



# TOTAL PROTECTION IN EVERY CONNECTION



[www.speedwellindia.com](http://www.speedwellindia.com)



# SPEEDWELL<sup>®</sup>

COMMITTED TO EXCELLENCE

— Since 1982 —



CASTING  
GROUNDING



FORGING  
LIGHTNING



EXTRUSION  
ELECTRICAL



MACHINING  
TRANSMISSION



TOTAL PROTECTION IN  
EVERY CONNECTION

Since 1982





## About us

Welcome to Speedwell Group of companies, a leading Indian manufacturer of high-quality electrical engineering products and solutions. Speedwell was established in the year **1982** in Jamnagar, India - with a mission to serve the global electrical engineering industry with quality products, leveraging on our competencies in casting, forging, extrusion, and stamping processes.

With three decades of a rich learning curve, Speedwell was all geared up to take the next orbit and hence established a State-Of-The-Art Manufacturing plant in the industrial hub of Rajkot to process Copper, Bronze, Brass, Aluminum, and Steel. We serve Power & Utility, Construction, Infrastructure, and Oil & gas markets across the **Americas, Middle East, Asia Pacific, and Africa.**

Our "Customer First" Philosophy, coupled with our unequivocal commitment to quality, has reaped us rewards & awards over the last few decades. .

### System Certifications

ISO-9001: 2015  
ISO-14001: 2015  
ISO 45001: 2018

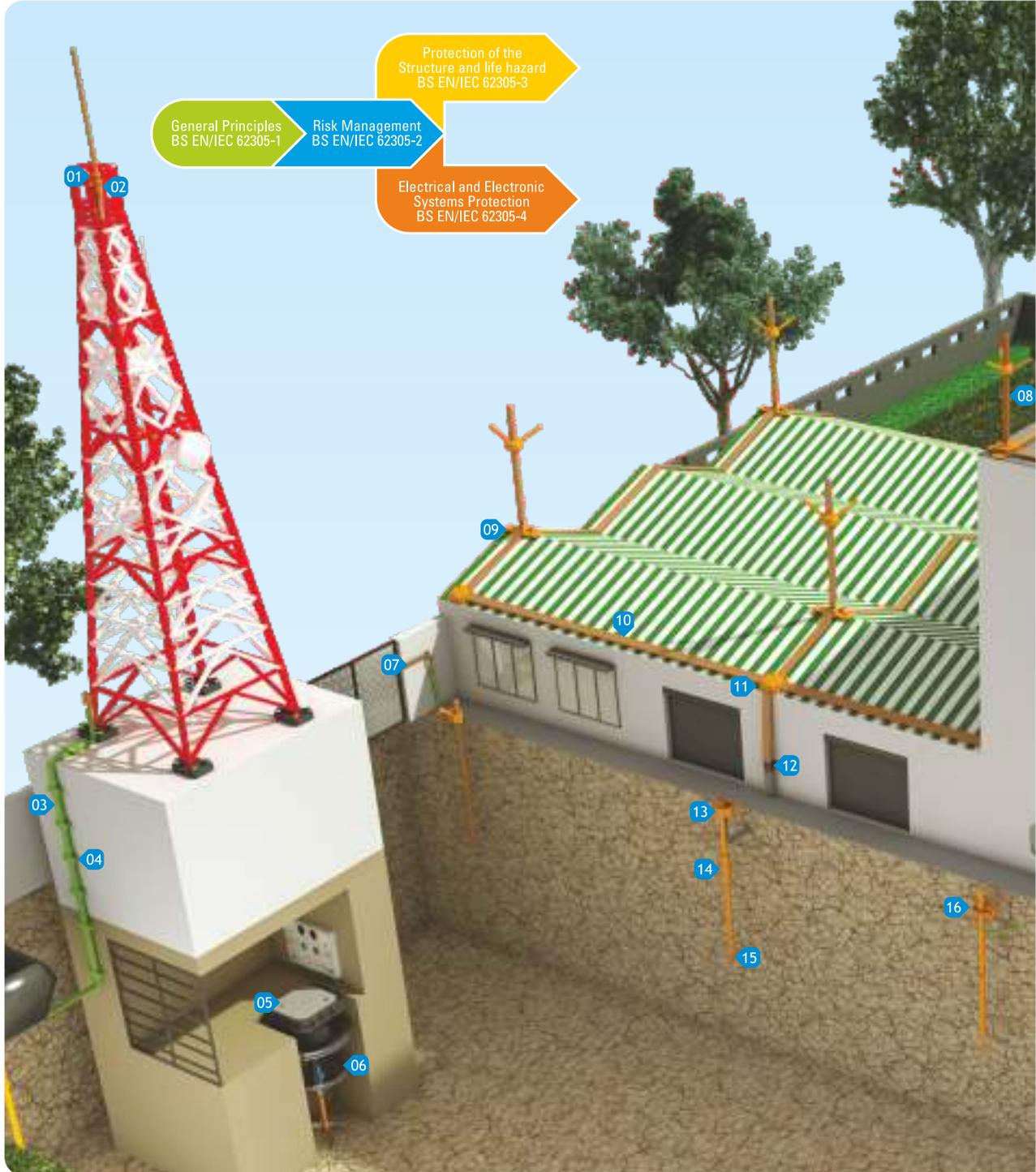
### Product Certifications / Compliance

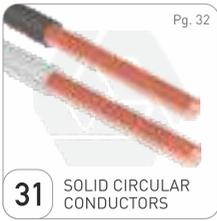
IEC / BS EN: 62305  
IEC / BS EN 62561  
UL / CUL  
IEEE

Our constant endeavor for innovation, strengthened by our backward integrated manufacturing plants, has empowered us to be the most preferred manufacturer of choice for several marque OEMs, Utilities, and EPC contractors, thanks to our high-quality & cost-effective products & solutions tailored to their requirements. We manufacture the following Products & Solutions:

- **Earthing / Grounding Products**
- **Lightning Protection Solutions**
- **Cable Glands**
- **Lugs & Terminals**
- **Power & Utility Connectors**
- **Cable Clamping & Marking Systems**

Our dedicated team of engineering & manufacturing talents is equipped and eager to serve you with our products and services to meet your requirements!





## BS EN /IEC 62305 : The System Standard :

IEC 62305 is the apex design standard that mandates the standards for lightning protection integrating conventional lightning protection systems adopting a holistic design philosophy, which considers the incoming services as well to the structure. BS EN/IEC 62305 specifies a single integrated system of earth termination for structure by taking into consideration power, telecommunication, and other service lines along with direct lightning protection requirements to include protection against transient electrical surges or overvoltage's

The BS EN/IEC 62305 is a progressive evolution of the scientific inquiry and understanding that has been developed by academia and practitioners in the field of lightning over the last two decades. The impact and influence of the Electronics and the high technology ecosystem that permeates our daily lives and infrastructure are considered in this updated standard's design parameters. It includes four distinct parts – general principles, risk management, physical damage to buildings and life hazards, and electronic system protection.

The standard is further classified into four parts that provide guidelines and a regulatory framework for the design and installation required to engineer a Lightning Protection System with necessary grounding / earthing considerations.

### **Part 1: General Principles**

The first part serves as an introductory guide to the rest of the standard. It introduces the types and sources of damage that need to be evaluated, and the types or risks of loss that can be expected as a result. The standard also defines the relationships between loss and damage that are used to calculate the risk assessment in part 2. The parameters of lightning currents are defined. These parameters are used to determine the protection measures that should be implemented in parts 3 and 4. Part 1 of this standard introduces a number of new concepts to be considered when preparing a scheme for lightning protection, including Lightning Protection Zones (LPZs), and separation distance

### **Part 2: Risk Management**

The risk management approach BS EN/IEC 62305-2 (part 2) shifts its core focus beyond the physical damage caused to a structure by a lightning strike, but rather on the risks of loss of life, loss to the public service, loss to cultural heritage, and economic loss.

### **Part 3: Physical Damage to Structures and Life Hazard**

BS EN/IEC 62305-3(part 3) is directly related to the major part of BS 6651. This new part differs from BS 6651 as it has four classes of protection levels for LPS as opposed to just two (ordinary and High-Risk) in BS 6651.

### **Part 4: Electrical and Electronic Systems within Structures**

This part prescribes the protection of electrical and electronic systems enclosed within structures. It captures the same information as Annex C of BS 6651, but with a unique zoned approach called Lightning Protection Zones. It provides information for the design, installation, maintenance & testing of a Lightning Electromagnetic Impulse (LEMP) protection system (now referred to as Surge Protection Measures - SPM) for electrical/electronic systems within a structure.

## IEC 62561 : The Product Testing Standard

Lightning protection system components standards in IEC 62561 summarizes the test requirements for Lightning Protection System Components - LPSC as described in the new IEC 62561 series. In particular it summarizes the test procedure and pass requirements for connection components used in a Lightning Protection System - LPS such as lightning conductor clamps, bonding & earthing clamps, bridging components, pipe clamps, equipotential bonding bars as described in the forthcoming IEC 62561-1 standard. The reader may understand the entire test method including the sample preparation procedure, the ageing - environmental tests, the electrical & mechanical tests as well as the final pass criteria.

### **IEC 62561-1 : Lightning protection system components (LPSC) – Part 1: Requirements for connection components**

This part of IEC 62561 specifies the requirements and tests for metallic connection components that form part of a lightning protection system (LPS). Typically, these can be connectors, clamps, bonding and bridging components, expansion pieces, and test joints.

For the purposes of this document, the following connection types are considered as connection components: exothermic, brazing, welding, clamping, crimping, seaming, screwing, or bolting.

### **IEC 62561-2 : Lightning protection system components (LPSC) – Part 2: Requirements for conductors and earth electrodes**

IEC 62561-2:2018 specifies the requirements and tests for:

- a) metallic conductors (other than "natural" conductors) that form part of the air-termination and down-conductor systems,
- b) metallic earth electrodes that form part of the earth-termination system.

### **IEC 62561-3 : Lightning protection system components (LPSC) – Part 2: Requirements for Isolating Spark Gaps**

This part of IEC 62561 specifies the requirements and tests for isolating spark gaps (ISG) for lightning protection systems. ISGs can be used to indirectly bond a lightning protection system to other nearby metalwork where a direct bond is not permissible for functional reasons.

### **IEC 62561-4 : Lightning protection system components (LPSC) - Part 4: Requirements for conductor fasteners**

IEC 62561-4:2017 deals with the requirements and tests for metallic and non-metallic conductor fasteners that are used to retain and support the air-termination, down-conductor and earth-termination systems.

**IEC 62561-5:2017: Lightning protection system components (LPSC) - Part 5: Requirements and tests for earth electrode inspection housings (earth housing) and for earth electrode seals.**

This part of IEC 62561 specifies the requirements and tests for earth electrode inspection housings (earth housing) installed in the earth and for earth electrode seals. This part covers all materials of earth pits such as metallic, polymeric, and concrete.

**IEC 62561-6:2023: Lightning protection system components (LPSC) - Part 6: Requirements for lightning strike counters (LSCs)**

IEC 62561-6:2023 specifies the requirements and tests for devices intended to count the number of lightning strikes based on the current flowing in a conductor. This conductor can be part of a lightning protection system (LPS) or connected to an SPD installation or other conductors, which are not intended to conduct a significant portion of lightning currents

**IEC 62561-7: Lightning protection system components (LPSC) - Part 7 : Requirements for earthing enhancing compounds**

The above standards specify the requirements and tests for earth enhancement compounds to achieve the desirable resistance as per the design requirements of the earthing system. The standard mandates that the compounds should be chemically inert to prevent any risk of soil contamination. The compounds must provide chemical and physical stability to achieve design values of resistivity.

**QUALITY APPROVAL CERTIFICATES**



ISO 9001



ISO 14001



ISO 45001



## Speedwell Advantage



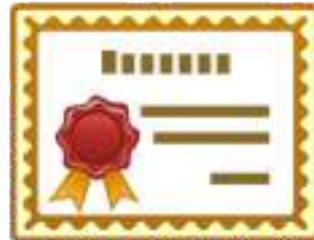
**Customer Centricity**



**Integrated Manufacturing**



**Track Record of 4 Decades**



**Global Certifications**



**Solution Mindset**



**Project & OEM Approvals**



# 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 - 250 Micron**

Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper, these earth rods conform to BS 4360. 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.

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 (0.250 mm). This thickness

enables to perform the thread after copper bonding, so as the bottom of the thread is covered with copper.



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**Adherence of coating:** is tested in order to check whether the coating hasn't a tendency to separation when he 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.



**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*
23.2	1200	CBUR2512S
23.2	1500	CBUR2515S
23.2	1800	CBUR2518S
23.2	2400	CBUR2524S*
23.2	3000	CBUR2530S*

**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*
23.2	1200	1"	CBTR2512S
23.2	1500	1"	CBTR2515S
23.2	1800	1"	CBTR2518S
23.2	2400	1"	CBTR2524S*
23.2	3000	1"	CBTR2530S*



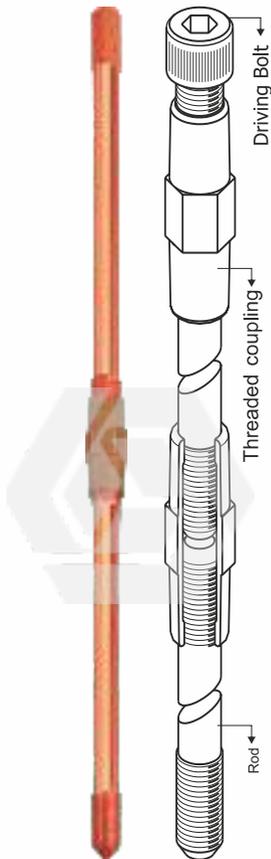
IEC / BS EN 62561 -2

\*UL Listed

\*UL Listed

**Material : High Tensile Low carbon steel core with minimum 254 microns of copper**





### COPPER BONDED EARTH ROD - 100 MICRON

Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper, these earth rods conform to BS 4360. 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.

#### 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



IEC / BS EN 62561 - 2

**Material : High strength copper alloy**



### 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

**Material : High Tensile Forled steel**



**SOLID COPPER EARTH ROD (Externally threaded)**

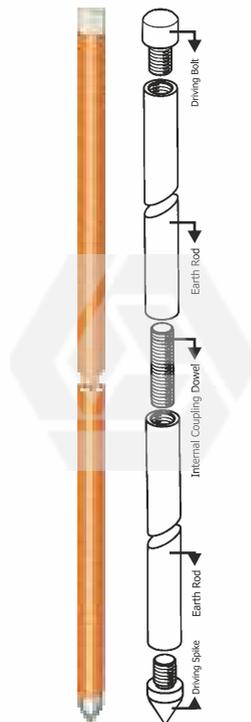
SPEEDWELL offers pure copper earth rods for use where extreme soil condition such as high salt or moisture content demands high corrosion resistance and exceptionally long life of rods. SPEEDWELL Solid Copper Earth Rods are made from high conductivity hard drawn copper to BS2874 C101. Threads are formed 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
14.2	1500	5/8"	SCERE2015S
14.2	1800	5/8"	SCERE2018S
14.2	2400	5/8"	SCERE2024S
14.2	3000	5/8"	SCERE2030S
17.2	1200	3/4"	SCERE1612S
17.2	1500	3/4"	SCERE2015S
17.2	1800	3/4"	SCERE2018S
17.2	2400	3/4"	SCERE2024S
17.2	3000	3/4"	SCERE2030S
23.2	1200	1"	SCERE1612S
23.2	1500	1"	SCERE2015S
23.2	1800	1"	SCERE2018S
23.2	2400	1"	SCERE2024S
23.2	3000	1"	SCERE2030S



**IEC 62561 - 2**

**Material : Copper to BS 13601**



**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	20	1200	M10	SCER2012S
14	1500	M10	SCER1415S	20	1500	M10	SCER2015S
14	1800	M10	SCER1418S	20	1800	M10	SCER2018S
14	2400	M10	SCER1424S*	20	2400	M10	SCER2024S*
14	3000	M10	SCER1430S*	20	3000	M10	SCER2030S*
15	1200	M10	SCER1512S	25	1200	M10	SCER2512S
15	1500	M10	SCER1515S	25	1500	M10	SCER2515S
15	1800	M10	SCER1518S	25	1800	M10	SCER2518S
15	2400	M10	SCER1524S*	25	2400	M10	SCER2524S*
15	3000	M10	SCER1530S*	25	3000	M10	SCER2530S*

\*UL Listed

\*UL Listed



**IEC / 62561 - 2**

**Material : Copper to BS EN 13601**

## 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. They are highly resistant to corrosion. These rods are manufactured from austenitic stainless steel to BS 970, GRADE 304 / 316 L.

### UNTHREADED

Rod Dia mm	Length mm	Cat. #
12.7	2400	SSUR1424S*
12.7	3000	SSUR1430S*
14.2	2400	SSUR1624S*
14.2	3000	SSUR1630S*
17.2	2400	SSUR2024S*
17.2	3000	SSUR2030S*
23.2	1200	SSUR2512S
23.2	3000	SSUR2530S

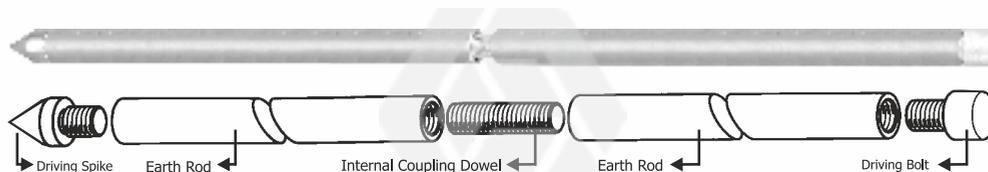
\*UL Listed (SS 304)

### 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*
23.2	1200	1"	SSTR2512S
23.2	3000	1"	SSTR2530S

### 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
25	1200	M12	SSITR2512S
25	3000	M12	SSITR2530S



**Material :Stainless steel to BS EN 1d088**

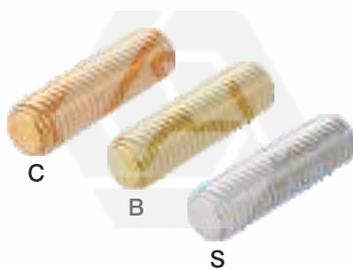


### DRIVING HEAD

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
M12	25	DH25S

**Material : Hardened 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
M12	ICDB12S	ICDC12S	ICDS12S

**Material :**  
**1) High strength copper alloy**  
**2) Copper**  
**3) 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.

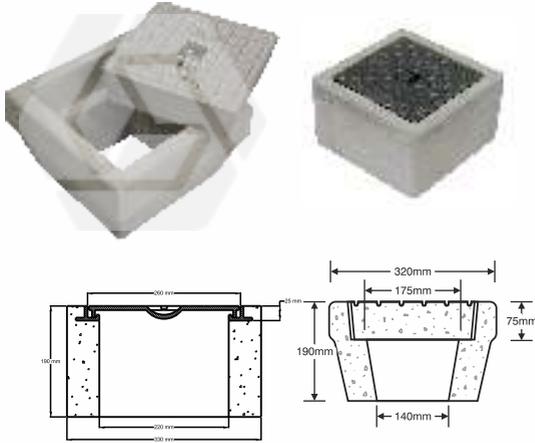
Thread Dia	OD mm	Cat. # External	Thread Dia	OD mm	Cat. # Internal
M8	13	DSE13S	5/8"	20	DSI58S
M10	15	DSE15S	3/4"	25	DSI34S
M10	20	DSE20S	1"	30	DSI01S
M12	25	DSE25S			

**Material : Hardened steel**

**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	Cover	Cat. #
Concrete Inspection Pit	320x320x190mm	Concrete	CIP3030S
Concrete Inspection Pit	330x320x190mm	Cast Iron	CIP3030SS
Concrete Inspection Pit	500x500x500mm	Concrete	CIP5050S



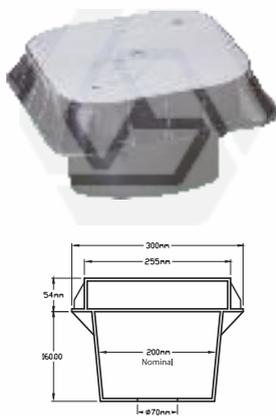
**IEC / BS EN 62561 - 5**

**Material : Concrete**

**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.

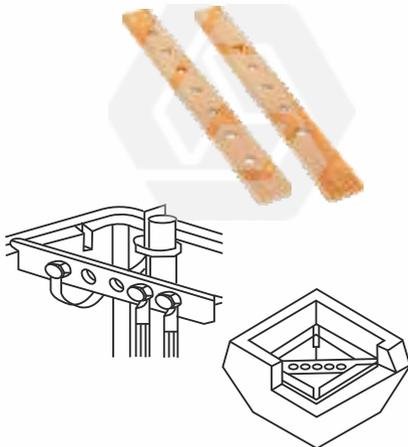


Description	Wt.	Cat. #
Earth Housing	2 kg.	EH3030S

**Material :Polypropylene**

**EARTH BARS**

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

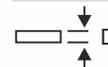
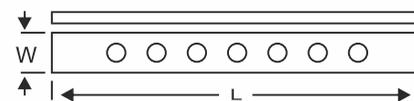


**FOR INSPECTION PIT**

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



**IEC / BS EN 62561 - 1**

**Material :Copper to BS EN 13601**

### 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.

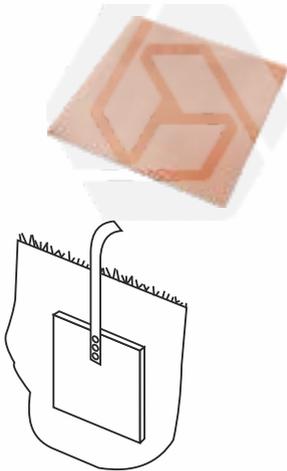


Description	Earth Rod Type	Cat. # Single Flange	Cat. # Double Flange
Earth Rod Seals	15mm Ø	ERS151S	ERS152S
Earth Rod Seals	16mm Ø	ERS161S	ERS162S
Earth Rod Seals	20mm Ø	ERS201S	ERS202S
Earth Rod Seals	5/8" UNC	ERS581S	ERS582S
Earth Rod Seals	3/4" UNC	ERS341S	ERS342S

**Material : Plastic**

### EARTH PLATE

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



#### 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

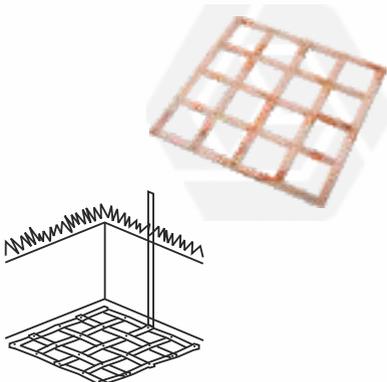
#### COPPER BONDED EARTH PLATES

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

**Material : Copper to BS EN 12163**

### EARTH LATTICE

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



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

**Material : Copper to BS EN 13601**

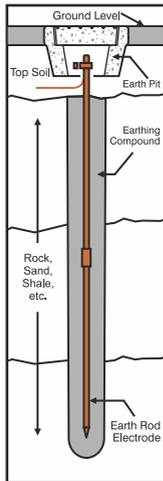
**LOW-RESISTANCE EARTHING COMPOUND**



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



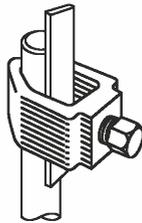
**BENTONITE**

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.

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



**IEC / BS EN 62561 - 1 Material : High Strength Copper Alloy**



### ROD TO CABLE CLAMP - TYPE 'G'

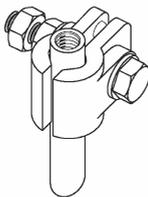
Rod Dia mm	Conductor Range mm <sup>2</sup>	Cat. #
12.7	16-70	RCCG16S
14.2	16-70	RCCG16S
17.2	35-95	RCCG20S
20.0	50-150	RCCG25S
25.0	70-240	RCCG31S

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*



**IEC / BS EN 62561 - 1**

**Material : High Strength Copper Alloy**



### ROD TO CABLE LUG CLAMP - TYPE 'B'

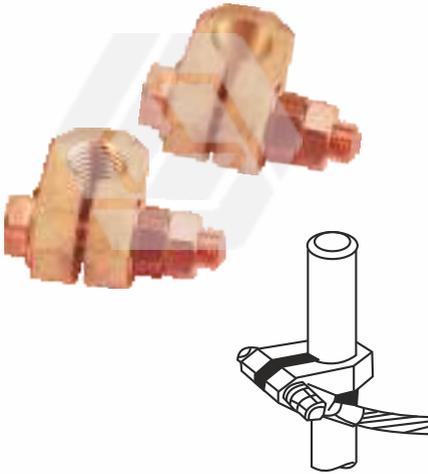
SPEEDWELL clamps are used to connect cable lug to earth rod.

Rod Dia mm	Cat. #
12 -20	RCLCB1220S

**Material : High Strength Copper Alloy**

### SPLIT CONNECTOR CLAMP - TYPE 'L'

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



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		

**Material :High Strength Copper Alloy**

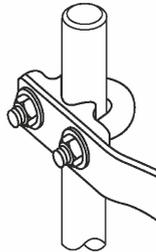
### U BOLT ROD CLAMP - TYPE 'E1'

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



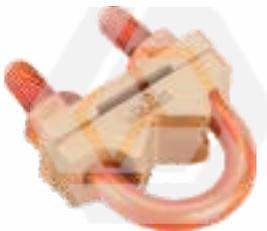
Rod Dia mm	Tape width mm	Cat. #
15 - 25	25 - 50	UBRCE25S

**Material :High Strength Copper Alloy**



### ROD TO TAPE CLAMP - TYPE 'E2'

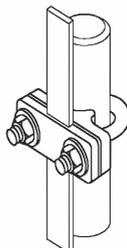
These clamps are used to connect tape to the earth rod. This clamp is provided with additional plate to fix the tape in vertical position also.



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

 **IEC / BS EN 62561 - 1**

**Material : High Strength Copper Alloy**





**ROD TO CABLE CLAMP - TYPE 'GUV'**

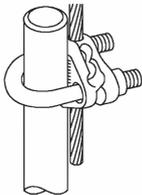
Heavy Duty Copper Alloy Double Plate Clamps are suitable for connecting Earth Rod with stranded Cables / round conductors.

Rod Dia mm	Conductor Range mm <sup>2</sup>	Cat. #
15 - 25	35-185	GUV20185S
16 - 25	150-300	GUV25300S



**IEC / BS EN 62561 - 1**

**Material : High Strength Copper Alloy**



**U BOLT PIPE TO CABLE CLAMP - TYPE 'GU'**

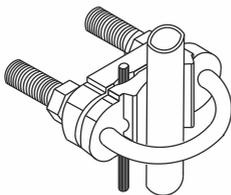
These 'U' Bolt Pipe to Cable Clamp are used for two universal parallel or 90° connection of cable to pipe. It is also used for fence post grounding connection

Pipe Dia.	Conductor Range mm <sup>2</sup>	Cat. #	Pipe Dia.	Conductor Range mm <sup>2</sup>	Cat. #
1/2"	35-95	GU12S	2½"	35-95	GU212S
3/4"	35-95	GU34S	3"	35-95	GU03S
1"	35-95	GU01S	4"	35-95	GU04S
1½"	35-95	GU112S	5"	35-95	GU05S
2"	35-95	GU02S	6"	35-95	GU06S



**IEC / BS EN 62561 - 1**

**Material : High Strength Copper Alloy**

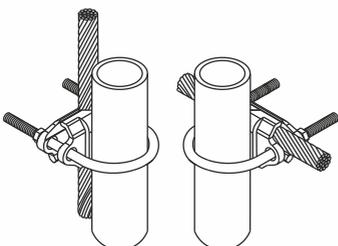


**U BOLT PIPE TO CABLE CLAMP - TYPE 'PUB'**

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

Pipe Dia.	Conductor Range mm <sup>2</sup>	Cat. #	Pipe Dia.	Conductor Range mm <sup>2</sup>	Cat. #
1/2"	35-95	PUB12S	2½"	35-95	PUB212S
3/4"	35-95	PUB34S	3"	35-95	PUB03S
1"	35-95	PUB01S	4"	35-95	PUB04S
1½"	35-95	PUB112S	5"	35-95	PUB05S
2"	35-95	PUB02S	6"	35-95	PUB06S

**Material : High Strength Copper Alloy**

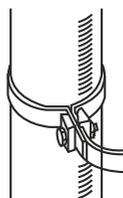




**RWP BOND**

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

Tape Width mm	Bolt Size	Cat. #
25.0	M10	RWPB25S



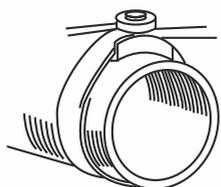
**Material : High Strength Copper Alloy**



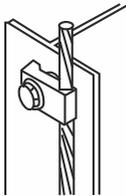
**WATERMAIN PIPE BOND**

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.

Tape Width mm	Cat. #
25.0	WMPB256S



**Material : High Strength Copper Alloy**

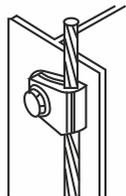


**TOWER EARTH CLAMP SINGLE PLATE**

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

Conductor Size mm <sup>2</sup>	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

**Material : High Strength Copper Alloy**

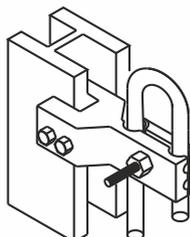


**TOWER EARTH CLAMP DOUBLE PLATE**

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

Conductor Size mm <sup>2</sup>	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

**Material : High Strength Copper Alloy**

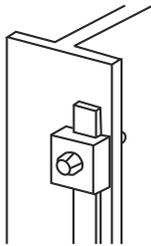


**METALWORK BOND**

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

Conductor Size mm <sup>2</sup>	Bolt Size	Cat. #
35 - 50	M10	MWB01S

**Material : High Strength Copper Alloy**

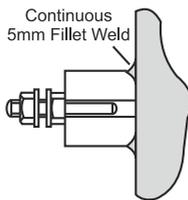


**B BOND**

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

Tape Width mm	Bolt Size	Cat. #
25	M10	BB25S

**Material : High Strength Copper Alloy**



**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.

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
30	40	10 x 50	EB3040S	30	40	10 x 50	EB3040SS
40	40	10 x 50	EB4040S	40	40	10 x 50	EB4040SS
40	80	10 x 60	EB4080S	50	50	10 x 60	EB5050SS
40	150	10 x 60	EB40150S				
50	50	10 x 60	EB5050S				

**Material : Mid steel 55316**



**EYE BOLT**

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

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

**Material : High Strength Copper Alloy**



**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 mm<sup>2</sup> yellow green pvc coated stranded cable which are pre welded by exothermic welding method.

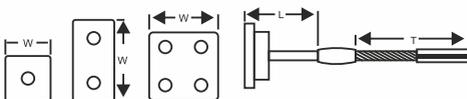
**BONDING POINT WITH TAIL**

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
4	80	64	-	BP4S
	80	64	500	BP450S
	80	64	1000	BP4100S
	80	64	3000	BP4300S

**BONDING POINT FOR TAPE**

No. Of Holes	L	W	T	Cat. #
1	80	54	-	BPTS
	80	54	500	BPT250S
2	80	54	1000	BPT2100S
	80	54	1500	BPT2150S
	80	54	3000	BPT2300S

**Material : High Strength Copper Alloy**

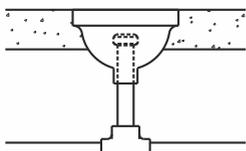


**STATIC EARTH RECEPTACLE**

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

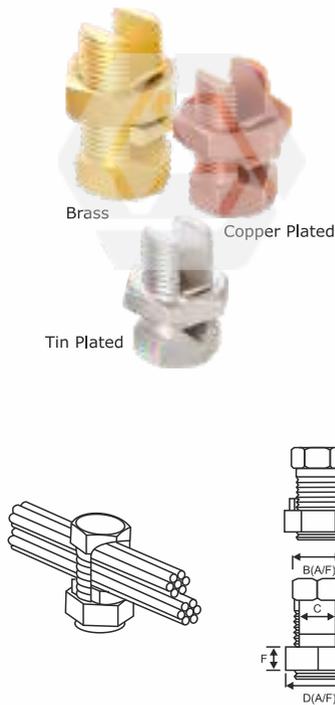
These receptacles are used in open areas or any where a temporary earthing point may be required such as airfields or petrol stations.

These are also available with welded tails of different length.



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

**Material : High Strength Copper Alloy**

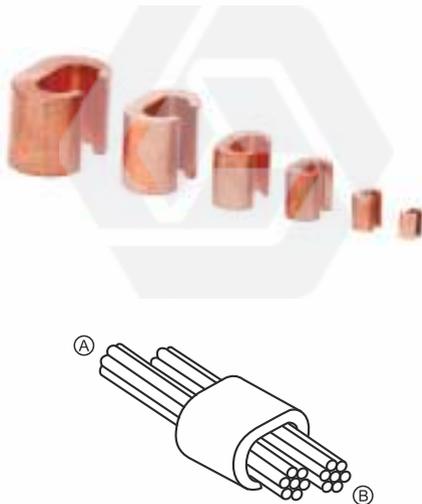


### SPLIT BOLT CONNECTORS / LINE TAPS

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

Size mm <sup>2</sup>	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

**Material : High Strength Copper Alloy**



### 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.

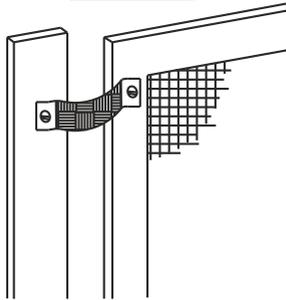
Main Conductor (A)	Tap Conductor (B)	Cat. #
10	1.5 - 10	CC101510S
16	4 - 16	CC160416S
25	4 - 10	CC250410S
25	16 - 25	CC251635S
35	10 - 16	CC351016S
35	25 - 35	CC352535S
50	16 - 25	CC501625S
50	35 - 50	CC503570S
70	25 - 35	CC702535S
70	50 - 70	CC705070S
95	16 - 25	CC951625S

Main Conductor (A)	Tap Conductor (B)	Cat. #
95	35 - 50	CC953550S
95	70 - 95	CC957095S
120	50 - 70	CC125070S
120	95 - 120	CC129512S
150	70 -95	CC157095S
150	120 - 150	CC151215S
185	95 - 120	CC189512S
185	150 - 185	CC181518S
240	120 - 150	CC241215S
240	185 - 240	CC241824S
300	240 - 300	CC302430S



**IEC / BS EN 62561 - 1**

**Material : ETP Grade copper**



**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.

mm <sup>2</sup>	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

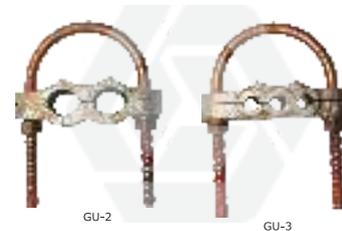
**Material : Copper to BS EN 13602**

**GROUND CLAMP AND BARS**

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



Rod Dia	Conductor Range Sq.mm <sup>2</sup>	Cat. #
2"	35-95	??????



Rod Dia	No. of Conductor	Conductor Sq.mm <sup>2</sup>	Cat. #
2"	2	300	??????
2"	3	70	????

**Material : High Strength Copper Alloy**

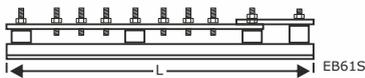
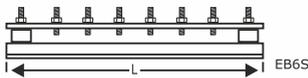
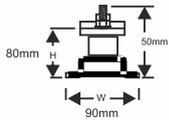
Contact us for information about these and other components



### EARTH BARS AND DISCONNECTING LINKS

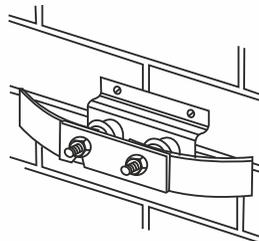
SPEEDWELL Earth Bars are an efficient and convenient solution for providing a common earth point to connect to the main earthing System. Integral disconnecting links are provided for isolation at the time of testing. These Earth Bars come in variety of specifications and sizes to suit different applications,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

Other sizes and variations can be made to order.

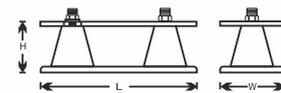


Terminals	W	H	L (Link-0)	Cat. #	L (Link-1)	Cat. #	L (Link-2)	Cat. #
4	90	50	300	EB4S	375	EBL41S	450	EBL42S
6	90	50	400	EB6S	475	EBL61S	550	EBL62S
8	90	50	500	EB8S	575	EBL81S	650	EBL82S
10	90	50	650	EB10S	725	EBL101S	800	EBL102S
12	90	50	750	EB12S	825	EBL121S	900	EBL122S
14	90	50	850	EB14S	925	EBL141S	1000	EBL142S
16	90	50	950	EB16S	1025	EBL161S	1100	EBL162S
18	90	50	1050	EB18S	1125	EBL181S	1200	EBL182S
20	90	50	1200	EB20S	1275	EBL201S	1350	EBL202S
22	90	50	1300	EB22S	1375	EBL221S	1450	EBL222S
24	90	50	1400	EB24S	1475	EBL241S	1550	EBL242S
26	90	50	1500	EB26S	1575	EBL261S	1650	EBL262S
28	90	50	1650	EB28S	1725	EBL281S	1800	EBL282S
30	90	50	1750	EB30S	1825	EBL301S	1900	EBL302S

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



DCL1S



DCL1S

L	W	H	Cat. #
125	50	48	DCL1S

**Material :**  
**Bar : 50 x 6 Harddraw copper to BS EN 13601**  
**Base : Plastic**



# 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.

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



IEC / BS EN 62561 - 2

**Material :**

- 1) Copper to BS EN 13601
- 2) Stainless Steel



### MULTIPOINT - TAPER

Suitable only with copper taper pointed air rods.

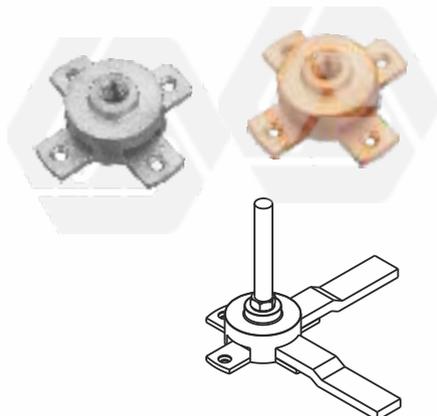
Cat.# Copper	Cat. # SS
MPT16S	MPT16SS



IEC / BS EN 62561 - 2

**Material :**

- 1) Copper to BS EN 13601
- 2) Stainless Steel



### 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.

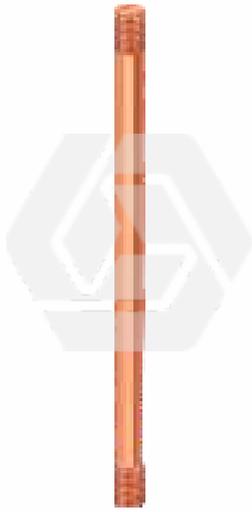
Thread Dia	Max. Tape Conductor	Cat. # Gunmetal	Cat. # SS
10mm	30 x 6 mm	ATBT10S	ATBT10SS
16 mm	30 x 6 mm	ATBT16S	ATBT16SS
5/8"	30 x 6 mm	ATBT58S	ATBT58SS
3/4"	30 x 6 mm	ATBT34S	ATBT34SS



IEC / BS EN 62561 - 1

**Material :**

- 1) High Strength Copper Alloy
- 2) Stainless Steel



### 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.

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)

### MULTIPOINT - THREADED

Suitable only with threaded copper elevation rod.

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

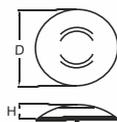
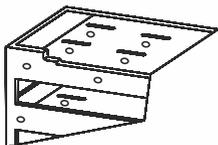
**Material : Copper to BS EN 13601**



### 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 Multistorey 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.

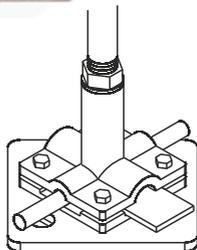


D mm	H mm	Maximum Tape Size	Cat. #
110	20	30 x 6	SP11020S

**Material : High Strength Copper Alloy**

**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.

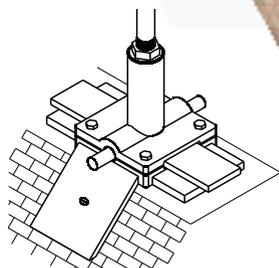


Conductor Size mm	Rod Dia mm	Thread Dia	Cat. #
50 - 70	15	16	FSC5070S
95	15	16	FSC95S

**Material : High Strength Copper Alloy**

**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.

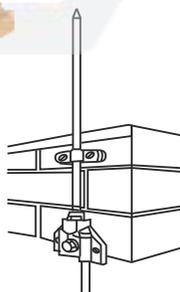
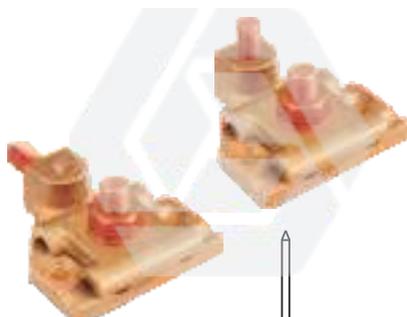


Rod Dia mm	Thread Dia mm	Maximum Tape Size	Cat. #
15.0	M16	30 x 6 mm	RS16S
14.2	5/8"	30 x 6 mm	RS58S
17.2	3/4"	30 x 6 mm	RS34S

**Material : High Strength Copper Alloy**

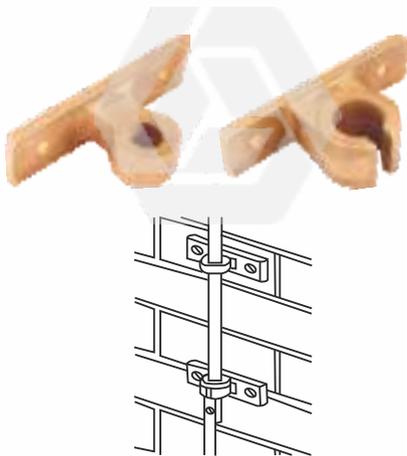
**AIR ROD BASE - CABLE**

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.



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

**Material : High Strength Copper Alloy**



### 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.

Rod Dia mm	Cat. #
15 - 20	RBC1520S

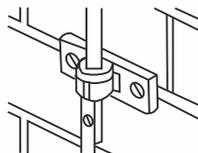
**Material :High Strength Copper Alloy**



### AIR ROD TO TAPE/CABLE COUPLING

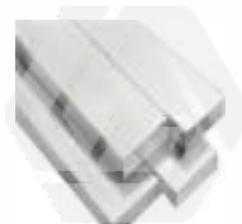
These are used in conjunction with the Rod Brackets. The Air rod is screwed in to the threads provided and the Tape and Cable is secured by the Bolts provided.

The threads are suitable for air rods.



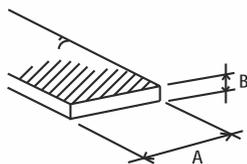
Rod Dia mm	Thread Dia mm	Conductor Dia	Cat. #
15	16	25 x 3mm	RTC1625S
15	16	50 - 70mm <sup>2</sup>	RCC1670S
15	16	95mm <sup>2</sup>	RCC1695S
14.2	5/8"	25 x 3mm	RTC5825S
14.2	5/8"	50 - 70mm <sup>2</sup>	RCC5870S
14.2	5/8"	95mm <sup>2</sup>	RCC5895S
17.2	3/4"	25 x 3mm	RTC3425S
17.2	3/4"	50 - 70mm <sup>2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

**Material : High Strength Copper Alloy**



### 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.

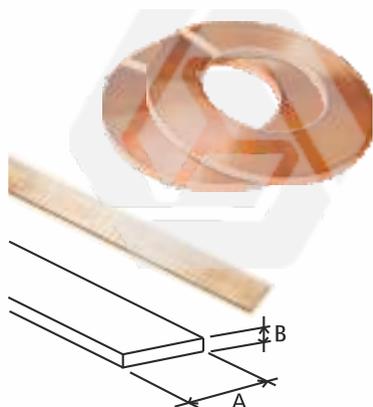


Conductor Size (AxB)mm	Cat. # Bare	Cat. # Tinned	Conductor Size (AxB)mm	Cat. # Bare	Cat. # Tinned
25 x 3	HDCB253S	HDCB253TS	50 x 10	HDCB5010S	HDCB5010TS
25 x 6	HDCB256S	HDCB256TS	70 x 5	HDCB705S	HDCB705TS
30 x 5	HDCB305S	HDCB305TS	75 x 6	HDCB756S	HDCB756TS
30 x 10	HDCB3010S	HDCB3010TS	80 x 5	HDCB805S	HDCB805TS
38 x 6	HDCB386S	HDCB386TS	80 x 6	HDCB806S	HDCB806TS
40 x 5	HDCB405S	HDCB405TS	80 x 10	HDCB8010S	HDCB8010TS
40 x 10	HDCB40106S	HDCB4010TS	100 x 5	HDCB1005S	HDCB1005TS
50 x 5	HDCB505S	HDCB505TS	100 x 6	HDCB1006S	HDCB1006TS
50 x 6	HDCB506S	HDCB506TS	100 x 10	HDCB10010S	HDCB10010TS

**Material : Copper to BS EN 13601**

### 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.



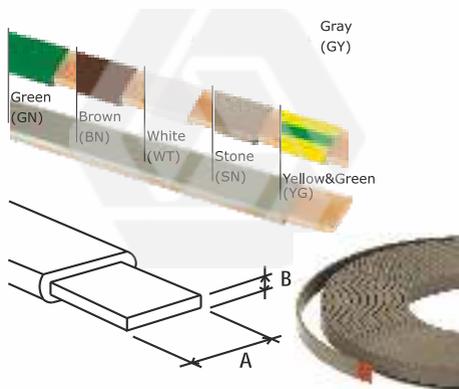
Conductor Size (AxB)mm	Standard Coil Size	Cat. #
12.5 x 1.5	100Mtr	BCT121S
12.5 x 3	100Mtr	BCT123S
20 x 1.5	50Mtr	BCT201S
20 x 3	100Mtr	BCT203S
25 x 1.5	50Mtr	BCT251S
25 x 3	50Mtr	BCT253S
25 x 4	50Mtr	BCT254S
25 x 6	25Mtr	BCT256S
30 x 2	50Mtr	BCT302S
30 x 3	50Mtr	BCT303S
30 x 4	25Mtr	BCT304S
30 x 5	25Mtr	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
50 x 8	15 Mtr	BCT508S



IEC / BS EN 62561 - 2

Material : Copper to BS EN 13601



### 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.

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

Material : Copper to BS EN 13601



### TINNED COPPER TAPE

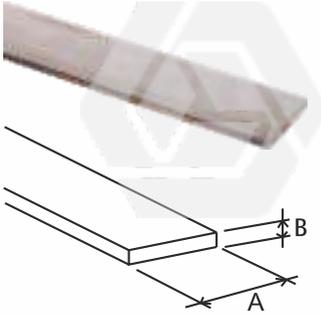
The Bare Copper Tape are Annealed and Tinned for easy use and extended life of the conductor.

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

Material : Copper to BS EN 13601

### 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.



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

**Material : Aluminum to BS EN 755-5**

### BARE COPPER STRANDED CONDUCTORS

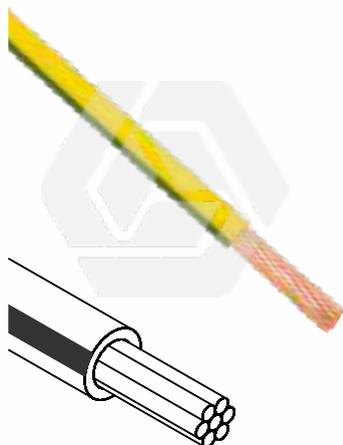
These Bare Copper Stranded Conductors are Soft Drawn, and used in Earthing and Lightning Protection system.



Conductor Size mm <sup>2</sup>	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

**Material : Copper to BS EN 60228**

### PVC COVERED COPPER CONDUCTORS

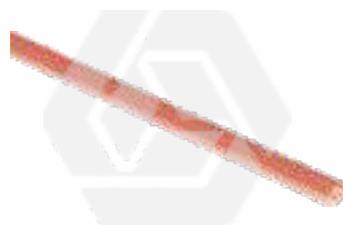


These are similar to Bare Copper Stranded Conductors and are Soft Drawn and covered with PVC Yellow Green which resembles grounding conductor, and used in Earthing and Lightning Protection system.

Conductor Size mm <sup>2</sup>	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

**Material : Copper to BS EN 60228**

### SOLID CIRCULAR CONDUCTORS



These Solid Circular Conductors are used in Lightning Protection application.

Material	Size	mm <sup>2</sup>	Coil Size Mtr	Cat. #
Bare Copper	8	50	50	SCC8S
Copper	10	70	50	SCC10s

**Material : Copper to 13601**

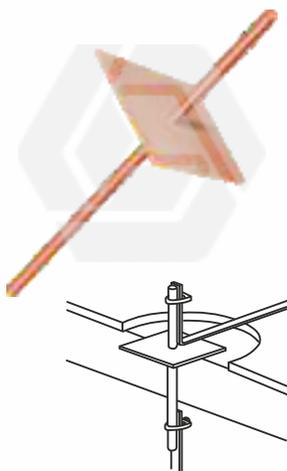
### FLEXIBLE COPPER BRAIDS



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.

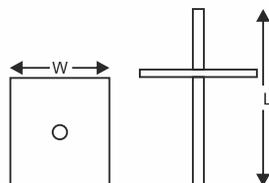
Overall Size (AxB) mm	Size mm <sup>2</sup>	Standard Coil Size	Cat. # Bare	Cat. # Tinned
12 x 1	6	100Mtr	FCB121S	FCB121TS
15 x 1.5	10	100Mtr	FCB1515S	FCB1515TS
19 x 2.5	16	100Mtr	FCB1925S	FCB1925TS
25 x 3.5	35	100Mtr	FCB2535S	FCB2535TS
32 x 6	70	50Mtr	FCB326S	FCB326TS
50 x 6	150	50Mtr	FCB506S	FCB506TS

**Material : Copper to BS EN 13602**



**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.



Conductor	L	W	Cat. #
Copper	600	150	PF6015S

**Material : Copper**



**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.



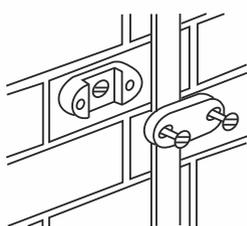
Conductor Size mm	Size mm L x W x H	Cat. #
25 x 3	2000 x 60 x 15	AVG2532S
25 x 3	3000 x 60 x 15	AVG2533S

**Material : Galvanized steel**



**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.



**Bare Copper**

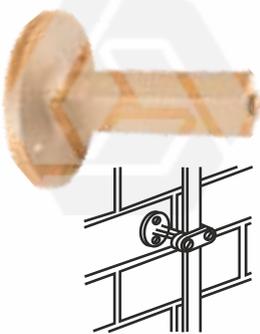
Conductor Size mm	Cat. #	Conductor Size mm	Cat. #
20 x 3	DCTC203S	38 x 3	DCTC383S
25 x 3	DCTC253S	38 x 6	DCTC386S
25 x 6	DCTC256S	40 x 5	DCTC405S
28 x 5	DCTC285S	40 x 6	DCTC406S
30 x 2	DCTC302S	50 x 3	DCTC503S
30 x 5	DCTC305S	50 x 6	DCTC506S
30 x 6	DCTC306S	50 x 8	DCTC508S
31 x 3	DCTC313S		
31 x 6	DCTC316S		

**PVC Covered Copper**

Conductor Size mm	Cat. #
25 x 3	DCTC286S

 / **BS EN 62561 - 4**

**Material : High strength copper alloy**

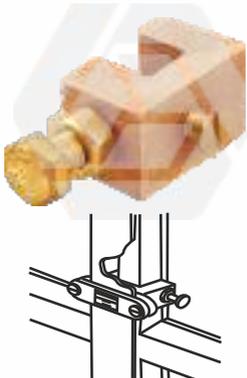


**BACK PLATE HOLDFAST STEM**

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

Item	Cat. #
Back plate hold fast stem	BPHFS01S

**Material :High strength copper alloy**

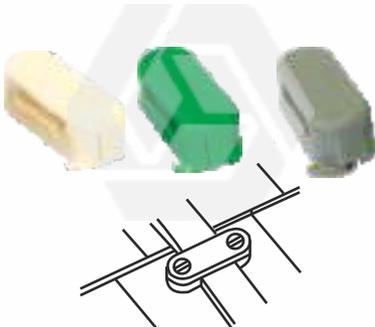


**GLAZING BAR HOLD FAST**

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

Maximum Glazing Bar Width	Cat. #
12 mm	GBHF01S

**Material :High strength copper alloy**



- Black    ■ Grey    ■ Stone
  - Brown    □ White    ■ Green
- \* Colour with the order

**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.

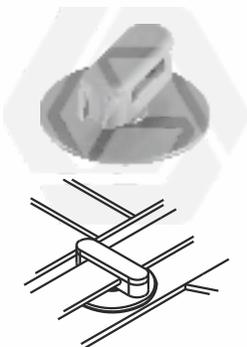
**Bare Tape**

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

**Material : Polypropylene**



**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**

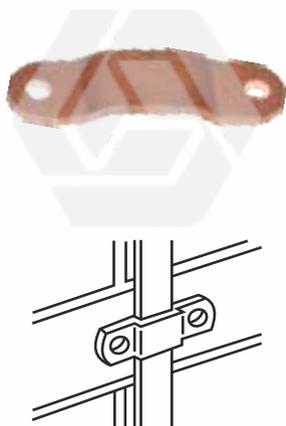
Conductor	Color	Cat. #
25 x 3 mm	Brown	GDB253S
25 x 3 mm	Grey	GDG253S

**PVC Covered Tape**

Conductor	Color	Cat. #
25 x 3 mm	Brown	GDBP253S
25 x 3 mm	Grey	GDP253S

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

**Material : Polypropylene**



**TAPE CLIP**

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

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

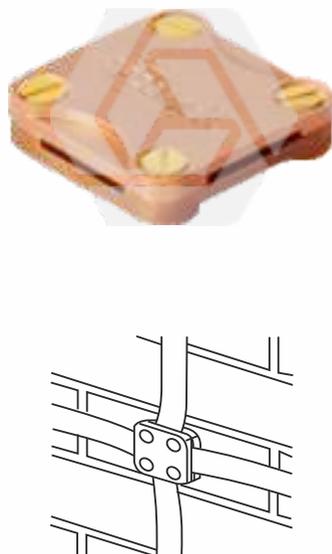
**Material : Copper to BS EN 13601**



**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

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 for T joints or for making straight through Joints in a network of Tapes.

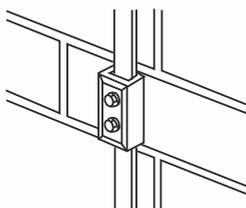
These camps can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 plugs.

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
		50 x 8	DCTC508S



**IEC / BS EN 62561 - 1**

**Material : High Strength copper alloy**

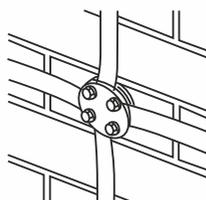


**OBLONG TEST OR JUNCTION CLAMP**

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.

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		

**Material : High Strength copper alloy**

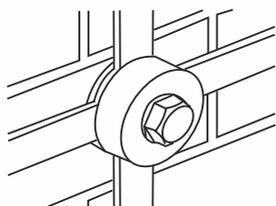


**PLATE TYPE TEST CLAMPS**

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.

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

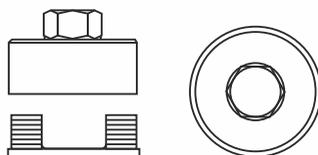
**Material : High Strength copper alloy**



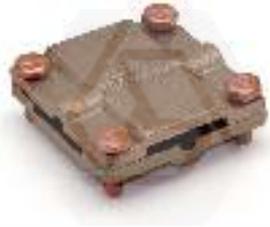
**SCREW DOWN TEST CLAMP**

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

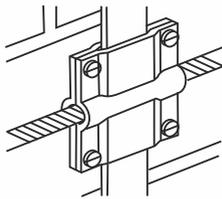


**Material : High Strength copper alloy**



### 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.



Conductor mm	Tape	Cat. #
8 dia. or 35 - 50 sq.	25 x 3	MPC253550S
10 dia. or 70 -95 sq.	25 x 3	MPC257095S
120	25 x 3	MPC251205

**Material : High Strength copper alloy**

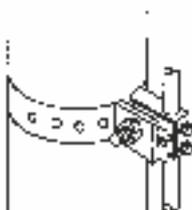
### PIPE BOND

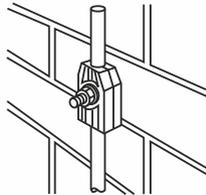
These Pipe Bond is used for bonding Handrails, reinforced bars, pipes, with solid conductors.



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

**Material :**  
**Bond: High Strength copper alloy**  
**Strip : Copper**



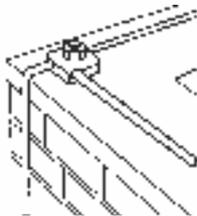


**INTERFACE TEST AND JUNCTION CLAMP**

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

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

**Material : High Strength copper alloy**

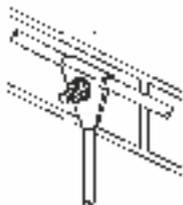


**SQUARE CLAMP**

These clamps are suitable for forming cross or tee Jointing.

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

**Material : High Strength copper alloy**

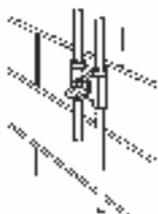


**TEE CLAMP**

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

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

**Material : High Strength copper alloy**



**JOINTING CLAMP**

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

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

**Material : High Strength copper alloy**

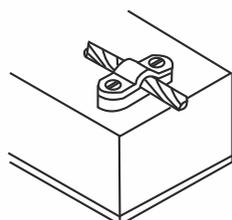


**TEST CLAMP**

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

Conductor Size mm <sup>2</sup>	Cat. #
35-50	TC3550S
70-95	TC7095S
120	TC120S

**Material : High Strength copper alloy**

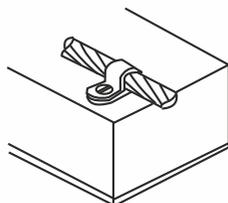


**HEAVY DUTY CAST CABLE SADDLE**

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.

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

**Material : High Strength copper alloy**

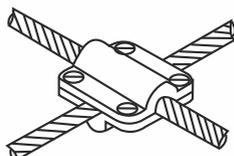


### ONE HOLE CLIP

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

Conductor Size mm <sup>2</sup>	Cat. #	Conductor Size mm <sup>2</sup>	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		

**Material : Copper to BS EN 13601**



### SQUARE CONDUCTOR CLAMP

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

Conductor size mm <sup>2</sup>	Cat. #
35 - 50	HQCS3550S
70 - 95	HQCS7095S
120	HQCS120S

**Material : High Strength copper alloy**



### 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.

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

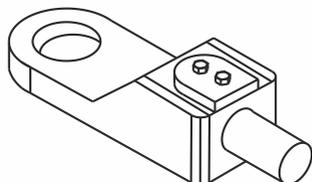
**Material : High Strength copper alloy**



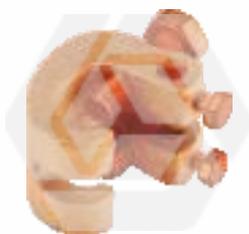
**CABLE SOCKETS**

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

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



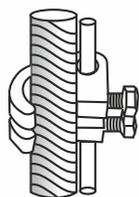
**Material : High Strength copper alloy**



**RE-BAR CLAMP**

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

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



**Material : High Strength copper alloy**



**DENSO TAPE**

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

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


**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


**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


**PLASTIC WALL PLUGS**
 Plastic

Size mm	Cat. #
10	PWP10S
12	PWP12S


**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


**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


**FLAT HEAD RIVETS**
 Copper

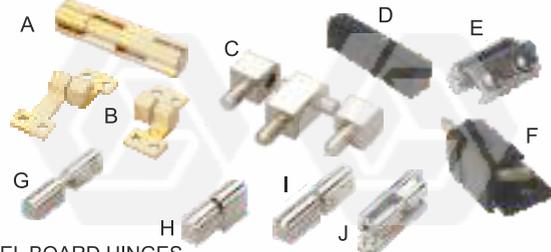
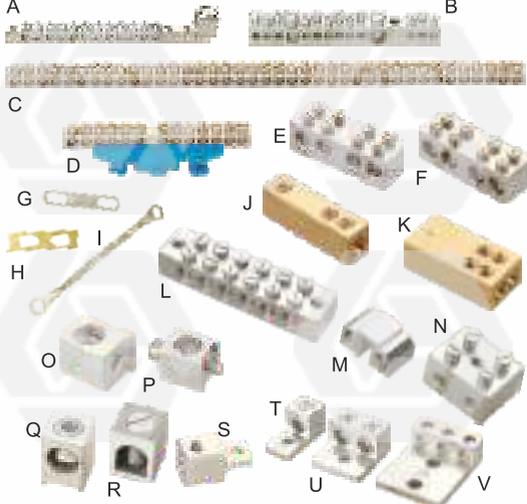
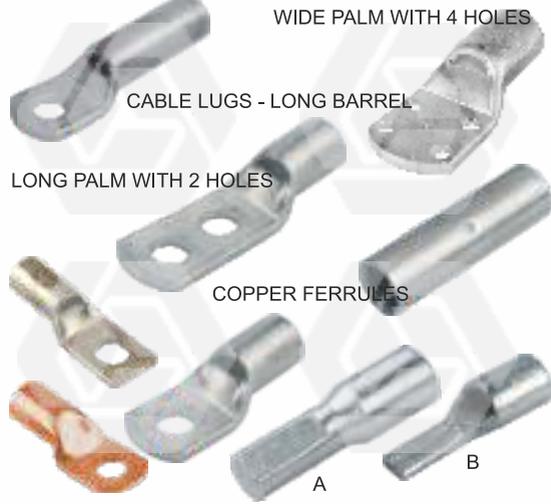
Size mm	Cat. #	Size mm	Cat. #
5 x 8	FHRC508S	5 x 20	FHRC520S
5 x 10	FHRC510S	6 x 12	FHRC612S
5 x 12	FHRC512S	6 x 15	FHRC615S
5 x 15	FHRC515S	6 x 20	FHRC620S


**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


**ROUND HEAD NAILS**
 Copper

Size mm	Cat. #
25	RHN25S
35	RHN35S
50	RHN50S

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

**I N D E X**

Cat # . . . . .	Page No.	Cat # . . . . .	Page No.	Cat # . . . . .	Page No.	Cat # . . . . .	Page No.	Cat # . . . . .	Page No.	Cat # . . . . .	Page No.	Cat # . . . . .	Page No.	Cat # . . . . .	Page No.
<b>A</b>															
ATBH810S	28	CBER1424S	9	DCTC305S	33	ERS161S	13	HDCS150S	39	PTWT253S	30	SCEP603S	13	SWPB12S	42
ATBT10S	26	CBER1612S	9	DCTC306S	33	ERS162S	13	HDCS185S	39	PTYG253AS	31	SCEP615S	13	SWSS06S	42
ATBT105S	26	CBER1615S	9	DCTC313S	33	ERS201S	13	HDCS240S	39	PTYG253S	30	SCEP903S	13	SWSS08S	42
ATBT16S	26	CBER1618S	9	DCTC316S	33	ERS202S	13	HDCS300S	39	PUB01S	17	SCEP915S	13	SWSS10S	42
ATBT165S	26	CBER1624S	9	DCTC383S	33	ERS341S	13	HDCS400S	39	PUB02S	17	SCER1212S	10	SWSS12S	42
ATBT34S	26	CBER1630S	9	DCTC386S	33	ERS342S	13	HDCS3550S	39	PUB03S	17	SCER1215S	10	<b>T</b>	
ATBT34S	26	CBER2012S	9	DCTC405S	33	ERS581S	13	HDCS7095S	39	PUB04S	17	SCER1218S	10	TAR1003S	26
ATBT34S	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
ATBT58S	26	CBER2024S	9	DCTC506S	33	EYB16S	20	HQCS7095S	40	PUB112S	17	SCER1412S	10	TAR1605S	26
ATBV810S	28	CBTR2030S	9	DH15S	11	EYB20S	20	<b>I</b>		PUB12S	17	SCER1415S	10	TAR1605SS	26
AVG2532S	33	CBTR1412S	8	DH20S	11	<b>F</b>		ICDB10S	11	PUB212S	17	SCER1418S	10	TAR1610S	26
AVG2533S	33	CBTR1415S	8	DS14S	9	FCB121S	32	ICD10S	11	PUB34S	17	SCER1424S*	10	TAR1610SS	26
<b>B</b>								ICD510S	11	PWP10S	42	SCER1430S*	10	TAR1612S	26
BAT253S	31	CBTR1418S	8	DS16S	9	FCB121TS	32	JCC		PWP12S	42	SCER1512S	10	TAR1612SS	26
BAT256S	31	CBTR1424S*	8	DS20S	9	FCB150S	23	JCC120S	39	<b>R</b>		SCER1515S	10	TAR1615S	26
BAT503S	31	CBTR1430S*	8	DSE15S	11	FCB150TS	23	JCC3550S	39	RBC1520S	29	SCER1518S	10	TAR1615SS	26
BAT506S	31	CBTR1612S	8	DSE20S	11	FCB1515S	32	JCC7095S	39	RBC1838S	41	SCER1524S*	10	TAR1620S	26
BB25S	20	CBTR1615S	8	DS134S	11	FCB1515TS	32	<b>K</b>		RBC188S	41	SCER1530S*	10	TAR1620SS	26
BCB20S	14	CBTR1618S	8	DS158S	11	FCB1925TS	32	KCHS	23	RCC1670S	29	SCER1612S	10	TAR1630S	26
BCB25S	14	CBTR1624S*	8	DST100S	41	FCB1925TS	32	KP1142S	18	RCC1695S	29	SCER1615S	10	TAR1630SS	26
BCSC10S	31	CBTR1630S*	8	<b>E</b>		FCB200S	23	KP121S	18	RCC3470S	29	SCER1618S	10	TAR1605SS	26
BCSC120S	31	CBTR2012S	8	EB10S	24	FCB200TS	23	KP2124S	18	RCC3495S	29	SCER1624S*	10	TC7095S	39
BCSC150S	31	CBTR2015S	8	EB12S	24	FCB250S	23	<b>M</b>		RCC5870S	29	SCER1630S*	10	TC120S	39
BCSC16S	31	CBTR2018S	8	EB14S	24	FCB250TS	23	MBC8S	40	RCC5895S	29	SCER1912S	10	TC120S	38
BCSC185S	31	CBTR2024S*	8	EB16S	24	FCB2535S	32	MPA16S	27	RCC616S	15	SCER1915S	10	TC25 3S	35
BCSC240S	31	CBTR2030S*	8	EB18S	24	FCB2535TS	32	MPA34S	27	RCCG16S	15	SCER1918S	10	TC256S	35
BCSC25S	31	CBTR2524S*	8	EB20S	24	FCB300S	23	MPA58S	27	RCCG20S	15	SCER1924S*	10	TC3550S	38
BCSC35S	31	CBTR2530S*	8	EB22S	24	FCB300TS	23	MPB16S	27	RCCG25S	15	SCER1930S*	10	TC50 3S	35
BCSC35S	31	CBUR1412S	8	EB24S	24	FCB326S	32	MPB34S	27	RCCG31S	15	SCER2012S	10	TC506S	35
BCSC50S	31	CBUR1415S	8	EB26S	24	FCB326TS	32	MPB58S	27	RCLCB1220S	15	SCER2015S	10	TC7095S	38
BCSC6S	31	CBUR1418S	8	EB28S	24	FCB400S	23	MPC253550S	37	RHN25S	42	SCER2018S	10	TCEBS	23
BCSC70S	31	CBUR1424S*	8	EB3030S	20	FCB400TS	23	MPC257095S	37	RHN35S	42	SCER2024S*	10	TCT253S	30
BCSC95S	31	CBUR1430S*	8	EB3030SS	20	FCB506S	32	MPT16SS	26	RHN50S	42	SCER2030S*	10	TCT256S	30
BCT121S	30	CBUR1612S	8	EB3040S	20	FCB506TS	32	MWB01S	19	RS16S	28	SCERE1612S	10	TCT503S	30
BCT123S	30	CBUR1615S	8	EB30S	24	FHRC508S	42	<b>N</b>		RS34S	28	SCERE2012S	10	TCT506S	30
BCT1201S	30	CBUR1618S	8	EB400S	20	FHRC510S	42	NB0825S	42	RS58S	28	SDTC268S	36	TECD120S	19
BCT203S	30	CBUR1624S*	8	EB400S	20	FHRC512S	42	NB1025S	42	RTC16 25S	29	SERS	21	TECD185S	19
BCT251S	30	CBUR1630S*	8	EB4S	24	FHRC515S	42	NB1035S	42	RTC3425S	29	SERS100S	21	TECD240S	19
BCT253S	30	CBUR2012S	8	EB5050S	20	FHRC612S	42	NB1235S	42	RTC5825S	29	SERS150S	21	TECD70S	19
BCT254S	30	CBUR2015S	8	EB5050SS	20	FHRC615S	42	NMDTC253PS	34	RTCA25S	15	SERS300S	21	TECS120S	19
BCT256S	30	CBUR2018S	8	EB6S	24	FHRC620S	42	NMDTC253S	34	RTCA31S	15	SERS50S	21	TECS185S	19
BCT302S	30	CBUR2024S*	8	EB8S	24	FSC070S	28	NMDTC256S	34	RTCA38S	15	SNB406S	42	TECS240S	19
BCT303S	30	CBUR2030S*	8	EBEH12S	12	FSC95S	28	NMDTC406S	34	RTCA50S	15	SNB408S	42	TECS70S	19
BCT304S	30	CBUR2524S*	8	EBEH5S	12	FWNB06S	42	NNB08S	42	RTCE22525S	16	SNB508S	42	TJC3550S	38
BCT305S	30	CBUR2530S*	8	EBEH7S	12	FWNB08S	42	NNB10S	42	RTCE22550S	16	SNB510S	42	TJC7095S	38
BCT313S	30	CC101510S	22	EBIP12S	12	FWNB10S	42	NNB10S	42	RWPB25S	18	SNB630S	42	TOJC253S	36
BCT316S	30	CC129515S	22	EBIP5S	12	FWNB12S	42	NPB08S	42	<b>S</b>		SP11202S	27	TOJC256S	36
BCT383S	30	CC129515S	22	EBIP7S	12	FWPB06S	42	NPB10S	42	SB0825S	42	SQTC253S	35	TOJC313S	36
BCT385S	30	CC151218S	22	EBL101S	24	FWPB08S	42	NPB10S	42	SB1025S	42	SQTC256S	35	TOJC316S	36
BCT386S	30	CC151218S	22	EBL102S	24	FWPB10S	42	NSB08S	42	SB1035S	42	SQTC302S	35	TOJC383S	36
BCT403S	30	CC160416S	22	EBL102S	24	FWPB12S	42	NSB10S	42	SB1235S	42	SQTC313S	35	TOJC386S	36
BCT404S	30	CC181524S	22	EBL112S	24	FWSS06S	42	NSB10S	42	SBC006S	22	SQTC316S	35	TOJC406S	36
BCT405S	30	CC241824S	22	EBL141S	24	FWSS08S	42	NSS08S	42	SBC010S	22	SQTC383S	35	TOJC503S	36
BCT406S	30	CC250410S	22	EBL142S	24	FWSS10S	42	NSS10S	42	SBC016S	22	SQTC386S	35	TOJC506S	36
BCT503S	30	CC250410S	22	EBL161S	24	FWSS12S	42	<b>O</b>		SBC025S	22	SQTC405S	35	<b>U</b>	
BCT505S	30	CC251635S	22	EBL162S	24	<b>G</b>		OHC25S	40	SBC035S	22	SQTC406S	35	UBRCE25S	16
BCT506S	30	CC251635S	22	EBL181S	24	GBFHF01S	34	OHC35S	40	SBC050S	22	SQTC503S	35	<b>W</b>	
BIMC3550S	37	CC302430S	22	EBL182S	24	GCR12*	15	OHC50S	40	SBC070S	22	SQTC506S	35	WMPB256S	18
BMTL253S	35	CC501625S	22	EBL201S	24	GCR34*	15	OHC70S	40	SBC095S	22	SS0825S	42	WSNB2508S	42
BMTT253S	35	CC503570S	22	EBL202S	24	GCR58*	15	OHC95S	40	SBC120S	22	SS1025S	42	WSNB3008S	42
BP150S	21	CC503570S	22	EBL221S	24	GDB253S	34	OHC120S	40	SBC150S	22	SS1035S	42	WSNB3010S	42
BP1S	21	CC705095S	22	EBL222S	24	GDGP253S	34	OHC150S	40	SBC185S	22	SS1235S	42	WSNB3510S	42
BP2100S	21	CC705095S	22	EBL241S	24	GRS	23	OHC240S	40	SBC240S	22	SSITR1512S	11	WSNB3512S	42
BP2150S	21	CC951625S	22	EBL242S	24	GTCS	23	OHC300S	40	SBC300S	22	SSITR1530S	11	WSNB4510S	42
BP2300S	21	CC957012S	22	EBL261S	24	GU01S	17	OHC400S	40	SBC400S	22	SSITR1612S	11	WSNB4512S	42
BP250S	21	CC957012S	22	EBL262S	24	GU02S	17	OHC500S	40	SBC500S	22	SSITR1630S	11	WSSS2508S	42
BP2S	21	CH14S	9	EBL281S	24	GU03S	17	OHC600S	40	SCC3550S	38	SSITR2012S	11	WSSS3008S	42
BP4100S	21	CH16S	9	EBL282S	24	GU04S	17	OHC70S	40	SCC7095S	38	SSITR2030S	11	WSSS3010S	42
BP4300S	21	CH20S	9	EBL302S	24	GU05S	17	OHC95S	40	SCC8S	32	SSPR1424S*	11	WSSS3510S	42
BP450S	21	CH3030S	12	EBL41S	24	GU06S	17	SCCL12S	16	SCCL12S	16	SSPR1430S*	11	WSSS3512S	42
BP4S	21	CR14S	9	EBL41S	24	GU112S	17	SCCL14S	16	SCCL14S	16	SSPR1624S*	11	WSSS4510S	42
BPHFS01S	34	CR16S	9	EBL42S	24	GU12S	17	PB0825S	42	SCCL15S	16	SSPR1630S*	11	WSSS4512S	42
BPT1200S	21	CR20S	9	EBL61S	24	GU12S	17	PB1025S	42	SCCL16S	16	SSPR2024S*	11	<b>Y</b>	

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