SG2 TGP 1734 |
| 2"           |                | 8 - 4<br>4 - 2/0<br>2/0 - 250<br>300 - 500     | SG2 TGP 1826<br>SG2 TGP 1829<br>SG2 TGP 1834<br>SG2 TGP 1926 |
| 2 1/2"       |                | 4 - 2/0<br>2/0 - 250<br>300 - 500              | SG2 TGP 1929<br>SG2 TGP 1934<br>SG2 TGP 2026                 |
| 3"           |                | 4 - 2/0<br>2/0 - 250<br>300 - 500              | SG2 TGP 2029<br>SG2 TGP 2034<br>SG2 TGP 2039                 |
| 3 1/2"       |                | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>550 - 750 | SG2 TGP 2126<br>SG2 TGP 2129<br>SG2 TGP 2134<br>SG2 TGP 219  |
| 4"           |                | 4 - 2/0<br>2/0 - 250<br>300 - 500<br>550 - 750 | SG2 TGP 2226<br>SG2 TGP 2229<br>SG2 TGP 2234<br>SG2 TGP 2239 |





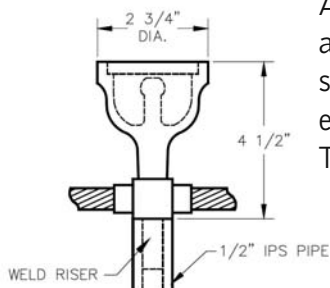
IG938011900

## CONECTOR PARA PUESTA A TIERRA DE AERONAVES Y CARRO TANQUES

El conector para puesta a tierra de aeronaves y carro tanques es un elemento fabricado en fundición de cobre usado para llevar a tierra la carga estática presente en áreas de manejo de combustible. Una vez instalado se adapta al nivel de la superficie de montaje. Provee un conexión permanente para carga estática, a prueba de corrosión. Puede conectarse fácilmente a cable o varillas de puesta a tierra en diferentes configuraciones utilizando un molde TECNOWELD apropiado.

## AIRCRAFT GROUNDING RECEPTACLE

Aircraft Grounding Receptacle is a copper alloy casting used for static grounding in aircraft refueling areas. The receptacle, when installed, is flush with the airport apron surface and provides a permanent, corrosion-proof static grounding connection. It can easily be attached to copper cable or ground rods in several configurations with a suitable TECOWED mold.

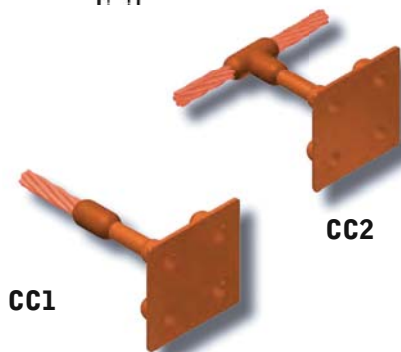


## CONECTOR TIPO PLATO

En el caso de estructuras de concreto, este conector permite puntos de conexión para equipos, maquinaria, etc. Son fabricados en aleación de cobre de alta calidad y pueden ser soldados fácilmente a cable de cobre.

## GROUND PLATES

When cast into concrete structures, these offer grounding points for equipment, machinery, etc. They are made from high quality copper alloy and can be welded easily to copper cable.



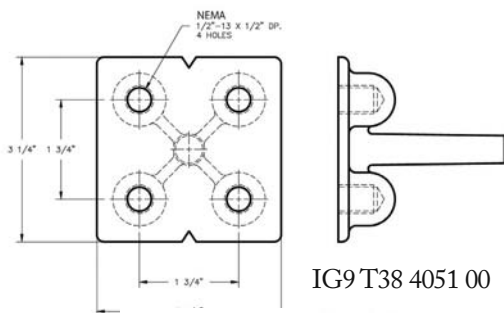
## CARRETE DE DESCARGA ESTÁTICA A TIERRA

El carrete de descarga estática a tierra sirve o se usa para disipar la energía estática que se genera durante el cargue o el descargue de líquidos inflamables evitando incendios o explosiones debido a este tipo de energía. Carrete de 50 pies referencia: IB2618B y carrete de 20 pies, referencia: IB2618A.

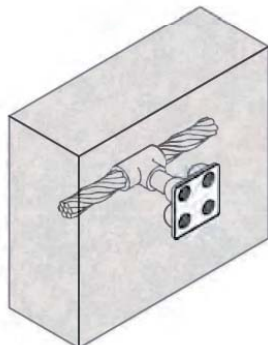
## STATIC DISCHARGE REELS

Static bonding and grounding reels are used to dissipate static electricity that is generated during the transfer of flammable liquids. Static discharge reel of 50 ft reference: IB2618B and Static discharge reel of 20 ft reference: IB2618A.

**IG9B2618A**  
**IG9B2618B**



IG9T38 4051 00



**PARA ESPECIFICACIONES TECNICAS  
ADICIONALES, CONTACTE A LOS  
ESPECIALISTAS DE TECNOWELD.**

## MALLAS A TIERRA • GROUNDING SYSTEMS

### VARILLAS DE PUESTA A TIERRA • GROUND RODS



#### Varilla tipo Copperweld / Electrolíticas

Excede los requerimientos de la Norma UL 467  
Varillas fabricadas con alma de acero y recubrimiento electrolítico de cobre, espesor mínimo 254  $\mu\text{m}$  (10 mils)  
Diámetro Nominal 5/8" (14.3 mm)  
Diámetro Nominal 3/4" (19 mm)

#### Copperweld type rod/electrolytic

Exceed UL 467 Standard requirements  
Steel core rods with 254  $\mu\text{m}$  (10 mils) minimum electrolytic coating of copper  
Nominal Diameter 5/8" (14.3 mm)  
Nominal Diameter 3/4" (19 mm)



**IG3V5808UL VARILLA DE 5/8" X 2.4 MTS.**  
**IG3V5810UL VARILLA DE 5/8" X 3.0 MTS.**

**IG3V5808UL 5/8" X 8' ROD**  
**IG3V5810UL 5/8" X 10' ROD**

**IG3V3410UL VARILLA DE 3/4" X 3.0 M TS.**

**IG3V3410UL 3/4" X 10' ROD**

#### Varilla de Cobre macizo

Fabricadas bajo la norma ICONTEC 2206 y ANSI UL 467. Manufacturadas en cobre refinado de alta conductividad garantizando una perfecta conducción a tierra de descargas eléctricas naturales o inducidas.  
Diámetro nominal 5/8" (14,3 mm)  
Diámetro Nominal 3/4" (19 mm)

#### Copper Rod

Manufactured under ICONTEC Standard 2206 ANSI UL 467  
Manufactured from high conductivity refined copper guaranteeing a perfect grounding conduction of natural or induced electrical discharges  
Nominal diameter 5/8" (14,3 mm)  
Nominal Diameter 3/4" (19 mm)



**LG3V5808CU VARILLA DE 5/8" X 2.4 MTS**  
**LG3V5810CU VARILLA DE 5/8" X 3.0 MTS**

**LG3V5808CU 5/8" X 8' ROD**  
**LG3V5810CU 5/8" X 10' ROD**

**LG3V3408CU VARILLA DE 3/4" X 2.4 MTS**  
**LG3V3410CU VARILLA DE 3/4" X 3.0 MTS.**

**LG3V3408CU 3/4" X 8' ROD**  
**LG3V3410CU 3/4" X 10' ROD**

### ACCESORIOS

**TIPO  
LG2CV**

**Conectores Mecánicos en Cobre** / Para conexión a varilla copperweld  
**Copper Mechanical Connectors** / For connection to copperweld rod



#### CONECTOR TIPO OJO

**LG2 CV5802** 5/8" a Cable 2 AWG  
**LG2 CV581/0** 5/8" a Cable 1/0 AWG  
**LG2 CV582/0** 5/8" a Cable 2/0 AWG  
**LG2 CV342/0** 3/4" a Cable 2/0 AWG

#### EYELET TYPE CONNECTOR

**LG2 CV58-02** 5/8" to 2 AWG Cable  
**LG2 CV58-1/0** 5/8" to 1/0 AWG Cable  
**LG2 CV58-2/0** 5/8" to 2/0 AWG Cable  
**LG2 CV34-2/0** 3/4" to 2/0 AWG Cable

## SISTEMA DE PROTECCIÓN CONTRA RAYOS

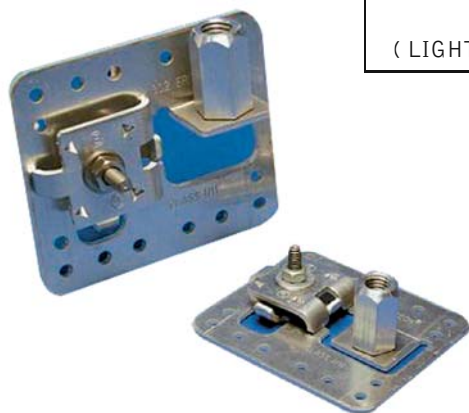
### LIGHTNING PROTECTION SYSTEMS

Puntas captadora y accesorios de montaje • Air Terminals and mounting accessories



**SAFETY TIP**

**POINTED**



|                                                                                                         | <b>COBRE</b>                      | <b>ALUMINIO</b>   |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------|
| <b>DESCRIPCION</b>                                                                                      | <b>REFERENCIA</b>                 | <b>REFERENCIA</b> |
| PUNTA CAPTADORA, 5/8" X 60 cms,<br>Extremo redondeado<br>( LIGHTNING ROD POINT, 5/8" X 24", Blunt Tip ) | ILPC245ST<br>Recubrimiento Niquel | ILPA245ST         |

|                                                                                                                                | <b>COBRE</b>      | <b>ALUMINIO</b>   |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| <b>DESCRIPCION</b>                                                                                                             | <b>REFERENCIA</b> | <b>REFERENCIA</b> |
| BASE UNIVERSAL HORIZONTAL/<br>VERTICAL PARA PUNTA<br>CAPTADORA 5/8"<br>Universal Horizontal/Vertical Surface<br>PointBase 5/8" | ILPC30258         | ILPA30258         |



|                                                                                           | <b>COBRE</b>      | <b>ALUMINIO</b>   |
|-------------------------------------------------------------------------------------------|-------------------|-------------------|
| <b>DESCRIPCION</b>                                                                        | <b>REFERENCIA</b> | <b>REFERENCIA</b> |
| CONECTOR BIMETALICO BRONCE<br>ALUMINIO HASTA 4/0<br>Bimetallic Connector Bronze- Aluminum |                   | ILPA598           |



|                                                                                            | <b>COBRE</b>      | <b>ALUMINIO</b>   |
|--------------------------------------------------------------------------------------------|-------------------|-------------------|
| <b>DESCRIPCION</b>                                                                         | <b>REFERENCIA</b> | <b>REFERENCIA</b> |
| RODILLA NIVELADORA H-M PARA<br>PUNTA CAPTADORA 5/8"<br>Adjustable ( Swivel ) Point Adapter | ILPC2855F5M       | ILPA2855F5M       |

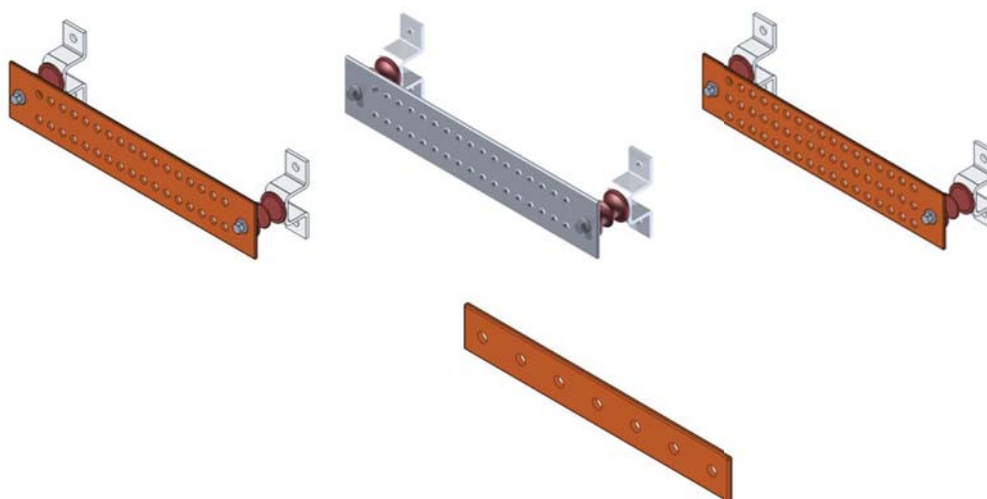


|                                             | <b>COBRE</b>      | <b>ALUMINIO</b>   |
|---------------------------------------------|-------------------|-------------------|
| <b>DESCRIPCION</b>                          | <b>REFERENCIA</b> | <b>REFERENCIA</b> |
| CONECTOR DE COBRE EN T<br>Tee Cable Splicer | ILPC510           | ILPA510           |

|                                                 | <b>COBRE</b>      | <b>ALUMINIO</b>   |
|-------------------------------------------------|-------------------|-------------------|
| <b>DESCRIPCION</b>                              | <b>REFERENCIA</b> | <b>REFERENCIA</b> |
| CONECTOR DE COBRE EN X<br>Cross cable Connector | ILPC595           | ILPA595           |

**PARA MÁS REFERENCIAS Y ACCESORIOS DE MONTAJE,  
CONTACTE A LOS ESPECIALISTAS DE TECNOWELD.**

| DESCRIPCION<br>DESCRIPTION                               | REFERENCIA<br>REFERENCE COBRE | REFERENCIA<br>REFERENCE ESTAÑO |
|----------------------------------------------------------|-------------------------------|--------------------------------|
| 1-1/2" X 1/4"                                            |                               |                                |
| Platina de CU Largo 300 mm Ancho X 1-1/2" Espesor X 1/4" | LG83003806                    | LG83003806E                    |
| Platina de CU Largo 400 mm Ancho X 1-1/2" Espesor X 1/4" | LG84003806                    | LG84003806E                    |
| Platina de CU Largo 500 mm Ancho X 1-1/2" Espesor X 1/4" | LG85003806                    | LG85003806E                    |
| Platina de CU Largo 600 mm Ancho X 1-1/2" Espesor X 1/4" | LG86003806                    | LG86003806E                    |
| 2" X 1/4"                                                |                               |                                |
| Platina de CU Largo 300 mm Ancho X 2" Espesor X 1/4"     | LG83005006                    | LG83005006E                    |
| Platina de CU Largo 400 mm Ancho X 2" Espesor X 1/4"     | LG84005006                    | LG84005006E                    |
| Platina de CU Largo 500 mm Ancho X 2" Espesor X 1/4"     | LG85005006                    | LG85005006E                    |
| Platina de CU Largo 600 mm Ancho X 2" Espesor X 1/4"     | LG86005006                    | LG86005006E                    |
| 3" X 1/4"                                                |                               |                                |
| Platina de CU Largo 300 mm Ancho X 3" Espesor X 1/4"     | LG83007506                    | LG83007506E                    |
| Platina de CU Largo 400 mm Ancho X 3" Espesor X 1/4"     | LG84007506                    | LG84007506E                    |
| Platina de CU Largo 500 mm Ancho X 3" Espesor X 1/4"     | LG85007506                    | LG85007506E                    |
| Platina de CU Largo 600 mm Ancho X 3" Espesor X 1/4"     | LG86007506                    | LG86007506E                    |
| 4" X 1/4"                                                |                               |                                |
| Platina de CU Largo 300 mm Ancho X 4" Espesor X 1/4"     | LG830010006                   | LG830010006E                   |
| Platina de CU Largo 400 mm Ancho X 4" Espesor X 1/4"     | LG840010006                   | LG840010006E                   |
| Platina de CU Largo 500 mm Ancho X 4" Espesor X 1/4"     | LG850010006                   | LG850010006E                   |
| Platina de CU Largo 600 mm Ancho X 4" Espesor X 1/4"     | LG860010006                   | LG860010006E                   |







# **CRUCE DE REFERENCIAS CROSS REFERENCE**



## REFERENCIAS CRUZADAS • CROSS REFERENCE

ACCESORIOS TUBERIA/CONDUIT FITTINGS • MALLAS A TIERRA/GROUNDING

### TECNO WELD THERMOWELD CADWELD

|            |         |         |
|------------|---------|---------|
| SG1 TN 100 | M - 100 | -       |
| SG1 TN 101 | M - 101 | -       |
| SG1 TN 102 | M - 102 | -       |
| SG1 TN 103 | M - 103 | -       |
| SG1 TN 104 | M - 104 | -       |
| SG1 TN 105 | M - 105 | -       |
| SG1 TN 200 | M - 200 | SSC - 1 |
| SG1 TN 201 | M - 201 | SSC - 1 |
| SG1 TN 202 | M - 202 | SSC - 1 |
| SG1 TN 203 | M - 203 | SSC - 1 |
| SG1 TN 204 | M - 204 | SSC - 1 |
| SG1 TN 205 | M - 205 | SSC - 2 |
| SG1 TN 206 | M - 206 | SSC - 2 |
| SG1 TN 207 | M - 207 | SSC - 2 |
| SG1 TN 208 | M - 208 | SSC - 2 |
| SG1 TN 209 | M - 209 | SSC - 2 |
| SG1 TN 210 | M - 210 | SSC - 3 |
| SG1 TN 211 | M - 211 | SSC - 3 |
| SG1 TN 213 | M - 213 | SSC - 3 |
| SG1 TN 214 | M - 214 | SSC - 4 |
| SG1 TN 215 | M - 215 | SSC - 4 |
| SG1 TN 221 | M - 221 | TAC1L   |
| SG1 TN 222 | M - 222 | TAC - 1 |
| SG1 TN 223 | M - 223 | TAC - 1 |
| SG1 TN 224 | M - 224 | TAC - 1 |
| SG1 TN 225 | M - 225 | TAC - 1 |
| SG1 TN 226 | M - 226 | TAC - 1 |
| SG1 TN 227 | M - 227 | TAC - 1 |
| SG1 TN 228 | M - 228 | TAC - 2 |
| SG1 TN 229 | M - 229 | TAC - 2 |
| SG1 TN 230 | M - 230 | TAC - 2 |
| SG1 TN 231 | M - 231 | TAC - 2 |
| SG1 TN 232 | M - 232 | TAC - 2 |
| SG1 TN 233 | M - 233 | TAC - 2 |
| SG1 TN 234 | M - 234 | TAC - 2 |
| SG1 TN 235 | M - 235 | TAC - 2 |
| SG1 TN 236 | M - 236 | TAC - 2 |
| SG1 TN 237 | M - 237 | TAC - 2 |
| SG1 TN 238 | M - 238 | TAC - 2 |
| SG1 TN 239 | M - 239 | TAC - 2 |
| SG1 TN 240 | M - 240 | TAC - 2 |
| SG1 TN 241 | M - 241 | TAC - 2 |
| SG1 TN 242 | M - 242 | TAC - 2 |
| SG1 TN 243 | M - 243 | TAC - 2 |
| SG1 TN 244 | M - 244 | TAC - 2 |
| SG1 TN 245 | M - 245 | TAC - 2 |

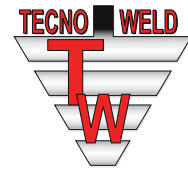


### TECNO WELD THERMOWELD CADWELD

|            |         |         |
|------------|---------|---------|
| SG1 TN 246 | M - 246 | TAC - 2 |
| SG1 TN 247 | M - 247 | TAC - 2 |
| SG1 TN 248 | M - 248 | TAC - 2 |
| SG1 TN 249 | M - 249 | TAC - 2 |
| SG1 TN 250 | M - 250 | TAC - 2 |
| SG1 TN 251 | M - 251 | TAC - 2 |
| SG1 TN 252 | M - 252 | TAC - 2 |
| SG1 TN 253 | M - 253 | TAC - 2 |
| SG1 TN 254 | M - 254 | TAC - 3 |
| SG1 TN 255 | M - 255 | TAC - 3 |
| SG1 TN 256 | M - 256 | TAC - 3 |
| SG1 TN 257 | M - 257 | TAC - 3 |
| SG1 TN 258 | M - 258 | TAC - 3 |
| SG1 TN 259 | M - 259 | TAC - 3 |
| SG1 TN 260 | M - 260 | TAC - 3 |
| SG1 TN 261 | M - 261 | TAC - 3 |
| SG1 TN 262 | M - 262 | TAD - 3 |
| SG1 TN 263 | M - 263 | TAD - 3 |
| SG1 TN 264 | M - 264 | TAD - 3 |
| SG1 TN 265 | M - 265 | TAC - 3 |
| SG1 TN 266 | M - 266 | TAC - 3 |
| SG1 TN 267 | M - 267 | TAC - 3 |
| SG1 TN 268 | M - 268 | TAC - 3 |
| SG1 TN 269 | M - 269 | TAC - 3 |
| SG1 TN 270 | M - 270 | TAC - 3 |
| SG1 TN 280 | M - 280 | TAC - 3 |
| SG1 TN 282 | M - 282 | TAC - 3 |
| SG1 TN 283 | M - 283 | TAC - 3 |
| SG1 TN 284 | M - 284 | TAC - 3 |
| SG1 TN 285 | M - 285 | TAC - 3 |
| SG1 TN 286 | M - 286 | TAC - 3 |
| SG1 TN 287 | M - 287 | TAC - 3 |
| SG1 TN 288 | M - 288 | TAC - 3 |
| SG1 TN 289 | M - 289 | TAC - 3 |
| SG1 TN 290 | M - 290 | TAD - 4 |
| SG1 TN 291 | M - 291 | TAD - 4 |
| SG1 TN 293 | M - 293 | TAC - 4 |
| SG1 TN 294 | M - 294 | TAC - 4 |
| SG1 TN 295 | M - 295 | TAC - 4 |
| SG1 TN 296 | M - 296 | TAC - 4 |

# REFERENCIAS CRUZADAS • CROSS REFERENCE

MALLAS A TIERRA/GROUNDING NETWORKS



## TECNO WELD THERMOWELD CADWELD

|            |         |         |
|------------|---------|---------|
| SG1 TN 297 | M - 297 | TAC - 4 |
| SG1 TN 298 | M - 298 | TAC - 4 |
| SG1 TN 299 | M - 299 | TAD - 4 |
| SG1 TN 300 | M - 300 | TAD - 4 |
| SG1 TN 301 | M - 301 | TAD - 4 |
| SG1 TN 303 | M - 303 | TAD - 4 |
| SG1 TN 304 | M - 304 | TAD - 4 |
| SG1 TN 305 | M - 305 | TAD - 4 |
| SG1 TN 306 | M - 306 | TAC - 4 |
| SG1 TN 307 | M - 307 | TAC - 4 |
| SG1 TN 308 | M - 308 | TAC - 4 |
| SG1 TN 423 | M - 423 | XAC - 1 |
| SG1 TN 424 | M - 424 | XAC - 1 |
| SG1 TN 425 | M - 425 | XAC - 1 |
| SG1 TN 426 | M - 426 | XAC - 1 |
| SG1 TN 427 | M - 427 | XAC - 1 |
| SG1 TN 428 | M - 428 | XAC - 1 |
| SG1 TN 429 | M - 429 | XAC - 1 |
| SG1 TN 430 | M - 430 | XAC - 2 |
| SG1 TN 431 | M - 431 | XAC - 2 |
| SG1 TN 432 | M - 432 | XAC - 2 |
| SG1 TN 433 | M - 433 | XAC - 2 |
| SG1 TN 434 | M - 434 | XAC - 2 |
| SG1 TN 435 | M - 435 | XAC - 2 |
| SG1 TN 436 | M - 436 | XAC - 2 |
| SG1 TN 437 | M - 437 | XAC - 2 |
| SG1 TN 438 | M - 438 | XAC - 2 |
| SG1 TN 439 | M - 439 | XAC - 2 |
| SG1 TN 440 | M - 440 | XAC - 2 |
| SG1 TN 441 | M - 441 | XAC - 2 |
| SG1 TN 442 | M - 442 | XAC - 2 |
| SG1 TN 443 | M - 443 | XAC - 2 |
| SG1 TN 444 | M - 444 | XAC - 2 |
| SG1 TN 445 | M - 445 | XAC - 2 |
| SG1 TN 446 | M - 446 | XAC - 2 |
| SG1 TN 447 | M - 447 | XAC - 2 |
| SG1 TN 448 | M - 448 | XAC - 2 |
| SG1 TN 449 | M - 449 | XAC - 2 |
| SG1 TN 450 | M - 450 | XAC - 2 |
| SG1 TN 451 | M - 451 | XAC - 2 |
| SG1 TN 452 | M - 452 | XAC - 2 |
| SG1 TN 453 | M - 453 | XAC - 2 |
| SG1 TN 454 | M - 454 | XAC - 2 |
| SG1 TN 455 | M - 455 | XAC - 2 |
| SG1 TN 456 | M - 456 | XAC - 3 |
| SG1 TN 457 | M - 457 | XAC - 3 |
| SG1 TN 458 | M - 458 | XAC - 3 |
| SG1 TN 459 | M - 459 | XAC - 3 |
| SG1 TN 460 | M - 460 | XAC - 3 |
| SG1 TN 461 | M - 461 | XAC - 3 |
| SG1 TN 462 | M - 462 | XAC - 3 |
| SG1 TN 463 | M - 463 | XAC - 3 |
| SG1 TN 464 | M - 464 | XAC - 3 |
| SG1 TN 465 | M - 465 | XAC - 3 |



## TECNO WELD THERMOWELD CADWELD

|            |         |         |
|------------|---------|---------|
| SG1 TN 466 | M - 466 | XAC - 3 |
| SG1 TN 467 | M - 467 | XAC - 3 |
| SG1 TN 468 | M - 468 | XAC - 3 |
| SG1 TN 469 | M - 469 | XAC - 3 |
| SG1 TN 470 | M - 470 | XAC - 3 |
| SG1 TN 471 | M - 471 | XAC - 3 |
| SG1 TN 472 | M - 472 | XAC - 3 |
| SG1 TN 483 | M - 483 | XAD - 3 |
| SG1 TN 485 | M - 485 | XAD - 3 |
| SG1 TN 486 | M - 486 | XAD - 3 |
| SG1 TN 487 | M - 487 | XAD - 3 |
| SG1 TN 488 | M - 488 | XAD - 3 |
| SG1 TN 489 | M - 489 | XAD - 3 |
| SG1 TN 490 | M - 490 | XAC - 3 |
| SG1 TN 491 | M - 491 | XAC - 3 |
| SG1 TN 492 | M - 492 | XAC - 3 |
| SG1 TN 493 | M - 493 | XAC - 3 |
| SG1 TN 495 | M - 495 | GRC - 1 |
| SG1 TN 496 | M - 496 | GRC - 1 |
| SG1 TN 497 | M - 497 | GRC - 1 |
| SG1 TN 498 | M - 498 | GRC - 1 |
| SG1 TN 499 | M - 499 | GRC - 1 |
| SG1 TN 500 | M - 500 | GRC - 1 |
| SG1 TN 501 | M - 501 | GRC - 1 |
| SG1 TN 502 | M - 502 | GRC - 1 |
| SG1 TN 503 | M - 503 | GRC - 1 |
| SG1 TN 504 | M - 504 | GRC - 1 |
| SG1 TN 505 | M - 505 | GRC - 1 |
| SG1 TN 506 | M - 506 | GRC - 1 |
| SG1 TN 507 | M - 507 | GRC - 1 |
| SG1 TN 508 | M - 508 | GRC - 1 |
| SG1 TN 509 | M - 509 | GRC - 1 |
| SG1 TN 510 | M - 510 | GRC - 1 |
| SG1 TN 511 | M - 511 | GRC - 1 |
| SG1 TN 513 | M - 513 | GRC - 1 |
| SG1 TN 514 | M - 514 | GRC - 1 |
| SG1 TN 515 | M - 515 | GRC - 1 |
| SG1 TN 516 | M - 516 | GRC - 1 |
| SG1 TN 517 | M - 517 | GRC - 1 |
| SG1 TN 518 | M - 518 | GRC - 1 |
| SG1 TN 519 | M - 519 | GRC - 1 |
| SG1 TN 520 | M - 520 | GRC - 1 |
| SG1 TN 521 | M - 521 | GRC - 1 |
| SG1 TN 523 | M - 523 | GRC - 1 |
| SG1 TN 524 | M - 524 | GRD - 1 |
| SG1 TN 525 | M - 525 | GRD - 2 |
| SG1 TN 526 | M - 526 | GRD - 2 |
| SG1 TN 527 | M - 527 | GRD - 2 |
| SG1 TN 528 | M - 528 | GRD - 2 |
| SG1 TN 529 | M - 529 | GRD - 2 |
| SG1 TN 530 | M - 530 | GRD - 2 |
| SG1 TN 531 | M - 531 | GRD - 2 |
| Sg1 TN 533 | M - 533 | GRD - 2 |
| SG1 TN 534 | M - 534 | GRD - 2 |



## REFERENCIAS CRUZADAS • CROSS REFERENCE

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#### TECNO WELD THERMOWELD CADWELD

|            |             |         |
|------------|-------------|---------|
| SG1 TN 535 | M - 535     | GRD - 2 |
| SG1 TN 537 | M - 537     | GTC - 1 |
| SG1 TN 538 | M - 538     | GTC - 1 |
| SG1 TN 539 | M - 539     | GTC - 1 |
| SG1 TN 540 | M - 540     | GTC - 1 |
| SG1 TN 541 | M - 541     | GTC - 1 |
| SG1 TN 542 | M - 542     | GTC - 1 |
| SG1 TN 543 | M - 543     | GTC - 1 |
| SG1 TN 544 | M - 544     | GTD - 1 |
| SG1 TN 545 | M - 545     | GTC - 1 |
| SG1 TN 546 | M - 546     | GTC - 1 |
| SG1 TN 547 | M - 547     | GTC - 1 |
| SG1 TN 548 | M - 548     | GTC - 1 |
| SG1 TN 549 | M - 549     | GTC - 1 |
| SG1 TN 550 | M - 550     | GTC - 1 |
| SG1 TN 551 | M - 551     | GTC - 1 |
| SG1 TN 552 | M - 552     | GTC - 1 |
| SG1 TN 553 | M - 553     | GTC - 1 |
| SG1 TN 555 | M - 555     | GTC - 1 |
| SG1 TN 556 | M - 556     | GTC - 1 |
| SG1 TN 557 | M - 557     | GTC - 1 |
| SG1 TN 558 | M - 558     | GTC - 1 |
| SG1 TN 559 | M - 559     | GTC - 1 |
| SG1 TN 560 | M - 560     | GTC - 1 |
| SG1 TN 561 | M - 561     | GTC - 1 |
| SG1 TN 562 | M - 562     | GTC - 1 |
| SG1 TN 563 | M - 563     | GTD - 1 |
| SG1 TN 564 | M - 564     | GTD - 1 |
| SG1 TN 566 | M - 566     | GTD - 1 |
| SG1 TN 567 | M - 567     | GTD - 1 |
| SG1 TN 569 | M - 569     | GTC - 2 |
| SG1 TN 570 | M - 570     | GTC - 2 |
| SG1 TN 571 | M - 571     | GTC - 2 |
| SG1 TN 572 | M - 572     | GTC - 2 |
| SG1 TN 573 | M - 573     | GTD - 2 |
| SG1 TN 574 | M - 574     | GTD - 2 |
| SG1 TN 575 | M - 575     | GTD - 2 |
| SG1 TN 577 | M - 577     | GTD - 2 |
| SG1 TN 578 | M - 578     | GTD - 2 |
| SG1 TN 579 | M - 579     | GTF - 2 |
| SG1 TN 581 | M - 581 - T | GBC - 1 |
| SG1 TN 582 | M - 582     | GBD - 1 |
| SG1 TN 583 | M - 583     | GBD - 1 |
| SG1 TN 584 | M - 584     | GBD - 2 |
| SG1 TN 585 | M - 585     | VSC - 1 |
| SG1 TN 586 | M - 586     | VSC - 1 |
| SG1 TN 587 | M - 587     | VSC - 1 |
| SG1 TN 588 | M - 588     | VSC - 1 |
| SG1 TN 589 | M - 589     | VSC - 1 |
| SG1 TN 590 | M - 590     | VSC - 2 |
| SG1 TN 591 | M - 591     | VSC - 2 |
| SG1 TN 592 | M - 592     | VSC - 2 |
| SG1 TN 593 | M - 593     | VSC - 2 |
| SG1 TN 594 | M - 594     | VSC - 2 |

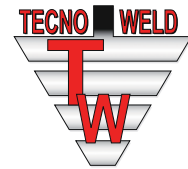


#### TECNO WELD THERMOWELD CADWELD

|               |            |         |
|---------------|------------|---------|
| SG1 TN 595    | M - 595    | VSC - 3 |
| SG1 TN 596    | M - 596    | VSC - 3 |
| SG1 TN 598    | M - 598    | VSC - 3 |
| SG1 TN 599    | M - 599    | VSD - 4 |
| SG1 TN 600    | M - 600    | VSD - 4 |
| SG1 TN 602    | M - 602    | HCA - 1 |
| SG1 TN 603    | M - 603    | HCA - 1 |
| SG1 TN 604    | M - 604    | HCA - 1 |
| SG1 TN 628    | M - 628    | HAA - 1 |
| SG1 TN 629    | M - 629    | HAA - 1 |
| SG1 TN 630    | M - 630    | HAA - 1 |
| SG1 TN 631    | M - 631    | HAA - Y |
| SG1 TN 971    | M - 971    | LAC - 1 |
| SG1 TN 975    | M - 975    | LAC - 1 |
| SG1 TN 977    | M - 977    | LAC - 1 |
| SG1 TN 978    | M - 978    | LAC - 2 |
| SG1 TN 979    | M - 979    | LAC - 2 |
| SG1 TN 980    | M - 980    | LAC - 2 |
| SG1 TN 981    | M - 981    | LAC - 2 |
| SG1 TN 982    | M - 982    | LAC - 2 |
| SG1 TN 983    | M - 983    | LAC - 2 |
| SG1 TN 984    | M - 984    | LAC - 2 |
| SG1 TN 985    | M - 985    | LAC - 2 |
| SG1 TN 987    | M - 987    | LAC - 2 |
| SG1 TN 988    | M - 988    | LAC - 2 |
| SG1 TN 990    | M - 990    | LAC - 2 |
| SG1 TN 991    | M - 991    | LAC - 3 |
| SG1 TN 993    | M - 993    | LAC - 3 |
| SG1 TN 994    | M - 994    | LAC - 3 |
| SG1 TN 996    | M - 996    | LAC - 3 |
| SG1 TN 1001   | M - 1001   | LAC - 3 |
| SG1 TN 1002   | M - 1002   | LAC - 3 |
| SG1 TN 1004   | M - 1004   | LAC - 3 |
| SG1 TN 1006   | M - 1006   | LAD - 4 |
| SG1 TN 1007   | M - 1007   | LAD - 4 |
| SG1 TN 1008   | M - 1008   | LAD - 4 |
| SG1 TN 1009   | M - 1009   | LAD - 4 |
| SG1 TN 1011   | M - 1011   | LAD - 4 |
| SG1 TN 1215   | M - 1215   | VVC - 1 |
| SG1 TN 1216   | M - 1216   | VVC - 1 |
| SG1 TN 1217   | M - 1217   | VVC - 1 |
| SG1 TN 1218   | M - 1218   | VVC - 1 |
| SG1 TN 1219   | M - 1219   | VVC - 1 |
| SG1 TN 1220   | M - 1220   | VVR - 2 |
| SG1 TN 1221   | M - 1221   | VVR - 2 |
| SG1 TN 1222   | M - 1222   | VVR - 2 |
| SG1 TN 1223   | M - 1223   | VVR - 2 |
| SG1 TN 1224   | M - 1224   | VVR - 2 |
| SG1 TN 1225-H | M - 1225-H | HD - VV |
| SG1 TN 1226-H | M - 1226-H | HD - VV |
| SG1 TN 1228-H | M - 1228-H | HD - VV |
| SG1 TN 1271   | M - 1271   | PCC - 1 |
| SG1 TN 1272   | M - 1272   | PCC - 1 |
| SG1 TN 1273   | M - 1273   | PCC - 1 |

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## TECNO WELD THERMOWELD CADWELD

|             |          |         |
|-------------|----------|---------|
| SG1 TN 1276 | M - 1276 | PCC - 1 |
| SG1 TN 1277 | M - 1277 | PCC - 1 |
| SG1 TN 1278 | M - 1278 | PCC - 1 |
| SG1 TN 1282 | M - 1282 | PCC - 1 |
| SG1 TN 1283 | M - 1283 | PCC - 1 |
| SG1 TN 1284 | M - 1284 | PCC - 1 |
| SG1 TN 1289 | M - 1289 | PCC - 2 |
| SG1 TN 1290 | M - 1290 | PCC - 2 |
| SG1 TN 1291 | M - 1291 | PCC - 2 |
| SG1 TN 1297 | M - 1297 | PCC - 2 |
| SG1 TN 1298 | M - 1298 | PCC - 2 |
| SG1 TN 1299 | M - 1299 | PCC - 2 |
| SG1 TN 1305 | M - 1305 | PCC - 2 |
| SG1 TN 1306 | M - 1306 | PCC - 2 |
| SG1 TN 1307 | M - 1307 | PCC - 2 |
| SG1 TN 1308 | M - 1308 | PCC - 2 |
| SG1 TN 1311 | M - 1311 | PTC - 1 |
| SG1 TN 1312 | M - 1312 | PTC - 1 |
| SG1 TN 1313 | M - 1313 | PTC - 1 |
| SG1 TN 1314 | M - 1314 | PTC - 1 |
| SG1 TN 1315 | M - 1315 | PTC - 1 |
| SG1 TN 1316 | M - 1316 | PTC - 1 |
| SG1 TN 1317 | M - 1317 | PTC - 1 |
| SG1 TN 1318 | M - 1318 | PTC - 2 |
| SG1 TN 1319 | M - 1319 | PTC - 2 |
| SG1 TN 1320 | M - 1320 | PTC - 2 |
| SG1 TN 1321 | M - 1321 | PTC - 2 |
| SG1 TN 1322 | M - 1322 | PTC - 2 |
| SG1 TN 1323 | M - 1323 | PTC - 2 |
| SG1 TN 1324 | M - 1324 | PTC - 2 |
| SG1 TN 1325 | M - 1325 | PTC - 2 |
| SG1 TN 1326 | M - 1326 | PTC - 2 |
| SG1 TN 1327 | M - 1327 | PTC - 2 |
| SG1 TN 1328 | M - 1328 | PTC - 2 |
| SG1 TN 1329 | M - 1329 | PTC - 2 |
| SG1 TN 1330 | M - 1330 | PTC - 2 |
| SG1 TN 1331 | M - 1331 | PTC - 2 |
| SG1 TN 1332 | M - 1332 | PTC - 2 |
| SG1 TN 1333 | M - 1333 | PTC - 2 |
| SG1 TN 1334 | M - 1334 | PTC - 2 |
| SG1 TN 1335 | M - 1335 | PTC - 2 |
| SG1 TN 1336 | M - 1336 | PTC - 2 |
| SG1 TN 1337 | M - 1337 | PTC - 2 |
| SG1 TN 1338 | M - 1338 | PTD - 2 |
| SG1 TN 1339 | M - 1339 | PTD - 2 |
| SG1 TN 1340 | M - 1340 | PTC - 2 |
| SG1 TN 1341 | M - 1341 | PTC - 2 |
| SG1 TN 1342 | M - 1342 | PTC - 2 |
| SG1 TN 1343 | M - 1343 | PTC - 2 |
| SG1 TN 1344 | M - 1344 | PTC - 3 |
| SG1 TN 1345 | M - 1345 | PTC - 3 |
| SG1 TN 1346 | M - 1346 | PTC - 3 |
| SG1 TN 1347 | M - 1347 | PTC - 3 |
| SG1 TN 1348 | M - 1348 | PTC - 3 |



## TECNO WELD THERMOWELD CADWELD

|             |            |         |
|-------------|------------|---------|
| SG1 TN 1349 | M - 1349   | PTC - 3 |
| SG1 TN 1350 | M - 1350   | PTC - 3 |
| SG1 TN 1351 | M - 1351   | PTC - 3 |
| SG1 TN 1352 | M - 1352   | PTD - 3 |
| SG1 TN 1353 | M - 1353   | PTD - 3 |
| SG1 TN 1354 | M - 1354   | PTC - 3 |
| SG1 TN 1355 | M - 1355   | PTC - 3 |
| SG1 TN 1356 | M - 1356   | PTC - 3 |
| SG1 TN 1357 | M - 1357   | PTC - 3 |
| SG1 TN 1358 | M - 1358   | PTC - 3 |
| SG1 TN 1359 | M - 1359   | PTC - 3 |
| SG1 TN 1360 | M - 1360   | PTC - 3 |
| SG1 TN 1371 | M - 1371   | PTD - 3 |
| SG1 TN 1373 | M - 1373   | PTD - 3 |
| SG1 TN 1374 | M - 1374   | PTC - 3 |
| SG1 TN 1375 | M - 1375   | PTC - 3 |
| SG1 TN 1376 | M - 1376   | PTC - 3 |
| SG1 TN 1377 | M - 1377   | PTC - 3 |
| SG1 TN 1378 | M - 1378   | PTC - 3 |
| SG1 TN 1379 | M - 1379   | PTC - 3 |
| SG1 TN 1380 | M - 1380   | PTC - 3 |
| SG1 TN 1381 | M - 1381   | PTC - 3 |
| SG1 TN 1382 | M - 1382   | PTD - 4 |
| SG1 TN 1383 | M - 1383   | PTD - 4 |
| SG1 TN 1385 | M - 1385   | PTD - 4 |
| SG1 TN 1386 | M - 1386   | PTD - 4 |
| SG1 TN 1387 | M - 1387   | PTD - 4 |
| SG1 TN 1388 | M - 1388   | PTC - 4 |
| SG1 TN 1389 | M - 1389   | PTC - 4 |
| SG1 TN 1390 | M - 1390   | PTD - 4 |
| SG1 TN 1391 | M - 1391   | PTD - 4 |
| SG1 TN 1392 | M - 1392   | PTD - 4 |
| SG1 TN 1393 | M - 1393   | PTD - 4 |
| SG1 TN 1395 | M - 1395   | PTD - 4 |
| SG1 TN 1396 | M - 1396   | PTD - 4 |
| SG1 TN 1397 | M - 1397   | PTD - 4 |
| SG1 TN 1398 | M - 1398   | PTC - 4 |
| SG1 TN 1399 | M - 1399   | PTC - 4 |
| SG1 TN 1400 | M - 1400   | PTC - 4 |
| SG1 TN 1581 | M - 1581-T | GYE - 1 |
| SG1 TN 1582 | M - 1582-T | GYE - 1 |
| SG1 TN 1583 | M - 1583-T | GYE - 1 |
| SG1 TN 1584 | M - 1584-T | GYE - 1 |
| SG1 TN 1585 | M - 1585-T | GYE - 1 |
| SG1 TN 1586 | M - 1586   | GYE - 1 |
| SG1 TN 1587 | M - 1587   | GYE - 1 |
| SG1 TN 1588 | M - 1588   | GYE - 1 |
| SG1 TN 1589 | M - 1589   | GYE - 1 |
| SG1 TN 1590 | M - 1590   | GYE - 1 |
| SG1 TN 1591 | M - 1591   | GYE - 1 |
| SG1 TN 1593 | M - 1593   | GYJ - 1 |
| SG1 TN 1594 | M - 1594   | GYE - 1 |
| SG1 TN 1595 | M - 1595   | GYE - 1 |
| SG1 TN 1596 | M - 1596   | GYE - 1 |



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#### TECNO WELD THERMOWELD CADWELD

|             |          |         |
|-------------|----------|---------|
| SG1 TN 1597 | M - 1597 | GYE - 1 |
| SG1 TN 1598 | M - 1598 | GYE - 1 |
| SG1 TN 1599 | M - 1599 | GYJ - 1 |
| SG1 TN 1601 | M - 1601 | GYJ - 1 |
| SG1 TN 1602 | M - 1602 | GYJ - 1 |
| SG1 TN 1603 | M - 1603 | GYE - 2 |
| SG1 TN 1604 | M - 1604 | GYE - 2 |
| SG1 TN 1605 | M - 1605 | GYE - 2 |
| SG1 TN 1606 | M - 1606 | GYE - 2 |
| SG1 TN 1607 | M - 1607 | GYE - 2 |
| SG1 TN 1608 | M - 1608 | GYJ - 2 |
| SG1 TN 1610 | M - 1610 | GYJ - 2 |
| SG1 TN 1611 | M - 1611 | GYJ - 2 |
| SG1 TN 1612 | M - 1612 | GYJ - 2 |
| SG1 TN 1635 | M - 1635 | VFC - 1 |
| SG1 TN 1636 | M - 1636 | VFC - 1 |
| SG1 TN 1637 | M - 1637 | VFC - 1 |
| SG1 TN 1638 | M - 1638 | VFC - 1 |
| SG1 TN 1639 | M - 1639 | VFC - 1 |
| SG1 TN 1640 | M - 1640 | VFC - 2 |
| SG1 TN 1641 | M - 1641 | VFC - 2 |
| SG1 TN 1642 | M - 1642 | VFC - 2 |
| SG1 TN 1643 | M - 1643 | VFC - 2 |
| SG1 TN 1644 | M - 1644 | VFR - 2 |
| SG1 TN 1645 | M - 1645 | VFR - 3 |
| SG1 TN 1646 | M - 1646 | VFF - 3 |
| SG1 TN 1647 | M - 1647 | VFD - 4 |
| SG1 TN 1648 | M - 1648 | VFF - 3 |
| SG1 TN 1651 | M - 1651 | LJC - E |
| SG1 TN 1652 | M - 1652 | LJC - E |
| SG1 TN 1653 | M - 1653 | LJC - E |
| SG1 TN 1654 | M - 1654 | LJC - E |
| SG1 TN 1655 | M - 1655 | LJC - E |
| SG1 TN 1656 | M - 1656 | LJC - E |
| SG1 TN 1657 | M - 1657 | LJC - E |
| SG1 TN 1659 | M - 1659 | LJC - E |
| SG1 TN 1660 | M - 1660 | LJC - G |
| SG1 TN 1661 | M - 1661 | LJC - G |
| SG1 TN 1662 | M - 1662 | LJC - G |
| SG1 TN 1663 | M - 1663 | LJC - G |
| SG1 TN 1664 | M - 1664 | LJC - G |
| SG1 TN 1665 | M - 1665 | LJC - G |
| SG1 TN 1666 | M - 1666 | LJC - G |
| SG1 TN 1668 | M - 1668 | LJC - G |
| SG1 TN 1669 | M - 1669 | LJC - G |



#### TECNO WELD THERMOWELD CADWELD

|             |            |         |
|-------------|------------|---------|
| SG1 TN 1670 | M - 1670   | LJD - G |
| SG1 TN 1671 | M - 1671   | LJC - J |
| SG1 TN 1672 | M - 1672   | LJC - J |
| SG1 TN 1673 | M - 1673   | LJC - J |
| SG1 TN 1674 | M - 1674   | LJC - J |
| SG1 TN 1675 | M - 1675   | LJC - J |
| SG1 TN 1676 | M - 1676   | LJC - J |
| SG1 TN 1677 | M - 1677   | LJC - J |
| SG1 TN 1679 | M - 1679   | LJD - J |
| SG1 TN 1680 | M - 1680   | LPD - J |
| SG1 TN 1681 | M - 1681   | LPD - J |
| SG1 TN 1682 | M - 1682   | LEC - 2 |
| SG1 TN 1683 | M - 1683   | LEC - 2 |
| SG1 TN 1684 | M - 1684   | LEC - 2 |
| SG1 TN 1685 | M - 1685   | LEC - 2 |
| SG1 TN 1686 | M - 1686   | LEC - 2 |
| SG1 TN 1687 | M - 1687   | LEC - 2 |
| SG1 TN 1688 | M - 1688   | LEC - 2 |
| SG1 TN 1689 | M - 1689   | LEC - 2 |
| SG1 TN 1690 | M - 1690   | LEC - 2 |
| SG1 TN 1691 | M - 1691   | LEC - 2 |
| SG1 TN 1692 | M - 1692   | LEC - 2 |
| SG1 TN 1693 | M - 1693   | LEC - 2 |
| SG1 TN 1694 | M - 1694   | LEC - 2 |
| SG1 TN 1695 | M - 1695   | LEC - 2 |
| SG1 TN 1696 | M - 1696   | LEC - 2 |
| SG1 TN 1697 | M - 1697   | LEC - 3 |
| SG1 TN 1698 | M - 1698   | LEC - 3 |
| SG1 TN 1699 | M - 1699   | LED - 3 |
| SG1 TN 1700 | M - 1700   | LEC - 3 |
| SG1 TN 1702 | M - 1702   | LEC - 3 |
| SG1 TN 1703 | M - 1703   | LED - 3 |
| SG1 TN 1707 | M - 1707   | LEC - 3 |
| SG1 TN 1708 | M - 1708   | LED - 3 |
| SG1 TN 1709 | M - 1709   | LED - 3 |
| SG1 TN 1710 | M - 1710   | LEC - 4 |
| SG1 TN 1711 | M - 1711   | LEC - 4 |
| SG1 TN 1712 | M - 1712   | LEC - 4 |
| SG1 TN 1713 | M - 1713   | LEC - 4 |
| SG1 TN 1714 | M - 1714   | LEC - 4 |
| SG1 TN 1715 | M - 1715   | LEC - 4 |
| SG1 TN 1716 | M - 1716   | LEC - 4 |
| SG1 TN 1717 | M - 1717   | LEC - 4 |
| SG1 TN 2154 | M - 2154-T | GYE - 1 |
| SG1 TN 2155 | M - 2155-T | GYE - 1 |

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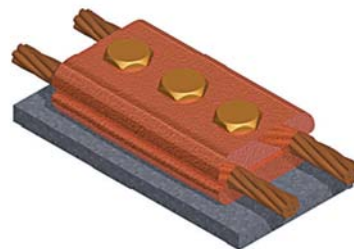
|               |              |         |
|---------------|--------------|---------|
| SG1 TN 2156   | M - 2156 - T | GYE - 1 |
| SG1 TN 2157   | M - 2157     | GYE - 1 |
| SG1 TN 2158   | M - 2158     | GYE - 1 |
| SG1 TN 2159   | M - 2159     | GYE - 1 |
| SG1 TN 2160   | M - 2160     | GYE - 1 |
| SG1 TN 2161   | M - 2161     | GYE - 1 |
| SG1 TN 2162   | M - 2162     | GYE - 1 |
| SG1 TN 2163   | M - 2163     | GYE - 2 |
| SG1 TN 2164   | M - 2164     | GYE - 2 |
| SG1 TN 2189   | M - 2189     | VBC - 2 |
| SG1 TN 2165   | M - 2165     | GYE - 2 |
| SG1 TN 2199   | M - 2199     | HAC - 2 |
| SG1 TN 2200   | M - 2200     | HAC - 2 |
| SG1 TN 2506   | M - 2506     | HAC - 3 |
| SG1 TN 2509   | M - 2509     | HAC - 3 |
| SG1 TN 2511   | M - 2511     | HAD - 4 |
| SG1 TN 2540   | M - 2540     | VBC - 2 |
| SG1 TN 2542   | M - 2542     | HAD - 4 |
| SG1 TN 2687   | M - 2687     | XBC - 1 |
| SG1 TN 2688   | M - 2688     | XBC - 1 |
| SG1 TN 2689   | M - 2689     | XBC - 1 |
| SG1 TN 2690   | M - 2690     | XBC - 1 |
| SG1 TN 2691   | M - 2691     | XBC - 1 |
| SG1 TN 2692   | M - 2692     | XBC - 1 |
| SG1 TN 2693   | M - 2693     | XBC - 1 |
| SG1 TN 2694   | M - 2694     | XBM - 2 |
| SG1 TN 2695   | M - 2695     | XBM - 2 |
| SG1 TN 2696   | M - 2696     | XBM - 2 |
| SG1 TN 2697   | M - 2697     | XBM - 2 |
| SG1 TN 2698   | M - 2698     | XBM - 2 |
| SG1 TN 2694F  | M - 2694F    | -       |
| SG1 TN 2698 F | M - 2698 F   | -       |
| SG1 TN 2699   | M - 2699     | XBM - 2 |
| SG1 TN 2700   | M - 2700     | XBM - 2 |
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| SG1 TN 2706   | M - 2706     | XBM - 2 |
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| SG1 TN 2711   | M - 2711     | XBM - 2 |
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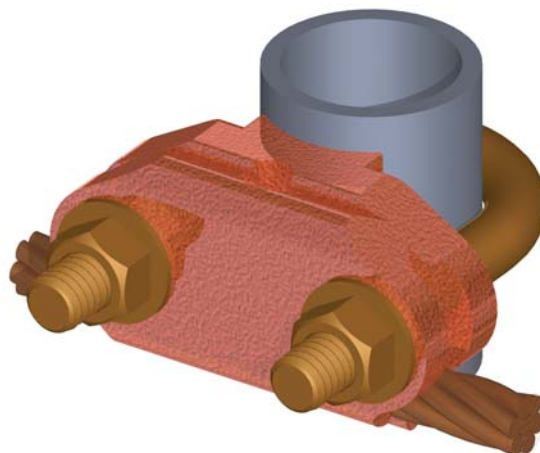
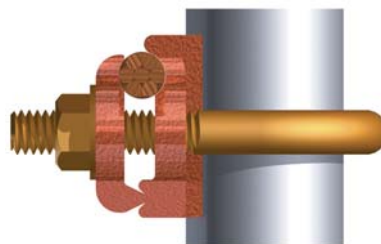
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| SG1 TN 2732 | M - 2732 | XBV - 3 |
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| SG1 TN 2735 | M - 2735 | XBM - 3 |
| SG1 TN 2736 | M - 2736 | XBM - 3 |
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| SG1 TN 2750 | M - 2750 | XVB - 3 |
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| SG1 TN 5021 | M - 5021 | TAC - 2 |
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| SG1 TN 5475 | M - 5475 | TAC - 2 |
| SG1 TN 5573 | M - 5573 | NDR - 1 |
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| SG1 TN 8379 | M - 8379 | HCC - 2 |
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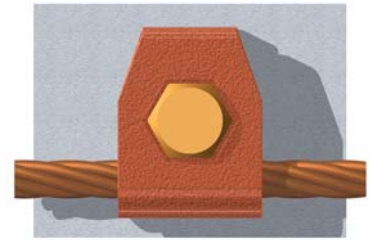
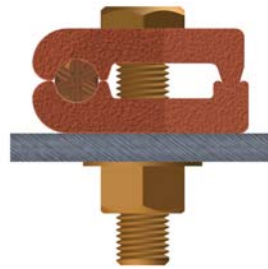
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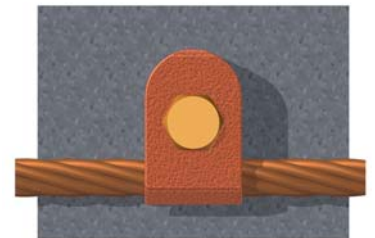
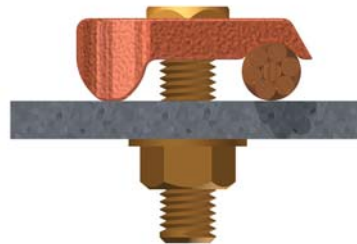
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| S G2 TGAR 194C | GAR194C |
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| S G2 TGAR 2129 | GAR2129 |
| S G2 TGAR 214C | GAR214C |
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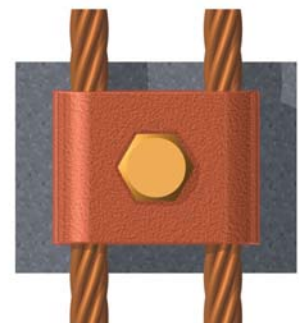
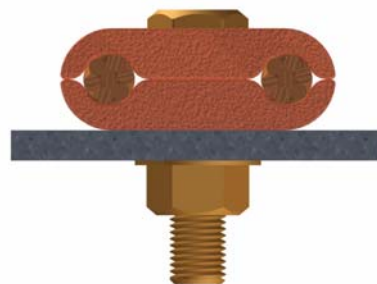
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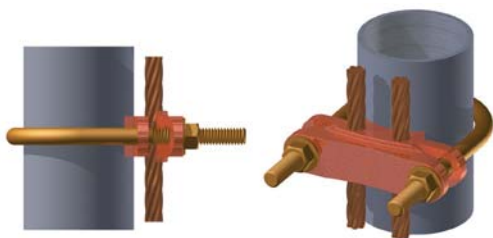


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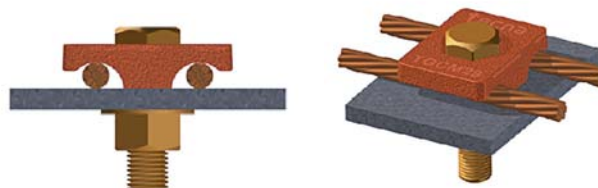


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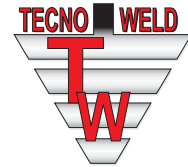
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| S G2 TGCM 4C4C | GCM4C4C |



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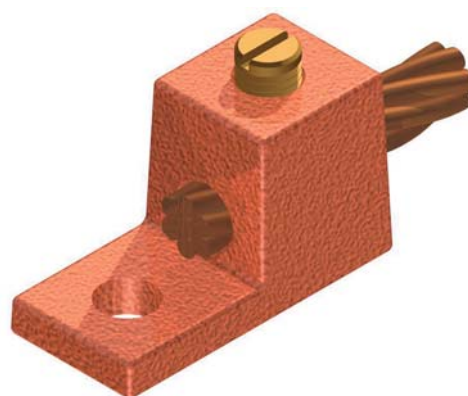
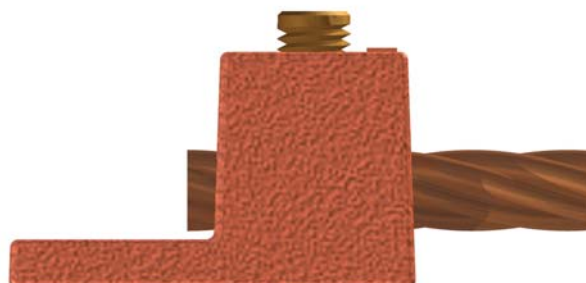
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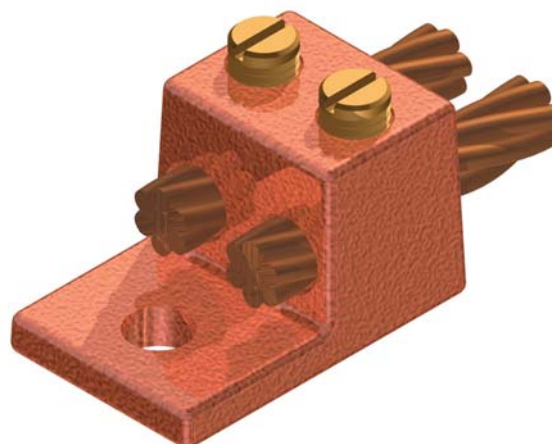
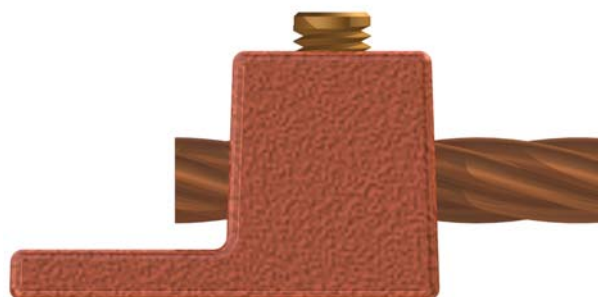
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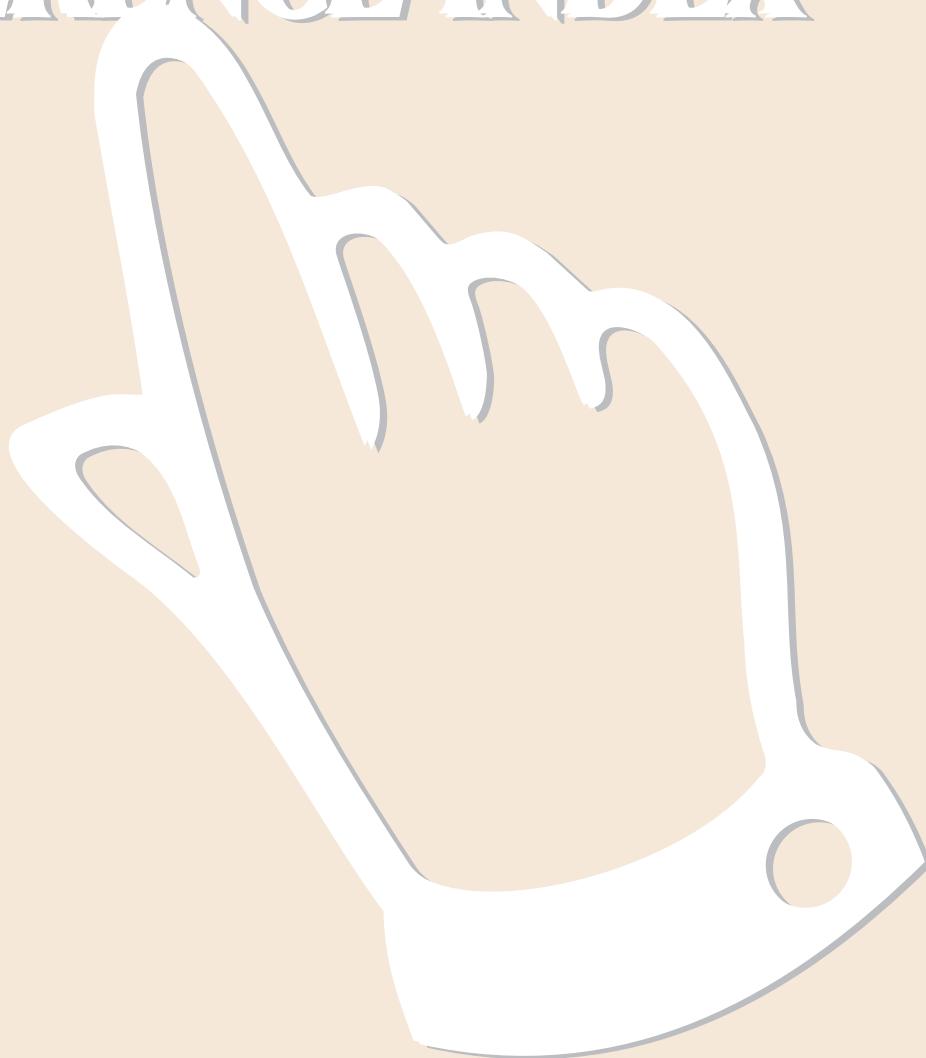
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| SG1TN1318              | 31 | SG1TN1390              | 32 | SG1TN1461              | 29 |
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| SG1TN1325              | 31 | SG1TN1398              | 32 | SG1TN1469              | 29 |
| SG1TN1326              | 31 | SG1TN1399              | 32 | SG1TN1470              | 29 |
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| SG1TN1329              | 31 | SG1TN1402              | 28 | SG1TN1473              | 29 |
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| SG1TN1344              | 31 | SG1TN1417              | 28 | SG1TN1490              | 29 |

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| SG1TN1493              | 28 | SG1TN1565              | 29 | SG1TN1640H             | 61 |
| SG1TN1494              | 28 | SG1TN1566              | 29 | SG1TN1640V             | 62 |
| SG1TN1495              | 28 | SG1TN1567              | 29 | SG1TN1641              | 55 |
| SG1TN1496              | 28 | SG1TN1568              | 29 | SG1TN1641H             | 61 |
| SG1TN1497              | 28 | SG1TN1569              | 29 | SG1TN1641V             | 62 |
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| SG1TN1509              | 28 | SG1TN1582              | 40 | SG1TN1645V             | 62 |
| SG1TN1510              | 28 | SG1TN1583              | 40 | SG1TN1646              | 55 |
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| SG1TN1512              | 28 | SG1TN1585              | 40 | SG1TN1646V             | 62 |
| SG1TN1513              | 28 | SG1TN1586              | 40 | SG1TN1648              | 55 |
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| SG1TN1517              | 28 | SG1TN1590              | 40 | SG1TN1649H             | 61 |
| SG1TN1518              | 28 | SG1TN1591              | 40 | SG1TN1649V             | 62 |
| SG1TN1519              | 28 | SG1TN1593              | 40 | SG1TN1650              | 55 |
| SG1TN1520              | 28 | SG1TN1594              | 40 | SG1TN1650H             | 61 |
| SG1TN1521              | 28 | SG1TN1595              | 40 | SG1TN1650V             | 62 |
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| SG1TN1523              | 28 | SG1TN1597              | 40 | SG1TN1652              | 49 |
| SG1TN1524              | 28 | SG1TN1598              | 40 | SG1TN1653              | 49 |
| SG1TN1525              | 28 | SG1TN1599              | 40 | SG1TN1654              | 49 |
| SG1TN1526              | 28 | SG1TN1601              | 40 | SG1TN1655              | 49 |
| SG1TN1527              | 28 | SG1TN1602              | 40 | SG1TN1656              | 49 |
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| SG1TN1529              | 28 | SG1TN1604              | 40 | SG1TN1659              | 49 |
| SG1TN1530              | 28 | SG1TN1605              | 40 | SG1TN1660              | 49 |
| SG1TN1531              | 28 | SG1TN1606              | 40 | SG1TN1661              | 49 |
| SG1TN1532              | 29 | SG1TN1607              | 40 | SG1TN1662              | 49 |
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| SG1TN1536              | 29 | SG1TN1612              | 40 | SG1TN1666              | 49 |
| SG1TN1537              | 29 | SG1TN1635              | 55 | SG1TN1668              | 49 |
| SG1TN1538              | 29 | SG1TN1635H             | 61 | SG1TN1669              | 49 |
| SG1TN1539              | 29 | SG1TN1635V             | 62 | SG1TN1670              | 49 |
| SG1TN1540              | 29 | SG1TN1636              | 55 | SG1TN1671              | 49 |
| SG1TN1551              | 29 | SG1TN1636H             | 61 | SG1TN1672              | 49 |
| SG1TN1553              | 29 | SG1TN1636V             | 62 | SG1TN1673              | 49 |
| SG1TN1554              | 29 | SG1TN1637              | 55 | SG1TN1674              | 49 |
| SG1TN1555              | 29 | SG1TN1637H             | 61 | SG1TN1675              | 49 |
| SG1TN1556              | 29 | SG1TN1637V             | 62 | SG1TN1676              | 49 |
| SG1TN1557              | 29 | SG1TN1638              | 55 | SG1TN1677              | 49 |
| SG1TN1558              | 29 | SG1TN1638H             | 61 | SG1TN1678              | 49 |
| SG1TN1559              | 29 | SG1TN1638V             | 62 | SG1TN1679              | 49 |
| SG1TN1560              | 29 | SG1TN1639              | 55 | SG1TN1680              | 49 |
| SG1TN1561              | 29 | SG1TN1639H             | 61 | SG1TN1681              | 49 |

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| SG1TN1685              | 50 | SG1TN2034              | 44 | SG1TN237               | 25 |
| SG1TN1686              | 50 | SG1TN204               | 24 | SG1TN238               | 25 |
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| SG1TN1689              | 50 | SG1TN2068              | 44 | SG1TN241               | 25 |
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| SG1TN1691              | 50 | SG1TN207               | 24 | SG1TN243               | 25 |
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| SG1TN1695              | 50 | SG1TN209               | 24 | SG1TN246               | 25 |
| SG1TN1696              | 50 | SG1TN210               | 24 | SG1TN247               | 25 |
| SG1TN1697              | 50 | SG1TN2105              | 44 | SG1TN248               | 25 |
| SG1TN1698              | 50 | SG1TN2106              | 44 | SG1TN249               | 25 |
| SG1TN1699              | 50 | SG1TN2107              | 44 | SG1TN250               | 25 |
| SG1TN1700              | 50 | SG1TN2108              | 44 | SG1TN2506              | 51 |
| SG1TN1701              | 50 | SG1TN2109              | 44 | SG1TN2506H             | 67 |
| SG1TN1702              | 50 | SG1TN211               | 24 | SG1TN2506P             | 68 |
| SG1TN1703              | 50 | SG1TN2110              | 44 | SG1TN2507              | 51 |
| SG1TN1707              | 50 | SG1TN213               | 24 | SG1TN2507H             | 67 |
| SG1TN1708              | 50 | SG1TN214               | 24 | SG1TN2507P             | 68 |
| SG1TN1709              | 50 | SG1TN215               | 24 | SG1TN2509              | 51 |
| SG1TN1710              | 50 | SG1TN2154              | 40 | SG1TN2509H             | 67 |
| SG1TN1711              | 50 | SG1TN2155              | 40 | SG1TN2509P             | 68 |
| SG1TN1712              | 50 | SG1TN2156              | 40 | SG1TN251               | 25 |
| SG1TN1713              | 50 | SG1TN2157              | 40 | SG1TN2510              | 42 |
| SG1TN1714              | 50 | SG1TN2158              | 40 | SG1TN2511              | 51 |
| SG1TN1715              | 50 | SG1TN2159              | 40 | SG1TN2511H             | 67 |
| SG1TN1716              | 50 | SG1TN2160              | 40 | SG1TN2511P             | 68 |
| SG1TN1717              | 50 | SG1TN2161              | 40 | SG1TN252               | 25 |
| SG1TN200               | 24 | SG1TN2162              | 40 | SG1TN2520H             | 72 |
| SG1TN2006              | 44 | SG1TN2163              | 40 | SG1TN2520V             | 71 |
| SG1TN2007              | 44 | SG1TN2164              | 40 | SG1TN253               | 25 |
| SG1TN2008              | 44 | SG1TN2165              | 40 | SG1TN254               | 25 |
| SG1TN2009              | 44 | SG1TN2177H             | 72 | SG1TN2542              | 51 |
| SG1TN201               | 24 | SG1TN2177V             | 71 | SG1TN2542H             | 67 |
| SG1TN2010              | 44 | SG1TN2199              | 51 | SG1TN2542P             | 68 |
| SG1TN2011              | 44 | SG1TN2199H             | 67 | SG1TN255               | 25 |
| SG1TN2012              | 44 | SG1TN2199P             | 68 | SG1TN2558              | 42 |
| SG1TN2013              | 44 | SG1TN2200              | 51 | SG1TN256               | 25 |
| SG1TN2014              | 44 | SG1TN2200H             | 67 | SG1TN2566              | 41 |
| SG1TN2015              | 44 | SG1TN2200P             | 68 | SG1TN2567HD            | 66 |
| SG1TN2016              | 44 | SG1TN221               | 25 | SG1TN2567HI            | 66 |
| SG1TN2017              | 44 | SG1TN222               | 25 | SG1TN2567VD            | 65 |
| SG1TN2018              | 44 | SG1TN223               | 25 | SG1TN2567VI            | 65 |
| SG1TN2019              | 44 | SG1TN2235              | 42 | SG1TN2568HD            | 66 |
| SG1TN202               | 24 | SG1TN224               | 25 | SG1TN2568HI            | 66 |
| SG1TN2020              | 44 | SG1TN225               | 25 | SG1TN2568VD            | 65 |
| SG1TN2021              | 44 | SG1TN226               | 25 | SG1TN2568VI            | 65 |
| SG1TN2024              | 44 | SG1TN227               | 25 | SG1TN2569HD            | 66 |
| SG1TN2025              | 44 | SG1TN228               | 25 | SG1TN2569HI            | 66 |
| SG1TN2026              | 44 | SG1TN229               | 25 | SG1TN2569VD            | 65 |
| SG1TN2027              | 44 | SG1TN230               | 25 | SG1TN2569VI            | 65 |
| SG1TN2028              | 44 | SG1TN231               | 25 | SG1TN257               | 25 |
| SG1TN2029              | 44 | SG1TN232               | 25 | SG1TN258               | 25 |
| SG1TN203               | 24 | SG1TN2320              | 42 | SG1TN259               | 25 |
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| SG1TN264               | 26 | SG1TN2733              | 34 | SG1TN4384              | 56 |
| SG1TN265               | 26 | SG1TN2734              | 34 | SG1TN439               | 35 |
| SG1TN266               | 26 | SG1TN2735              | 34 | SG1TN440               | 35 |
| SG1TN267               | 26 | SG1TN2736              | 34 | SG1TN441               | 35 |
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| SG1TN2687F             | 57 | SG1TN2750              | 34 | SG1TN444               | 35 |
| SG1TN2688              | 33 | SG1TN2751              | 34 | SG1TN445               | 35 |
| SG1TN2689              | 33 | SG1TN2752              | 34 | SG1TN446               | 35 |
| SG1TN2689F             | 57 | SG1TN2753              | 34 | SG1TN447               | 35 |
| SG1TN269               | 26 | SG1TN2754              | 34 | SG1TN448               | 35 |
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| SG1TN2691              | 33 | SG1TN2756              | 34 | SG1TN450               | 35 |
| SG1TN2691F             | 57 | SG1TN2757              | 34 | SG1TN451               | 35 |
| SG1TN2692              | 33 | SG1TN2761HD            | 66 | SG1TN452               | 35 |
| SG1TN2693              | 33 | SG1TN2761HI            | 66 | SG1TN453               | 35 |
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| SG1TN2694F             | 57 | SG1TN2761VI            | 65 | SG1TN455               | 35 |
| SG1TN2695              | 33 | SG1TN280               | 26 | SG1TN4559              | 56 |
| SG1TN2696              | 33 | SG1TN282               | 26 | SG1TN456               | 36 |
| SG1TN2697              | 33 | SG1TN283               | 26 | SG1TN457               | 36 |
| SG1TN2698              | 33 | SG1TN284               | 26 | SG1TN458               | 36 |
| SG1TN2698F             | 57 | SG1TN285               | 26 | SG1TN459               | 36 |
| SG1TN2699              | 33 | SG1TN286               | 26 | SG1TN460               | 36 |
| SG1TN270               | 26 | SG1TN287               | 26 | SG1TN461               | 36 |
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| SG1TN2702F             | 57 | SG1TN291               | 26 | SG1TN465               | 36 |
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| SG1TN2707F             | 57 | SG1TN298               | 26 | SG1TN471               | 36 |
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| SG1TN507               | 38 | SG1TN544               | 39 | SG1TN579               | 39 |
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| SG1TN510               | 38 | SG1TN547               | 39 | SG1TN5813              | 56 |
| SG1TN511               | 38 | SG1TN5475              | 25 | SG1TN5816H             | 72 |
| SG1TN513               | 38 | SG1TN548               | 39 | SG1TN5816V             | 71 |
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| SG1TN515               | 38 | SG1TN549               | 39 | SG1TN581V              | 46 |
| SG1TN516               | 38 | SG1TN550               | 39 | SG1TN5820              | 41 |
| SG1TN517               | 38 | SG1TN5502              | 73 | SG1TN5821              | 41 |
| SG1TN518               | 38 | SG1TN551               | 39 | SG1TN5822H             | 72 |
| SG1TN519               | 38 | SG1TN5513              | 41 | SG1TN5822V             | 71 |
| SG1TN520               | 38 | SG1TN5515              | 41 | SG1TN582H              | 46 |
| SG1TN521               | 38 | SG1TN5517              | 42 | SG1TN582V              | 46 |
| SG1TN523               | 38 | SG1TN552               | 39 | SG1TN5830              | 41 |
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| SG1TN5294              | 41 | SG1TN5561              | 41 | SG1TN5850              | 41 |
| SG1TN530               | 38 | SG1TN5562              | 56 | SG1TN5857              | 41 |
| SG1TN531               | 38 | SG1TN557               | 39 | SG1TN585H              | 59 |
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| SG1TN5330              | 42 | SG1TN5574              | 25 | SG1TN586               | 54 |
| SG1TN5331              | 52 | SG1TN558               | 39 | SG1TN586H              | 59 |
| SG1TN5331H             | 69 | SG1TN559               | 39 | SG1TN586V              | 60 |
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| SG1TN5333              | 42 | SG1TN5604              | 42 | SG1TN5877              | 41 |
| SG1TN5334              | 42 | SG1TN561               | 39 | SG1TN587H              | 59 |
| SG1TN5335              | 42 | SG1TN562               | 39 | SG1TN587V              | 60 |
| SG1TN5336              | 42 | SG1TN563               | 39 | SG1TN588               | 54 |
| SG1TN5337              | 42 | SG1TN564               | 39 | SG1TN588H              | 59 |
| SG1TN5338              | 42 | SG1TN5640              | 42 | SG1TN588V              | 60 |
| SG1TN534               | 38 | SG1TN566               | 39 | SG1TN589               | 54 |
| SG1TN5341              | 42 | SG1TN5667              | 42 | SG1TN589H              | 59 |
| SG1TN535               | 38 | SG1TN567               | 39 | SG1TN589V              | 60 |
| SG1TN5351              | 42 | SG1TN5677              | 42 | SG1TN590               | 54 |
| SG1TN5352              | 42 | SG1TN568               | 39 | SG1TN5904              | 41 |
| SG1TN5353              | 42 | SG1TN569               | 39 | SG1TN590H              | 59 |
| SG1TN5361              | 56 | SG1TN5698              | 41 | SG1TN590V              | 60 |
| SG1TN5362              | 56 | SG1TN5699              | 41 | SG1TN591               | 54 |
| SG1TN537               | 39 | SG1TN570               | 39 | SG1TN5910HD            | 66 |
| SG1TN538               | 39 | SG1TN5700              | 56 | SG1TN5910HI            | 66 |
| SG1TN5380              | 41 | SG1TN5702              | 42 | SG1TN5910VD            | 65 |
| SG1TN539               | 39 | SG1TN571               | 39 | SG1TN5910VI            | 65 |
| SG1TN5390              | 41 | SG1TN572               | 39 | SG1TN591H              | 59 |
| SG1TN5398              | 73 | SG1TN5722              | 41 | SG1TN591V              | 60 |
| SG1TN540               | 39 | SG1TN573               | 39 | SG1TN592               | 54 |
| SG1TN541               | 39 | SG1TN5732              | 41 | SG1TN592H              | 59 |
| SG1TN5416              | 41 | SG1TN5734              | 41 | SG1TN592V              | 60 |
| SG1TN5417              | 72 | SG1TN5738              | 41 | SG1TN593               | 54 |
| SG1TN5419HD            | 66 | SG1TN574               | 39 | SG1TN5935              | 41 |
| SG1TN5419HI            | 66 | SG1TN5746              | 41 | SG1TN593H              | 59 |

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| SG1TN594               | 54 | SG1TN625               | 52 | SG1TN8381              | 52 |
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| SG1TN594H              | 59 | SG1TN625H              | 69 | SG1TN8381P             | 70 |
| SG1TN594V              | 60 | SG1TN625P              | 70 | SG1TN8410              | 52 |
| SG1TN595               | 54 | SG1TN626               | 52 | SG1TN8410H             | 69 |
| SG1TN595H              | 59 | SG1TN626H              | 69 | SG1TN8410P             | 70 |
| SG1TN595V              | 60 | SG1TN626P              | 70 | SG1TN8413              | 52 |
| SG1TN596               | 54 | SG1TN6279H             | 72 | SG1TN8413H             | 69 |
| SG1TN5961              | 41 | SG1TN6279V             | 71 | SG1TN8413P             | 70 |
| SG1TN5963              | 41 | SG1TN628               | 51 | SG1TN8414              | 38 |
| SG1TN596H              | 59 | SG1TN628H              | 67 | SG1TN8415              | 38 |
| SG1TN596V              | 60 | SG1TN628P              | 68 | SG1TN8423              | 52 |
| SG1TN5972              | 41 | SG1TN629               | 51 | SG1TN8423H             | 69 |
| SG1TN598               | 54 | SG1TN629H              | 67 | SG1TN8423P             | 70 |
| SG1TN598H              | 59 | SG1TN629P              | 68 | SG1TN8428              | 42 |
| SG1TN598V              | 60 | SG1TN630               | 51 | SG1TN8441              | 39 |
| SG1TN599               | 54 | SG1TN630H              | 67 | SG1TN8442              | 39 |
| SG1TN5992              | 41 | SG1TN630P              | 68 | SG1TN8451              | 42 |
| SG1TN599H              | 59 | SG1TN631               | 51 | SG1TN8461              | 42 |
| SG1TN599V              | 60 | SG1TN631H              | 67 | SG1TN8697              | 43 |
| SG1TN600               | 54 | SG1TN631P              | 68 | SG1TN8726              | 42 |
| SG1TN6002              | 42 | SG1TN6384              | 73 | SG1TN8728              | 70 |
| SG1TN6003              | 41 | SG1TN6385              | 73 | SG1TN8802              | 42 |
| SG1TN600H              | 59 | SG1TN6386              | 73 | SG1TN8847              | 43 |
| SG1TN600V              | 60 | SG1TN6387              | 73 | SG1TN9242V             | 71 |
| SG1TN602               | 52 | SG1TN6389              | 73 | SG1TN9253HD            | 66 |
| SG1TN6025              | 41 | SG1TN6390              | 73 | SG1TN9253HI            | 66 |
| SG1TN602H              | 69 | SG1TN6391              | 73 | SG1TN9253VD            | 65 |
| SG1TN603               | 52 | SG1TN6392              | 73 | SG1TN9253VI            | 65 |
| SG1TN603H              | 69 | SG1TN6395              | 73 | SG1TN967               | 48 |
| SG1TN604               | 52 | SG1TN6519              | 43 | SG1TN969               | 48 |
| SG1TN6048              | 41 | SG1TN6766              | 42 | SG1TN971               | 48 |
| SG1TN604H              | 69 | SG1TN6921              | 70 | SG1TN973               | 48 |
| SG1TN605               | 52 | SG1TN6928              | 70 | SG1TN975               | 48 |
| SG1TN6051              | 42 | SG1TN6960              | 56 | SG1TN977               | 48 |
| SG1TN605H              | 69 | SG1TN7075              | 51 | SG1TN978               | 48 |
| SG1TN605P              | 70 | SG1TN7075H             | 67 | SG1TN979               | 48 |
| SG1TN6060HD            | 66 | SG1TN7075P             | 68 | SG1TN980               | 48 |
| SG1TN6060HI            | 66 | SG1TN7146              | 51 | SG1TN981               | 48 |
| SG1TN6060VD            | 65 | SG1TN7146H             | 67 | SG1TN982               | 48 |
| SG1TN6060VI            | 65 | SG1TN7146P             | 68 | SG1TN983               | 48 |
| SG1TN6061HD            | 66 | SG1TN7192              | 52 | SG1TN984               | 48 |
| SG1TN6061HI            | 66 | SG1TN7192H             | 69 | SG1TN985               | 48 |
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| SG1TN6061VI            | 65 | SG1TN7443              | 56 | SG1TN987               | 48 |
| SG1TN6067HD            | 66 | SG1TN8004              | 70 | SG1TN988               | 48 |
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| SG1TN6067VI            | 65 | SG1TN8095H             | 72 | SG1TN991               | 48 |
| SG1TN6072HD            | 66 | SG1TN8095V             | 71 | SG1TN992               | 48 |
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| SG1TN6072VD            | 65 | SG1TN8179              | 56 | SG1TN994               | 48 |
| SG1TN6072VI            | 65 | SG1TN8214              | 42 | SG1TN995               | 48 |
| SG1TN6114              | 51 | SG1TN8294              | 42 | SG1TN996               | 48 |
| SG1TN6114H             | 67 | SG1TN8359HD            | 66 | SG1TNFF25C             | 57 |
| SG1TN6114P             | 68 | SG1TN8359HI            | 66 | SG1TNFF25L             | 57 |
| SG1TN6165              | 41 | SG1TN8359VD            | 65 | SG1TNFF25T             | 57 |
| SG1TN6195H             | 72 | SG1TN8359VI            | 65 | SG1TNFF25X             | 57 |
| SG1TN6195V             | 71 | SG1TN8379              | 52 | SG2TGAR1426            | 81 |

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| SG2TGAR1429            | 81 | SG2TGCM3434            | 76 |
| SG2TGAR1434            | 81 | SG2TGCM4C26            | 76 |
| SG2TGAR144C            | 81 | SG2TGCM4C29            | 76 |
| SG2TGAR1526            | 81 | SG2TGCM4C34            | 76 |
| SG2TGAR1529            | 81 | SG2TGCM4C4C            | 76 |
| SG2TGAR1534            | 81 | SG2TGD1426             | 82 |
| SG2TGAR154C            | 81 | SG2TGD1429             | 82 |
| SG2TGAR1626            | 81 | SG2TGD1434             | 82 |
| SG2TGAR1629            | 81 | SG2TGD144C             | 82 |
| SG2TGAR1634            | 81 | SG2TGD1526             | 82 |
| SG2TGAR164C            | 81 | SG2TGD1529             | 82 |
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| SG2TGAR1926            | 81 | SG2TGD1729             | 82 |
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| SG2TGAR2129            | 81 | SG2TGD1934             | 82 |
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| SG2TGB34               | 75 | SG2TGD6426             | 82 |
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| SG2TGE4C264C           | 78 | SG2TGP644C             | 83 |
| SG2TGE4C2926           | 78 | SG2TK2C17              | 79 |
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| SG2TGP1426             | 83 | SG2TKC28               | 79 |
| SG2TGP1429             | 83 | SG2TKC31               | 79 |
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| SG2TGP1726             | 83 | SG6001                 | 21 |
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| SG2TGP174C             | 83 | SG6004                 | 21 |
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| SG2TGP1934             | 83 |                        |    |
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