



TOTAL PROTECTION IN
EVERY CONNECTION



www.speedwellindia.com




SP^{EE}EdWELL[®]
COMMITTED TO EXCELLENCE

— Since 1982 —



CASTING
GROUNDING



FORGING
LIGHTNING



EXTRUSION
ELECTRICAL



MACHINING
TRANSMISSION





About us

Since 1982, Speedwell Industries and now known as Speedwell Technologies Pvt. Ltd., has earned the reputation as a Manufacturer of quality electrical components of Bronze, Copper, Brass, Stainless Steel and Aluminum especially for Grounding, Lightning Protection and Power Distribution system.

Our three production plants produce over 1200 product variants, ranging in various sizes of components that weigh few grams to a single casting weighing over 10 kilograms. We are able to produce world's best non-ferrous casting components with prompt verification of new design and repeated product performance.

Our multi-specialty, state of art manufacturing facilities allows our patrons to continuously introduce the best quality products worldwide through the network of manufacturers, representative organization and distributors. Speedwell basically provides its services to the Industries, Contractors, Utility sector and OEMs.

Speedwell has continued to expand its product range, Technology, know how, expertise and its presence by innovation, dedication and not least by word of experience - now it is well known as a consistent manufacturer of Quality Products from India.

System Certificates:

ISO 9001 : 2008
ISO 14001: 2004
OHSAS 18001: 2007

Product Certificates / Compliance:

UL/CSA
IEEE
BS/EN

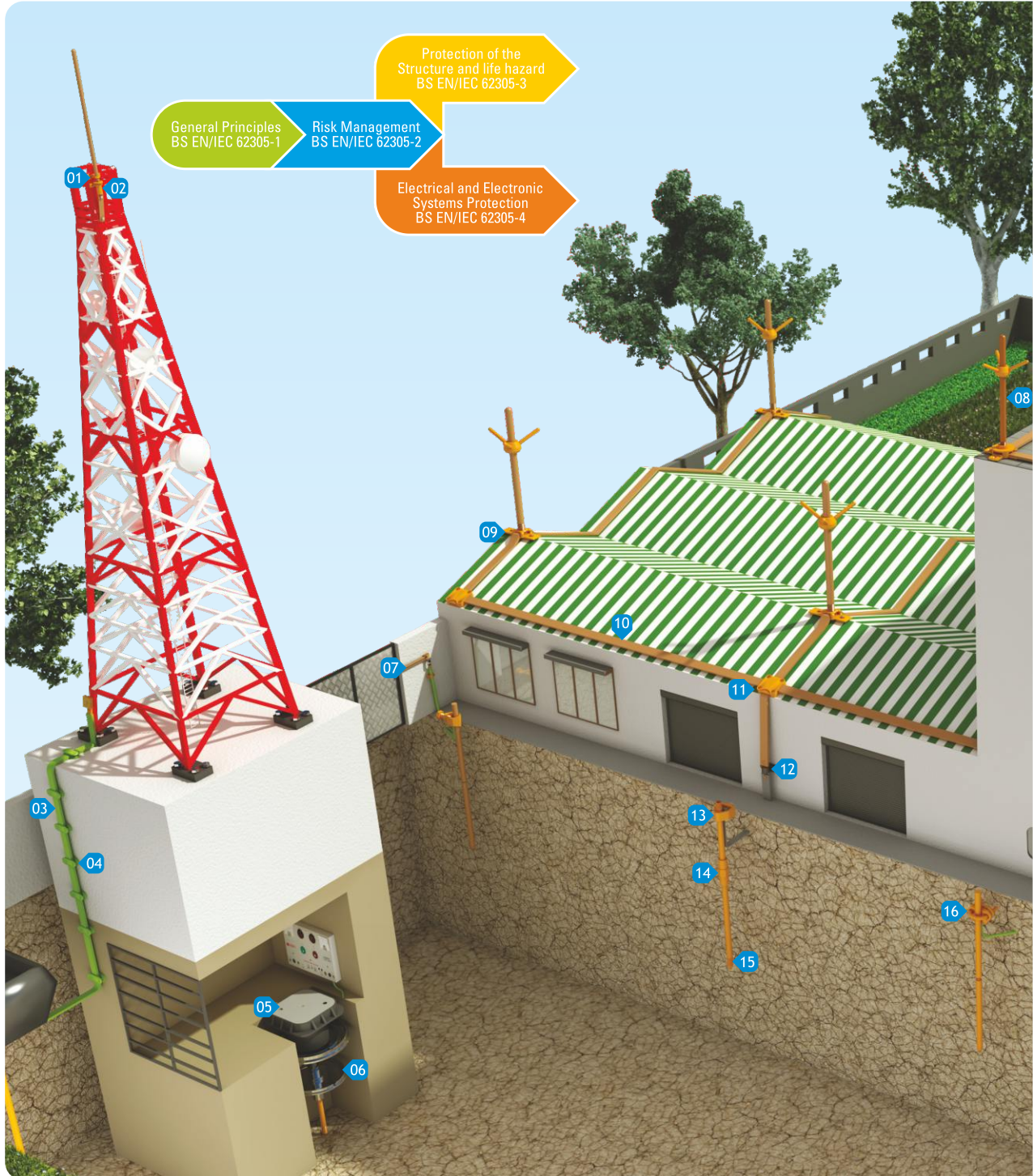
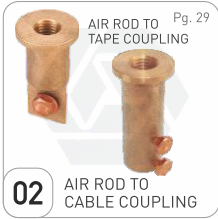
BENEFITS OF CHOOSING SPEEDWELL:

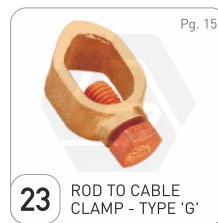
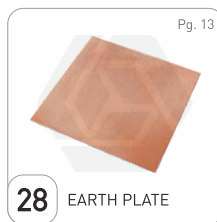
The benefits of coming to speedwell for earthing, lightning protection system are:

- ▶ With our manufacturing experiences of many decades we are able to utilise our knowledge of the products available to design, produce and even upgrade and invent new designs and components in the state of the art facilities
- ▶ We are the only in the Asian subcontinent who can manufacture the complete range of earthing, lightning and electrical products
- ▶ Our expert team suggests an optimum system requirement - one that doesn't use excess materiel than necessary, resulting in saving your money
- ▶ We provide designed components that comply with all relevant national and international standards
- ▶ We are specialised in this field

PRODUCTS :

- Grounding System
- Lightning Protection System
- Cable Conductors and Fixtures
- Cable Glands and Accessories
- Copper, Aluminum and Bi-metallic cable Lugs and Connectors
- Overhead transmission line hardware and fittings
- Distribution and Panel Board Accessories
- Cable Clamping and Identification System







TOTAL LIGHTNING SOLUTION TO BS : 6651

Material specifications:

This section of BS 6651 is very important to everyone wishing to design and install a reliable lightning protection and we being the manufacturer of premium quality components for lightning protection we strictly adhere to all the aspects of this standard.

The correct choice of materials and installation method adopted should ensure a satisfactory life span of at least 30 years. To ensure an effective system and a satisfactory long term performance all the fittings need to be mechanically robust and provide good corrosion resistance qualities in widely different environment.

In addition, the system should provide a low electrical path to earth and have the ability to carry high currents repeatedly over the life time of the installation. It must be remembered that the integrity of a complete system can be jeopardised by even one faulty or inadequate component.

Therefore, we at Speedwell believe in...

TOTAL PROTECTION IN EVERY CONNEXION

Earthing plays a vital role in all electrical systems.

The main reasons for earthing are:

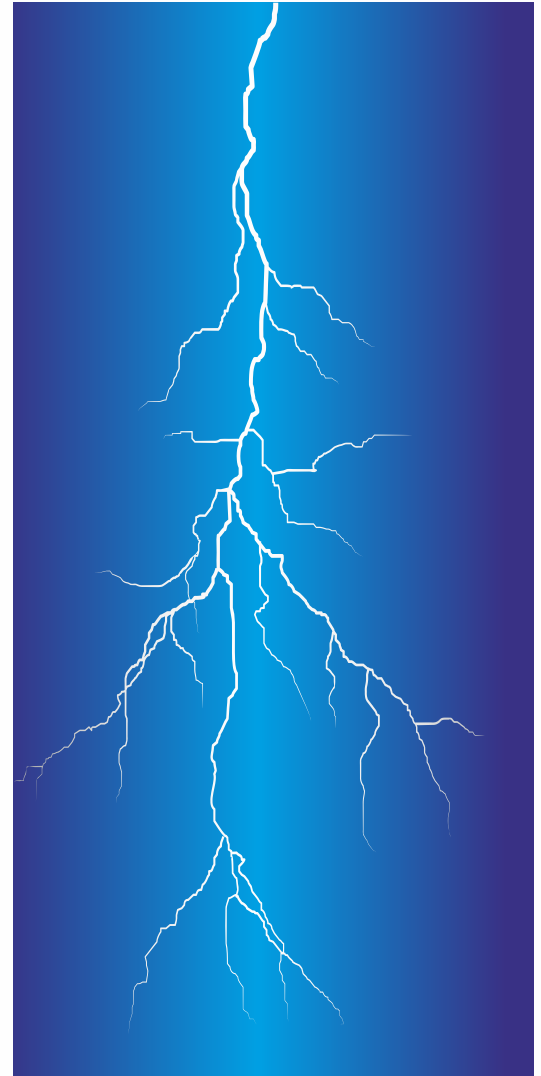
- ✓ To protect people and livestock
- ✓ To protect equipment
- ✓ To permit the equipment to function correctly
- ✓ To ensure the reliability of electrical services

Characteristics of a good grounding system

- ✓ Good electrical conductivity
- ✓ Conductors capable of withstanding high fault currents
- ✓ Long life - a least 30 years
- ✓ Low ground resistance and impedance
- ✓ Equipotential bonding
- ✓ Good corrosion resistance
- ✓ Electrically and mechanically robust and reliable

The Speedwell lightning protection system comprise of these principal components:

- ✓ Air terminal network
- ✓ Down conductors
- ✓ Earth termination network (Grounding)
- ✓ Bonding (to prevent side flashing)



QUALITY APPROVAL CERTIFICATES



C

US



ISO 9001



ISO 14001



OHSAS 18001



NABL



Quality

Speedwell is a Quality conscious company Always striving for total quality compliance from raw material to finished product and from shipment to after sales service. We are totally committed to International Quality Standards...

Benefits of choosing Speedwell:

The benefits of coming to speedwell for earthing, lightning protection system are:

- ▶ With our manufacturing experiences of many decades we are able to utilise our knowledge of the products available to design, produce and even upgrade and invent new designs and components in the state of the art facilities
- ▶ We are the only in the Asian subcontinent who can manufacture the complete range of earthing, lightning and electrical products
- ▶ Our expert team suggests an optimum system requirement - one that doesn't use excess material than necessary, resulting in saving your money
- ▶ We provide designed components that comply with all relevant national and international standards
- ▶ We are specialised in this field

Commitment to quality:





EARTHING

In electrical engineering, the term ground or earth has several meanings depending on the specific application areas. Ground is the reference point in an electrical circuit from which other voltages are measured, a common return path for electrical current (earth return or ground return), or a direct physical connection to the Earth.

SPEEDWELL offers a range of high quality, cost effective earth rods to suit different climatic & soil conditions.

COPPER BONDED EARTH ROD/GROUND ROD - 254 Micron

Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper, these earth rods conform to BS 4360 grade 43A. Each rod is treated with Benzol triazole derivatives to prevent oxidation of copper bonding. The threads are formed by roll threading process which ensure strength and maintain the molecularly bonded copper along the full length of the threads. The rods can be deep driven manually or by using power hammer.



UNTHREADED

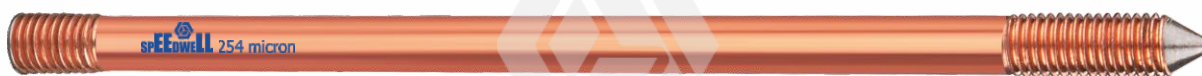
| Rod Dia mm | Length mm | Cat. # |
|------------|-----------|------------|
| 12.7 | 1200 | CBUR1412S |
| 12.7 | 1500 | CBUR1415S |
| 12.7 | 1800 | CBUR1418S |
| 12.7 | 2400 | CBUR1424S* |
| 12.7 | 3000 | CBUR1430S* |
| 14.2 | 1200 | CBUR1612S |
| 14.2 | 1500 | CBUR1615S |
| 14.2 | 1800 | CBUR1618S |
| 14.2 | 2400 | CBUR1624S* |
| 14.2 | 3000 | CBUR1630S* |
| 17.2 | 1200 | CBUR2012S |
| 17.2 | 1500 | CBUR2015S |
| 17.2 | 1800 | CBUR2018S |
| 17.2 | 2400 | CBUR2024S* |
| 17.2 | 3000 | CBUR2030S* |
| 23.0 | 2400 | CBUR2524S* |
| 23.0 | 3000 | CBUR2530S* |

*UL Listed

THREADED

| Rod Dia mm | Length mm | Thread Dia | Cat. # |
|------------|-----------|------------|------------|
| 12.7 | 1200 | 9/16" | CBTR1412S |
| 12.7 | 1500 | 9/16" | CBTR1415S |
| 12.7 | 1800 | 9/16" | CBTR1418S |
| 12.7 | 2400 | 9/16" | CBTR1424S* |
| 12.7 | 3000 | 9/16" | CBTR1430S* |
| 14.2 | 1200 | 5/8" | CBTR1612S |
| 14.2 | 1500 | 5/8" | CBTR1615S |
| 14.2 | 1800 | 5/8" | CBTR1618S |
| 14.2 | 2400 | 5/8" | CBTR1624S* |
| 14.2 | 3000 | 5/8" | CBTR1630S* |
| 17.2 | 1200 | 3/4" | CBTR2012S |
| 17.2 | 1500 | 3/4" | CBTR2015S |
| 17.2 | 1800 | 3/4" | CBTR2018S |
| 17.2 | 2400 | 3/4" | CBTR2024S* |
| 17.2 | 3000 | 3/4" | CBTR2030S* |
| 23.0 | 2400 | 1" | CBTR2524S* |
| 23.0 | 3000 | 1" | CBTR2530S* |

*UL Listed



To ensure a high performance of the rod, we have developed system of quality control ISO 9001:2000. This system covers the whole constructional cycle, from steel purchase to the end of production process, so as to reach conformity of ready rod parameters with its specification. among others, this system provides tests of the following basic parameters of our earth rod.



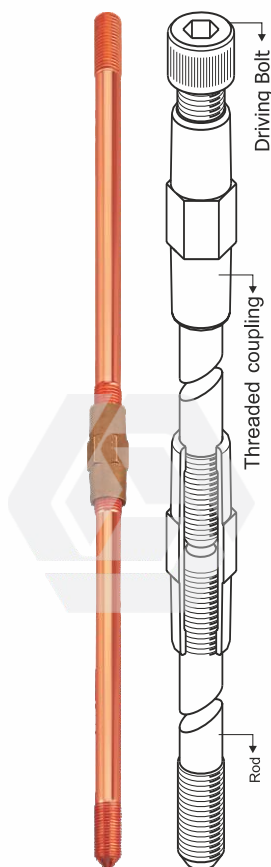
Copper thickness: measured by an electronic thickness gauge at the points and with frequency specified in the instruction, which guarantees minimal thickness (0.254 mm). This thickness enables to perform the thread after copper bonding, so as the bottom of the thread is covered with copper.



Adherence of coating: is tested in order to check whether the coating hasn't a tendency to separation when the rod is driven into the ground. It is tested as follows. Pointed rod is being shoved between the vice jaws. Distance between jaws equals the rod diameter decreased by 1.2 mm. When the rod has been shoved, the vice jaws tear off the coating at points where they contact the rod, while the rest of its surface should not exfoliate. Such an adherence enables performing of thread with rolling technique, after copper bonding.



Plasticity of coating: is tested by bending the rod at 180 degrees. Lack of cracks and exfoliation goes to show high quality of our product. Frequency of these tests is specified by procedures of the quality control system.



COPPER BONDED EARTH ROD


Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper, these earth rods conform to BS 4360 grade 43A. Each rod is treated with Benzol triazole derivatives to prevent oxidation of copper bonding. The threads are formed by roll threading process which ensure strength and maintain the molecularly bonded copper along the full length of the threads. The rods can be deep driven manually or by using power hammer.

| Rod Dia mm | Length mm | Thread Dia | Cat. # |
|------------|-----------|------------|-----------|
| 12.7 | 1200 | 9/16" | CBER1412S |
| 12.7 | 1500 | 9/16" | CBER1415S |
| 12.7 | 1800 | 9/16" | CBER1418S |
| 12.7 | 2400 | 9/16" | CBER1424S |
| 14.2 | 1200 | 5/8" | CBER1612S |
| 14.2 | 1500 | 5/8" | CBER1615S |
| 14.2 | 1800 | 5/8" | CBER1618S |
| 14.2 | 2400 | 5/8" | CBER1624S |
| 14.2 | 3000 | 5/8" | CBER1630S |
| 17.2 | 1200 | 3/4" | CBER2012S |
| 17.2 | 1500 | 3/4" | CBER2015S |
| 17.2 | 1800 | 3/4" | CBER2018S |
| 17.2 | 2400 | 3/4" | CBER2024S |
| 17.2 | 3000 | 3/4" | CBER2030S |



COUPLER HEAVY DUTY

These couplers are made of high grade material for higher strength with counted bore for protecting the rod threads from damage. Separate coupling available for unthreaded rods.

 Silicon Bronze, Phosphorous Bronze

FOR THREADED ROD

| Thread Dia | Length mm | Cat. # R | Cat. # H |
|------------|-----------|----------|----------|
| 9/16" | 70 | CR14S | CH14S |
| 5/8" | 70 | CR16S | CH16S |
| 3/4" | 80 | CR20S | CH20S |

COMPRESSION COUPLER FOR UNTHREADED RODS

| Rod Dia | Cat. # |
|---------|---------|
| 12.7 | CU127S* |
| 14.2 | CU142S* |
| 17.2 | CU172S* |

*UL Listed

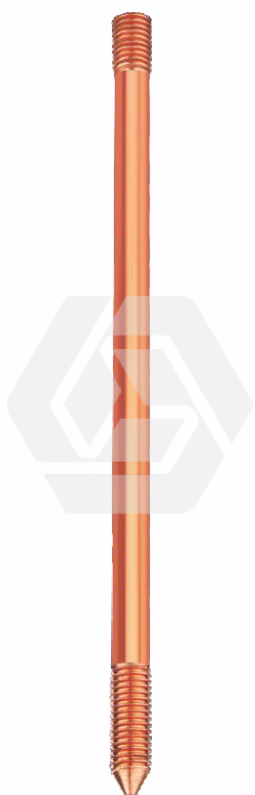


DRIVING STUD

Suitable for both manual and power hammering. Can be Re-usable for many times.

| Thread Dia | Cat. # |
|------------|--------|
| 9/16" | DS14S |
| 5/8" | DS16S |
| 3/4" | DS20S |

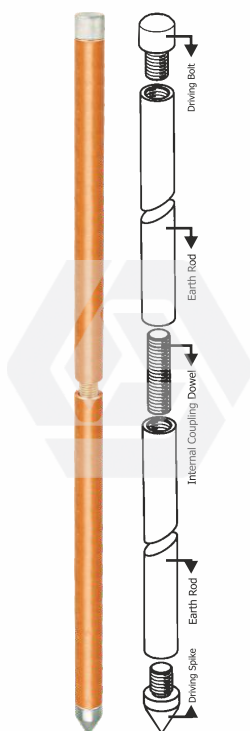
 High Tensile Forged Steel



SOLID COPPER EARTH ROD (Externally threaded)

SPEEDWELL offers pure copper earth rods for use where extreme soil condition such as high salt or moisture content demands high corrosion resistance and exceptionally long life of rods. SPEEDWELL Solid Copper Earth Rods are made from high conductivity hard drawn copper to BS2874 C101. Threads are formed by roll threading process to ensure extra strength and avoid the risk of chipping while driving the rods in the ground.

| Rod Dia mm | Length mm | Thread Dia | Cat. # |
|------------|-----------|------------|------------|
| 14.2 | 1200 | 5/8" | SCERE1612S |
| 17.2 | 1200 | 3/4" | SCERE2012S |



SOLID COPPER EARTH ROD (Internally threaded)

SPEEDWELL offers pure copper earth rods for use where extreme soil condition such as high salt or moisture content demands high corrosion resistance and exceptionally long life of rods. SPEEDWELL Solid Copper Earth Rods are made from high conductivity hard drawn copper to BS2874 C101.

| Rod Dia mm | Length mm | Thread Dia | Cat. # | Rod Dia mm | Length mm | Thread Dia | Cat. # |
|------------|-----------|------------|------------|------------|-----------|------------|------------|
| 12.7 | 1200 | M8 | SCER1212S | 16 | 1200 | M10 | SCER1612S |
| 12.7 | 1500 | M8 | SCER1215S | 16 | 1500 | M10 | SCER1615S |
| 12.7 | 1800 | M8 | SCER1218S | 16 | 1800 | M10 | SCER1618S |
| 12.7 | 2400 | M8 | SCER1224S* | 16 | 2400 | M10 | SCER1624S* |
| 12.7 | 3000 | M8 | SCER1230S* | 16 | 3000 | M10 | SCER1630S* |
| 14 | 1200 | M10 | SCER1412S | 19 | 1200 | M10 | SCER1912S |
| 14 | 1500 | M10 | SCER1415S | 19 | 1500 | M10 | SCER1915S |
| 14 | 1800 | M10 | SCER1418S | 19 | 1800 | M10 | SCER1918S |
| 14 | 2400 | M10 | SCER1424S* | 19 | 2400 | M10 | SCER1924S* |
| 14 | 3000 | M10 | SCER1430S* | 19 | 3000 | M10 | SCER1930S* |
| 15 | 1200 | M10 | SCER1512S | 20 | 1200 | M10 | SCER2012S |
| 15 | 1500 | M10 | SCER1515S | 20 | 1500 | M10 | SCER2015S |
| 15 | 1800 | M10 | SCER1518S | 20 | 1800 | M10 | SCER2018S |
| 15 | 2400 | M10 | SCER1524S* | 20 | 2400 | M10 | SCER2024S* |
| 15 | 3000 | M10 | SCER1530S* | 20 | 3000 | M10 | SCER2030S* |

*UL Listed

*UL Listed

STAINLESS STEEL EARTH ROD

Stainless Steel Earth Rods are used where galvanic corrosion is likely to affect earth rods due to dissimilar metals buried in close proximity as copper earth rods are more vulnerable to galvanic corrosion. Stainless Steel rods are more anodic than copper and are more effective against corrosion problem. These rods are manufactured from austenitic stainless steel to BS 970, GRADE 304 / 316 S12.

UNTHREADED

| Rod Dia mm | Length mm | Cat. # |
|------------|-----------|------------|
| 12.7 | 2400 | SSPR1424S* |
| 12.7 | 3000 | SSPR1430S* |
| 14.2 | 2400 | SSPR1624S* |
| 14.2 | 3000 | SSPR1630S* |
| 17.2 | 2400 | SSPR2024S* |
| 17.2 | 3000 | SSPR2030S* |

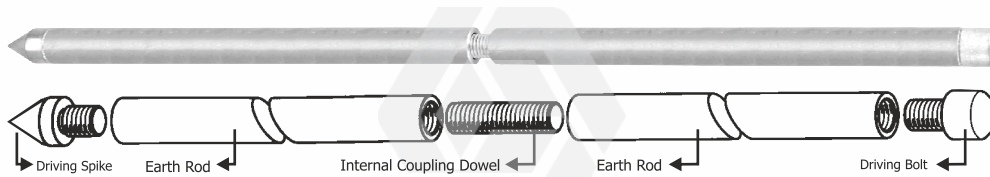
*UL Listed (SS 304)

THREADED

| Rod Dia mm | Length mm | Thread Dia | Cat. # |
|------------|-----------|------------|------------|
| 12.7 | 2400 | 9/16" | SSTR1424S* |
| 12.7 | 3000 | 9/16" | SSTR1430S* |
| 14.2 | 2400 | 5/8" | SSTR1624S* |
| 14.2 | 3000 | 5/8" | SSTR1630S* |
| 17.2 | 2400 | 3/4" | SSTR2024S* |
| 17.2 | 3000 | 3/4" | SSTR2030S* |

INTERNALLY THREADED

| Rod Dia mm | Length mm | Thread Dia | Cat. # |
|------------|-----------|------------|------------|
| 15 | 1200 | M10 | SSITR1512S |
| 15 | 3000 | M10 | SSITR1530S |
| 16 | 1200 | M10 | SSITR1612S |
| 16 | 3000 | M10 | SSITR1630S |
| 20 | 1200 | M10 | SSITR2012S |
| 20 | 3000 | M10 | SSITR2030S |



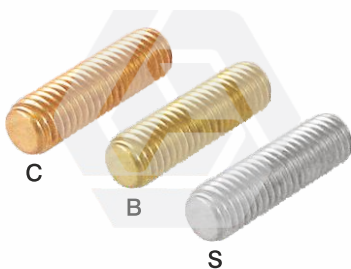
DRIVING HEAD

Suitable for both manual and power hammering. Can be Re-usable for many times.

| Thread Dia | OD mm | Cat. # |
|------------|-------|--------|
| M8 | 13 | DH13S |
| M10 | 15 | DH15S |
| M10 | 20 | DH20S |



Galvanised Mild Steel, Stainless Steel



INTERNAL COUPLING DOWEL

Speedwell internal coupling dowel is used to join the solid copper or stainless steel rods.

| Thread Dia | Cat. # B | Cat. # C | Cat. # S |
|------------|----------|----------|----------|
| M8 | ICDB8S | ICDC8S | ICDS8S |
| M10 | ICDB10S | ICDC10S | ICDS10S |



B - Brass
C - Copper
S - Stainless Steel



DRIVING SPIKE

These Spike enables the rod to be driven easily and stops the copper rod becoming damaged. Spikes also can be used many times.



Galvanised Mild Steel, Stainless Steel

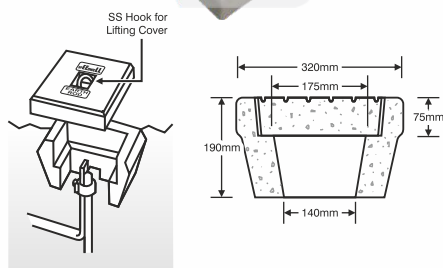
| Thread Dia | OD mm | Cat. # External | Thread Dia | OD mm | Cat. # Internal |
|------------|-------|-----------------|------------|-------|-----------------|
| M8 | 13 | DSE13S | 5/8" | 20 | DSI58S |
| M10 | 15 | DSE15S | 3/4" | 25 | DSI34S |
| M10 | 20 | DSE20S | | | |



CONCRETE INSPECTION PIT

The Speedwell Concrete Inspection Pit is load rated to 5,000 kgs. and is suitable for most types of earthing and lightning protection installations.

The Pit can have an earth bar fitted diagonally across in slots provided for multiple connections.



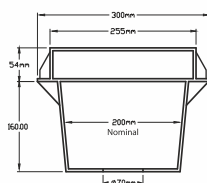
| Description | Size | Wt. | Cat. # |
|-------------------------|---------------|--------|----------|
| Concrete Inspection Pit | 320x320x190mm | 32 kg. | CIP3030S |



EARTH HOUSING - HEAVY DUTY

Speedwell earth housing is load rated up to 5000kg the pit is designed, shaped and sized to fit easily in to brick paved walk ways, the lip of pit makes a flush fit with standard sized bricks making the pit blend in with no requirement for a cement surround to the lid.

The Pit can have an earth bar fitted diagonally across in slots provided for multiple connections.



Polypropylene

| Description | Wt. | Cat. # |
|---------------|-------|---------|
| Earth Housing | 2 kg. | EH3030S |



EARTH BARS

Earth Bars are used for fitting into slots provided in the earth pit where multiple connections are required to the earth rod.

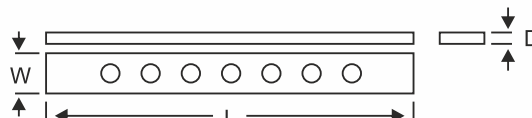
Hard Drawn Copper BS 2874 C101/C103

FOR INSPECTION PIT

| Holes | L mm | W mm | D mm | Cat. # |
|-------|------|------|------|---------|
| 5 | 300 | 30 | 6 | EBIP5S |
| 7 | 300 | 30 | 6 | EBIP7S |
| 12 | 300 | 30 | 6 | EBIP12S |

FOR EARTH HOUSING

| Holes | L mm | W mm | D mm | Cat. # |
|-------|------|------|------|---------|
| 5 | 285 | 25 | 6 | EBEH5S |
| 7 | 285 | 25 | 6 | EBEH7S |
| 12 | 285 | 25 | 6 | EBEH12S |





EARTH ROD SEALS

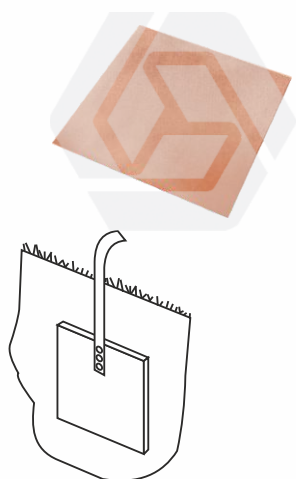
SPEEDWELL Earth Rod Seal is fitted when the earth rod connection is below the water level and where there is a possibility of water entering the inspection pit from the ground such as in a basement.

Double Flange Earth Rod Seals are used for deep concrete slab-layers application

This seal is used in conjunction with Speedwell earth housing heavy duty.


 Plastic

| Description | Earth Rod Type | Cat. # Single Flange | Cat. # Double Flange |
|-----------------|----------------|----------------------|----------------------|
| Earth Rod Seals | 15mm Ø | ERS151S | ERS152S |
| Earth Rod Seals | 16mm Ø | ERS161S | ERS162S |
| Earth Rod Seals | 20mm Ø | ERS201S | ERS202S |
| Earth Rod Seals | 5/8" UNC | ERS581S | ERS582S |
| Earth Rod Seals | 3/4" UNC | ERS341S | ERS342S |



EARTH PLATE

Earth Plates are used where earth rods are unsuitable. SPEEDWELL Earth Plates provide long lasting alternative against earth rods.

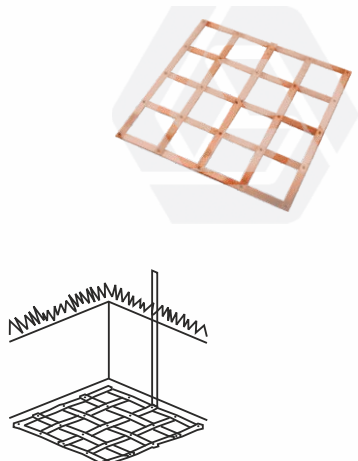
 Copper BS 2874-C101/C103 and Copper Bonded on MS Plate

SOLID COPPER EARTH PLATES

| Plate Size mm | Cat. # |
|---------------|-----------|
| 500x500x1.5 | SCEP515S |
| 500x500x3 | SCEP503S |
| 600x600x1.5 | SCEP615S |
| 600x600x3 | SCEP603S |
| 900x900x1.5 | SCEP915S |
| 900x900x3 | SCEP903S |
| 1000x1000x1.5 | SCEP1015S |
| 1000x1000x3 | SCEP1003S |

COPPER BONDED EARTH PLATES

| Plate Size mm | Cat. # |
|---------------|-----------|
| 500x500x1.5 | CBEP515S |
| 500x500x3 | CBEP503S |
| 600x600x1.5 | CBEP615S |
| 600x600x3 | CBEP603S |
| 900x900x1.5 | CBEP915S |
| 900x900x3 | CBEP903S |
| 1000x1000x1.5 | CBEP1015S |
| 1000x1000x3 | CBEP1003S |



EARTH LATTICE

SPEEDWELL Lattices earth mats are usable as an alternative to earth elates.

 Copper BS EN 13601 (formerly BS 1432) with copper rivets

| Lattice Size mm | Conductor Size mm | No. of Strips | Cat. # |
|-----------------|-------------------|---------------|------------|
| 500 x 500 | 25x3 | 5 x 5 | SCEL5253S |
| 600 x 600 | 25x3 | 5 x 5 | SCEL6253S |
| 900 x 900 | 25x3 | 5 x 5 | SCEL9253S |
| 900 x 900 | 50x6 | 7 x 7 | SCEL9506S |
| 1000 x 1000 | 25x3 | 5 x 5 | SCEL10253S |
| 1000 x 1000 | 50x6 | 7 x 7 | SCEL10506S |

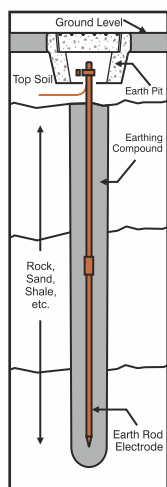
LOW-RESISTANCE EARTHING COMPOUND



Speedwell Earthing Compound is used as an earth electrode backfill and ideal for use in difficult soil condition to lower reduce soil resistivity. It is a grayish black, fine granular material used in place of other concrete collective like Silicon Dioxide and Carbon. It is also permanent, stable and maintenance free solution to obtain low resistivity in the form of conductive concrete. It prevents earth electrode material against corrosion. Mix the compound with water in the ratio of 1:2 to form a gel.

Speedwell Earthing Compound is manufactured from environmentally safe and stable components with an excellent shelf life - Long term storage does not affect its performance.

| Description | Wt. | Cat. # |
|---|--------|--------|
| Low-Resistance Earthing Compound Bag | 25 kg. | ECB25S |
| Low-Resistance Earthing Compound Bucket | 25 kg. | ECB20S |



BENTONITE

Bentonite Earthing Compound is used as an earth electrode backfill to reduce soil resistivity by retaining moisture. The compound consists largely of sodium montmorillonite, which when mixed with water swells to many times its dry volume. It has the ability to hold its moisture content for a considerable period of time and to absorb moisture from the surrounding soil and from rainfall. It prevents earth electrode material against corrosion. Mix the compound with water in the ratio of 1:2 to form a gel.

Bentonite is manufactured from environmentally safe and stable components with an excellent shelf life - Long term storage does not affect its performance.



| Description | Wt. | Cat. # |
|------------------------------------|--------|--------|
| Bentonite Earthing Compound Bag | 25 kg. | BCB25S |
| Bentonite Earthing Compound Bucket | 25 kg. | BCB20S |


SPEEDWELL offers a variety of earth rod clamps suitable for different applications. Conductivity, Mechanical strength and corrosion resistance are important considerations in clamp design to ensure an earthing system perfect for the life time of the system all Speedwell clamps are made of high strength copper alloys bodies and screws of aluminum bronze, phosphor bronze, and stainless steel etc... (commercial Brass is never used)

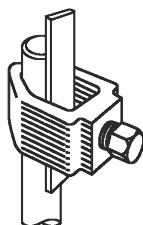


ROD TO TAPE CLAMP - TYPE 'A'

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

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

 BS EN 50164-1:2000 (15 Nm.)



| Rod Dia mm | Tape Width mm | Cat. # |
|------------|---------------|---------|
| 12 - 20 | 25 | RTCA25S |
| 12 - 20 | 31 | RTCA31S |
| 12 - 20 | 38 | RTCA38S |
| 12 - 20 | 50 | RTCA50S |

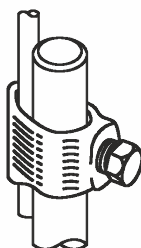


ROD TO CABLE CLAMP - TYPE 'G'

These clamps are used for joining earth rods to copper cables.

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

 BS EN 50164-1:2000 (12 Nm.)



| Rod Dia mm | Conductor Range mm2 | Cat. # |
|------------|---------------------|---------|
| 12.7 | 16-70 | RCCG16S |
| 14.2 | 16-70 | RCCG16S |
| 17.2 | 35-95 | RCCG20S |
| 20.0 | 50-150 | RCCG25S |
| 25.0 | 70-240 | RCCG31S |

| Rod Dia mm | Conductor Range AWG | Cat. # |
|------------|---------------------|--------|
| 12.7 | 2 Sol. - 10 Str. | GCR12* |
| 14.2 | 2 Sol. - 10 Str. | GCR58* |
| 17.2 | 2 Sol. - 10 Str. | GCR34* |

*UL Listed

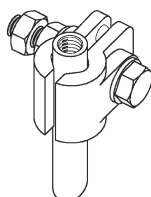


ROD TO CABLE LUG CLAMP - TYPE 'B'

SPEEDWELL clamps are used to connect cable lug to earth rod.

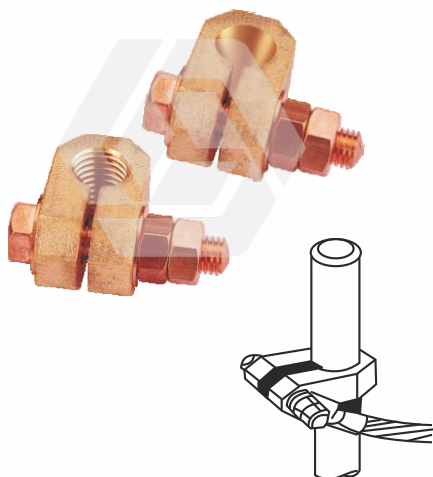
 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

| Rod Dia mm | Cat. # |
|------------|------------|
| 12 - 20 | RCLCB1220S |



SPLIT CONNECTOR CLAMP - TYPE 'L'

Used with threaded and unthreaded rods, suitable for connecting earth rod with cable lugs.

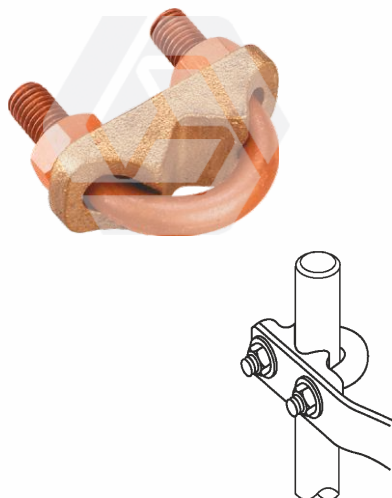


 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

| Rod Dia mm | Cat. # | Thread Dia | Cat. # |
|------------|---------|------------|-----------|
| 12.7 | SCCL12S | 9/16" | SCCLT916S |
| 14.2 | SCCL14S | 5/8" | SCCLT58S |
| 15.0 | SCCL15S | 3/4" | SCCLT34S |
| 16.0 | SCCL16S | | |
| 17.2 | SCCL17S | | |
| 20.0 | SCCL20S | | |

U BOLT ROD CLAMP - TYPE 'E1'

These clamps are used to connect tape to the earth rod.



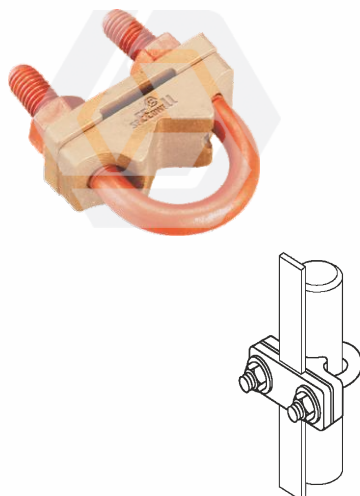
 Body - Gunmetal, U Bolt - Copper

 BS EN 50164-1:2000 (12 Nm.)

| Rod Dia mm | Tape width mm | Cat. # |
|------------|---------------|----------|
| 15 - 25 | 25 - 50 | UBRCE25S |

ROD TO TAPE CLAMP - TYPE 'E2'

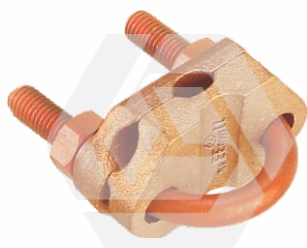
These clamps are used to connect tape to the earth rod. This clamp is provided with additional plate to fix the tape in vertical position also.



 Body - Gunmetal, U Bolt - Copper

 BS EN 50164-1:2000 (12 Nm.)

| Rod Dia mm | Tape Width mm | Cat. # |
|------------|---------------|------------|
| 15 - 25 | 25 | RTCE22525S |
| 15 - 25 | 50 | RTCE22550S |

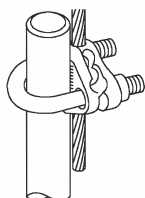


ROD TO CABLE CLAMP - TYPE 'GUV'

Heavy Duty Copper Alloy Double Plate Clamps are suitable for connecting Earth Rod with stranded Cables / round conductors.

 Body - Gunmetal, U Bolt - Copper

 BS EN 50164-1:2000 (12 Nm.)



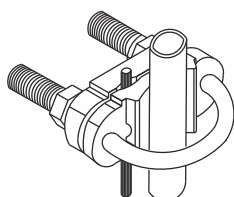
| Rod Dia mm | Conductor Range mm ² | Cat. # |
|------------|---------------------------------|-----------|
| 15 - 25 | 35-185 | GUV20185S |
| 16 - 25 | 150-300 | GUV25300S |



U BOLT PIPE TO CABLE CLAMP - TYPE 'GU'

These 'U' Bolt Pipe to Cable Clamp are used for two universal parallel or 90° connection of cable to pipe. It is also used for fence post grounding connection

 Body - Gunmetal, U Bolt - Copper



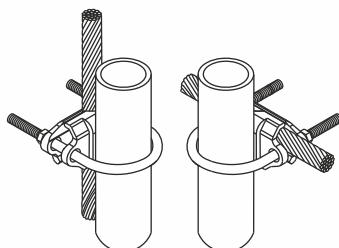
| Pipe Dia. | Conductor Range mm ² | Cat. # | Pipe Dia. | Conductor Range mm ² | Cat. # |
|-----------|---------------------------------|--------|-----------|---------------------------------|--------|
| 1/2" | 35-95 | GU12S | 2 1/2" | 35-95 | GU212S |
| 3/4" | 35-95 | GU34S | 3" | 35-95 | GU03S |
| 1" | 35-95 | GU01S | 4" | 35-95 | GU04S |
| 1 1/2" | 35-95 | GU112S | 5" | 35-95 | GU05S |
| 2" | 35-95 | GU02S | 6" | 35-95 | GU06S |



U BOLT PIPE TO CABLE CLAMP - TYPE 'PUB'

These 'U' Bolt Pipe to Cable Clamp are used for universal parallel or 90° connection of cable to pipe. It is also used for fence post grounding connection

 Body - Gunmetal, U Bolt - Copper



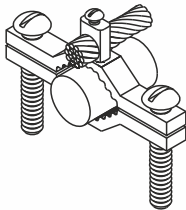
| Pipe Dia. | Conductor Range mm ² | Cat. # | Pipe Dia. | Conductor Range mm ² | Cat. # |
|-----------|---------------------------------|---------|-----------|---------------------------------|---------|
| 1/2" | 35-95 | PUB12S | 2 1/2" | 35-95 | PUB212S |
| 3/4" | 35-95 | PUB34S | 3" | 35-95 | PUB03S |
| 1" | 35-95 | PUB01S | 4" | 35-95 | PUB04S |
| 1 1/2" | 35-95 | PUB112S | 5" | 35-95 | PUB05S |
| 2" | 35-95 | PUB02S | 6" | 35-95 | PUB06S |



Water Pipe Ground Clamps - 'Type KP'

These clamps used to bonding ground conductor to water pipe, copper tube and rebar. It cast from high strength electrolytic bronze to provide reliable grounding connection.

Body - Bronze, Screw - Bronze, GI and SS



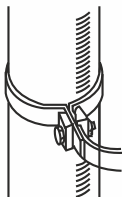
| Pipe Range | | Conductor Range | | Cat. # |
|------------|--------|-----------------|-----------|---------|
| Inch | mm | Size | Dia (mm) | |
| 1/2-1 | 13-25 | #10 SOL-2 Str | 2.58-7.40 | KP121S |
| 1-1/4-2 | 32-51 | #10 SOL-2 Str | 2.58-7.40 | KP1142S |
| 2-1/2-4 | 64-114 | #10 SOL-2 Str | 2.58-7.40 | KP2124S |



RWP BOND

SPEEDWELL Rainwater Pipe Bonds are used for bonding tapes to rainwater pipes and hand rails etc...

Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS



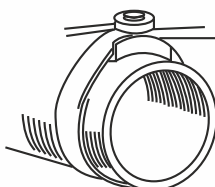
| Tape Width mm | Bolt Size | Cat. # |
|------------------|-----------|---------|
| 25.0 | M10 | RWPB25S |



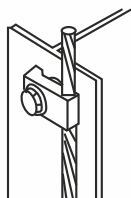
WATERMAIN PIPE BOND

These types of bonds are used for bonding pipes into the earthing or lightning protection system. SPEEDWELL watermain pipe bond are used for bonding tape to large diameter pipes.

Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS



| Tape Width mm | Cat. # |
|------------------|----------|
| 25.0 | WMPB256S |



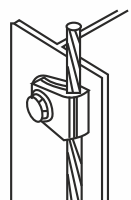
TOWER EARTH CLAMP SINGLE PLATE

SPEEDWELL Tower Earth Clamps are designed for bonding copper conductor to metal surfaces.

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

 BS EN 50164-1:2000 (12 Nm.)

| Conductor Size mm ² | Channel Thickness mm | Bolt Size | Cat. # |
|--------------------------------|----------------------|-----------|----------|
| 16 - 70 | 10 | M10 | TECS70S |
| 70 - 120 | 10 | M10 | TECS120S |
| 120 - 185 | 10 | M12 | TECS185S |
| 185 - 240 | 10 | M12 | TECS240S |



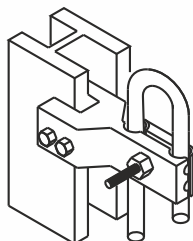
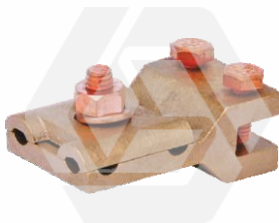
TOWER EARTH CLAMP DOUBLE PLATE

SPEEDWELL Tower Earth Clamps are designed for bonding copper conductor to metal surfaces.

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

 BS EN 50164-1:2000 (12 Nm.)

| Conductor Size mm ² | Channel Thickness mm | Bolt Size | Cat. # |
|--------------------------------|----------------------|-----------|----------|
| 16 - 70 | 10 | M10 | TECD70S |
| 70 - 120 | 10 | M10 | TECD120S |
| 120 - 185 | 10 | M12 | TECD185S |
| 185 - 240 | 10 | M12 | TECD240S |

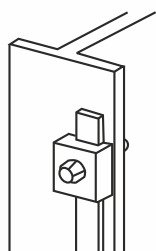
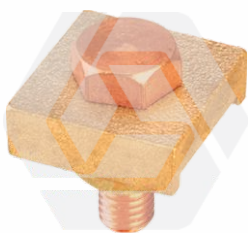


METALWORK BOND

SPEEDWELL Metalwork Bond is designed for bonding to all types of metal structures up to 13mm thickness.

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS


| Conductor Size mm ² | Bolt Size | Cat. # |
|--------------------------------|-----------|--------|
| 35 - 50 | M10 | MWB01S |



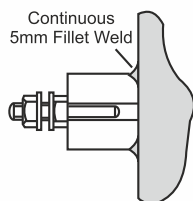
B BOND

SPEEDWELL B Bonds are used for bonding tape to metal structure.

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

 BS EN 50164-1:2000 (17 Nm.)

| Tape Width mm | Bolt Size | Cat. # |
|------------------|-----------|--------|
| 25 | M10 | BB25S |




EARTH BOSS

SPEEDWELL Earth Boss are welded to steel vessels, tanks and structures to provide an earth point to connect to the main earthing system.

Wrap the bond and connection with Denso Tape.

Continuous fillet weld of 5 mm is recommended.

 Body - Galvanised Mild Steel and SS 316
Bolts - Al Bronze, Phosphor Bronze and SS

| Dia mm | Length mm | Stud Size mm | Cat. # MS | Dia mm | Length mm | Stud Size mm | Cat. # SS |
|-----------|--------------|-----------------|--------------|-----------|--------------|-----------------|--------------|
| 30 | 30 | 10 x 40 | EB3030S | 30 | 30 | 10 x 40 | EB3030SS |
| 40 | 30 | 10 x 50 | EB3040S | 40 | 30 | 10 x 50 | EB3040SS |
| 40 | 40 | 10 x 50 | EB4040S | 40 | 40 | 10 x 50 | EB4040SS |
| 50 | 50 | 10 x 60 | EB5050S | 50 | 50 | 10 x 60 | EB5050SS |

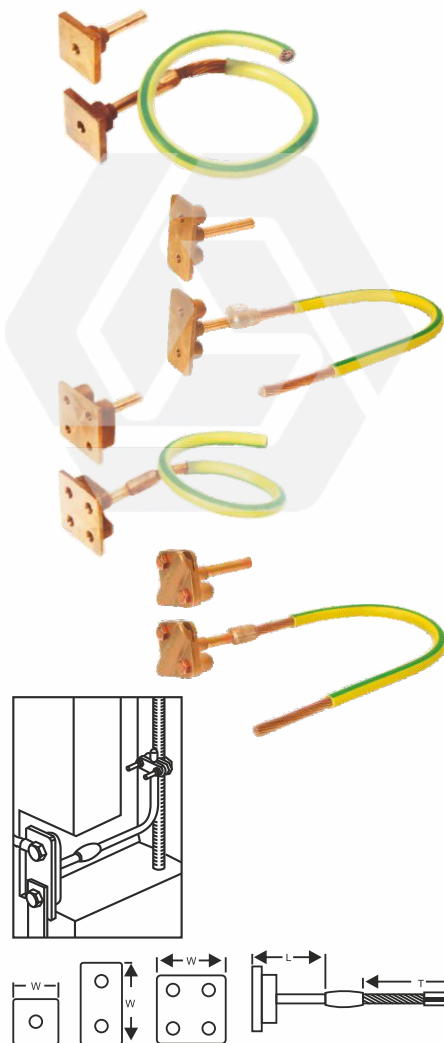


EYE BOLT

These Eye Bolts can be directly screwed onto earth rods, thereby offering a static discharge unit.

 Gunmetal

| Thread Dia | Cat. # |
|---------------|--------|
| 9/16" | EYB12S |
| 5/8" | EYB16S |
| 3/4" | EYB20S |




EARTH BONDING POINT

SPEEDWELL Earth Bonding Points are used for providing earthing continuity and a multiple bonding point, these bonding points are available with one, two and four hole connections.

When cast into concrete they connect the re-bar to the main earthing or lightning protection system.

These are also available with variety of tail lengths to suit different applications the tail ends are of 70 mm² yellow green pvc coated stranded cable which are pre welded by exothermic welding method.

 Body - Gunmetal, Bolts - Al Bronze, Phosphor Bronze and SS

 BS EN 50164-1:2000 (8 Nm.)

BONDING POINT WITH TAIL

| No. Of Holes | L | W | T | Cat. # |
|--------------|----|----|------|---------|
| 1 | 80 | 49 | - | BP1S |
| | 80 | 49 | 500 | BP150S |
| 2 | 80 | 80 | - | BP2S |
| | 80 | 80 | 500 | BP250S |
| | 80 | 80 | 1000 | BP2100S |
| | 80 | 80 | 1500 | BP2150S |
| | 80 | 80 | 3000 | BP2300S |
| | 80 | 64 | - | BP4S |
| 4 | 80 | 64 | 500 | BP450S |
| | 80 | 64 | 1000 | BP4100S |
| | 80 | 64 | 3000 | BP4300S |

BONDING POINT FOR TAPE

| No. Of Holes | L | W | T | Cat. # |
|--------------|----|----|------|----------|
| 2 | 80 | 54 | - | BPTS |
| | 80 | 54 | 500 | BPT250S |
| | 80 | 54 | 1000 | BPT2100S |
| | 80 | 54 | 1500 | BPT2150S |
| | 80 | 54 | 3000 | BPT2300S |
| | 80 | 54 | 3000 | BPT2300S |

STATIC EARTH RECEPTACLE

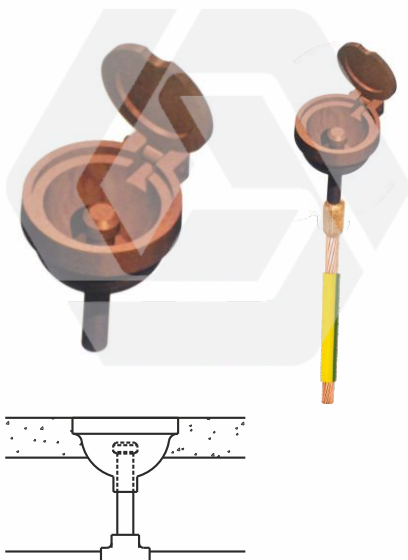
SPEEDWELL Static Earth Receptacle are used for set into runways and roadways to provide a static discharge point for aircraft, fuel tankers, etc...

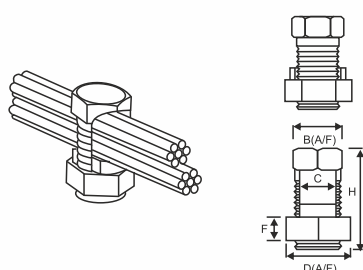
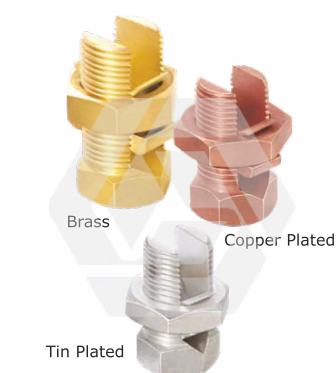
These receptacles are used in open areas or any where a temporary earthing point may be required such as airfields or petrol stations.

These are also available with welded tails of different length.

 Gunmetal


| T | Cat. # |
|------|----------|
| - | SERS |
| 500 | SERS50S |
| 1000 | SERS100S |
| 1500 | SERS150S |
| 3000 | SERS300S |





SPLIT BOLT CONNECTORS / LINE TAPS

SPEEDWELL Split Bolt Connectors are used to couple a range of Stranded or Solid circular Conductors and no specialised tool is required for installation.

 Tin Plating and Copper plating on High Strength copper Alloy

 Hand Tightened

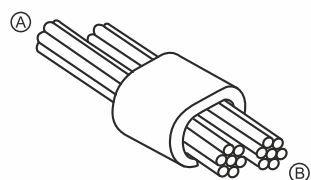
| Size mm ² | H | C | B A/F | D A/F | F | Cat. # |
|----------------------|-------|-------|-------|-------|-------|---------|
| 6 | 19.85 | 4.00 | 12.70 | 13.35 | 4.80 | SBC006S |
| 10 | 26.75 | 4.70 | 12.70 | 19.00 | 5.60 | SBC010S |
| 16 | 26.00 | 5.70 | 12.70 | 19.00 | 5.60 | SBC016S |
| 25 | 28.00 | 7.30 | 16.00 | 19.00 | 5.60 | SBC025S |
| 35 | 35.00 | 7.80 | 18.50 | 24.00 | 6.35 | SBC035S |
| 50 | 42.00 | 9.70 | 24.10 | 27.20 | 8.65 | SBC050S |
| 70 | 44.50 | 11.50 | 24.10 | 27.20 | 8.65 | SBC070S |
| 95 | 50.00 | 14.40 | 26.50 | 35.40 | 9.40 | SBC095S |
| 120 | 57.50 | 16.20 | 30.00 | 35.40 | 12.00 | SBC120S |
| 150 | 57.50 | 16.20 | 30.00 | 35.40 | 12.00 | SBC150S |
| 185 | 57.50 | 18.20 | 31.75 | 38.00 | 12.00 | SBC185S |
| 240 | 72.50 | 22.00 | 40.00 | 48.20 | 14.25 | SBC240S |
| 300 | 72.50 | 24.00 | 42.00 | 50.00 | 14.25 | SBC300S |
| 400 | 76.50 | 26.00 | 48.00 | 56.00 | 16.00 | SBC400S |
| 500 | 80.00 | 30.00 | 55.00 | 65.00 | 16.00 | SBC500S |



CRIMP CONNECTORS TYPE 'C'

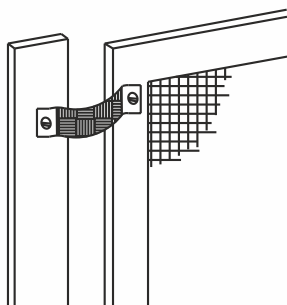
SPEEDWELL C Crimp Connectors are used to produce very robust Joints. They are ideal for use in situations where exothermic welding is not appropriate and periodic disconnection is not required. These are used for parallel or Tap Connections of Copper Cables, Hydraulic Crimping tool with special dies are required for installation.

 Extruded Electrolytic Copper (Thick Wall)



| Main Conductor (A) | Tap Conductor (B) | Cat. # |
|--------------------|-------------------|-----------|
| 10 | 1.5 - 10 | CC101510S |
| 16 | 4 - 16 | CC160416S |
| 25 | 4 - 10 | CC250410S |
| 25 | 16 - 25 | CC251635S |
| 35 | 10 - 16 | CC351016S |
| 35 | 25 - 35 | CC251635S |
| 50 | 16 - 25 | CC501625S |
| 50 | 35 - 50 | CC503570S |
| 70 | 25 - 35 | CC503570S |
| 70 | 50 - 70 | CC705095S |
| 95 | 16 - 25 | CC951625S |

| Main Conductor (A) | Tap Conductor (B) | Cat. # |
|--------------------|-------------------|-----------|
| 95 | 35 - 50 | CC705095S |
| 95 | 70 - 95 | CC957012S |
| 120 | 50 - 70 | CC957012S |
| 120 | 95 - 120 | CC129515S |
| 150 | 70 - 95 | CC129515S |
| 150 | 120 - 150 | CC151218S |
| 185 | 95 - 120 | CC151218S |
| 185 | 150 - 185 | CC181524S |
| 240 | 120 - 150 | CC181524S |
| 240 | 185 - 240 | CC241824S |
| 300 | 240 - 300 | CC302430S |



FLEXIBLE BRAID BOND

SPEEDWELL Flexible Copper Braids are suitable for earth bonding of Fences, Gates, Doors, Etc..where flexibility is required or the bond is subject to movements.

Other materials, sizes and types of braid can be made to order.

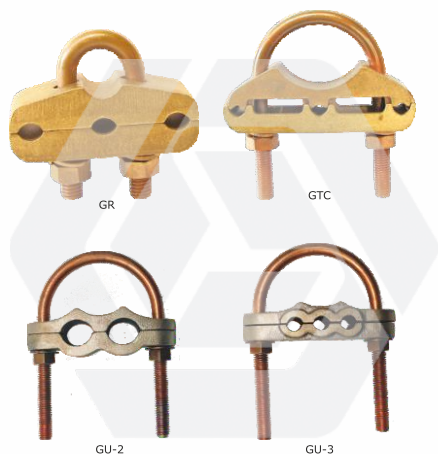


High Conductivity Copper BS: 4109 C101

| mm ² | Center to Center Dist. of Fixing Hole, mm | Braid Dim. mm | Hole Size mm | Cat. # Bare | Cat. # Tinned |
|-----------------|---|---------------|--------------|-------------|---------------|
| 35 | 150 | 25 x 3.5 | 12 | FCB150S | FCB150TS |
| 35 | 200 | 25 x 3.5 | 12 | FCB200S | FCB200TS |
| 35 | 250 | 25 x 3.5 | 12 | FCB250S | FCB250TS |
| 35 | 300 | 25 x 3.5 | 12 | FCB300S | FCB300TS |
| 35 | 400 | 25 x 3.5 | 12 | FCB400S | FCB400TS |

GROUND CLAMP AND BARS

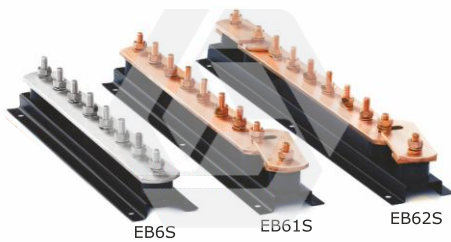
These SPEEDWELL clamps and connectors are used for clamping cables, braids and strips to pipes.



Body - Gunmetal and Bronze U Bolt - Copper Fasteners - GI and SS

| Item | Cat. # | Remarks |
|-------------|--------|---------|
| GR - Clamp | GRS | * |
| GTC - Clamp | GTCS | * |
| GH - Clamp | GHS | * |
| GU - Clamp | GUS | * |

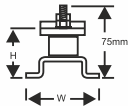
Contact us for information about these and other components




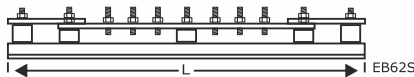
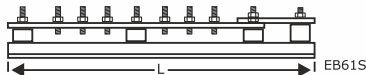
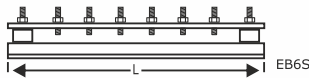
EARTH BARS AND DISCONNECTING LINKS

SPEEDWELL Earth Bars are an efficient and convenient solution for providing a common earth point to connect to the main earthing System. Integral disconnecting links are provided for isolation at the time of testing. These Earth Bars come in variety of specifications and sizes to suit different applications, the standard sizes are shown in the table with many variations.

Other sizes and variations can be made to order.

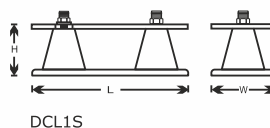
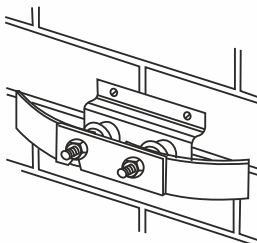
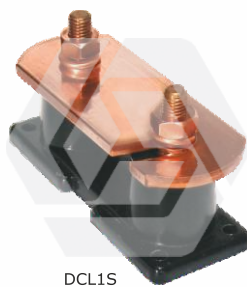


 Bar - Hard Drawn Copper Bar BS: 1432 C101
 Fasteners - Brass, Silicon & Phosphor Bronze, Stainless Steel.
 Channel Base - Powder Coated Mild Steel
 Insulators - Reinforced Polyester.



| Terminals | W | H | L (Link-0) | Cat. # | L (Link-1) | Cat. # | L (Link-2) | Cat. # |
|-----------|----|----|---------------|--------|---------------|---------|---------------|---------|
| 4 | 90 | 48 | 300 | EB4S | 375 | EBL41S | 450 | EBL42S |
| 6 | 90 | 48 | 400 | EB6S | 475 | EBL61S | 550 | EBL62S |
| 8 | 90 | 48 | 500 | EB8S | 575 | EBL81S | 650 | EBL82S |
| 10 | 90 | 48 | 650 | EB10S | 725 | EBL101S | 800 | EBL102S |
| 12 | 90 | 48 | 750 | EB12S | 825 | EBL121S | 900 | EBL122S |
| 14 | 90 | 48 | 850 | EB14S | 925 | EBL141S | 1000 | EBL142S |
| 16 | 90 | 48 | 950 | EB16S | 1025 | EBL161S | 1100 | EBL162S |
| 18 | 90 | 48 | 1050 | EB18S | 1125 | EBL181S | 1200 | EBL182S |
| 20 | 90 | 48 | 1200 | EB20S | 1275 | EBL201S | 1350 | EBL202S |
| 22 | 90 | 48 | 1300 | EB22S | 1375 | EBL221S | 1450 | EBL222S |
| 24 | 90 | 48 | 1400 | EB24S | 1475 | EBL241S | 1550 | EBL242S |
| 26 | 90 | 48 | 1500 | EB26S | 1575 | EBL261S | 1650 | EBL262S |
| 28 | 90 | 48 | 1650 | EB28S | 1725 | EBL281S | 1800 | EBL282S |
| 30 | 90 | 48 | 1750 | EB30S | 1825 | EBL301S | 1900 | EBL302S |

Also available with Tin Plated. To order Tin Plated Earth Bars, replace 'S' with 'TS' in Cat #



| L | W | H | Cat. # |
|-----|----|----|---------|
| 125 | 50 | 48 | DCL1S |
| | | | DCLS1S |
| | | | DCLPT1S |
| | | | DCLP1S |



LIGHTNING

Benjamin Franklin is generally considered to be the father of modern Lightning Protection theory, His celebrated kite experiment proving for the first time that storm clouds generate, hold and discharge static electricity.

Lightning is one of nature's most powerful and destructive phenomena. Lightning discharges contain awesome amounts of electrical energy and have been measured from several thousand amps to over 200,000 amps enough to light half a million 100 watt bulbs. Even though a lightning discharge is of very short duration, typically 200 microseconds, it is a very real cause of damage and destruction.



TAPER POINTED AIR RODS

Air termination Network is the point of connection of Lightning Strike to the Protection System and Speedwell Taper Pointed Air Rods are used for this application. These can be used with or without multipoint, however researches conducted in this regard suggest use of multiple points with taper air rods are more effective than only taper air rods.


The Taper Pointed Air Rods on one side have taper of less than 5 Deg. for a perfect taper fit with multipoint and on the other side has suitable threads for fixing into terminal Base, Flat Saddle, Ridge Saddle, Air Rod Base, Rod Brackets and Air Rod Couplings.

 Copper and Stainless Steel

| Rod Length mm | Rod Dia mm | Thread Dia | Cat. # Copper | Cat. # SS |
|---------------|------------|------------|---------------|-----------|
| 300 | 10 | 10mm | TAR1003S | - |
| 500 | 10 | 10mm | TAR1005S | - |
| 800 | 10 | 10mm | TAR1008S | - |
| 500 | 15 | 16mm | TAR1605S | TAR1605SS |
| 1000 | 15 | 16mm | TAR1610S | TAR1610SS |
| 1200 | 15 | 16mm | TAR1612S | TAR1612SS |
| 1500 | 15 | 16mm | TAR1615S | TAR1615SS |
| 2000 | 15 | 16mm | TAR1620S | TAR1620SS |
| 3000 | 15 | 16mm | TAR1630S | TAR1630SS |

MULTIPOINT - TAPER


Suitable only with copper taper pointed air rods.

 Copper and Stainless Steel

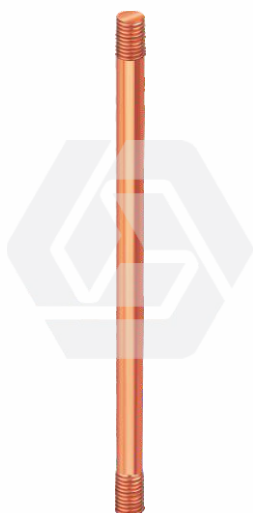
| Cat. # Copper | Cat. # SS |
|---------------|-----------|
| MPT16S | MPT16SS |

AIR TERMINAL BASE - TAPE

These are used for fixing air rods onto the flat roof surfaces and to accommodate tape for the protection system. The threads are suitable for air rods.

 Gunmetal and Stainless Steel

| Thread Dia | Max. Tape Conductor | Cat. # Gunmetal | Cat. # SS |
|------------|---------------------|-----------------|-----------|
| 10mm | 30 x 6 mm | ATBT10S | ATBT10SS |
| 16 mm | 30 x 6 mm | ATBT16S | ATBT16SS |
| 5/8" | 30 x 6 mm | ATBT58S | ATBT58SS |
| 3/4" | 30 x 6 mm | ATBT34S | ATBT34SS |



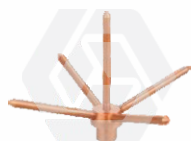
ELEVATION ROD

Speedwell has several options for lightning arresters and multipoint with elevation rod is an economical option to suit different climatic conditions.

Several Designs and available in Multipoint.

 High Conductive Electrolytic Copper alloys

| Rod Length mm | Rod Dia mm | Thread Dia | Cat. # |
|---------------|------------|------------|----------|
| 500 | 15 | 16mm | ERC1605S |
| 1000 | 15 | 16mm | ERC1610S |
| 1500 | 15 | 16mm | ERC1615S |
| 500 | 14.2 | 5/8" | ERC5805S |
| 1000 | 14.2 | 5/8" | ERC5810S |
| 500 | 17.2 | 3/4" | ERC3405S |
| 1000 | 17.2 | 3/4" | ERC3410S |




COPPER
(A)



GUN METAL
KNIFE TYPE (B)

MULTIPOINT - THREADED

Suitable only with threaded copper elevation rod.

 Copper and Gunmetal

| Thread Dia | Cat. # A | Cat. # B |
|------------|----------|----------|
| 16mm | MPA16S | MPB16S |
| 5/8" | MPA58S | MPB58S |
| 3/4" | MPA34S | MPB34S |

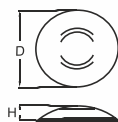
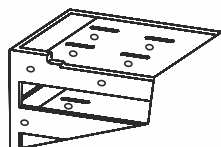


STRIKE PAD

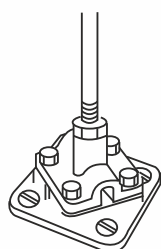
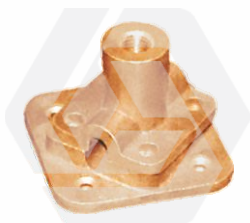
Speedwell Strike Pad is used where it is not possible or preferred not to fix conductor on the roof or side of the building.

Applications like Ware houses or Multistory car park building, where the conductors are laid into the tarmac, or the side of the building but not possible to run the conductor outside.

 Body - Gunmetal Bolts - Aluminum Bronze, Silicon Bronze, SS



| D mm | H mm | Maximum Tape Size | Cat. # |
|------|------|-------------------|----------|
| 110 | 20 | 30 x 6 | SP11020S |



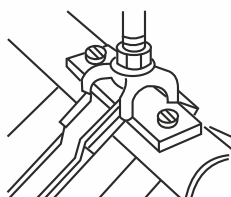
FLAT SADDLE - TYPE 'C'

These are used for fixing air rods onto the flat roof surfaces and to accommodate circular conductors and Cables to the protection system. The threads are suitable for air rods.

 Gunmetal

 BS EN 50164-1:2000 (12 Nm.)

| Conductor Size mm | Rod Dia mm | Thread Dia | Cat. # |
|-------------------|------------|------------|----------|
| 50 - 70 | 15 | 16 | FSC5070S |
| 95 | 15 | 16 | FSC95S |

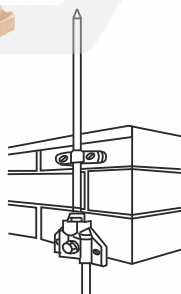
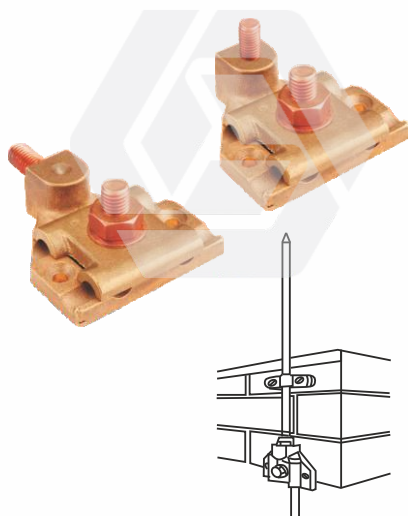


RIDGE SADDLE

These are also air rod Bases mainly used for fixing air rods on Ridges and to accommodate circular conductors and Cables to the protection system. The threads are suitable for air rods.

 Gunmetal

| Rod Dia mm | Thread Dia mm | Maximum Tape Size | Cat. # |
|------------|---------------|-------------------|--------|
| 15.0 | M16 | 30 x 6 mm | RS16S |
| 14.2 | 5/8" | 30 x 6 mm | RS58S |
| 17.2 | 3/4" | 30 x 6 mm | RS34S |



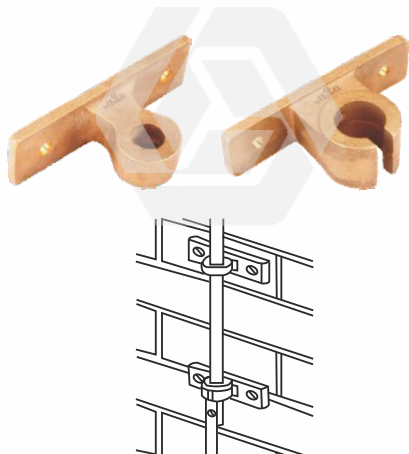
AIR ROD BASE - CABLE

These are used for fixing air rods Horizontally or Vertically and to accommodate circular conductors and Cables to the protection system. The threads are suitable for air rods.

 Body - Gunmetal Bolts - Aluminum Bronze, Silicon Bronze, SS

 BS EN 50164-1:2000 (15 Nm.)

| Position | Conductor Dia | Thread Dia | Cat. # |
|------------|---------------|------------|----------|
| Vertical | 8 mm | 10 mm | ATBV810S |
| Horizontal | 8 mm | 10 mm | ATBH810S |



ROD BRACKETS - SIDE MOUNTING BRACKETS

SPEEDWELL Rod Brackets are mainly used where it is not possible to fit a saddle on the roof, So the air rod has to be fitted on the wall or to the side of the building or chimney. The Rod to Tape/Cable Coupling is used to secure air terminal to Tape or Cable.

 Gunmetal

| Rod Dia mm | Cat. # |
|------------|----------|
| 15 - 20 | RBC1520S |



AIR ROD TO TAPE/CABLE COUPLING

These are used in conjunction with the Rod Brackets. The Air rod is screwed in to the threads provided and the Tape and Cable is secured by the Bolts provided.

The threads are suitable for air rods.

 Body - Gunmetal Bolts - Aluminum Bronze, Silicon Bronze, SS

 BS EN 50164-1:2000 (6 Nm)

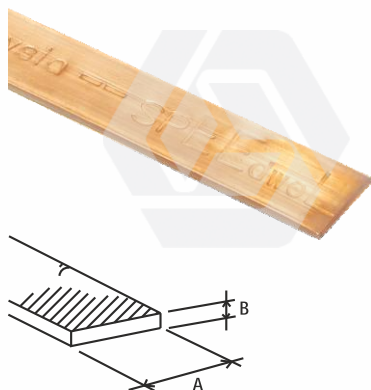
| Rod Dia mm | Thread Dia mm | Conductor Dia | Cat. # |
|------------|---------------|------------------------|----------|
| 15 | 16 | 25 x 3mm | RTC1625S |
| 15 | 16 | 50 - 70mm ² | RCC1670S |
| 15 | 16 | 95mm ² | RCC1695S |
| 14.2 | 5/8" | 25 x 3mm | RTC5825S |
| 14.2 | 5/8" | 50 - 70mm ² | RCC5870S |
| 14.2 | 5/8" | 95mm ² | RCC5895S |
| 17.2 | 3/4" | 25 x 3mm | RTC3425S |
| 17.2 | 3/4" | 50 - 70mm ² | RCC3470S |
| 17.2 | 3/4" | 95mm ² | RCC3495S |

HARD DRAWN COPPER BAR

These are extruded from high grade Copper cathode of purity 99.99% purity. These are available in various sizes in standard length of 4 Mtr.

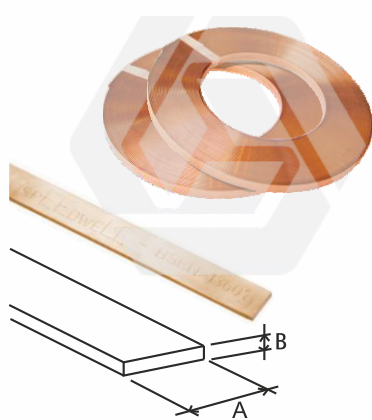
 Hard Drawn Oxygen Free Copper BS: 2874 C101 / C 103

| Conductor Size (AxB)mm | Cat. # |
|------------------------|-----------|
| 25 x 3 | HDCB253S |
| 25 x 6 | HDCB256S |
| 38 x 6 | HDCB386S |
| 50 x 6 | HDCB506S |
| 50 x 10 | HDCB5010S |
| 75 x 6 | HDCB756S |
| 100 x 6 | HDCB1006S |



BARE COPPER TAPE

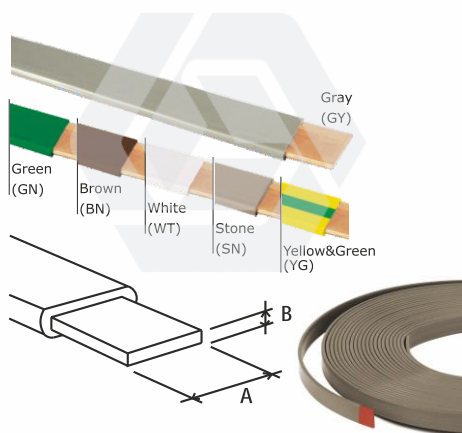
The main important component of any Earthing or Lightning Protection System is the actual Conductor. SPEEDWELL's Bare Copper Tape is manufactured from finest quality Cathodes of purity 99.99%. These Tapes is Annealed for ease of use with radiused edges and are Oxygen free (Oxygen 5ppm). Each meter of the coil is Stamped with - spEEdweLL - BS EN 13601 - The KA Rating is based on the recommendations of BS:7430 with an initial temp. of 30 Deg. And a Maximum of 250 Deg. C.



Oxygen Free Copper BS EN: 13601 (Before BS: 1432 C101 / C103)

| Conductor Size (AxB)mm | Standard Coil Size | Cat. # |
|------------------------|--------------------|---------|
| 12.5 x 1.5 | 100Mtr | BCT121S |
| 12.5 x 3 | 100Mtr | BCT123S |
| 20 x 1.5 | 50Mtr | BCT201S |
| 20 x 3 | 100Mtr | BCT203S |
| 25 x 1.5 | 50Mtr | BCT251S |
| 25 x 3 | 50Mtr | BCT253S |
| 25 x 4 | 50Mtr | BCT254S |
| 25 x 6 | 25Mtr | BCT256S |
| 30 x 2 | 50Mtr | BCT302S |
| 30 x 3 | 50Mtr | BCT303S |
| 30 x 4 | 25Mtr | BCT304S |
| 30 x 5 | 25Mtr | BCT305S |

| Conductor Size (AxB)mm | Standard Coil Size | Cat. # |
|------------------------|--------------------|---------|
| 31 x 3 | 50Mtr | BCT313S |
| 31 x 6 | 25Mtr | BCT316S |
| 38 x 3 | 50Mtr | BCT383S |
| 38 x 5 | 25Mtr | BCT385S |
| 38 x 6 | 25Mtr | BCT386S |
| 40 x 3 | 25Mtr | BCT403S |
| 40 x 4 | 25Mtr | BCT404S |
| 40 x 5 | 25Mtr | BCT405S |
| 40 x 6 | 25Mtr | BCT406S |
| 50 x 3 | 25Mtr | BCT503S |
| 50 x 5 | 25Mtr | BCT505S |
| 50 x 6 | 20Mtr | BCT506S |



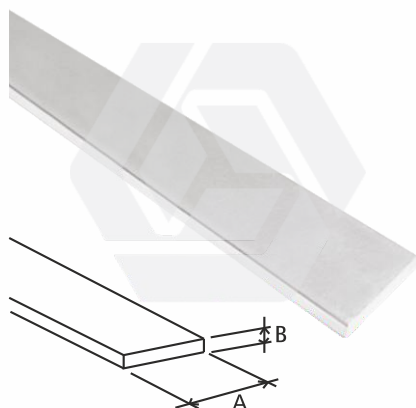
PVC COVERED COPPER TAPE

PVC Covered Copper Tapes are similar to the Bare Copper Tapes But Covered with PVC for aesthetic purpose to blend the down Conductor into the Building.

Oxygen Free Copper BS EN: 13601 (Before BS: 1432 C101 / C103)

| Conductor Size (AxB)mm | Cat. # GY | Cat. # GN | Cat. # BN | Cat. # WT | Cat. # SN | Cat. # YG |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 25 x 3 | PTGY253S | PTGN253S | PTBN253S | PTWT253S | PTSN253S | PTYG253S |

*Available in 25 Meter Roll

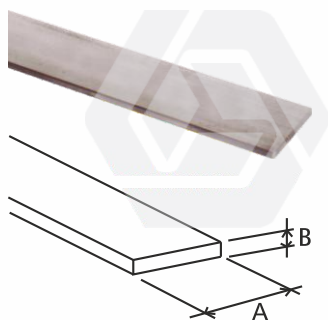


TINNED COPPER TAPE

The Bare Copper Tape are Annealed and Tinned for easy use and extended life of the conductor.

Tinned Oxygen Free Copper BS EN: 13601
(Before BS: 1432 C101 / C103)

| Conductor Size (AxB)mm | Standard Coil Size | Cat. # |
|------------------------|--------------------|---------|
| 25 x 3 | 50Mtr | TCT253S |
| 25 x 6 | 25Mtr | TCT256S |
| 50 x 3 | 25Mtr | TCT503S |
| 50 x 6 | 20Mtr | TCT506S |

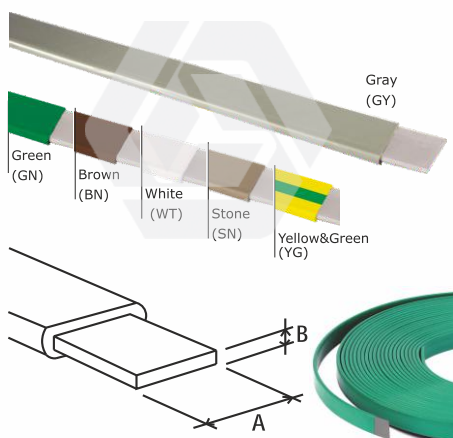


BARE ALUMINUM TAPE

These SPEEDWELL Bare Aluminum Tapes are made of High Grade Aluminum which can be used in Lightning Protection Application as an economical alternate to Copper Tapes. The Tapes are Annealed for ease of use with radiused edges.

Aluminum BS 2898-1350

| Conductor Size (AxB)mm | Standard Coil Size | Cat. # |
|------------------------|--------------------|---------|
| 25 x 3 | 50Mtr | BAT253S |
| 25 x 6 | 50Mtr | BAT256S |
| 50 x 3 | 50Mtr | BAT503S |
| 50 x 6 | 50Mtr | BAT506S |



PVC COVERED ALUMINUM TAPES

These are similar to Bare Aluminum Tapes but covered with 1mm thick PVC sleeve.

Aluminum BS 2898-1350

| Conductor Size (AxB)mm | Cat. # GY | Cat. # GN | Cat. # BN | Cat. # WT | Cat. # SN | Cat. # YG |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 25 x 3 | PTGY253AS | PTGN253AS | PTBN253AS | PTWT253AS | PTSN253AS | PTYG253AS |

*Available in 50 Meter Roll

BARE COPPER STRANDED CONDUCTORS

These Bare Copper Stranded Conductors are Soft Drawn, and used in Earthing and Lightning Protection system.

Soft Drawn Copper BS: 6360

| Conductor Size mm ² | No. of Stranding / Wire Dia. mm | Cat. # |
|--------------------------------|---------------------------------|----------|
| 6 | 7/1.04 | BCSC6S |
| 10 | 7/1.4 | BCSC10S |
| 16 | 7/1.7 | BCSC16S |
| 25 | 7/2.14 | BCSC25S |
| 35 | 7/2.52 | BCSC35S |
| 50 | 19/1.78 | BCSC50S |
| 70 | 19/2.14 | BCSC70S |
| 95 | 19/2.52 | BCSC95S |
| 120 | 37/2.03 | BCSC120S |
| 150 | 37/2.25 | BCSC150S |
| 185 | 37/2.52 | BCSC185S |
| 240 | 61/2.52 | BCSC240S |

PVC COVERED COPPER CONDUCTORS


These are similar to Bare Copper Stranded Conductors and are Soft Drawn and covered with PVC Yellow Green which resembles grounding conductor, and used in Earthing and Lightning Protection system.

 Soft Drawn Copper BS: 6360

| Conductor Size mm ² | No. of Stranding / Wire Dia. mm | Cat. # |
|--------------------------------|---------------------------------|---------|
| 16 | 7/1.7 | YGC16S |
| 25 | 7/2.14 | YGC25S |
| 35 | 7/2.52 | YGC35S |
| 50 | 19/1.78 | YGC50S |
| 70 | 19/2.14 | YGC70S |
| 95 | 19/2.52 | YGC95S |
| 120 | 37/2.03 | YGC120S |
| 150 | 37/2.25 | YGC150S |
| 185 | 37/2.52 | YGC185S |
| 240 | 61/2.25 | YGC240S |
| 300 | 61/2.52 | YGC300S |
| 400 | 61/2.85 | YGC400S |

SOLID CIRCULAR CONDUCTORS

These Solid Circular Conductors are used in Lightning Protection application, these are available both Bare as well as PVC covered.

 Copper BS EN: 13601 (Before BS: 1432 C101 / C103)

| Material | Size | mm ² | Coil Size Mtr | Cat. # |
|--------------|------|-----------------|---------------|--------|
| Bare Copper | 8 | 50 | 50 | SCC8S |
| PVC - Copper | 8 | 50 | 50 | PSCC8S |

 Black  Grey  Stone  Brown  White

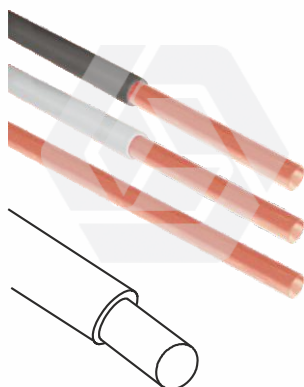
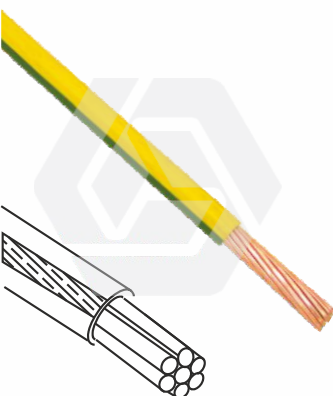
* Colour with the order

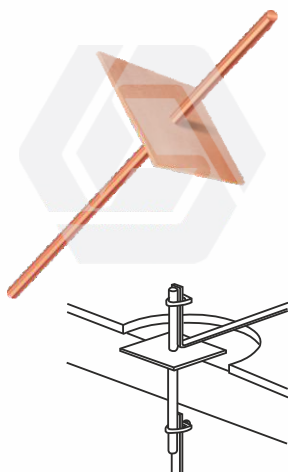
FLEXIBLE COPPER BRAIDS

SPEEDWELL Flexible Copper Braids are suitable for earth bonding of Fences, Gates, Doors, Etc..where flexibility is required or the bond is subject to movements. Other materials, sizes and types of braid can be made to order.

 High Conductivity Copper BS: 4109 C101

| Overall Size (AxB) mm | Size mm ² | Standard Coil Size | Cat. # Bare | Cat. # Tinned |
|-----------------------|----------------------|--------------------|-------------|---------------|
| 12 x 1 | 6 | 100Mtr | FCB121S | FCB121TS |
| 15 x 1.5 | 10 | 100Mtr | FCB1515S | FCB1515TS |
| 19 x 2.5 | 16 | 100Mtr | FCB1925S | FCB1925TS |
| 25 x 3.5 | 35 | 100Mtr | FCB2535S | FCB2535TS |
| 32 x 6 | 70 | 50Mtr | FCB326S | FCB326TS |
| 50 x 6 | 150 | 50Mtr | FCB506S | FCB506TS |

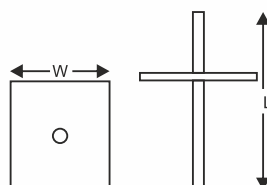




PUDDLE FLANGE

The Puddle Flange is used where the lightning conductors must pass through a waterproof membrane in roofs. The Flats are made waterproof by applying Glue, Cement, specialized roofing materials.

 Copper



| Conductor | L | W | Cat. # |
|-----------|-----|-----|---------|
| Copper | 600 | 150 | PF6015S |



ANTI VANDAL GUARD

These are used to cover the down conductors for extra protection against accidental damage and the Galvanization gives a long lasting corrosion resistance.

 Galvanised Mild Steel





| Conductor Size mm | Size mm L x W x H | Cat. # |
|-------------------|-------------------|----------|
| 25 x 3 | 2000 x 60 x 15 | AVG2532S |
| 25 x 3 | 3000 x 60 x 15 | AVG2533S |

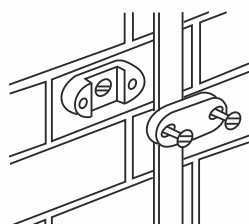


DC TAPE CLIP

SPEEDWELL Metallic DC Clips are used to secure the flat conductor to the building. It is recommended to use DC Clips at 1 Mtr. distance. The Tape fits into the clip and is secured by two countersunk screws. These clips can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 plugs.

 Body - Gunmetal Screws - Naval Brass

 BS EN 50164-1:2000 (5Nm.)

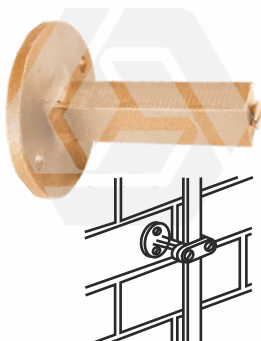


Bare Copper

| Conductor Size mm | Cat. # | Conductor Size mm | Cat. # |
|-------------------|----------|-------------------|----------|
| 20 x 3 | DCTC203S | 38 x 3 | DCTC383S |
| 25 x 3 | DCTC253S | 38 x 6 | DCTC386S |
| 25 x 6 | DCTC256S | 40 x 5 | DCTC405S |
| 28 x 5 | DCTC285S | 40 x 6 | DCTC406S |
| 30 x 2 | DCTC302S | 50 x 3 | DCTC503S |
| 30 x 5 | DCTC305S | 50 x 6 | DCTC506S |
| 30 x 6 | DCTC306S | | |
| 31 x 3 | DCTC313S | | |
| 31 x 6 | DCTC316S | | |


PVC Covered Copper

| Conductor Size mm | Cat. # |
|-------------------|----------|
| 25 x 3 | DCTC286S |

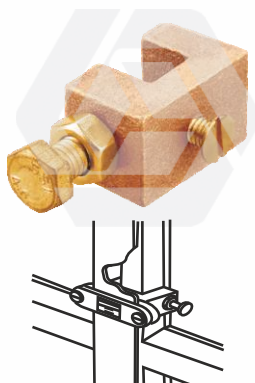


BACK PLATE HOLDFAST STEM

These are used where the tape is to be secured away from the building surface and these are used with appropriate DC Clips.

 Body - Gunmetal Screws - Naval Brass

| Item | Cat. # |
|---------------------------|----------|
| Back plate hold fast stem | BPHFS01S |

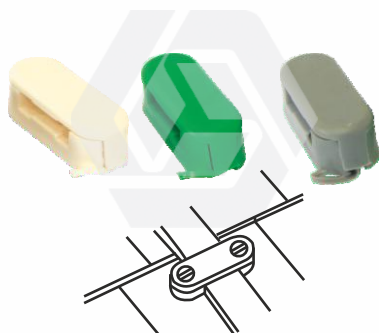


GLAZING BAR HOLD FAST

SPEEDWELL Glazing Bar Holdfast can be used to secure DC Clip onto any projection or extension like steel frames, girders, Angles, window frames, etc..

 Body - Gunmetal Fasteners - Naval Brass

| Maximum Glazing Bar Width | Cat. # |
|---------------------------|---------|
| 12 mm | GBHF01S |



NON METALLIC DC TAPE CLIP

SPEEDWELL Non-Metallic DC Tape clips are made from high grade polypropylene and UV stabilized to prevent degradation or braking in cold weather, the unique locking design provides easy installation and rigid pull off loads. These can also be used for bare copper tapes.

 Nylon

Bare Tape

| Conductor Size mm | Tape Type | Cat. # |
|-------------------|-------------|-----------|
| 25 x 3 | Bare Copper | NMDTC253S |
| 25 x 6 | Bare Copper | NMDTC256S |
| 40 x 6 | Bare Copper | NMDTC406S |
| 50 x 3 | Bare Copper | NMDTC503S |
| 50 x 6 | Bare Copper | NMDTC506S |

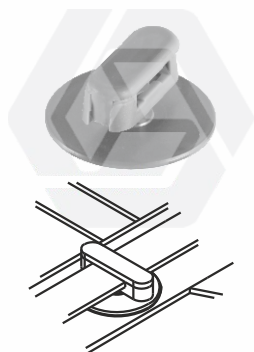
PVC Covered Tape

| Conductor Size mm | Tape Type | Cat. # |
|-------------------|-------------|------------|
| 25 x 3 | PVC Covered | NMDTC253PS |

Black
 Grey
 Stone

 Brown
 White
 Green

 * Colour with the order



GLUE DOWN DC TAPE CLIP

Glue down DC tape clip is ideal to secure conductors to surfaces that cannot be penetrated by screw and can be used on all surfaces with suitable adhesive to that surface. Manufactured from high grade plastic and UV stabilized.

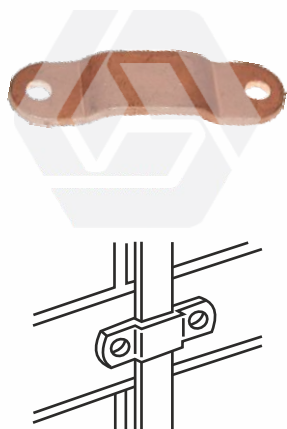
Bare Tape

| Conductor | Color | Cat. # |
|-----------|-------|---------|
| 25 x 3 mm | Brown | GDB253S |
| 25 x 3 mm | Grey | GDG253S |

PVC Covered Tape

| Conductor | Color | Cat. # |
|-----------|-------|----------|
| 25 x 3 mm | Brown | GDBP253S |
| 25 x 3 mm | Grey | GDGP253S |

To order Self-Adhesive DC tape clip, please change suffix 'S' with 'SS'



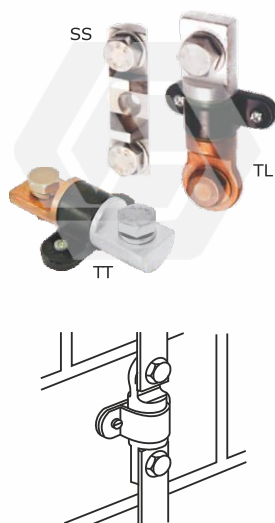
TAPE CLIP

These are used to flush the tape with the building surface. These are fixed using two screws and plugs.

Copper

BS EN 50164-1:2000 (12 Nm.)

| Conductor Size mm | Material | Cat. # |
|-------------------|----------|---------|
| 25 x 3 | Copper | TCC253S |
| 25 x 6 | Copper | TCC256S |
| 50 x 3 | Copper | TCC503S |
| 50 x 6 | Copper | TCC506S |



BI-METALLIC CONNECTOR - TAPE TO TAPE

SPEEDWELL Bi-Metallic Connectors are used to connect Aluminum Tape to Copper Tape, In order to prevent dissimilar contact and avoid galvanic action it is always recommended to use Aluminum Copper Bi-Metallic connectors

Body - Aluminum and Copper or Stainless Steel
 Bolts - Copper, SS

BS EN 50164-1:2000 (15 Nm.)

| Tape Size mm | Cat. # |
|--------------------------|----------|
| 25 x 3 - Cu to 25 x 3 Al | BMTL253S |
| 25 x 3 - Cu to 25 x 3 Al | BMTT253S |
| 25 x 3 - 25 x 3 | SSTL253S |



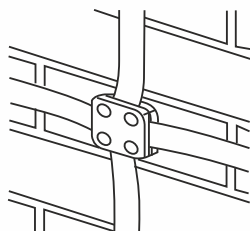
SQUARE TAPE CLAMP

SPEEDWELL Square tape / Junction Clamps are used for crossing over tapes or or for T joints or for making straight through Joints in a network of Tapes.

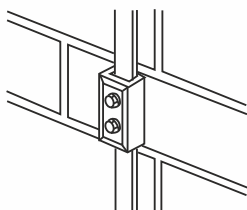
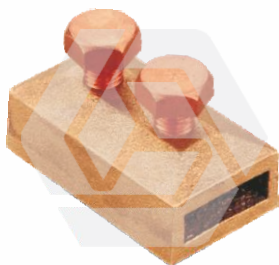
These camps can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 plugs.

Body - Gunmetal Screws - Naval Brass

BS EN 50164-1:2000 (5Nm)





| Conductor Size mm | Cat. # | Conductor Size mm | Cat. # |
|-------------------|----------|-------------------|----------|
| 25 x 3 | SQTC253S | 38 x 3 | SQTC383S |
| 25 x 6 | SQTC256S | 38 x 6 | SQTC386S |
| 28 x 5 | SQTC285S | 40 x 5 | SQTC405S |
| 30 x 2 | SQTC302S | 40 x 6 | SQTC406S |
| 31 x 3 | SQTC313S | 50 x 3 | SQTC503S |
| 31 x 6 | SQTC316S | 50 x 6 | SQTC506S |



OBLONG TEST OR JUNCTION CLAMP

SPEEDWELL Oblong Test / Junction Clamps are used for straight through tape joints and also used for disconnecting the earthing or Lightning protection system for testing purpose. The tapes can be overlapped and secured by two bolts.

 Body - Gunmetal Bolts - Silicon Bronze, Phosphor Bronze, SS

 BS EN 50164-1:2000 (13 Nm)

| Conductor Size mm | Cat. # | Conductor Size mm | Cat. # |
|-------------------|----------|-------------------|----------|
| 25 x 3 | TOJC253S | 40 x 5 | TOJC405S |
| 25 x 6 | TOJC256S | 40 x 6 | TOJC406S |
| 31 x 3 | TOJC313S | 50 x 3 | TOJC503S |
| 31 x 6 | TOJC316S | 50 x 6 | TOJC506S |
| 38 x 3 | TOJC383S | | |
| 38 x 6 | TOJC386S | | |

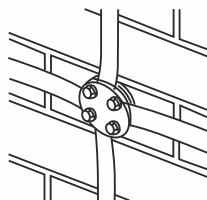



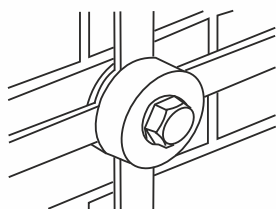
PLATE TYPE TEST CLAMPS

SPEEDWELL Plate Type Test Clamps are used as T or straight through joints of tapes. These Test clamps can also used as disconnecting joint between the down conductors and the earthing system. The clamp is also suitable in heavy duty applications upto 26 x 12 Tape connection.

 Body - Gunmetal Fasteners - Naval Brass, Silicon Bronze, Phosphor Bronze, SS

 BS EN 50164-1:2000 (15 Nm.)

| Max. Conductor Size mm | Cat. # |
|------------------------|----------|
| 26 x 12 | PTC2612S |



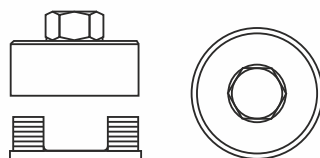
SCREW DOWN TEST CLAMP

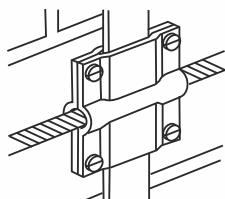
These Clamps provide easy access to copper tapes for inspection or testing. The heavy duty lid easily screws on/off the base. Due to easy operation these are not suitable near the ground or with in easy reach of public for security reasons.

| Max. Conductor Size mm | Cat. # |
|------------------------|----------|
| 26 x 8 | SDTC268S |

 Gunmetal

 BS EN 50164-1:2000 (20 Nm.)






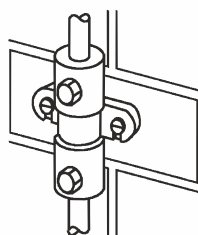
MULTI PURPOSE CLAMPS

SPEEDWELL Multi Purpose clamps are suitable for crossing over Tapes and Cables. These clamps are used to make straight through and T joints in a continuous network.

 Body - Gunmetal Bolts - Silicon Bronze, Phosphor Bronze, SS

 BS EN 50164-1:2000 (7 Nm.)


| Conductor mm | Tape | Cat. # |
|-----------------------|--------|------------|
| 8 dia. or 35 - 50 sq. | 25 x 3 | MPC253550S |
| 10 dia. or 70 -95 sq. | 25 x 3 | MPC257095S |



BI METALLIC CONNECTORS - CABLE TO CABLE

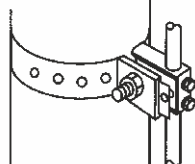
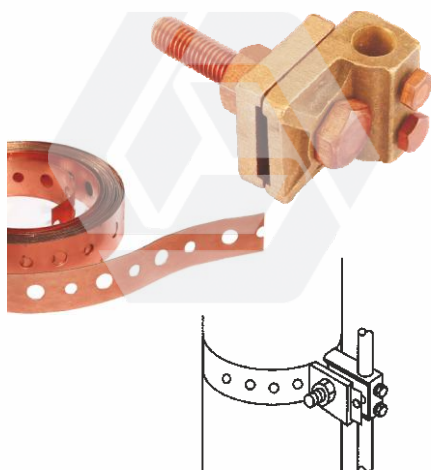
SPEEDWELL Bi-Metallic Connectors are used to connect Aluminum Lightning Protection system to Copper earthing network, In order to prevent dissimilar contact and avoid galvanic action it is always recommended to use Aluminum Copper Bi-Metallic galvanic action it is always recommended to use Aluminum Copper Bi-Metallic connectors.

The cable can be connected directly into the connector.

 Body - Aluminum and Copper Bolts - Copper, SS


 BS EN 50164-1:2000 (15 Nm.)

| Conductor mm | Cat. # |
|-----------------------|-----------|
| 8 dia. or 35 - 50 sq. | BIMC3550S |



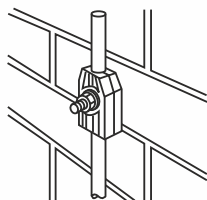
PIPE BOND

These Pipe Bond is used for bonding Handrails, reinforced bars, pipes, with solid conductors.

 Body - Gunmetal Fasteners - Silicon Bronze, Phosphor Bronze, SS


 BS EN 50164-1:2000 (12 Nm.)


| Conductor mm | Tape | Cat. # |
|-----------------------|-------------|--------|
| 8 dia. or 35 - 50 sq. | 50 x 200 mm | PBC8S |



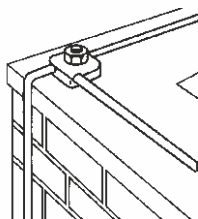
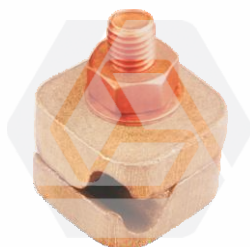
INTERFACE TEST AND JUNCTION CLAMP

SPEEDWELL Junction Clamps are suitable to form straight through joints of Copper Tape to circular conductor or cable for disconnecting or test purpose.

 Body - Gunmetal Fasteners - Silicon Bronze, Phosphor Bronze, SS


 BS EN 50164-1:2000 (12 Nm.)


| Conductor mm | Tape Width mm | Cat. # |
|------------------------|---------------|----------|
| 8 dia. or 35 - 50 sq. | 25 | TJC3550S |
| 10 dia. or 70 - 95 sq. | 25 | TJC7095S |



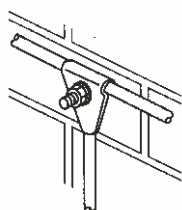
SQUARE CLAMP

These clamps are suitable for forming cross or tee Jointing.

 Body - Gunmetal Fasteners - Silicon Bronze, Phosphor Bronze, SS

 BS EN 50164-1:2000 (12 Nm.)

| Conductor mm | Cat. # |
|------------------------|----------|
| 8 dia. or 35 - 50 sq. | SCC3550S |
| 10 dia. or 70 - 95 sq. | SCC7095S |



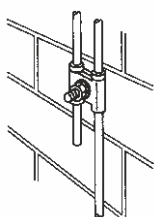
TEE CLAMP

These Tee Clamps are suitable for forming tee joints of circular conductors.

 Body - Gunmetal Fasteners - Silicon Bronze, Phosphor Bronze, SS


 BS EN 50164-1:2000 (12 Nm.)

| Conductor mm | Cat. # |
|------------------------|----------|
| 8 dia. or 35 - 50 sq. | TCC3550S |
| 10 dia. or 70 - 95 sq. | TCC7095S |
| 120 sq. | TCC120S |



JOINTING CLAMP

SPEEDWELL Jointing Clamps are used for forming straight through joints of circular conductors.

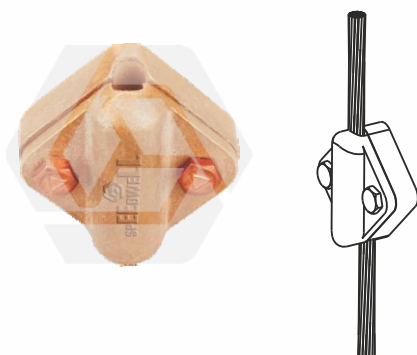
 Body - Gunmetal Fasteners - Silicon Bronze, Phosphor Bronze, SS

 BS EN 50164-1:2000 (12 Nm.)

| Conductor mm | Cat. # |
|------------------------|----------|
| 8 dia. or 35 - 50 sq. | JCC3550S |
| 10 dia. or 70 - 95 sq. | JCC7095S |
| 120 | JCC120S |

TEST CLAMP

SPEEDWELL Test Clamp is for end to end joints of circular conductors.



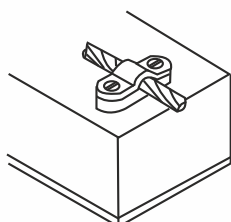
 Body - Gunmetal Bolts - Silicon Bronze, Phosphor Bronze, SS

 BS EN 50164-1:2000 (12 Nm.)


| Conductor Size mm ² | Cat. # |
|--------------------------------|---------|
| 35-50 | TC3550S |
| 70-95 | TC7095S |
| 120 | TC120S |

HEAVY DUTY CAST CABLE SADDLE

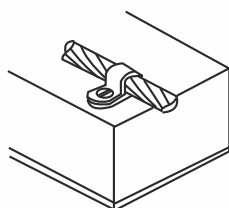
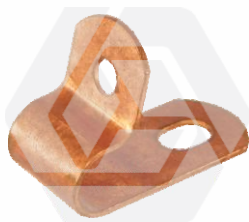
SPEEDWELL Heavy Duty Cast Cable Saddle can be used in many application. These can be used as a support for 10mm dia. Air rod or as a Heave duty Clip for Round conductors. These can be used in conjunction with Glazing bar holdfast and Back plate holdfast stem.



 Body - Gunmetal Screws - Naval Brass

 BS EN 50164-1:2000 (5Nm.)

| Conductor size mm ² | Cat. # | Conductor size mm ² | Cat. # |
|--------------------------------|-----------|--------------------------------|----------|
| 35 - 50 | HDCS3550S | 185 | HDCS185S |
| 70 - 95 | HDCS7095S | 240 | HDCS240S |
| 120 | HDCS120S | 300 | HDCS300S |
| 150 | HDCS150S | 400 | HDCS400S |

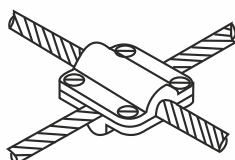


ONE HOLE CLIP

SPEEDWELL One Hole Clips can be used for fixing Cables and round conductors. These are supplied in open position for easy installation.


 Copper


| Conductor Size mm ² | Cat. # | Conductor Size mm ² | Cat. # |
|--------------------------------|---------|--------------------------------|---------|
| 25 | OHC25S | 185 | OHC185S |
| 35 | OHC35S | 240 | OHC240S |
| 50 | OHC50S | 300 | OHC300S |
| 70 | OHC70S | 400 | OHC400S |
| 95 | OHC95S | 500 | OHC500S |
| 120 | OHC120S | 630 | OHC630S |
| 150 | OHC150S | | |



SQUARE CONDUCTOR CLAMP

SPEEDWELL Square Conductor Clamp are used for forming straight, Through, Cross or T Joints in Cables and round conductors.

 Body - Gunmetal Fasteners - Naval Brass

 BS EN 50164-1:2000 (6 Nm)

| Conductor size mm ² | Cat. # |
|--------------------------------|-----------|
| 35 - 50 | HQCS3550S |
| 70 - 95 | HQCS7095S |
| 120 | HQCS120S |



METALWORK BONDING CLAMP

These one piece Metalwork Bonding Clamp is designed for bonding round conductors to the metal surfaces. The bond can be fastened by bolts and nuts or by welding onto the metal surface, and then the conductor is fixed.

 Body - Copper Bolts - Silicon Bronze, Phosphor Bronze, SS

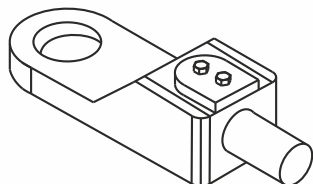
| Conductor Dia mm | Cat. # |
|-----------------------|--------|
| 8 dia. or 35 - 50 sq. | MBC8S |



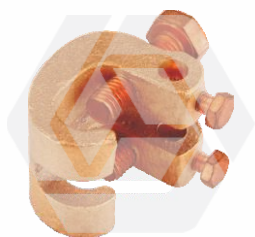
CABLE SOCKETS

Speedwell Cable Sockets are used to bonding copper conductor to steel work or meal surface.

 Gunmetal



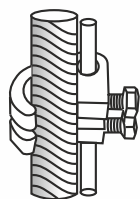
| Conductor mm | Palm Hole Dia mm | Set Screw | Cat. # |
|------------------------|------------------|-----------|---------|
| 8 dia. or 35 - 50 sq. | 12 | M6 x 12 | CS3550S |
| 10 dia. or 70 - 95 sq. | 12 | M6 x 12 | CS7095S |



RE-BAR CLAMP

SPEEDWELL Re-Bar clamps are suitable for bonding circular conductors to reinforced bars, steam pipes, hand rails, etc..

 Body - Gunmetal Bolts - Silicon Bronze, Phosphor Bronze, SS



| Conductor mm | Re-Bar Dia | Cat. # |
|-----------------------|------------|----------|
| 8 dia. or 35 - 50 sq. | 8 - 18 mm | RBC818S |
| 8 dia. or 35 - 50 sq. | 18 - 38 mm | RBC1838S |



DENSO TAPE

This is a waterproof tape for wrapping joints to provide protection against corrosion.

 Petroleum base natural compound on a fiber carrier.

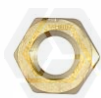
| Item | Pack | Cat. # |
|------------|------|---------|
| Denso Tape | Roll | DST100S |



HEX HEAD SET SCREWS

Naval Brass, Silicon Bronze, Phosphor Bronze, SS

| Size mm | Naval Brass Cat. # | Silicon Bronze Cat. # | Phosphor Bronze Cat. # | SS Cat. # |
|---------|--------------------|-----------------------|------------------------|-----------|
| 08 x 25 | NB0825S | SB0825S | PB0825S | SS0825S |
| 10 x 25 | NB1025S | SB1025S | PB1025S | SS1025S |
| 10 x 35 | NB1035S | SB1035S | PB1035S | SS1035S |
| 12 x 35 | NB1235S | SB1235S | PB1235S | SS1235S |



HEXAGON NUTS

Naval Brass, Silicon Bronze, Phosphor Bronze, Stainless Steel.

| Size mm | Naval Brass Cat. # | Silicon Bronze Cat. # | Phosphor Bronze Cat. # | SS Cat. # |
|---------|--------------------|-----------------------|------------------------|-----------|
| 8 | NNB08S | NSB08S | NPB08S | NSS08S |
| 10 | NNB10S | NSB10S | NPB10S | NSS10S |
| 12 | NNB12S | NSB12S | NPB12S | NSS12S |



COUNTERSUNK SET SCREWS

Naval Brass

| Size mm | Cat. # |
|---------|---------|
| 4 x 6 | SNB406S |
| 4 x 8 | SNB408S |
| 5 x 8 | SNB508S |
| 5 x 10 | SNB510S |
| 6 x 30 | SNB630S |



FLAT HEAD RIVETS

Copper

| Size mm | Cat. # | Size mm | Cat. # |
|---------|----------|---------|----------|
| 5 x 8 | FHRC508S | 5 x 20 | FHRC520S |
| 5 x 10 | FHRC510S | 6 x 12 | FHRC612S |
| 5 x 12 | FHRC512S | 6 x 15 | FHRC615S |
| 5 x 15 | FHRC515S | 6 x 20 | FHRC620S |



PLAIN / FLAT WASHERS

Naval Brass, Phosphor Bronze, Stainless Steel.

| Size mm | Naval Brass Cat. # | Phosphor Bronze Cat. # | SS Cat. # |
|---------|--------------------|------------------------|-----------|
| 6 | FWNB06S | FWPB06S | FWSS06S |
| 8 | FWNB08S | FWPB08S | FWSS08S |
| 10 | FWNB10S | FWPB10S | FWSS10S |
| 12 | FWNB12S | FWPB12S | FWSS12S |



SPRING WASHERS

Phosphor Bronze, Stainless Steel.

| Size mm | Naval Brass Cat. # | Phosphor Bronze Cat. # | SS Cat. # |
|---------|--------------------|------------------------|-----------|
| 6 | SWNB06S | SWPB06S | SWSS06S |
| 8 | SWNB08S | SWPB08S | SWSS08S |
| 10 | SWNB10S | SWPB10S | SWSS10S |
| 12 | SWNB12S | SWPB12S | SWSS12S |



PLASTIC WALL PLUGS

Plastic

| Size mm | Cat. # |
|---------|--------|
| 10 | PWP10S |
| 12 | PWP12S |



ROUND HEAD NAILS

Copper

| Size mm | Cat. # |
|---------|--------|
| 25 | RHN25S |
| 35 | RHN35S |
| 50 | RHN50S |



COUNTERSUNK WOOD SCREWS

Naval Brass, Stainless Steel.

| Size mm | Naval Brass Cat. # | SS Cat. # |
|---------|--------------------|-----------|
| 25 x 8 | WSNB2508S | WSSS2508S |
| 30 x 8 | WSNB3008S | WSSS3008S |
| 30 x 10 | WSNB3010S | WSSS3010S |
| 35 x 10 | WSNB3510S | WSSS3510S |
| 35 x 12 | WSNB3512S | WSSS3512S |
| 45 x 10 | WSNB4510S | WSSS4510S |
| 45 x 12 | WSNB4512S | WSSS4512S |

ELECTRICAL

| | | | |
|--|--|---|---|
|  |  |  |  |
| CABLE GLAND KITS | BRASS CABLE GLAND - CW 4 PART | BRASS CABLE GLAND - A1-A2 TYPE | BRASS WIPING GLAND |
|  |  |  |  |
| BRASS MALE / FEMALE ADAPTOR | BRASS MALE / FEMALE REDUCER | BRASS MALE BUSH | BRASS END PLUG |
| | | |  |
| | | | BRASS LOCK NUT NICKEL PLATED BRASS LOCK NUT |
|  |  | | |
| BRASS FLEXIBLE CONDUIT CONNECTOR | PVC COATED GALVANIZED STEEL FLEXIBLE CONDUIT GALVANIZED STEEL FLEXIBLE CONDUIT PVC CORRUGATED FLEXIBLE CONDUIT | | |
|  | | | |
| PANEL BOARD HINGES | | | |
|  | |  | |
| NEUTRAL, EARTH LINK, BLOCK, TERMINAL & CONNECTORS | | WIDE PALM WITH 4 HOLES CABLE LUGS - LONG BARREL LONG PALM WITH 2 HOLES COPPER FERRULES TUBULAR CABLE LUGS PIN TYPE | |
|  | | | |
| PANEL BOARD LOCK AND KEY ROUND DOUBLE BIT TYPE TRIANGLE TYPE SQUARE TYPE | | | |
|  | | | |
| DIN RAILS, MOUNDING, TERMINAL BLOCKS, INSULATOR AND COPPER BUSH | | | |

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| A | | CBER1424S | 9 | DCTC305S | 33 | ERS161S | 13 | HDCS150S | 39 | PTWT253S | 30 | SCEP603S | 13 | SWPB12S | 42 | | | | |
| ATBH810S | 28 | CBER1612S | 9 | DCTC306S | 33 | ERS162S | 13 | HDCS185S | 39 | PTYG253AS | 31 | SCEP615S | 13 | SWSS06S | 42 | | | | |
| ATBT10S | 26 | CBER1615S | 9 | DCTC313S | 33 | ERS201S | 13 | HDCS240S | 39 | PTYG253S | 30 | SCEP903S | 13 | SWSS08S | 42 | | | | |
| ATBT105S | 26 | CBER1618S | 9 | DCTC316S | 33 | ERS202S | 13 | HDCS300S | 39 | PUB01S | 17 | SCEP915S | 13 | SWSS10S | 42 | | | | |
| ATBT16S | 26 | CBER1624S | 9 | DCTC383S | 33 | ERS341S | 13 | HDCS400S | 39 | PUB02S | 17 | SCER1212S | 10 | SWSS12S | 42 | | | | |
| ATBT165S | 26 | CBER1630S | 9 | DCTC386S | 33 | ERS342S | 13 | HDCS3550S | 39 | PUB03S | 17 | SCER1215S | 10 | | | T | | | |
| ATBT34S | 26 | CBER2012S | 9 | DCTC405S | 33 | ERS581S | 13 | HDCS7095S | 39 | PUB04S | 17 | SCER1218S | 10 | TAR1003S | 26 | | | | |
| ATBT345S | 26 | CBER2015S | 9 | DCTC406S | 33 | ERS582S | 13 | HQCS120S | 40 | PUB05S | 17 | SCER1224S* | 10 | TAR1005S | 26 | | | | |
| ATBT58S | 26 | CBER2018S | 9 | DCTC503S | 33 | EYB12S | 20 | HQCS3550S | 40 | PUB06S | 17 | SCER1230S* | 10 | TAR1008S | 26 | | | | |
| ATBT585S | 26 | CBER2024S | 9 | DCTC506S | 33 | EYB16S | 20 | HQCS7095S | 40 | PUB112S | 17 | SCER1412S | 10 | TAR1605S | 26 | | | | |
| ATBV810S | 28 | CBER2030S | 9 | DH15S | 11 | EYB20S | 20 | | | PUB12S | 17 | SCER1415S | 10 | TAR1605SS | 26 | | | | |
| AVG2532S | 33 | CBTR1412S | 8 | DH20S | 11 | | | I | | PUB212S | 17 | SCER1418S | 10 | TAR1610S | 26 | | | | |
| AVG2533S | 33 | CBTR1415S | 8 | DS14S | 9 | F | | ICDB10S | 11 | PUB34S | 17 | SCER1424S* | 10 | TAR1610SS | 26 | | | | |
| | | CBTR1418S | 8 | DS16S | 9 | FCB121S | 32 | ICDS10S | 11 | PWP10S | 42 | SCER1430S* | 10 | TAR1612S | 26 | | | | |
| BAT253S | 31 | CBTR1424S* | 8 | DS20S | 9 | FCB150S | 23 | J | | PWP12S | 42 | SCER1512S | 10 | TAR1612SS | 26 | | | | |
| BAT256S | 31 | CBTR1430S* | 8 | DSE15S | 11 | FCB150TS | 23 | JCC120S | 39 | | | SCER1515S | 10 | TAR1615S | 26 | | | | |
| BAT503S | 31 | CBTR1612S | 8 | DSE20S | 11 | FCB1515S | 32 | JCC3550S | 39 | RBC1520S | 29 | SCER1518S | 10 | TAR1615SS | 26 | | | | |
| BAT506S | 31 | CBTR1615S | 8 | DSI34S | 11 | FCB1515TS | 32 | JCC7095S | 39 | RBC1838S | 41 | SCER1524S* | 10 | TAR1620S | 26 | | | | |
| BB25S | 20 | CBTR1618S | 8 | DSI58S | 11 | FCB1925TS | 32 | K | | RBC818S | 41 | SCER1530S* | 10 | TAR1620SS | 26 | | | | |
| BCB20S | 14 | CBTR1624S* | 8 | DST100S | 41 | FCB200S | 23 | KCHS | 23 | RCC1670S | 29 | SCER1612S | 10 | TAR1630S | 26 | | | | |
| BCB25S | 14 | CBTR1630S* | 8 | | | FCB200TS | 23 | CP1142S | 18 | RCC1695S | 29 | SCER1615S | 10 | TAR1630SS | 26 | | | | |
| BCSC10S | 31 | CBTR2012S | 8 | E | | FCB250TS | 23 | KP121S | 18 | RCC3470S | 29 | SCER1618S | 10 | TC3550S | 39 | | | | |
| BCSC120S | 31 | CBTR2015S | 8 | EB10S | 24 | FCB250S | 23 | KP2124S | 18 | RCC3495S | 29 | SCER1624S* | 10 | TC7095S | 39 | | | | |
| BCSC150S | 31 | CBTR2018S | 8 | EB12S | 24 | FCB250TS | 23 | | | RCC5870S | 29 | SCER1630S* | 10 | TC120S | 39 | | | | |
| BCSC16S | 31 | CBTR2024S* | 8 | EB14S | 24 | FCB2535S | 32 | M | | RCC5895S | 29 | SCER1912S | 10 | TC120S | 38 | | | | |
| BCSC185S | 31 | CBTR2030S* | 8 | EB16S | 24 | FCB2535TS | 32 | MBC8S | 40 | RCCG16S | 15 | SCER1915S | 10 | TC25 3S | 35 | | | | |
| BCSC240S | 31 | CBTR2524S* | 8 | EB18S | 24 | FCB300S | 23 | MPA16S | 27 | RCCG16S | 15 | SCER1918S | 10 | TCC256S | 35 | | | | |
| BCSC25S | 31 | CBTR2530S* | 8 | EB20S | 24 | FCB300TS | 23 | MPA34S | 27 | RCCG20S | 15 | SCER1924S* | 10 | TCC3550S | 38 | | | | |
| BCSC35S | 31 | CBUR1412S | 8 | EB22S | 24 | FCB326S | 32 | MPB16S | 27 | RCCG25S | 15 | SCER1930S* | 10 | TCC50 3S | 35 | | | | |
| BCSC50S | 31 | CBUR1415S | 8 | EB24S | 24 | FCB326TS | 32 | MPB34S | 27 | RCCG31S | 15 | SCER2012S | 10 | TCC506S | 35 | | | | |
| BCSC6S | 31 | CBUR1418S | 8 | EB26S | 24 | FCB400S | 23 | MPB58S | 27 | RCLCB1220S | 15 | SCER2015S | 10 | TC7095S | 38 | | | | |
| BCSC70S | 31 | CBUR1424S* | 8 | EB28S | 24 | FCB400TS | 23 | MPC253550S | 37 | RHN25S | 42 | SCER2018S | 10 | TCEBS | 23 | | | | |
| BCSC95S | 31 | CBUR1430S* | 8 | EB3030S | 20 | FCB506S | 32 | MPC257095S | 37 | RHN35S | 42 | SCER2024S* | 10 | TCT253S | 30 | | | | |
| BCT121S | 30 | CBUR1612S | 8 | EB3030SS | 20 | FCB506TS | 32 | MPT16SS | 26 | RHN50S | 42 | SCER2030S* | 10 | TCT256S | 30 | | | | |
| BCT123S | 30 | CBUR1615S | 8 | EB3040S | 20 | FHRC508S | 42 | MWB01S | 19 | RS16S | 28 | SCERE1612S | 10 | TCT503S | 30 | | | | |
| BCT1201S | 30 | CBUR1618S | 8 | EB30S | 24 | FHRC510S | 42 | N | | RS34S | 28 | SCERE2012S | 10 | TC506S | 30 | | | | |
| BCT203S | 30 | CBUR1624S* | 8 | EB4040S | 20 | FHRC512S | 42 | NB0825S | 42 | RS58S | 28 | SDTC268S | 36 | TECD120S | | | | | |
| BCT251S | 30 | CBUR1630S* | 8 | EB4040SS | 20 | FHRC515S | 42 | NB1025S | 42 | RTC16 25S | 29 | SERS | 21 | TECD185S | 19 | | | | |
| BCT253S | 30 | CBUR2012S | 8 | EB4S | 24 | FHRC520S | 42 | NB1035S | 42 | RTC3425S | 29 | SERS100S | 21 | TECD240S | 19 | | | | |
| BCT254S | 30 | CBUR2015S | 8 | EB5050S | 20 | FHRC612S | 42 | NB1235S | 42 | RTC5825S | 29 | SERS150S | 21 | TECD70S | 19 | | | | |
| BCT256S | 30 | CBUR2018S | 8 | EB5050SS | 20 | FHRC615S | 42 | NMDTC253PS | 34 | RTCA25S | 15 | SERS300S | 21 | TECS120S | 19 | | | | |
| BCT302S | 30 | CBUR2024S* | 8 | EB6S | 24 | FHRC620S | 42 | NMDTC253S | 34 | RTCA31S | 15 | SERS50S | 21 | TECS185S | 19 | | | | |
| BCT303S | 30 | CBUR2030S* | 8 | EB8S | 24 | FSC5070S | 28 | NMDTC256S | 34 | RTCA38S | 15 | SNB406S | 42 | TECS240S | 19 | | | | |
| BCT304S | 30 | CBUR2524S* | 8 | EBEH12S | 12 | FSC95S | 28 | NMDTC406S | 34 | RTCA50S | 15 | SNB408S | 42 | TECS70S | 19 | | | | |
| BCT305S | 30 | CBUR2530S* | 8 | EBEH5S | 12 | FWNB06S | 42 | NNB08S | 42 | RTCE22525S | 16 | SNB508S | 42 | TJC3550S | 38 | | | | |
| BCT313S | 30 | CC101510S | 22 | EBEH7S | 12 | FWNB08S | 42 | NNB10S | 42 | RTCE22550S | 16 | SNB510S | 42 | TJC7095S | 38 | | | | |
| BCT316S | 30 | CC129515S | 22 | EBIP12S | 12 | FWNB10S | 42 | NNB10S | 42 | RWPB25S | 18 | SNB630S | 42 | TOJC253S | 36 | | | | |
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| BCT405S | 30 | CC181524S | 22 | EBL122S | 24 | FWSS06S | 42 | NSB10S | 42 | SBC006S | 22 | SQT316S | 35 | TOJC406S | 36 | | | | |
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| BP150S | 21 | CC503570S | 22 | EBL202S | 24 | GCR58* | 15 | OHC70S | 40 | SBC120S | 22 | SS1025S | 42 | WSNB3008S | 42 | | | | |
| BP1S | 21 | CC503570S | 22 | EBL221S | 24 | GDB253S | 34 | OHC95S | 40 | SBC150S | 22 | SS1035S | 42 | WSNB3010S | 42 | | | | |
| BP2100S | 21 | CC705095S | 22 | EBL222S | 24 | GDGP253S | 34 | OHC120S | 40 | SBC185S | 22 | SS1235S | 42 | WSNB3510S | 42 | | | | |
| BP2150S | 21 | CC705095S | 22 | EBL241S | 24 | GDG253S | 34 | OHC150S | 40 | SBC240S | 22 | SSITR1512S | 11 | WSNB3512S | 42 | | | | |
| BP2300S | 21 | CC951625S | 22 | EBL242S | 24 | GDGP253S | 34 | OHC185S | 40 | SBC300S | 22 | SSITR1530S | 11 | WSNB4510S | 42 | | | | |
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| BP4100S | 21 | CH14S | 9 | EBL281S | 24 | GU01S | 17 | OHC400S | 40 | SCC3550S | 38 | SSITR2012S | 11 | WSSS3008S | 42 | | | | |
| BP4300S | 21 | CH16S | 9 | EBL282S | 24 | GU02S | 17 | OHC500S | 40 | SCC7095S | 38 | SSITR2030S | 11 | WSSS3010S | 42 | | | | |
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| BP4S | 21 | CIP3030S | 12 | EBL302S | 24 | GU04S | 17 | | | SCCL 12S | 16 | SSPR1430S* | 11 | WSSS3512S | 42 | | | | |
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