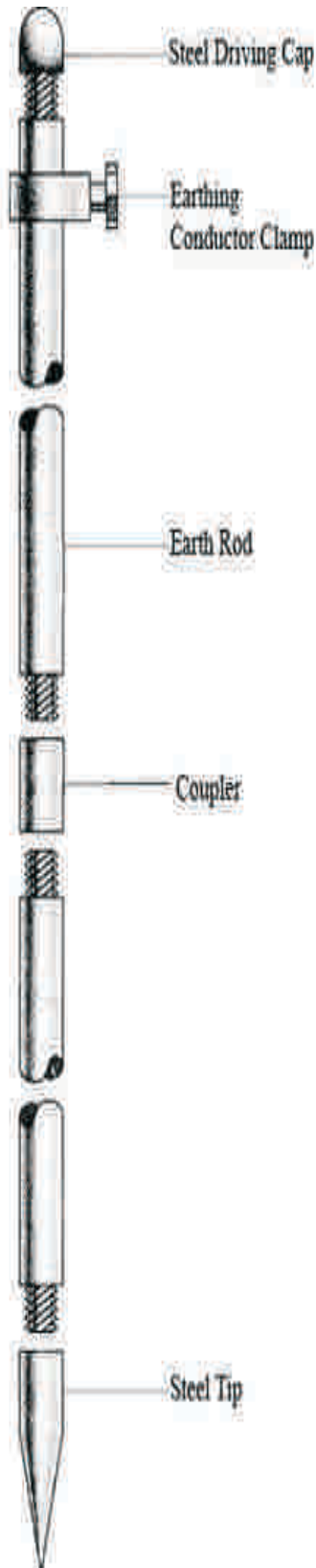




EARTHING AND LIGHTNING PROTECTION



SWITCHGEARS - INTRODUCTION



EARTH ROD

SOLID COPPER EARTH RODS

| No | Threads | Rod Length |
|----|---------|------------|
| 01 | 5/8" | 1200 |
| 02 | 5/8" | 1500 |
| 03 | 5/8" | 1800 |
| 04 | 5/8" | 2400 |
| 05 | 5/8" | 3000 |
| 06 | 3/4" | 1200 |
| 07 | 3/4" | 1500 |
| 08 | 3/4" | 1800 |
| 09 | 3/4" | 2400 |
| 10 | 3/4" | 3000 |



Solid Copper Earth Rods are generally two types :

¾ Externally threaded.

¾ Internally threaded.

These rods are manufactured from high conductivity electrolytic grade hard drawn copper rod to BS 2874 C101.

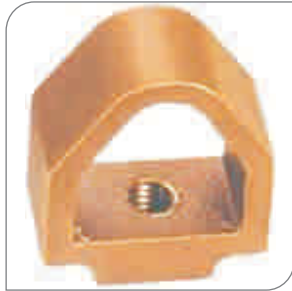
COPPER BONDED EARTH ROD:

| No. | Dimensions | Threads |
|-----|------------|------------|
| 01 | 9.5 X 1200 | Unthreaded |
| 02 | 9.5 X 1800 | Unthreaded |
| 03 | 16 X 1200 | 5/8" |
| 04 | 16 X 1500 | 5/8" |
| 05 | 16 X 1800 | 5/8" |
| 06 | 16 X 2400 | 5/8" |
| 07 | 16 X 3000 | 5/8" |
| 08 | 20 X 1200 | 3/4" |
| 09 | 20 X 1800 | 3/4" |
| 10 | 20 X 2400 | 3/4" |
| 11 | 20 X 3000 | 3/4" |

These rods are made of high tensile alloy steel.



ROD TO TAPE CLAMP (A TYPE CLAMP)



Size:

| Rod dia. | Tap width |
|----------|-----------|
| 9.5 | 25 |
| 14 | 25 |
| 16 | 25 |
| 20 | 50 |
| 25 | 50 |

Material : Brass / Bronze / Gunmetal

EARTH ROD TO CABLE CLAMP (G TYPE CLAMP)



Size:

| Rod dia. | Tap width |
|----------|-----------|
| 9.5 | 6-35 |
| 14 | 16.70 |
| 16 | 16.95 |
| 20 | 35-120 |
| 25 | 70-185 |

Material : Brass / Bronze / Gunmetal

COUPLER



Size:

- Metric : 16, 20
- Imperial : 5/8", 3/4"

Type:

- Round type
- Hexagonal type

Material : Brass / Gunmetal

Application : To connect the rod to transfer for ce and protect threads from corrosion and damage.



EARTH ROD ACCESSORIES



- 1) Driving Head
- 2) Tip
- 3) Dowell Pin Stud

B- BONDS



- Size : 26 mm
- Material : Brass / Bronze
- Application : For bonding tape to steel structures

RAIN WATER PIPE BOND



- Size : 26
- Material : Brass / Bronze
- Application : Suitable for bonding tape to rain water pipes, handrails, etc

AIR TERMINAL BASE

Material : Brass / Bronze



Size:

| Rod dia. | Thread dia. | Max. tape conductor |
|----------|-------------|---------------------|
| 14.2 | 5/8" | 30 x S |
| IT.O | 3/4" | 30 x S |

RIDGE SADDLE



- Material : Brass / Bronze
- Application : Used for supporting lightning conductor
- air rod on ridge



ROD BRACKET



Size : 15mm
Material : Gunmetal / Aluminium

DC TAPE CLIP



Size:

| No. | Size: |
|-----|--------|
| 01 | 25 x 3 |
| 02 | 25 x 4 |
| 03 | 25 x 6 |
| 04 | 40 x 3 |
| 05 | 40 x 6 |
| 06 | 50 x 3 |
| 07 | 50 x 6 |

Material : Brass / Bronze
Application : Used with bare copper tape conductor

COUPLER



SQUARE - TAPE CLAMP

Size:

| No. | Size: |
|-----|--------|
| 01 | 25 x 3 |
| 02 | 25 x 4 |
| 03 | 25 x 6 |
| 04 | 50 x 6 |

Material : Brass / Bronze

Application : Suitable for four way connections of copper tape .

OBLONG TEST CLAMP



Size:

| No. | Size: |
|-----|--------|
| 01 | 20 x 3 |
| 02 | 25 x 3 |
| 03 | 38 x 6 |
| 04 | 40 x 6 |
| 05 | 50 x 6 |

Material : Brass / Bronze

Application : Used with bare copper tape conductor



TEST BOND / TEST CLAMP



Size:

| No. | Tap width |
|-----|-----------|
| 01 | 25 x 3 |
| 02 | 25 x 6 |
| 03 | 50 x 3 |
| 04 | 50 x 6 |

Material : Brass / Bronze

Application : Used for 4 way copper tape connection

CABLE TO TAPE JUNCTION CLAMP



Size : 25 X 3

Material : Brass / Bronze

Application : These are used for connecting copper tape to cable

TEE - CLAMP



Material : Brass / Bronze

Application : Used for forming and bonding Tee joint for conductor

HEAVY DUTY CAST SADDLE



Size : 8 mm

Material : Brass / Bronze

Application : Used with conductor or for supporting

Air Terminals when used in conjunction with wall mounted Air terminal base.



CAST GROUND PLATE / EARTH PLATE



Size:

| No. | Tap width |
|-----|-----------|
| 01 | 25 x 3 |
| 02 | 40 x 6 |
| 03 | 50 x 6 |

Material : Brass / Bronze

Application : These plates when used in concrete structures offer convenient ground system connection points. They are used where reinforcing bars are electrically continuous and are to be used as down conductors,

These earth points allow easy access for the lightning protection and earthing system.

U - BOLT ROD CLAMP



Size : 5/8" TO 2"

Material : Brass / Bronze / dunmetal

Application : Clamping rods for 5/8" to 1" and copper tape

U - BOLT ROD TO CABLE CLAMP



Size : 16 mm and 20 mm rod dia.

Material : Brass / Bronze / Gunmetal

Application : These are used for connecting rod to cable.

PIPE EARTHING CLIP



Application : Adjustable pipe earthing clip



ROD TO CABLE LUG CLAMP



Size : 3/8" TO 3/4"

Material : Brass / Gunmetal

TOWER BOND CLAMP



Size : 16 sq. mm to 70 sq. mm

Material : Brass / Gunmetal

Application : These are suitable for bonding copper cable or wire to steel structures.

ROD TO TAPE COUPLING



Size : 16 mm

Material : Brass / Bronze / Gunmetal

Application : Used in conjunction with rod brackets

RE-BAR CLAMP



Size : 18 mm

Material : Brass / Bronze / Gunmetal

Application : For Bonding to reinforcing bars, steam pipes, handrails, etc..

SPLIT CONNECTED CLAMP



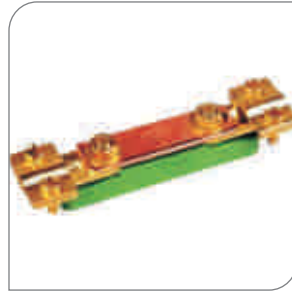
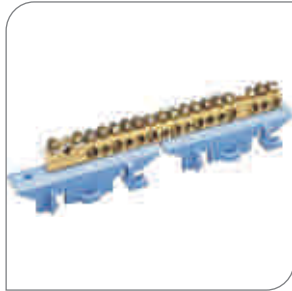
Size:

| No. | Size: |
|-----|-------|
| 01 | 9.5mm |
| 02 | 14mm |
| 03 | 16mm |
| 04 | 20mm |
| 05 | 25mm |

Material : Brass / Gunmetal



NEUTRAL LINKS / EARTH BARS



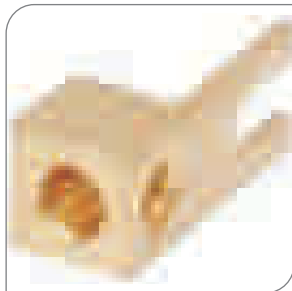
Size : VARIOUS SIZES

Material : Brass

Application : Earth link contacts

EARTH TAG

Material : Brass



SPLIT BOLT



