

Raychem RPG

YOUR ASSETS, OUR PROTECTION

One stop solutions for safety and protection

Earthing & Lightning Protection Solutions

Lightning Protection | Earthing Protection | Risk Assessment



(A TE-Connectivity - RPG Enterprises JV)

Future is in Smart Foundation

Raychem RPG (P) Ltd., incorporated in 1989, is a 50:50 Joint Venture between TE Connectivity, U.S.A. and RPG Enterprises, India. It is the longest running successful joint venture in India for over 30 year.

RRL offers a wide range of low and extra high voltage cable accessories, insulation & protection, covered conductors, connectors & fittings, cable management solutions, junction boxes, electrical safety products, distribution transformers, gas metering solution, earthing & lightning protection systems and build-to-print solution.

RRL's products and solutions cater to key sectors of economy like industries, utilities, infrastructure, and building. With manufacturing operations at Vasai, Naigaon, Halol and Chakan in India adhere to global practices of excellence and receive support from well-equipped in house engineering team as well as tooling team that contribute to precision in manufacturing.

For you, this means foundation of trust and commitment.



Future is in Smart Manufacturing Facilities

We have state-of-the-art manufacturing facilities at four locations in India (Vasai, Naigaon, Halol and Chakan). With strong capability in lean manufacturing operations results in an optimised and cost-effective products.

RRL manufactures a wide range and variety of products at these facilities using conventional as well as contemporary processes and exclusive material including packaging items, which are environment friendly.

We have implemented smart manufacturing practices like integrated workstations, error-free assembly and streamlined techniques of production. Adoption of internationally acclaimed tools and techniques, combined with automation and digitization at each stage of manufacturing ensures high level of productivity, quality, reliability, safety and morale. As a testimony to our disciplined and structured working as well as self-reliance, each of our manufacturing facilities is certified for their continued compliance to international standards like ISO 9001, ISO 14001, and OHSAS 18001 for the Quality, Environment, Health and Safety Management Systems respectively. Besides, these facilities have been certified for ISO 50001 and ISO 27001 for their Energy and Information Security Management Systems.

For you, this means international quality products.



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EARTHING & LIGHTNING PROTECTION SOLUTION

At Raychem RPG we provide you with complete one stop solution for all your Earthing and Lightning protection needs. As a solution provider we offer you with :-

1. LIGHTNING PROTECTION SOLUTION WHICH INCLUDES:

Risk Assessment Calculation:

The aim of the risk assessment process is to remove a hazard or reduce the level of risk by adding precautions or control measures as necessary. By doing so, we aim to create a safe workplace

Raychem RPG technical team has developed Arrestek (software RA.version-01), an invaluable tool which automates the complex calculations required by IEC/EN 62305-2.

Direct Lightning:

As per the Risk Assessment Calculation protection level will be finalised. Based on the protection level and as per the requirements of the project / client, Lightning Protection Passive System (BS EN / IEC 62305) & (NFPA 780) and Active System (NFC 17 - 102) will be proposed.

2. EARTHING SOLUTION WHICH INCLUDES:

On-Site Soil Resistivity Survey and Ground Resistance Measurement:

Raychem RPG conducts the soil resistivity survey to determine the electrical resistance of the ground at a specific location. This is done by high end test instrument, capable of filtering out unwanted electrical noise that may foul the results gained.

Our team of Engineers and Technicians will attend to your site and carryout a full electrical assessment of the ground.

All work is carried out in accordance with BS 7430 (Code of practice for protective earthing of electrical installations), BS EN 50522 (Earthing of power installations exceeding 1kV a.c.).

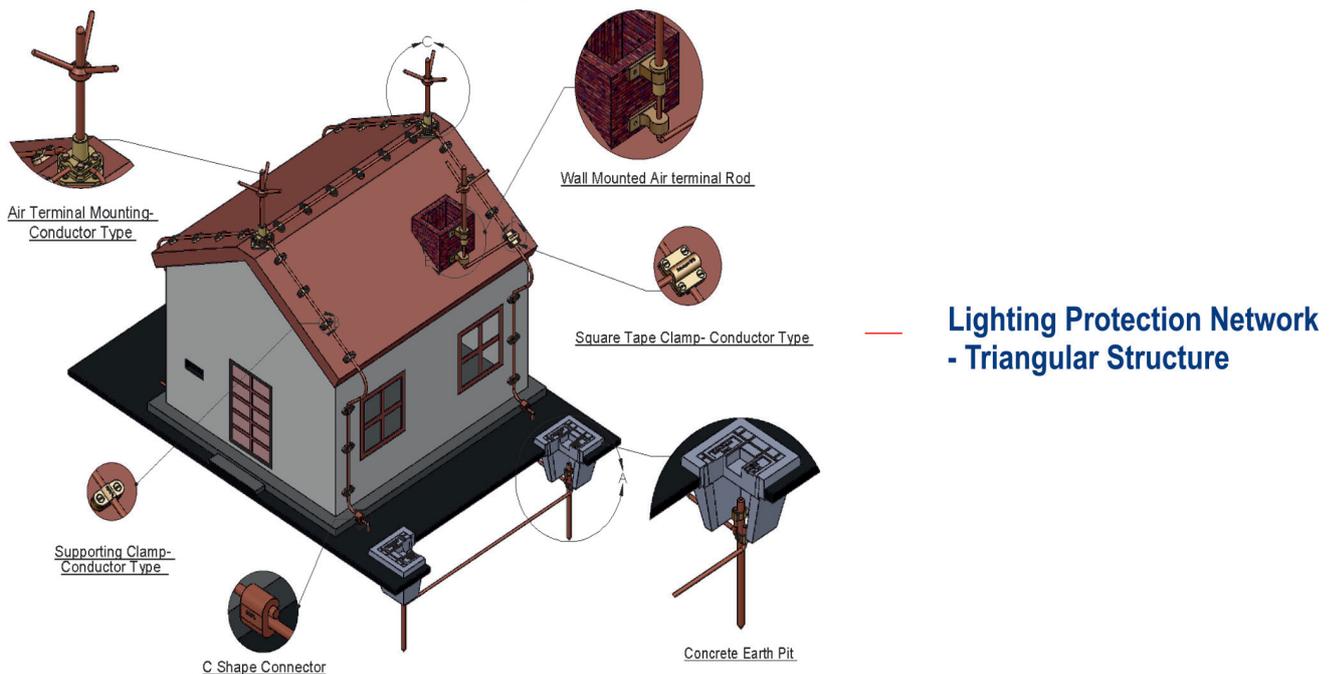
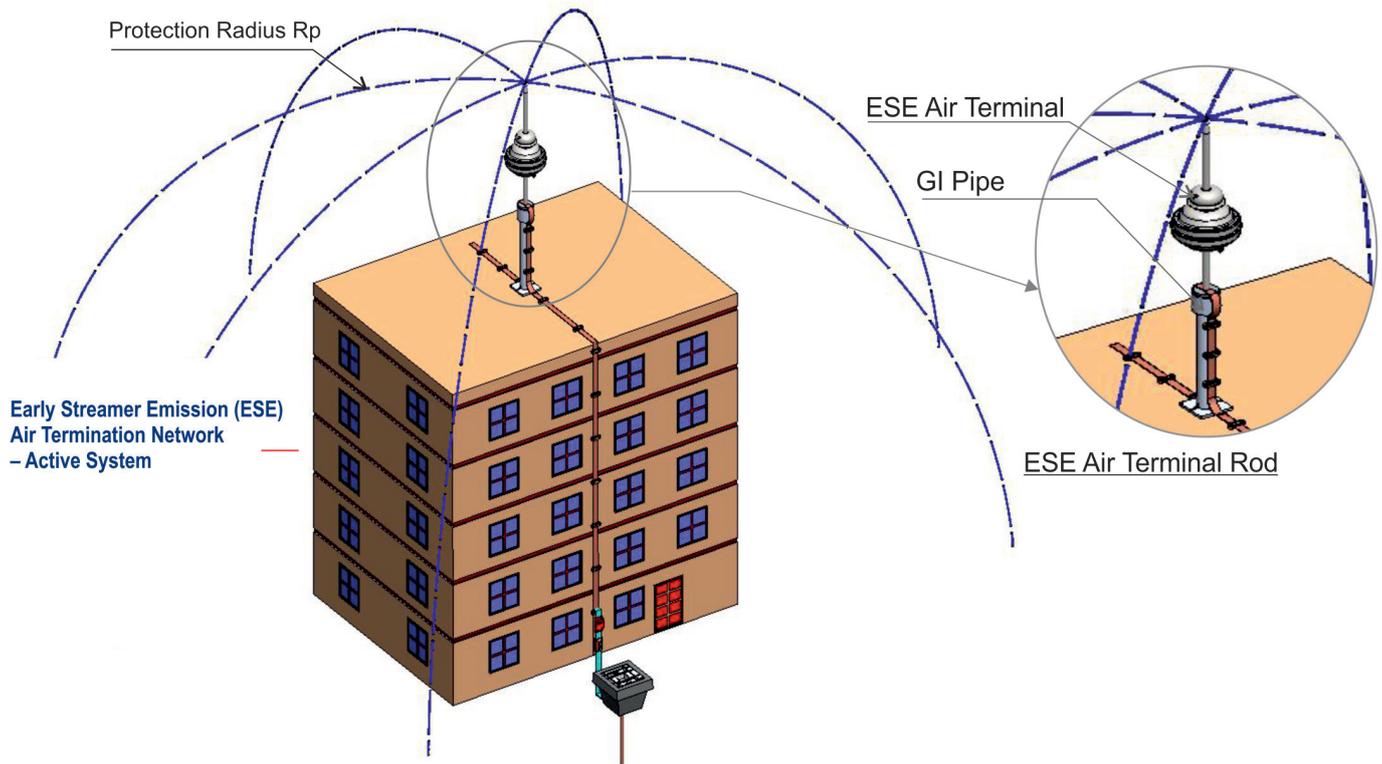
Earthing Calculation:

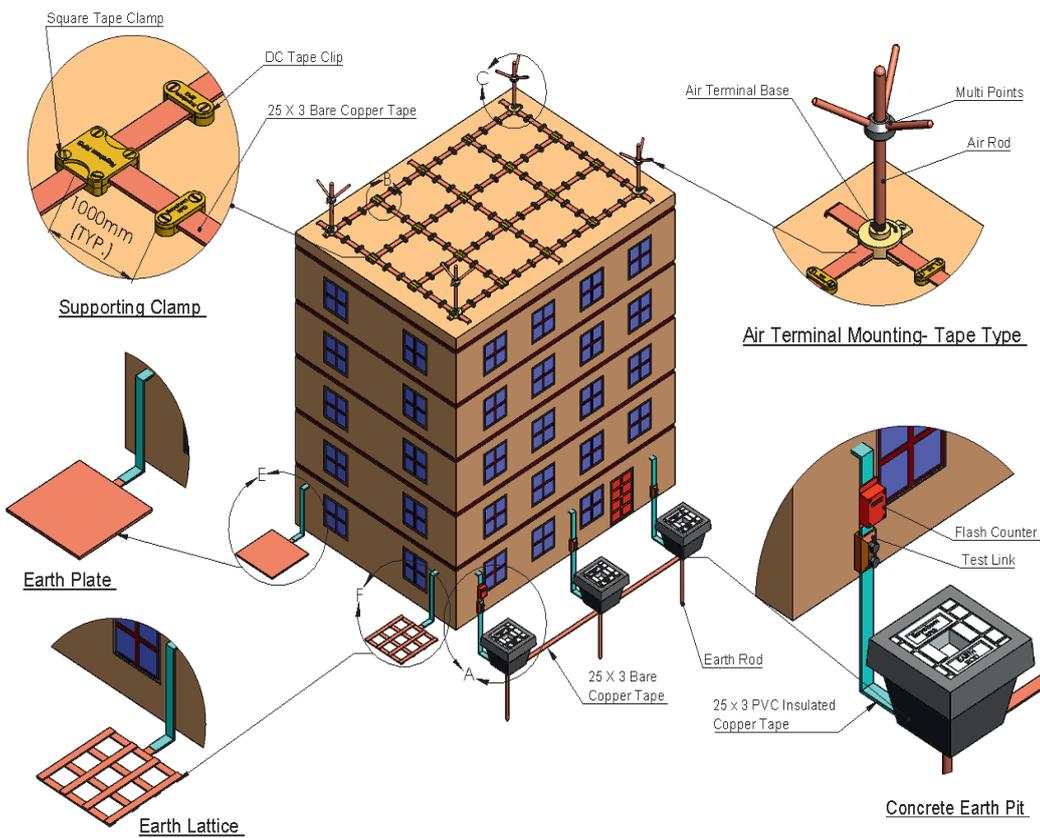
Earthing calculations (Earth Grid Conductor Cross section, Earth rod cross section and earthing grid calculations to achieve the $<1 \Omega m$) for Residential, Commercial and Industrial projects based on soil resistivity survey value of site, fault current in kA of Main Distribution Board (MDB).

Earthing Design:

Based on the earthing calculation (BS 7430), we provide earthing system design for different type of structures. We also recommend back fill component where corrosive atmosphere to achieve required ground resistance.

EARTHING & LIGHTNING Protection Solution





**Conventional
Air Termination Network
- Passive System**

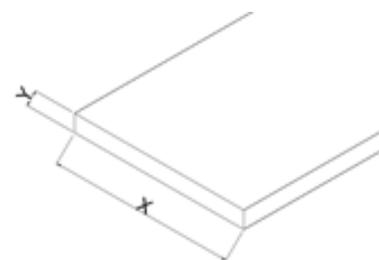
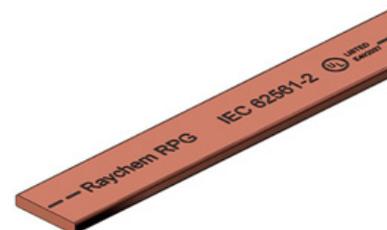
B. CONDUCTORS

2.1. Conductors - Tape

2.1.1. Bare Copper Tape

Raychem RPG's Copper Tape are made from High Conductivity, soft drawn ETP copper with 99.9% purity.

Product Code	Size (X*Y) mm	Certification/ Standard
RBCT-01	12 x 1.5	*
RBCT-02	12 x 3	*
RBCT-03	20 x 1.5	**
RBCT-04	20 x 3	**
RBCT-05	25 x 1.5	**
RBCT-06	25 x 3	**
RBCT-07	25 x 4	**
RBCT-08	25 x 6	**
RBCT-09	30 x 3	**
RBCT-10	30 x 6	**
RBCT-11	38 x 3	**
RBCT-12	38 x 5	**
RBCT-13	38 x 6	**
RBCT-14	40 x 4	**
RBCT-15	40 x 6	**
RBCT-16	50 x 3	**
RBCT-17	50 x 4	**
RBCT-18	50 x 6	**
RBCT-19	30 x 2	**
RBCT-20	30 x 4	**
RBCT-21	30 x 5	**
RBCT-22	31 x 6	**
RBCT-23	40 x 5	**
RBCT-24	50 x 5	**



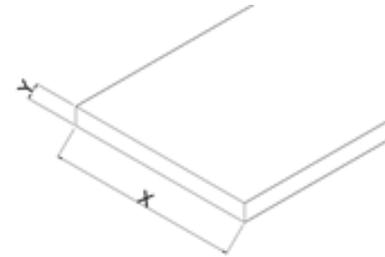
- * BS EN 13601
- * UL Listed
- * IEC 62561-2
- Customize Sizes are also available to order.



2.1.2. Tinned Copper Tape

Raychem RPG's Tinned Copper Tape are made from High Conductivity, soft drawn ETP copper with 99.9% purity.

Product Code	Size (X*Y) mm	Certification/ Standard
RTCT-01	12 x 1.5	*
RTCT-02	12 x 3	*
RTCT-03	20 x 1.5	**
RTCT-04	20 x 3	**
RTCT-05	25 x 1.5	**
RTCT-06	25 x 3	**
RTCT-07	25 x 4	**
RTCT-08	25 x 6	**
RTCT-09	30 x 3	**
RTCT-10	30 x 6	**
RTCT-11	38 x 3	**
RTCT-12	38 x 5	**
RTCT-13	38 x 6	**
RTCT-14	40 x 4	**
RTCT-15	40 x 6	**
RTCT-16	50 x 3	**
RTCT-17	50 x 4	**
RTCT-18	50 x 6	**
RTCT-19	30 x 2	**
RTCT-20	30 x 4	**
RTCT-21	30 x 5	**
RTCT-22	31 x 6	**
RTCT-23	40 x 5	**
RTCT-24	50 x 5	**



* BS EN 13601
* UL Listed

• Customize Sizes are also available to order.



2.1.3. PVC Covered Copper Tape

Raychem RPG's Copper Tape are made from High Conductivity, soft drawn ETP copper with 99.9% purity. These Copper Tapes are covered with UV Stabilized PVC.

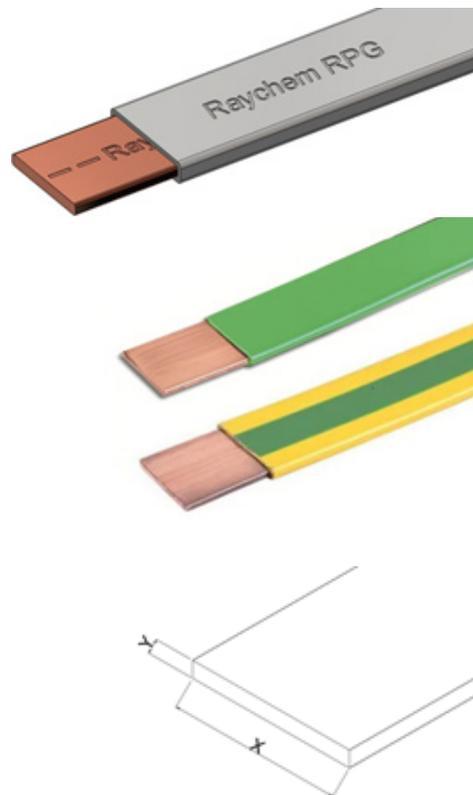
These covered copper tapes are also available in Low Smoke, Zero Halogen.

Color Options are available as per BS 5252.

Product Code	Size (X*Y) mm	Certification/ Standard
RPCT-01	12 x 1.5	* *
RPCT-02	12 x 3	* *
RPCT-03	20 x 1.5	* *
RPCT-04	20 x 3	* *
RPCT-05	25 x 1.5	* *
RPCT-06	25 x 3	* *
RPCT-07	25 x 4	* *
RPCT-08	25 x 6	* *
RPCT-09	30 x 3	* *
RPCT-10	30 x 6	* *
RPCT-11	38 x 3	* *
RPCT-12	38 x 5	* *
RPCT-13	38 x 6	* *
RPCT-14	40 x 4	* *
RPCT-15	40 x 6	* *
RPCT-16	50 x 3	* *
RPCT-17	50 x 4	* *
RPCT-18	50 x 6	* *
RPCT-19	30 x 2	* *
RPCT-20	30 x 4	* *
RPCT-21	30 x 5	* *
RPCT-22	31 x 6	* *
RPCT-23	40 x 5	* *
RPCT-24	50 x 5	* *

* BS EN 13601

* BS 5252



2.1.4. Lead Covered Copper Tape

Lead-covered (Pb), high conductivity, annealed 25 x 3mm flat copper earthing tape.

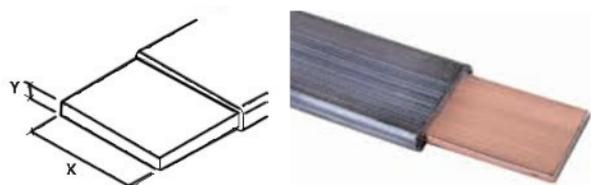
Lead covered for use in highly contaminated areas.

Pb-covered lead-copper tape is annealed for ultimate ductility and has radiused edges.

Product Code	Tape Size in mm	Certification/ Standard
RLST-06	25 x 3	*
RLST-18	50 x 6	*

* BS EN 13601

- Material: Copper to BS EN 13601 (formerly BS 1432).
- Customized cross section available on customer request



2.1.5. Hard Drawn Copper Flat

Hard Drawn Copper Flats are made from High Conductivity Copper with min. 99.9% purity.

Product Code	Size (X*Y) mm	Certification/ Standard
RHCT-01	25 x 3	*
RHCT-02	25 x 6	*
RHCT-03	38 x 6	*
RHCT-04	50 x 6	*
RHCT-05	50 x 10	*
RHCT-06	75 x 6	*
RHCT-07	100 x 6	*



* BS EN 13601

- Customize Sizes are also available to order.

2.1.6. Bare Aluminium Tape

Raychem RPG's Bare Aluminium Tapes are made of High grade Aluminium.

Product Code	Size (X*Y) mm
RBAT-01	12 x 1.5
RBAT-02	12 x 3
RBAT-03	20 x 1.5
RBAT-04	20 x 3
RBAT-05	25 x 1.5
RBAT-06	25 x 3
RBAT-07	25 x 4
RBAT-08	25 x 6
RBAT-09	30 x 3
RBAT-10	30 x 6
RBAT-11	38 x 3
RBAT-12	38 x 5
RBAT-13	38 x 6
RBAT-14	40 x 4
RBAT-15	40 x 6
RBAT-16	50 x 3
RBAT-17	50 x 4
RBAT-18	50 x 6
RBAT-19	30 x 2
RBAT-20	30 x 4
RBAT-21	30 x 5
RBAT-22	31 x 6
RBAT-23	40 x 5
RBAT-24	50 x 5



2.1. Conductors - Stranded and Solid Round

2.2.1. Bare Stranded Copper Conductor

Bare Stranded Copper Conductors are made of High Conductivity Soft Drawn Copper.

Part Code	C/S Area in Sq.mm	Certification/ Standard
RBSCC-4	4	*
RBSCC-6	6	*
RBSCC-10	10	*
RBSCC-16	16	*
RBSCC-25	25	*
RBSCC-35	35	*
RBSCC-50	50	*
RBSCC-70	70	*
RBSCC-95	95	*
RBSCC-120	120	*
RBSCC-150	150	*
RBSCC-185	185	*
RBSCC-240	240	*
RBSCC-300	300	*
RBSCC-400	400	*

* BS EN 60228



- Grade of Copper used is ETP - Cu, having 99.9% purity.

2.2.2. Tinned Stranded Copper Conductor

Tinned Stranded Copper Conductors are made of High Conductivity Soft Drawn Copper.

Part Code	C/S Area in Sq.mm	Certification/ Standard
RTSCC-4	4	*
RTSCC-6	6	*
RTSCC-10	10	*
RTSCC-16	16	*
RTSCC-25	25	*
RTSCC-35	35	*
RTSCC-50	50	*
RTSCC-70	70	*
RTSCC-95	95	*
RTSCC-120	120	*
RTSCC-150	150	*
RTSCC-185	185	*
RTSCC-240	240	*
RTSCC-300	300	*
RTSCC-400	400	*

* BS EN 60228

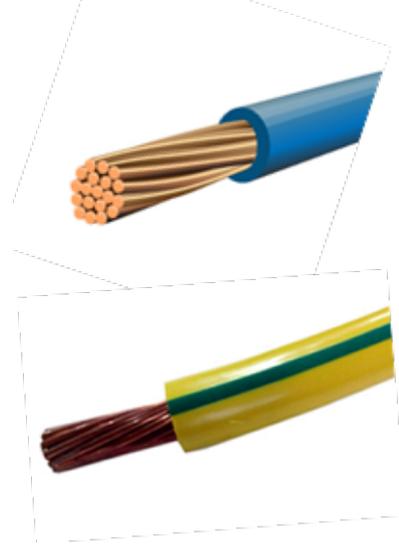


2.2.3. PVC Covered Stranded Copper Conductor

Stranded Copper Conductors are made of High Conductivity Soft Drawn Copper. These stranded copper conductors are covered with Yellow Green PVC. Customize Color Options are also available to order.

Part Code	C/S Area in Sq.mm	Certification/ Standard
RPSCC-4	4	*
RPSCC-6	6	*
RPSCC-10	10	*
RPSCC-16	16	*
RPSCC-25	25	*
RPSCC-35	35	*
RPSCC-50	50	*
RPSCC-70	70	*
RPSCC-95	95	*
RPSCC-120	120	*
RPSCC-150	150	*
RPSCC-185	185	*
RPSCC-240	240	*
RPSCC-300	300	*
RPSCC-400	400	*

* BS EN 60228



- PVC Sheath colour needs to be specified while placing PO.

2.2.4. Bare Solid Conductor

Copper solid copper conductor provides least resistance path from lightning fault current to ground earth pit.

Product Code	C/S Area in Sq.mm	Diameter (mm)	Certification/ Standard
RBSC-50	50	8	*
RBSC-70	70	10	*

* BS EN 13601

- Grade of Copper used is ETP - Cu, having 99.9% purity.



C. LIGHTNING PROTECTION

3.1. Air Termination - Active System

3.1.1. Early Streamer Emission (ESE) - Active System

The Early Streamer Emission (ESE) Air termination Rods are active Lightning Protection System (LPS). Early Streamer Emission Air Terminal is tested to NFC 17-102.

The radius of protection offered by an ESE lightning conductor is related to its height (h) relative to the area to be protected, to its triggering advance and to the protection level.

Technical Specification for the Active Lighting Air terminal rods:

ESE AIR TERMINAL						
ESE Part Code	GI pipe / Pipe Height Elevation	Triggered Advance ΔT	PROTECTION RADIUS (R p) in mtrs			
			LEVEL I	LEVEL II	LEVEL III	LEVEL IV
RES-175	2m	60 μ Sec	31	35	39	43
	3m		47	52	58	64
	5m		79	86	97	107
	10m		79	88	99	109



3.1.2 GI Pipe/Mast and Accessories

3.1.2.1. Gi Pipe/Mast

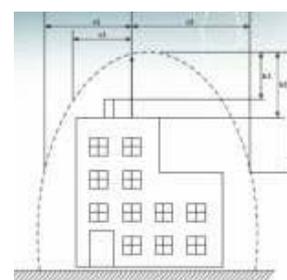
GI Pipe / Elevation Pipe Height	
Part Code	GI pipe / Elevation Pipe Height
R2MGI-57	2m
R3MGI-57	3m
R5MGI-57	5m
R10MGI-57	10m



Note: Representative image of ESE Assembly with Gi pipe, FRP socket and Guy wire

3.1.2.2. Guy Wire

Description	Part Code
25 Mtr. GI Guy Wire	RESGW-01



Lightning protected the structure with coverage radius



3.1.2.3. FRP Socket

FRP Socket provides non conductivity between the ESE Air Terminal and GI Pipe.

FRP SOCKET : ESE Air Terminal to GI Pipe	
Description	Part Code
FRP Socket	RFES-01

3.1.3. Lightning Flash Counter

Description	Part Code
6 Digit Manual Lightning Flash Counter	RLCS-B



3.1.4. Tester for ESE

Description	Part Code
Manual Standard Tester for ESE Air Terminal	RSTLA
Remote Tester for ESE Air Terminal	RRTLTA



3.2. Air Termination - Passive Components

3.2.1 Air terminal Rods - Passive Components

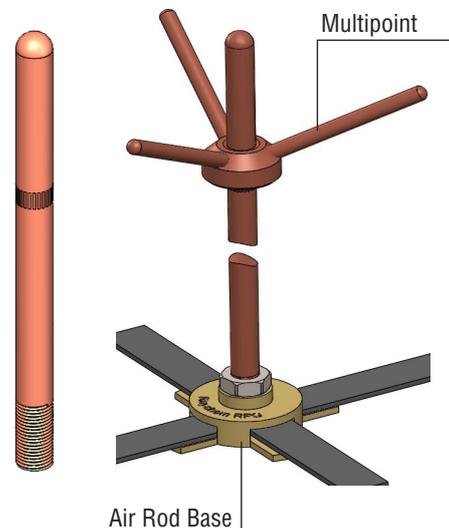
Air Terminal Rod is used on highest point of an elevated structure to capture maximum lightning strike.

Product Code	Nominal dia. in mm	Thread Size	Length mm	Certification / Standard
RAR-01	15	M16	300	* *
RAR-02	15	M16	500	* *
RAR-03	15	M16	1000	* *
RAR-04	15	M16	1500	* *
RAR-05	15	M16	2000	* *
RAR-06	19	M20	300	*
RAR-07	19	M20	500	*
RAR-08	19	M20	1000	*
RAR-09	19	M20	1500	*
RAR-10	19	M20	2000	*

- * UL Listed
- * IEC 62561-2



- Grade of Copper used is ETP - Cu, having 99.9% purity.
- It is recommended to use Raychem's Guy Wire Support Flange for Air Rod over 1000 mm.
- Above Air Terminal Rods are also available in Aluminium. Add Suffix "A" after Part Code. Ex. "RARA-XX"



Representative Image of Air Rod Assembly with Multipoint and Base

3.2.2. Multipoint

Product Code	Product Name
RMP-01	Multipoint Set for 15mm dia. rod
RMP-02	Multipoint Set for 19mm dia. rod



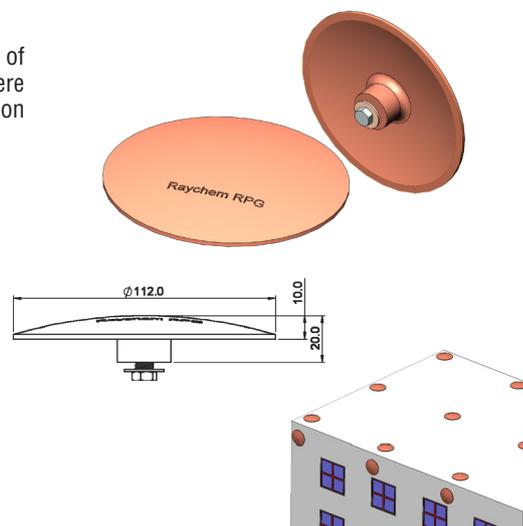
3.2.3. Strike Pad

Used where it is not possible to install conductor on the roof or side of a building. A typical application would be on the roof of a car park where the conductor is laid underneath the tarmac and the strike pads fitted on top.

Material: High Strength Copper Alloy

Part Code	Dia
RASP-01	112 mm

- Additional accessories (Stem, Locknut, etc..) can be provided as per request.

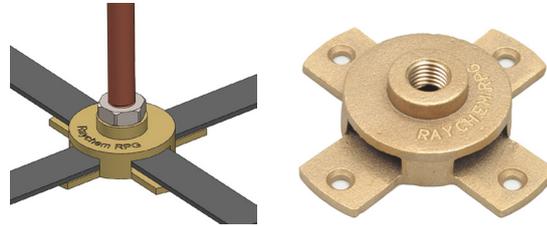


3.3. Air Terminal Base

3.3.1. Base: Tape Type

Electrical connection between air terminal rod and down conductor.

Product Code	Material	Thread Dia	Tape in mm	Certification/Standard
RAT-01	Copper Alloy	M16	25 x 3	* *
RAT-03	Copper Alloy	M20	25 x 3	*
RATA-01	Aluminium	M16	25 X 3	
RATA-03	Aluminium	M20	25 X 3	



* UL Listed

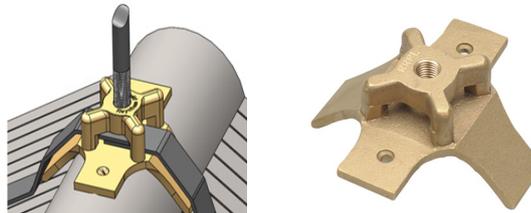
* IEC 62561-1; BS EN 50164 -1; EN 50164-1 Class H



3.3.2. Ridge Saddle: Tape Type

Used to provide support to the Air terminal rod on roof ridges.

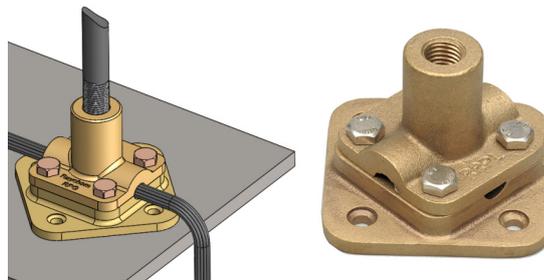
Product Code	Thread Dia.	Max. Tape Size in mm
*RRS-01	M16	30 x 6
RRS-03	M20	30 x 6



3.3.3. Conductor Type

Electrical connection between air terminal rod and down conductor (conductor).

Product Code	Cross Section in mm ²	Threading Dia.
RAT-101	50	M16
RAT-102	50	M20
*RAT-103	70	M16
RAT-104	70	M20
RAT-105	95	M16
RAT-106	95	M20



3.4. Air Rod Side Mounting Brackets & Connection Clamps

3.4.1. Side Mounting Brackets

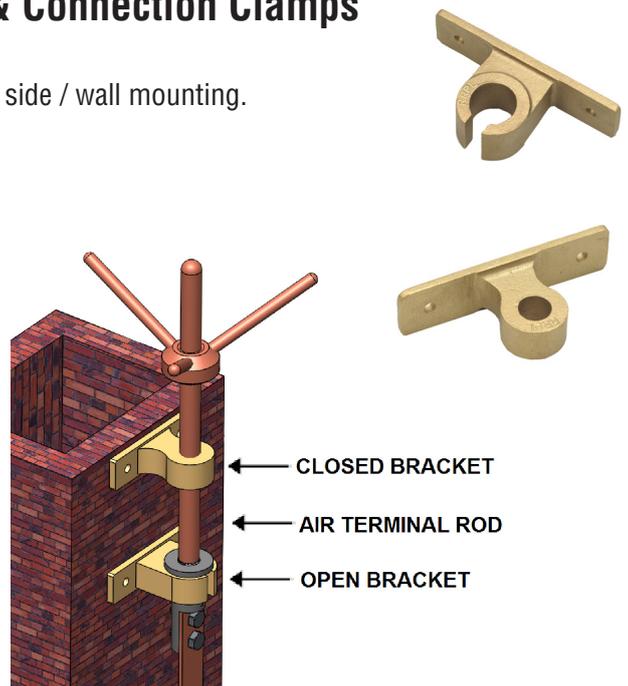
Used to provide support to the Air terminal rod on side / wall mounting.

Open Type Bracket

Product Code (Open Type)	Rod Dia. in mm
Copper Alloy	
RROB-01	15
RROB-02	19

Closed Type Bracket

Product Code (Closed Type)	Rod Dia. in mm	Tape Size in mm
Copper Alloy		
RRCB-01	15	25x3
RRCB-02	19	25x3

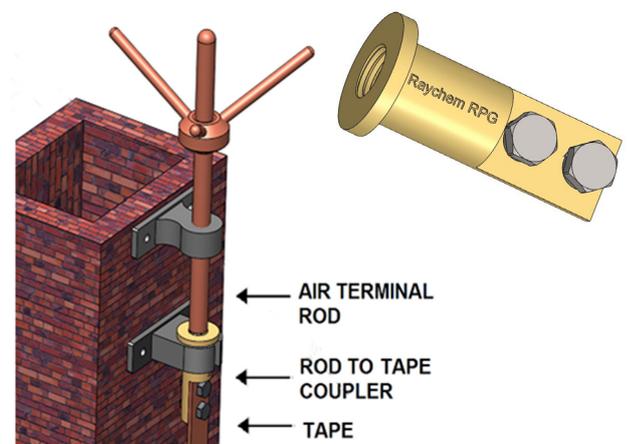


3.4.2. Connection Clamp for Rod to Conductor

Connection Clamp: Rod to Tape Coupling

Used to provide coupling support to the Air terminal rod to Tape on side / wall mounting bracket.

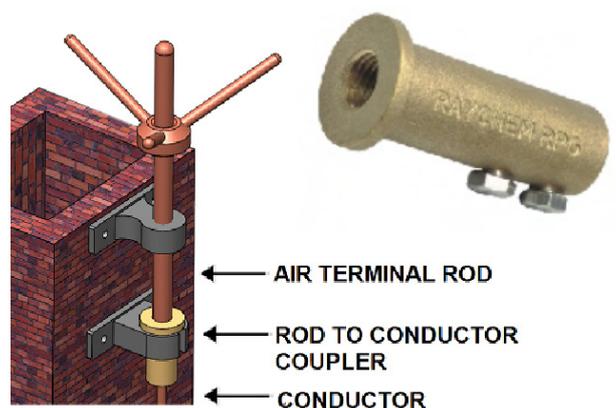
Product Code	Thread dia.	Tape Size in mm
Copper Alloy		
*RTC-01	M16	25x3
RTC-03	M20	25x3



Connection Clamp: Rod to Cable Coupling

Used to provide coupling support to the Air terminal rod to Cable / conductor on side / wall mounting bracket.

Product Code	Thread Dia.	C/S Range in mm ²
Copper Alloy		
*RRC-01	M16	35 - 95
RRC-02	M20	35 - 95



3.5. Clamping Accessories

3.5.1. DC Tape Clip – Tape Type

It provides support to the down conductor tape and is rigid enough to with stand mechanical stresses, lightning stresses, and thermal expansion and contraction of the conductor tapes.

Product Code	Copper Tape / Strip Size in mm	Certification/ Standard
Copper Alloy		
RDC-01	20 x 3	*
RDC-02	25 x 3	* *
RDC-03	25 x 4	*
RDC-04	25 x 6	*
RDC-05	31 x 3	*
RDC-06	31 x 6	*
RDC-07	38 x 3	*
RDC-08	38 x 5	*
RDC-09	38 x 6	*
RDC-10	50 x 3	*
RDC-11	50 x 4	*
RDC-12	50 x 6	*
RDC-13	50 x 8	*
RDC-17	30 x 5	*
RDC-18	40 x 5	*
RDC-19	31 x 7	*
RDC-20	50 x 5	*



* UL Listed
* IEC 62561-4

3.5.2. Tape Clip – Tape Type

It supports tape / strip on the flat surface.

Product Code	Conductor Size in mm
Copper	
RTC-101	20 x 3
RTC-102	25 x 3
RTC-103	50 x 6
RTC-106	31 x 6

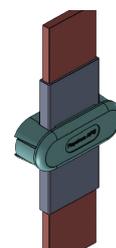


3.5.3. Non-Metallic DC Tape Clip

It provides support to the PVC insulated tape and is rigid enough to with stand mechanical stresses, lightning stresses, and thermal expansion and contraction of the conductor tapes.

Material: Polyamide, UV Resistant

Product Code	Tape Size in mm	Colour	Tape
RDCP-01	25 x 3	Grey	PVC Covered Tape
RDCP-02	25 x 3	Grey	Bare Tape



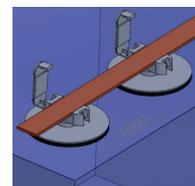
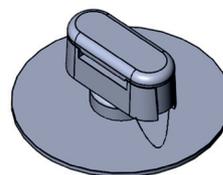
3.5.4. Self-Adhesive DC Tape Clip

- It secures conductors to surfaces that cannot be penetrated by a screw.
- Suitable for aluminum, copper, Insulated tapes.
- Applicable for glass, Perspex, enamel and stainless steel etc.

Disc Dia.: 85mm

Material: Polyamide base with Polyamide clip, UV Resistant.

Product Code	Tape Size in mm	Tape type
RSADC-253P	25 x 3	PVC Covered Tape
RSADC-253	25 x 3	Bare Tape



Compound for Self-Adhesive DC Tape Clip:

Very High Bond (VHB) Double Sided Foam Type

1. Very conformable, double-sided, pressure-sensitive, closed-cell acrylic foam tape.
2. High strength, Durable and Clean appearance.

3.5.5. Square Tape Clamp (Type 1)

Square tape clamp are used for supporting or fixing the 4-Way connection.

Product Code	Copper Tape / Strip size in mm
Copper Alloy	
RSC-01	20 x 3
*RSC-02	25 x 3
RSC-04	25 x 6
RSC-05	38 x 3
RSC-07	38 x 6
RSC-08	50 x 3
RSC-09	50 x 6



3.5.6. Back Plate Holdfast Clamp

It's required for installation of tape / conductor, when the tape/conductor is to be secured away from the face of wall.

Note: This should be used with appropriate DC Tape Clip / Conductor Saddle.

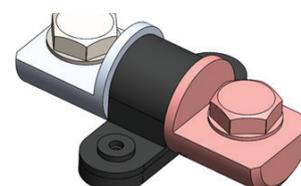
Product Code	Material
RBPH - 01	Copper Alloy



3.5.7. Bi-Metallic Connector

Bi-Metallic connectors are used to join aluminium and copper tapes / cables together. They enable a neat and practical jointing method without the need for tinning, riveting or wrapping the joint.

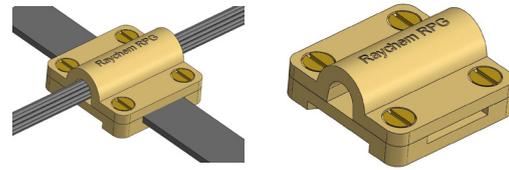
Product Code	Tape Size in mm
RBMC-02	25 x 3



3.5.8. Square Clamp - Tape To Conductor

Square Clamp are used to cross joints between the tape to solid conductor.

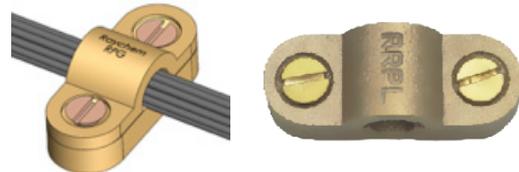
Product Code	Tape Size	Conductor Size in Sq. mm.
Copper Alloy	Copper	
RTSC-70253	25X3	70



3.5.9. Heavy Duty Conductor Saddle

It uses in conjunction wall mounted air terminal bases.

Product Code	Conductor C/S in Sq. mm
Copper Alloy	
RHDS-50	50
RHDS-70	70
RHDS-95	95
RHDS-120	120
RHDS-240	240



3.5.10. One Hole Clip

It supports round conductor on the flat surface

Product Code	Conductor in Sq. mm
Copper	
RHC-01	25 – 35
RHC-02	50 – 70
RHC-03	95
RHC-04	120
RHC-05	150
RHC-06	185
RHC-07	240
RHC-08	300



3.5.11. Square Conductor Clamp - Type 2

Square conductor Clamps are used for supporting or fixing the 4 - way connections on down conductor and an effective low resistive connection between overlapping conductors.

Product Code	Conductor C/S in Sq. mm
Copper Alloy	
RSC-201	35
*RSC-202	50
*RSC-203	70
RSC-204	95
RSC-205	120



3.5.12. Tee Clamp

It provides effective low resistance cross joints in solid circular conductor networks.

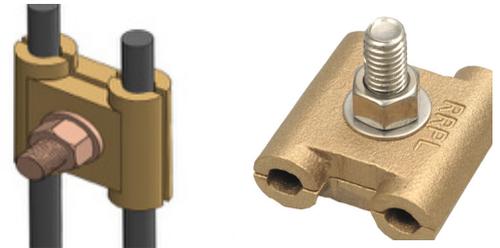
Product Code	Conductor in Sq.mm
Copper Alloy	
RTC-135	35
*RTC-150	50-95



3.5.13. Jointing Clamp

It provides effective low resistance cross joints in solid circular conductor networks.

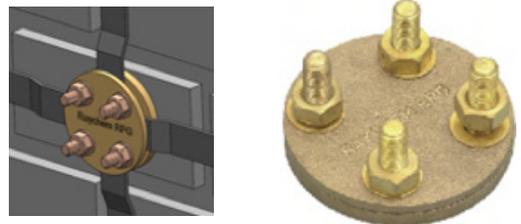
Product Code	Conductor Dia. in mm
Copper Alloy	
*RJC-01	8



3.5.14. Plate Test Clamp

It's used for supporting or fixing the 4 - way connections on down conductor and an effective low resistive connection between overlapping conductors.

Product Code	Tape Size in mm
Copper Alloy	
*RPC-33	25 x 3



3.5.15. Screwdown Test Clamp

It's used to create a disconnection joint between the down conductor system with 4 - way connections and earthing system.

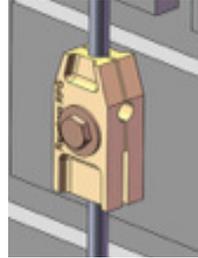
Product Code	Tape Size in mm
Copper Alloy	
*RSC-253	25 x 3



3.5.16. Interface Test Clamp

Provides an effective low resistance connection and disconnection between overlapping conductors.

Product Code	Conductor dia. mm	Conductor Size in mm
Copper Alloy		
*RITC-01	8	25 x 3

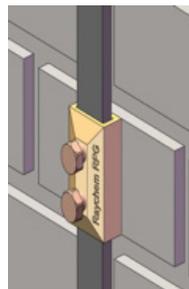


3.5.17. Oblong Test Clamp

Provides an effective low resistance connection and disconnection between overlapping tape / strip conductors.

Material: High Strength Copper Alloy

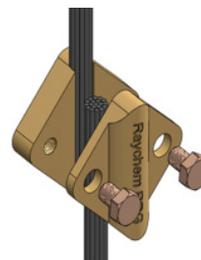
Product Code	Conductor Size in mm
*ROC-01	26 x 8
ROC-02	38 x 6
ROC-03	51 x 10



3.5.18. Test Clamp

Provides an effective low resistance connection and disconnection between overlapping conductors.

Product Code	Conductor Size in Sq mm
Copper Alloy	
RRCT-01	35
RRCT-02	50
*RRCT-03	70
RRCT-04	95

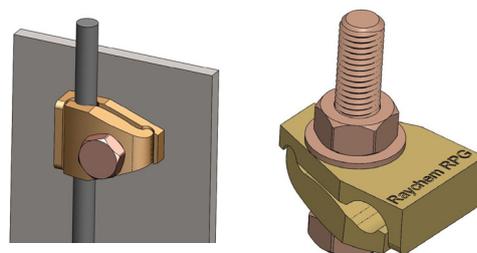


3.6. Bonding Components

3.6.1. Tower Earth Clamp

- Bonding for copper conductors onto steel surfaces.
- The double plate design provides robust fixing in areas cladding may be installed or the entire surface may be covered with cement.

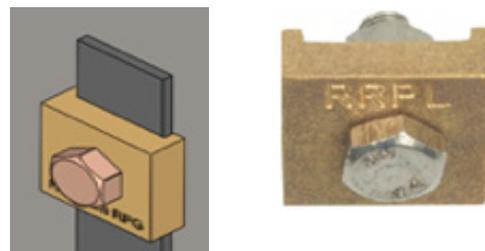
Product Code	Conductor Range in Sq. mm	Channel Thickness in mm	Bolt Size
Copper Alloy			
RTB-01	16-70	10	M10
*RTB-02	70-120	10	M12
RTB-03	25-50	10	M10
RTB-04	120-185	10	M12
RTB-05	185-240	10	M12



3.6.2. B Bond Clamp

- Bonding for tape to steel surfaces.

Product Code	Max. Tape Size in mm	Bolt Size	Conductor Tape Material
Copper Alloy			
*RBB-01	26	M10	Copper
RBB-03	31	M10	Copper



3.6.3. Watermain Pipe Bond – Tape Type

Water main Pipe Bonds are used for bonding metallic water main pipes and copper tapes to earthing system. They are used for bonding large diameter pipes and tape to earthing system.

Product Code	Max. Tape Width in mm	Conductor Tape Material
Copper Alloy		
RWP-01	26	Copper
RWP-03	31	Copper



3.6.4. Rainwater pipe Bond

Rain Water Pipe Bonds are used for bonding metallic rain water pipes and tapes to earthing system.

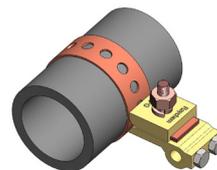
For use with Solid Tapes

Product Code	Max. Tape Width in mm	Conductor Tape Material
RRP-01	26	Copper / Aluminium
RRP-03	38	Copper / Aluminium



For use with Bare Solid Conductor and Perforated tape

Product Code	Conductor Size in mm	Material
RRP-101-XXX	8	Copper Alloy with Perforated copper tape



- XXX - Pipe Dia. in mm
- For bonding to ducts and large Dia. of pipe works.
- Perforated Strip can be supplied separately in 50m Roll.

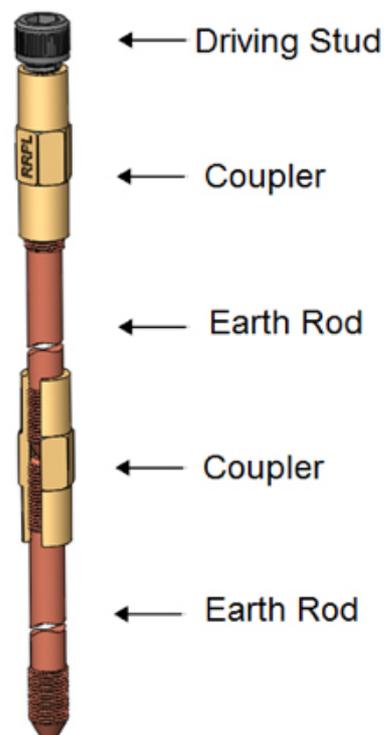
D. EARTHING PROTECTION

3.7. Earth Rods And Accessories

3.7.1. Threaded Copper Bonded Earth Rod

Externally threaded Copper Bonded Earth Rods are manufactured from a high tensile strength low carbon steel core with a minimum of 254 microns of pure electrolytic copper molecularly bonded to its surface.

Product Code (254 microns)	Shank Dia. mm	Earth Rod Size in UNC Thread	Rod Length in mm	Certification/ Standard
RET-01	12.7	9/16"	1200	*
RET-02	12.7	9/16"	1500	*
RET-03	12.7	9/16"	1800	*
RET-04	12.7	9/16"	2440	* *
RET-05	12.7	9/16"	3050	* *
RET-06	14.2	5/8"	1200	* *
RET-07	14.2	5/8"	1500	* *
RET-08	14.2	5/8"	1800	* *
RET-09	14.2	5/8"	2440	* * *
RET-10	14.2	5/8"	3050	* * *
RET-15	17.2	3/4"	1200	*
RET-16	17.2	3/4"	1500	*
RET-17	17.2	3/4"	1800	*
RET-18	17.2	3/4"	2440	* *
RET-19	17.2	3/4"	3050	* *



High Tensile Low Carbon Steel Core with minimum of 254 microns of copper

- * UL Listed
- * IEC 62561-2
- * BS 7430



Driving Stud:

The driving stud is used as the impact bearing head when deep driving of earth electrode is required.

Product Code	Earth Rod Size in UNC Thread
RID-01	5 / 8"
RID-02	3 / 4"
RID-03	9/16"

Coupler:

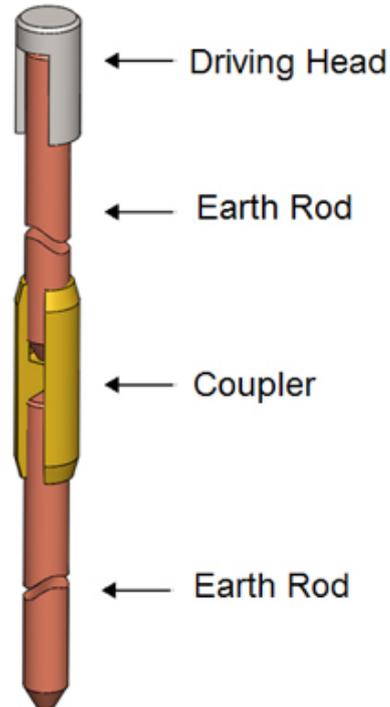
Coupler is used to combine two / more earth rods.

Product Code	Earth Rod Size in UNC Thread	Certification/ Standard
RECB-01	9/16"	*
RECB-02	5 / 8"	* *
RECB-03	3/4"	*

3.7.2. Unthreaded Copper Bonded Earth Rod

Unthreaded Copper Bonded Earth Rods are manufactured from a high tensile strength low carbon steel core with a minimum of 254 microns of pure electrolytic copper molecularly bonded to its surface.

Product Code (254 microns)	Earth Rod Dia. in mm	Rod Length in mm	Certification/ Standard
REU-04	12.7	1200	*
REU-05	12.7	1500	*
REU-06	12.7	1800	*
REU-07	12.7	2440	* *
REU-08	12.7	3050	* *
REU-09	14.2	1200	*
REU-10	14.2	1500	*
REU-11	14.2	1800	*
REU-12	14.2	2440	* *
REU-13	14.2	3050	* *
REU-14	17.2	1200	*
REU-15	17.2	1500	*
REU-16	17.2	1800	*
REU-17	17.2	2440	* *
REU-18	17.2	3050	* *



High Tensile Low Carbon Steel Core with minimum of 254 microns of copper

* UL Listed
* BS 7430



Driving Head:

The driving head is used as the impact bearing head when deep driving of earth electrode is required.

Product Code	Earth Rod Size in UNC Thread
RDH-01	12.7
RDH-02	14.2
RDH-03	17.2

Coupler:

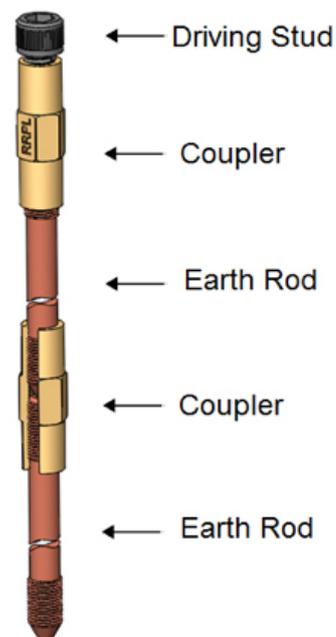
Coupler is used to combine two / more earth rods.

Product Code Silicon Bronze	Earth Rod Size in UNC Thread	Certification/ Standard
RECUS-12	12.7	*
RECUS-58	14.2	*
RECUS-34	17.2	*

3.7.3. Externally Threaded Solid Copper Earth Rod

Raychem RPG's Solid Copper Earth Rods are made from High Conductivity, Hard drawn ETP copper with 99.9% purity.

Product Code	Earth Rod Size in UNC Thread	Shank Dia. in mm	Length in mm	Certification / Standard
RES-01	9/16"	12.7	1200	*
RES-02	9/16"	12.7	1500	*
RES-03	9/16"	12.7	1800	*
RES-04	9/16"	12.7	2440	* *
RES-05	9/16"	12.7	3050	* *
RES-06	5/8"	14.2	1200	*
RES-07	5/8"	14.2	1500	*
RES-08	5/8"	14.2	1800	*
RES-09	5/8"	14.2	2440	* *
RES-10	5/8"	14.2	3050	* *
RES-11	5/8"	16	1200	*
RES-12	5/8"	16	1800	*
RES-13	5/8"	16	2440	* *
RES-14	5/8"	16	3050	* *
RES-15	3/4"	17.2	1200	*
RES-16	3/4"	17.2	1500	*
RES-17	3/4"	17.2	1800	*
RES-18	3/4"	17.2	2440	* *
RES-19	3/4"	17.2	3050	* *



* UL Listed
* BS 7430



Driving Stud:

The driving head is used as the impact bearing head when deep driving of earth electrode is required.

Product Code	Earth Rod Dia.
	UNC Thread
RID-01	5 / 8
RID-02	3 / 4
RID-03	9 / 16

Coupler:

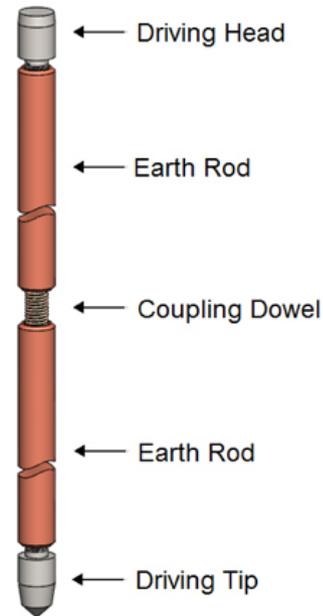
Coupler is used to combine two / more earth rods.

Product Code	Earth Rod Size in UNC Thread	Certification / Standard
RECB-01	9/16"	*
RECB-02	5 / 8"	* *
RECB-03	3/4"	*

3.7.4. Internally Threaded Solid Copper Earth Rod

Raychem RPG's Internally Threaded Copper Earth Rods are made from High Conductivity, Hard Drawn ETP Copper with 99.9% purity

Product Code	Thread Dia.	Shank Dia. in mm	Length in mm	Certification / Standard
RIS-01	M10	15	1200	*
RIS-07	M10	15	1500	*
RIS-02	M10	15	1800	*
RIS-03	M10	15	2440	* *
RIS-08	M10	15	3050	* *
RIS-04	M12	20	1200	*
RIS-09	M12	20	1500	*
RIS-05	M12	20	1800	*
RIS-06	M12	20	2440	* *
RIS-10	M12	20	3050	* *
RIS-11	M10	16	1200	*
RIS-12	M10	16	1500	*
RIS-13	M10	16	1800	*
RIS-14	M10	16	2440	* *
RIS-15	M10	16	3050	* *
RIS-16	M12	19	1200	*
RIS-17	M12	19	1500	*
RIS-18	M12	19	1800	*
RIS-19	M12	19	2440	* *
RIS-20	M12	19	3050	* *



* UL Listed
* BS 7430



Driving Head:

The driving head is used as the impact bearing head when deep driving of earth electrode is required.

Product Code	Earth Rod Dia. in mm	Thread Size
RDS-02	15	M10
RDS-03	20	M12
RDS-04	16	M10
RDS-05	19	M12

Coupling Dowell:

Coupler dowell used to combine two / more earth rods.

Product Code	Earth Rod Dia. in mm
RIC-01	15
RIC-02	20
RIC-03	16
RIC-04	19

Driving Tip:

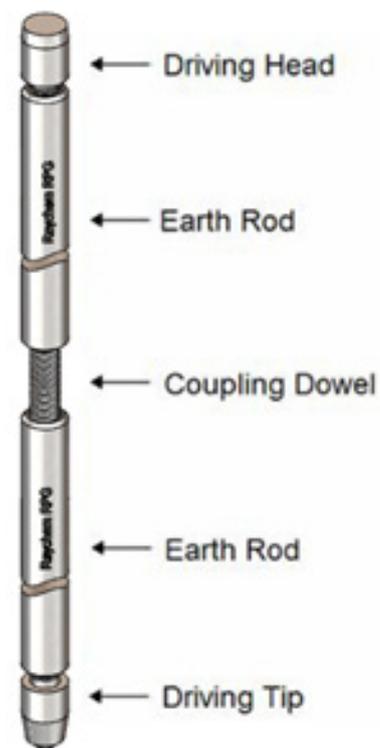
Driving Tip is used to drive earth rod easily into the grounds.

Product Code	Earth Rod Dia. in mm
RIT-01	15
RIT-02	20
RIT-03	16
RIT-04	19

3.7.5. Stainless Steel Earth Rod

Internally Threaded

Product Code	Thread Dia.	Shank Dia. in mm	Rod Length in mm	Certification / Standard
RISS-01	M10	15	1200	*
RISS-07	M10	15	1500	*
RISS-02	M10	15	1800	*
RISS-03	M10	15	2440	* *
RISS-08	M10	15	3050	* *
RISS-04	M12	20	1200	*
RISS-09	M12	20	1500	*
RISS-05	M12	20	1800	*
RISS-06	M12	20	2440	* *
RISS-10	M12	20	3050	* *
RISS-11	M10	16	1200	*
RISS-12	M10	16	1500	*
RISS-13	M10	16	1800	*
RISS-14	M10	16	2440	* *
RISS-15	M10	16	3050	* *
RISS-16	M12	19	1200	*
RISS-17	M12	19	1500	*
RISS-18	M12	19	1800	*
RISS-19	M12	19	2440	* *
RISS-20	M12	19	3050	* *



* UL Listed
* BS 7430



Driving Head:

The driving head is used as the impact bearing head when deep driving of earth electrode is required.

Product Code	Earth Rod Dia. in mm	Thread Size
RDS-02	15	M10
RDS-03	20	M12
RDS-04	16	M10
RDS-05	19	M12

Coupling Dowell:

Coupler dowell used to combine two / more earth rods.

Product Code	Earth Rod Dia. in mm
RICS-01	15
RICS-02	20
RICS-03	16
RICS-04	19

Driving Tip:

Driving Tip is used to drive earth rod easily into the grounds.

Product Code	Earth Rod Dia. in mm
RIT-01	15
RIT-02	20
RIT-03	16
RIT-04	19

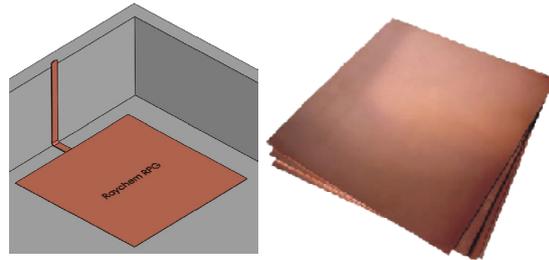
3.8. Earth Plate and Lattice - Copper

3.8.1. Solid Earth Plate

An alternative solution of earth electrode where the environmental conditions prohibit the driving of earth rods. The Solid copper plates should be installed with earth-enhancing compound

Product Code	Plate Size in mm
ETP Grade Copper	
REP-01	500 x 500 x 1.5
REP-02	500 x 500 x 3
REP-03	600 x 600 x 1.5
REP-04	600 x 600 x 3
REP-05	900 x 900 x 1.5
REP-06	900 x 900 x 3
REP-07	1000 x 1000 x 1.5
REP-08	1000 x 1000 x 3

ETP Grade COPPER



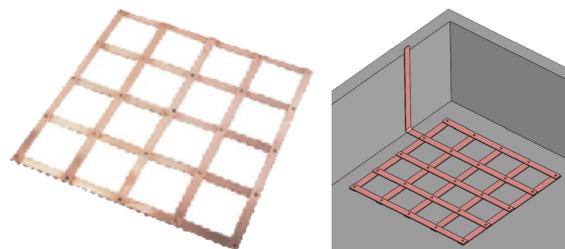
Note : Customized sizes can be available as per the request.

3.8.2. Earth Lattice

Earth Lattice used, where touch and step potential could cause a problem.

Product Code	Lattice Size in mm	No. of Strips
ETP Grade Copper		
REL-01	500 x 500 x 2	10
REL-02	500 x 500 x 3	10
REL-03	500 x 500 x 5	10
REL-04	600 x 600 x 2	10
REL-05	600 x 600 x 3	10
REL-06	600 x 600 x 5	10
REL-07	900 x 900 x 2	10
REL-08	900 x 900 x 3	10
REL-09	900 x 900 x 5	10
REL-10	1000 x 1000 x 2	12
REL-11	1000 x 1000 x 3	12
REL-12	1000 x 1000 x 5	12

ETP Grade Copper



Note : Customized sizes can be available as per the request.

3.9. Inspection Pits

3.9.1. Concrete Inspection Pit

This facilitates periodic inspection of the connection for corrosion and regular maintenance, to ensure the safety of personnel and equipment from earth fault currents and the high currents injected into the earth by a lightning protection system.

Product Code	Dimensions in mm	Rated Load Kg
*RIP-33	325 (L) x 325 (W) x 190 (D)	3500



IEC 62561-5



3.9.2. Light weight Inspection Pit

Manufactured from high-performance, UV stable and chemically resistant polymer with either polymer or concrete lid to suit the application.

Product Code	Dimensions in mm	Rated Load Kg
REP-33	200 (Dia.) x 156 (Depth)	5000 kg



3.9.3. Inspection Housing Earth Bar

These earth bars fit into the slots provided in the concrete inspection housing and are used when multiple connections to the earth rod are required.

Product Code	Hole Dia. in mm	No of Holes	Application
RIH-01	11	5	Refer product RIP-33
RIH-02	11	7	Refer product RIP-33
RIH-03	11	5	Refer product REP-33
RIH-04	11	7	Refer product REP-33

- Grade of Copper used is ETP - Cu, having 99.9% purity.
- Earth Bar cross section (30 x 6)mm.

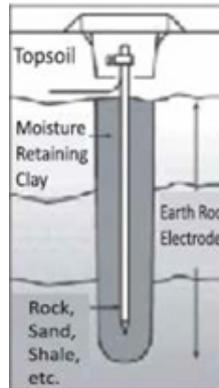


3.10. Backfill Earth Enhancing

3.10.1. Bentonite

Bentonite is used to lower the resistance to earth by providing ground enhancement and effectively reducing the resistance between soil and earth electrode (such as copper earth rod or earth mats). This inherent ability to absorb and retain rainwater increases the electrical conductivity of the earthing compound in positive correlation to local climatic conditions.

Product Code	Weight (Kg.)
RBM-33	25



3.10.2. Backfill Earth Enhancing Compound with Pre-Mixed Concrete

Backfill Earth Enhancing Compound with Pre-Mixed Concrete enables electrical earthing system designers and installers to achieve permanent, stable and low resistance earthing solutions, even in difficult ground conditions when used as a backfill to enhance the effects of copper earth electrodes or earth mats. It is a granulated electrically conductive aggregate which replaces sand in mixes with cement, thereby providing electrically conductive concrete.

Product Code	Weight (Kg.)
RBFC-33	25

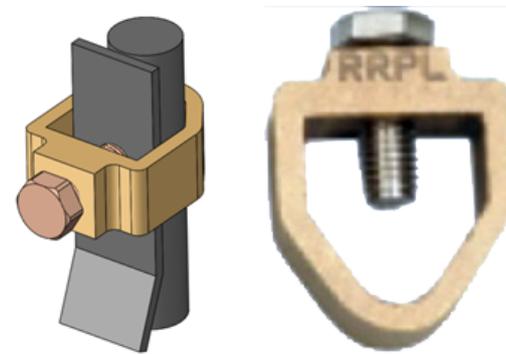


3.11. Clamps & Copper

3.11.1. Rod to Tape Clamp (Type A)

Rod to Cable Clamp is used for providing a secure connection between the down conductor tape and the earth rod.

Product Code	Earth Rod Size in UNC Thread	Max. Tape In mm
Copper Alloy		
RCA-01	1/2"	26 x 12
RCA-02	5/8"	26 x 12
RCA-03	3/4"	26 x 10
RCA-04	5/8"	30 x 2
RCA-05	3/4"	30 x 2
RCA-06	5/8"	40 x 12
RCA-07	5/8"	51 x 8
*RCA-08	3/4"	51 x 12
RCA-09	1/2"	26 x 20
RCA-10	5/8"	26 x 18
RCA-11	1"	26 x 10



3.11.2. U-Bolt : Single Plate Type for Horizontal Flat Cable Tape (Type "E")

U-bolt Clamps- Single Plate Type is used for providing a secure connection between the horizontal tape and the earth rod.

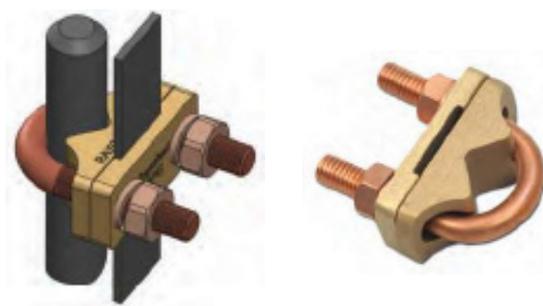
Product Code	Earth Rod Size in UNC Thread	Hole Tape In mm
Copper Alloy		
RUE-01	5/8"	37
RUE-02	3/4"	37
RUE-03	1"	37



3.11.3. U-Bolt : Double Plate Type for Vertical Flat Tape (Type "E")

U-bolt Clamps- Double Plate Type is used for providing a secure connection between the vertical tape and the steel reinforcement bar.

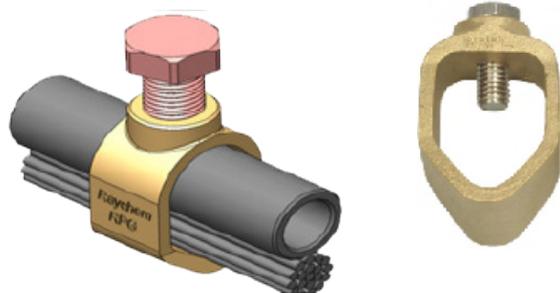
Product Code	Earth Rod Size in UNC Thread	Hole Tape In mm
Copper Alloy		
RUD-01	5/8"	25 X 3
RUD-02	3/4"	25 X 3
RUD-03	1"	25 X 3



3.11.4. Rod to Cable Clamp (Type G)

Rod to Cable Clamp is used for providing a secure connection between the down conductor cable and the earth rod.

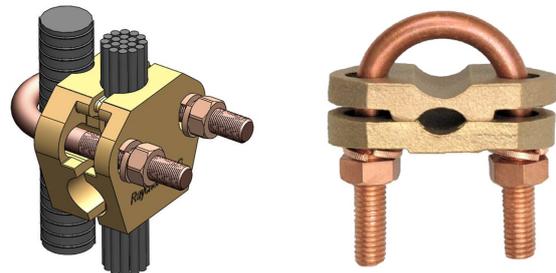
Product Code	Earth Rod Size in UNC Thread	Cross Section in Sq. mm
Copper Alloy		
RCG-01	3/8"	6 - 35
RCG-02	1/2"	16 - 50
*RCG-03	5/8"	16 - 70
RCG-04	3/4"	16 - 95
RCG-05	1"	70 - 120
RCG-06	1.1/2"	120 - 150



3.11.5. U-Bolt : Double Plate Type for Vertical Stranded Cable Type (Type GUV)

U-bolt Clamps- Double Plate Type for Vertical Stranded Cable Type GUV is used for providing a secure connection between the down conductor vertical stranded cable and the earth rod.

Product Code	Earth Rod Size in UNC Thread	Conductor Range in Sq. mm
Copper Alloy		
RUC-01	5/8"	35 - 120
RUC-02	5/8"	120 - 300
*RUC-03	3/4"	35 - 120
RUC-04	3/4"	120 - 300
RUC-05	1"	35 - 120
RUC-06	1"	120 - 300



3.11.6. Split Connector Clamp (Type B)

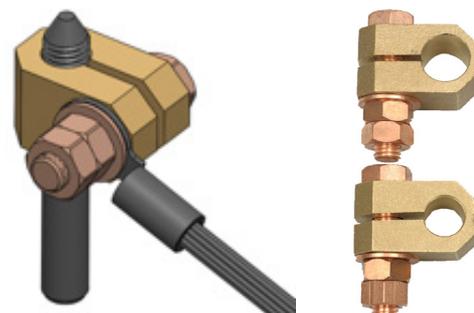
- Direct Connection of Earth Rod to Stranded Conductor with suitable lug and most suitable for unthreaded / threaded rods.

Unthreaded Clamp:

Product Code	Nominal Rod Dia. in mm
Copper Alloy	
RSBU-01	9.5
RSBU-02	12.7
RSBU-03	14.2
RSBU-04	17.2
RSBU-05	25.4

Threaded Clamp:

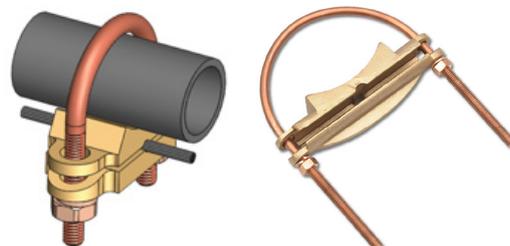
Product Code	Earth Rod Size in UNC Thread
Copper Alloy	
RSBT-01	3/8"
RSBT-02	1/2"
RSBT-03	5/8"
RSBT-04	3/4"
RSBT-05	1"



3.11.7. Pipe Clamp

- Bonding for conductor to pipe. It provides earth continuity to pipelines.

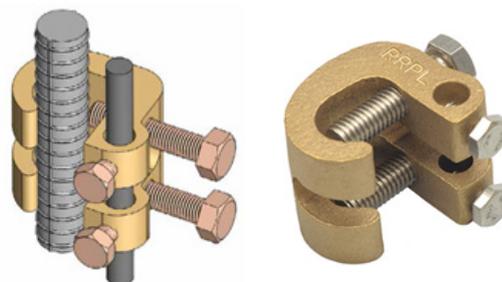
Product Code	Pipe Dia. in Inch	Conductor in Sq. mm
Copper Alloy		
RPC-101	1/2" - 1"	25 - 95
RPC-102	1.1/4" - 2"	25 - 95



3.11.8. Rebar Clamp

Rebar Clamp is used for providing a secure connection between the down conductor cable and reinforcing bar, steam pipes, handrails etc.

Product Code	Conductor Dia. in mm	Rebar Dia. in mm
Copper Alloy		
RREC-01	8	8 - 18
RREC-02	8	8 - 38



3.12. Earth Points

3.12.1. Single Hole Earth Point

Earth Point No.	Product Code	Hole Size	Earth Point with Pre-Welded Tail
01	RBP-01	M8	REPT-01-70-500
02	*RBP-02	M10	REPT-02-70-500
03	RBP-03	M12	REPT-03-70-500
04	RBP-04	M16	REPT-04-70-500



3.12.2. Two Hole Earth Point

Earth Point No.	Product Code	Hole Size	Earth Point with Pre-Welded Tail
05	RBP-05	M8	REPT-05-70-500
06	*RBP-06	M10	REPT-06-70-500



3.12.3. Four Hole Earth Point

Earth Point No.	Product Code	Hole Size	Earth Point with Pre-Welded Tail
07	RBP-07	M8	REPT-07-70-500
08	RBP-08	M10	REPT-08-70-500



- Size of Pre-Welded Tail can be modified with different C/S Area of Conductor and length of Conductor.

3.13. Bonding Components

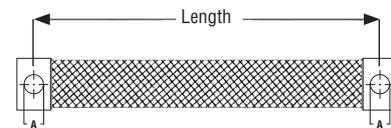
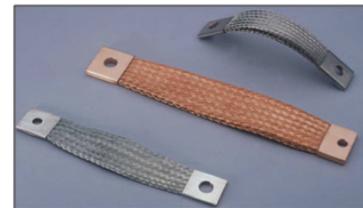
3.13.1. Braid

Flat Flexible / Circular Braid

Raychem RPG Manufacturers flexible bonding conductors / flexible earth braid.

Flat Flexible Braid

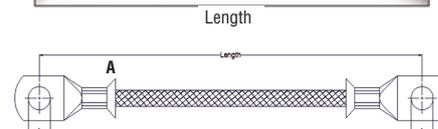
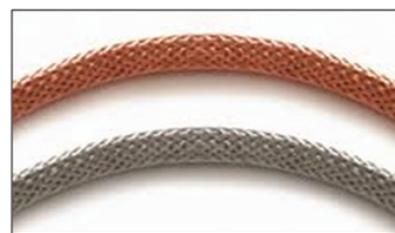
Product Code	Product Code	Cross Section Area	Nominal Dimension	Length of Braid	Hole Diameter (A)
Bare	Tinned	Sq. mm	mm	mm	mm
RBCB 200-6-7	RTCB 200-6-7	6	12 x 1	200	7
RBCB 400-6-7	RTCB 400-6-7	6	12 x 1	400	7
RBCB 200-10-7	RTCB 200-10-7	10	15 x 1.5	200	7
RBCB 400-10-7	RTCB 400-10-7	10	15 x 1.5	400	7
RBCB 200-16-9	RTCB 200-16-9	16	19 x 2.5	200	9
RBCB 400-16-9	RTCB 400-16-9	16	19 x 2.5	400	9
RBCB 200-25-11	RTCB 200-25-11	25	25 x 3.0	200	11
RBCB 400-25-11	RTCB 400-25-11	25	25 x 3.0	400	11
RBCB 200-35-11	RTCB 200-35-11	35	25 x 3.5	200	11
RBCB 400-35-11	RTCB 400-35-11	35	25 x 3.5	400	11
RBCB 200-50-11	RTCB 200-50-11	50	30 x 5.0	200	11
RBCB 400-50-11	RTCB 400-50-11	50	30 x 5.0	400	11
RBCB 200-70-13	RTCB 200-70-13	70	32 x 6.0	200	13
RBCB 400-70-13	RTCB 400-70-13	70	32 x 6.0	400	13
RBCB 200-95-13	RTCB 200-95-13	95	37 x 6.0	200	13
RBCB 400-95-13	RTCB 400-95-13	95	37 x 6.0	400	13
RBCB 200-120-17	RTCB 200-120-17	120	45 x 6.0	200	17
RBCB 400-120-17	RTCB 400-120-17	120	45 x 6.0	400	17
RBCB 200-150-17	RTCB 200-150-17	150	50 x 8.0	200	17
RBCB 400-150-17	RTCB 400-150-17	150	50 x 8.0	400	17



- Grade of Copper used is ETP - Cu, having 99.9% purity.
- Customised **Sizes** and **Length** available as per the request.

Circular Braid

Product Code	Product Code	Cross Section Area	Length of Braid	Hole Diameter (A)
Bare	Tinned	Sq. mm	mm	Amps
RBCCB 200-6-7	RTCCB 200-6-7	6	200	7
RBCCB 400-6-7	RTCCB 400-6-7	6	400	7
RBCCB 200-10-7	RTCCB 200-10-7	10	200	7
RBCCB 400-10-7	RTCCB 400-10-7	10	400	7
RBCCB 200-16-9	RTCCB 200-16-9	16	200	9
RBCCB 400-16-9	RTCCB 400-16-9	16	400	9
RBCCB 200-25-11	RTCCB 200-25-1	25	200	11
RBCCB 400-25-11	RTCCB 400-25-11	25	400	11
RBCCB 200-35-11	RTCCB 200-35-1	35	200	11
RBCCB 400-35-11	RTCCB 400-35-11	35	400	11
RBCCB 200-50-11	RTCCB 200-50-1	50	200	11
RBCCB 400-50-11	RTCCB 400-50-11	50	400	11
RBCCB 200-70-13	RTCCB 200-70-13	70	200	13
RBCCB 400-70-13	RTCCB 400-70-13	70	400	13
RBCCB 200-95-13	RTCCB 200-95-13	95	200	13
RBCCB 400-95-13	RTCCB 400-95-13	95	400	13



- Grade of Copper used is ETP - Cu, having 99.9% purity.
- Customised Sizes and Length available as per the request.

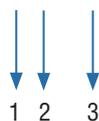
3.13.2. Earth Boss

The Earth Boss is manufactured from Stainless Steel SS304 / SS316.

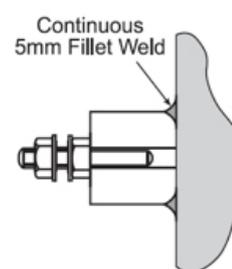
Length in mm	Dia. in mm
25	25
30	30
30	40
30	50
40	30
40	40
40	50
50	30
50	40
50	50

Product Key:

REB X XX (XXX)



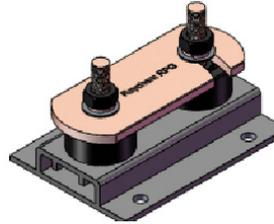
1. Material:
S – Stainless Steel
2. Size – (Length x Diameter)
3. Thread Size - (As per customer requirement.)



3.14. Earth Bar

3.14.1. Disconnecting Link / Test Link

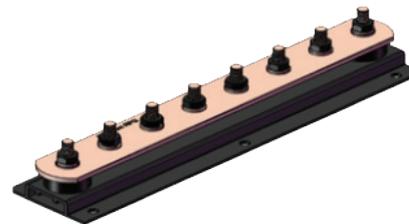
Part Code	Total Length	Total Width	Total Height
RDL-01	125mm	90mm	77mm



3.14.2. Earth Bar

- Grade of Copper used is ETP - Cu, having 99.9% purity.
- Earth Bar cross section (50 X 6)mm.
- The Earth bar can be supplied with tinplating.
- For Tinned Earth Bar add suffix "T" part code. Ex. RREBT

Part No.	Description	Total Length in mm	Total Width in mm	Total Height in mm
RREB-6	6 way	400	90	77
RREB-8	8 way	500	90	77
RREB-10	10 way	650	90	77
RREB-12	12 way	750	90	77
RREB-14	14 way	850	90	77
RREB-16	16 way	950	90	77
RREB-18	18 way	1050	90	77
RREB-20	20 way	1200	90	77
RREB-22	22 way	1300	90 <td 77	
RREB-24	24 way	1400	90	77
RREB-26	26 way	1500	90	77
RREB-28	28 way	1650	90	77
RREB-30	30 way	1750	90	77



3.14.3. Earth Bar With Disconnecting Link

Earth Bar with Single Disconnecting Link

Description	Part No.	Total Length in mm	Total Width in mm	Total Height in mm
6 way	RREB-1-6	475	90	77
8 way	RREB-1-8	575	90	77
10 way	RREB-1-10	725	90	77
12 way	RREB-1-12	825	90	77
14 way	RREB-1-14	925	90	77
16 way	RREB-1-16	1025	90	77
18 way	RREB-1-18	1125	90	77
20 way	RREB-1-20	1275	90	77
22 way	RREB-1-22	1375	90	77
24 way	RREB-1-24	1475	90	77
26 way	RREB-1-26	1575	90	77
28 way	RREB-1-28	1725	90	77
30 way	RREB-1-30	1825	90	77



3.14.4. Earth Bar with Twin Disconnecting Link

Description	Part No.	Total Length in mm	Total Width in mm	Total Height in mm
6 way	RREB-2-6	550	90	77
8 way	RREB-2-8	650	90	77
10 way	RREB-2-10	800	90	77
12 way	RREB-2-12	900	90	77
14 way	RREB-2-14	1000	90	77
16 way	RREB-2-16	1100	90	77
18 way	RREB-2-18	1200	90	77
20 way	RREB-2-20	1350	90	77
22 way	RREB-2-22	1450	90	77
24 way	RREB-2-24	1550	90	77
26 way	RREB-2-26	1650	90	77
28 way	RREB-2-28	1800	90	77
30 way	RREB-2-30	1900	90	77



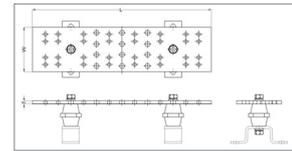
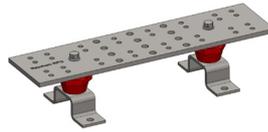
3.14.5. Telecom Earth Bar

Telecommunication grounding earth bar manufactured according to TIA 607C. The grounding earth bar provides a common grounding point within the telecommunications room and is typically located on walls within a data room.

Primary Earth Bar:

Primary Earth Bar used for termination to earth inspection pit.

Part Code (Tinned)	Length in mm	Width in mm	Total Height in mm	No. of Pairs of pairs
RTMGB-16-8T	400	100	109	16

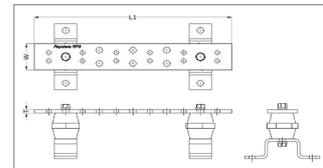
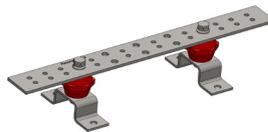


- Tin Plated
- Grade of Copper used is ETP - Cu, having 99.9% purity.

3.14.6. Secondary Earth Bar:

Secondary Earth Bar used for bonding to the sub distribution boards.

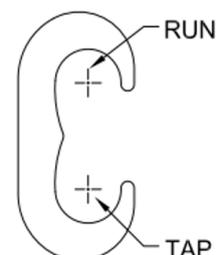
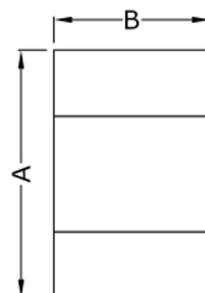
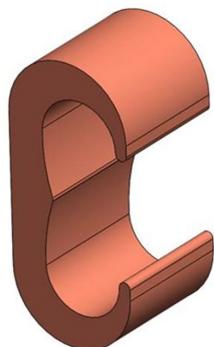
Part Code (Tinned)	Part Code (Bare)	Length in mm	Width in mm	Total Height in mm	No. of Pairs of pairs
RTGB-6T	RTGB-6	305	50	107	6
RTGB-8T	RTGB-8	407	50	107	8
RTGB-10T	RTGB-10	458	50	107	10
RTGB-12T	RTGB-12	508	50	107	12
RTGB-14T	RTGB-14	610	50	107	14



- Tin Plated
- Grade of Copper used is ETP - Cu, having 99.9% purity.

3.15. Compression Connector

3.15.1. 3 Shape Connectors

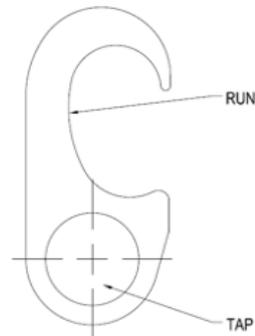
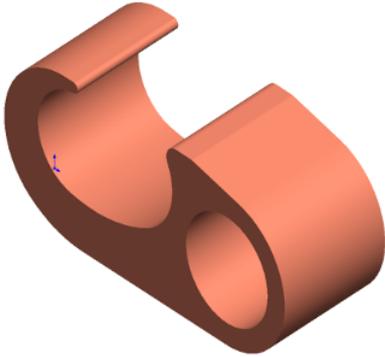


- Manufactured from high conductive copper
- Provides an irreversible crimped connection between conductor to conductor or conductor to earth rod.
- Suitable for direct burial application.
- Marked with conductor size and die index for easy identification.
- Prefilled with Conductive Grease (Oxybit EC/CG)
- Approvals: UL Listed

Product Code	Copper Conductor to Conductor or Conductor to Earth Rod		Copper Conductor Range Metric	
	RUN	TAP	RUN (Sq. mm.)	TAP (Sq. mm.)
RCC3 2-2	#6 Sol - #2 Str 1/4" Rod	#6 Sol.-#2 Str	10 - 35	10 - 35
RCC3 26-2	1 Str-2/0 Str 3/8" Rod	#6 Sol.-#2 Str	35 - 70	10 - 35
RCC3 26-26	1 Str-2/0 Str 3/8" Rod	1 Str-2/0 Str	35 - 70	35 - 70
RCC3 29-26	3/0 Str-250 kcmil 1/2" - 5/8" Rod	#6 Sol-2/0 Str	95 - 120	10 - 70
RCC3 29-29	3/0 Str-250 kcmil 1/2" - 5/8" Rod	3/0 Str-250 kcmil	95 - 120	95 - 120
RCC3 34-26	300 kcmil-500 kcmil 3/4" Rod	#6 Sol-2/0 Str	150 - 240	10 - 70
RCC3 34-29	300 kcmil-500 kcmil	3/0 Str-250 kcmil	150 - 240	95 - 120
RCC3 34-34	300 kcmil-500 kcmil	300 kcmil-500 kcmil	150 - 240	150 - 240



3.15.2. 6 Shape Connector

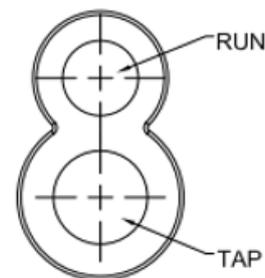
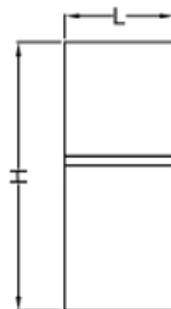
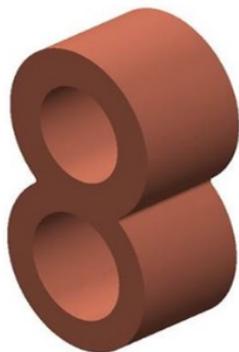


- Manufactured from high conductive copper
- Provides an irreversible crimped connection between conductor to conductor or conductor to earth rod.
- Suitable for direct burial application.
- Marked with conductor size and die index for easy identification.
- Prefilled with Conductive Grease (Oxybit EC/CG)
- Approvals: UL Listed

Product Code	Copper Conductor to Conductor or Conductor to Earth Rod		Copper Conductor Range Metric	
	RUN	TAP	RUN (Sq.mm.)	TAP (Sq.mm.)
RCC6 2-2	#6 Sol.-#2 Str	#6 Sol.-#2 Str	10 - 35	10 - 35
*RCC6 29-2	1/0 Str - 250 kcmil 1/2"-5/8"Rod	#4 Sol - #2 Str	50 - 120	25 - 35
*RCC6 29-26	1/0 Str -250 kcmil 1/2"-5/8"Rod	1/0 Str - 2/0 Str	50 - 120	50 -70
*RCC6 29-29	1/0 Str - 250 kcmil 1/2"-5/8"Rod	3/0 Str - 250 kcmil	50 - 120	95 - 120
*RCC6 34-2	250 kcmil-500 kcmil 5/8"-3/4"Rod	#4 Sol - #2 Str	120 - 240	25 - 35
*RCC6 34-26	250 kcmil-500 kcmil 5/8"-3/4"Rod	1/0 Str - 2/0 Str	120 - 240	50 -70
*RCC6 34-29	250 kcmil-500 kcmil 5/8"-3/4"Rod	3/0 Str-250 kcmil	120 - 240	95 - 120
RCC6 34-34	250 kcmil-500 kcmil 5/8"-3/4"Rod	350 kcmil-500 kcmil	120 - 240	185 - 240



3.15.3. 8 Shape Connectors

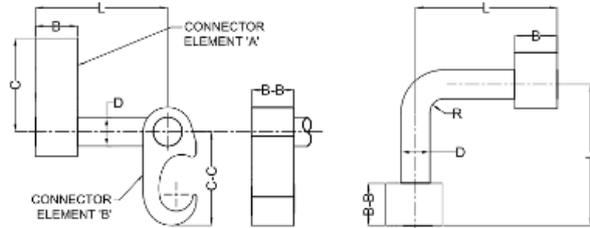


- Manufactured from high conductive copper
- Provides an irreversible crimped connection between conductor and earth rod.
- Marked with conductor size and die index for easy identification.
- Prefilled with Conductive Grease (Oxybit EC/CG)

Product Code	Copper Conductor Range		Earth Rod Size
	RUN (AWG)	RUN (Sq. mm)	TAP
RCC8 26-12	#2 Str - 2/0 Str	35 - 70	1/2"
RCC8 26-58	#2 Str - 2/0 Str	35 - 70	5/8"
RCC8 26-34	#2 Str - 2/0 Str	35 - 70	3/4"
RCC8 26-100	#2 Str - 2/0 Str	35 - 70	1"
RCC8 29-12	4/0 Str - 250 kcmil	95 - 120	1/2"
RCC8 29-58	4/0 Str - 250 kcmil	95 - 120	5/8"
RCC8 29-34	4/0 Str - 250 kcmil	95 - 120	3/4"
RCC8 29-100	4/0 Str - 250 kcmil	95 - 120	1"
RCC8 34-58	300 kcmil-500 kcmil	150 - 240	5/8"
RCC8 34-34	300 kcmil-500 kcmil	150 - 240	3/4"
RCC8 34-100	300 kcmil-500 kcmil	150 - 240	1"



3.15.4. 6-6 Shape Cross Grid Connector

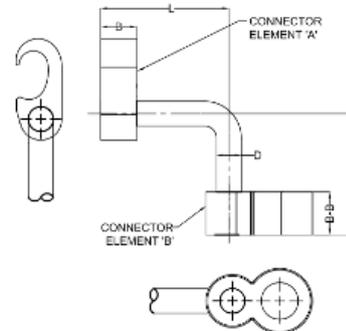


- Provides an irreversible crimped connection between conductor to conductor or earth rod to conductor.
- Marked with conductor size and die index for easy identification.
- Prefilled with Conductive Grease (Oxybit EC/CG)

Product Code	Copper Conductor to Conductor or Conductor to Earth Rod		Copper Conductor Range Metric	
	RUN	TAP	RUN (Sq.mm.)	TAP (Sq.mm.)
RGCC 2-2	#6 Sol.-#2 Str	#6 Sol - #2 Str.	10 - 35	10 - 35
RGCC 29-2	#2 Str. - 250 Kcmil 1/2" or 5/8" Rod	#6 Sol - #2 Str.	35 - 120	10 - 35
RGCC 29-29	#2 Str. - 250 Kcmil 1/2" or 5/8" Rod	#2 Str. - 250 Kcmil	35 - 120	35 - 120
RGCC 34-2	250 Kcmil - 500 Kcmil 5/8" or 3/4" Rod	#6 Sol - #2 Str.	120 - 240	10 - 35
RGCC 34-29	250 Kcmil - 500 Kcmil 5/8" or 3/4" Rod	#2 Str. - 250 Kcmil	120 - 240	35 - 120
RGCC 34-34	250 Kcmil - 500 Kcmil 5/8" or 3/4" Rod	250 Kcmil - 500 Kcmil	120 - 240	120 - 240



3.15.5. 6-8 Shape Cross Grid Connecto

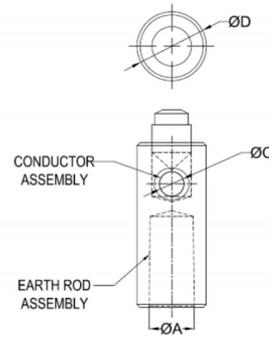
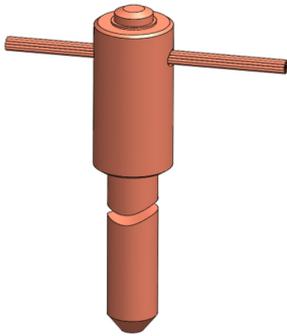


- Provides an irreversible crimped connection between conductor and earth rod.
- Marked with conductor size and die index for easy identification.
- Prefilled with Conductive Grease (Oxybit EC/CG)

Product Code	Copper Conductor Range		Earth Rod Size
	RUN (AWG)	RUN (Sq.mm)	TAP
RGGL 29-12	#2 Str. - 250 Kcmil	35 - 120	1/2"
RGGL 29-58	#2 Str. - 250 Kcmil	35 - 120	5/8"
RGGL 29-34	#2 Str. - 250 Kcmil	35 - 120	3/4"
RGGL 29-100	#2 Str. - 250 Kcmil	35 - 120	1"
RGGL 34-12	250 Kcmil - 500 Kcmil	120 - 240	1/2"
RGGL 34-58	250 Kcmil - 500 Kcmil	120 - 240	5/8"
RGGL 34-34	250 Kcmil - 500 Kcmil	120 - 240	3/4"
RGGL 34-100	250 Kcmil - 500 Kcmil	120 - 240	1"



3.15.6. Hammerlock Connector



- Provides an irreversible connection between earth rods and down conductor
- Manufactured from high conductivity copper.
- Quick and easy to install and requires only a hammer.
- Earth Rod Type: Copper Bonded

Product Code	Ground Rod Diameter, Nominal (Inch)	Ground Rod Diameter, Nominal (mm)	Conductor Range AWG	Conductor Range Sq.mm.	Number of Conductors
	A		B		
RHL12/1/0-2/0	1/2"	12.7 mm	1/0 Stranded - 2/0 Stranded	50 – 70	1
RHL12/4-2	1/2"	12.7 mm	#4 Stranded - #2 Stranded	25 – 35	1
RHL12/6-4	1/2"	12.7 mm	#6 Solid - #4 Solid	10 – 16	1
RHL58/1/0-2/0	5/8"	14.2 mm	1/0 Stranded - 2/0 Stranded	50 – 70	1
RHL58/4-2	5/8"	14.2 mm	#4 Stranded - #2 Stranded	25 – 35	1
RHL58/6-4	5/8"	14.2 mm	#6 Solid - #4 Solid	10 – 16	1
RHL34/1/0-2/0	3/4"	17.2 mm	1/0 Stranded - 2/0 Stranded	50 – 70	1
RHL34/4-2	3/4"	17.2 mm	#4 Stranded - #2 Stranded	25 – 35	1
RHL34/6-4	3/4"	17.2 mm	#6 Solid - #4 Solid	10 – 16	1

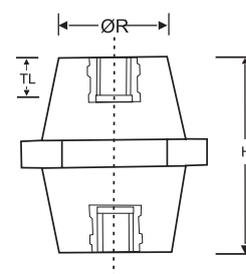
3.16. Other Accessories

3.16.1. Standoff Insulators

Standoff Insulators combine high mechanical strength with high arc resistance and dielectric properties at elevated temperatures and humidity.

Material: DMC (Dough Moulding Compound).

Product Code	Dimensions			Height (H) mm	Nominal Voltage (AC / DC)
	Rt Ø mm	Rb Ø mm	TL Ø mm		
RH 1045 (M10)	40	32	12	45	1000 / 1200
RH 1050 (M10)	46	35.5	17	50	1200 / 1500



Insert: Brass and Mild Steel. TL: Effective Length

3.16.2. Denso Tape: Anti-Corrosive Petrolatum Tape

It is highly resistant to mineral acids, alkalis, salts and micro – organism and highly impermeable to water and water vapor and gases.

- Used for protection of buried or exposed pipes, rods, cables, valves from metal fittings from corrosion.
- Temperature Range : For Application : 5° to 55°
For Service : -20° to 70°

Product Code	Length in m	Thickness in mm	Width in mm	Breaking Strength	Elongation at Break	Weight
RDT-10	10	1.15	50	200N / 50m	10% avge	1.44kg / m ²



E. EXOTHERMIC WELDING

EXOTHERMIC WELDING

- The exothermic welding process is a simple, efficient method of permanently bonding of copper to copper or copper to steel.
- Exothermic welded joint carries more Tensile strength than mechanical connections, can be quality controlled simply by visual inspection.
- The Exothermic connection provides permanent conductivity over the whole of the section due to molecular bonding between the metal surfaces.
- This system is very field friendly since it is light and portable and requires no outside power.

MOULD:

Each Arrestek graphite mould produces a unique type of joint.

WELD POWDER:

Produce high quality electrical connections between different metals (Copper to Copper / Copper to Steel).

IGNITION POWDER:

Ignition Powder is used to provide initial flame to the weld powder. It is sprinkled on the top of weld powder.

STEEL RETAINING DISC:

The disc acts as timing device to allow the welding powder to heat to proper temperature. Steel Disc is designed to contain the exothermic reaction to the upper crucible of a mold until the reaction is complete and ready to Welding.

FLINT GUN / IGNITER:

Used to ignite & initiate in exothermic Reaction.

HAND GLOVES:

Used to provide safety high temperature resistant gloves while working on the exothermic reaction.

HANDLE CLAMP:

To clamp the two/three part mould together (or) clamping the mould to the surface to which a connection is to be made.

MOULD BRUSH:

Used for cleaning the scrap on mould after weld joints are completed.

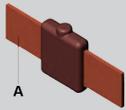


Kit contains all the items required for the safe and efficient operation of exothermic weld.

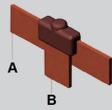
MOULD TYPE SELECTION GUIDE

3.18. Mould Selection Guide

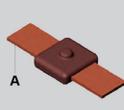
BAR TO BAR



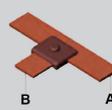
RBB1



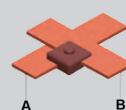
RBB3



RBB7

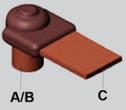


RBB14

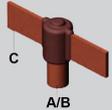


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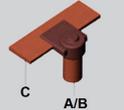
BAR TO EARTH ROD



RBR1

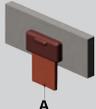


RBR2

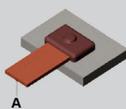


RBR7

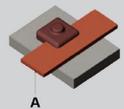
BAR TO STEEL SURFACE



RBS1

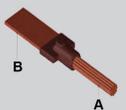


RBS2

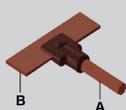


RBS3

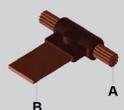
CABLE TO BAR



RCB1

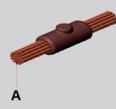


RCB4

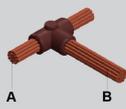


RCB5

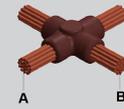
CABLE TO CABLE



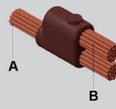
RCC1



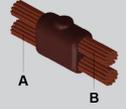
RCC2



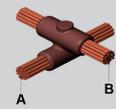
RCC4



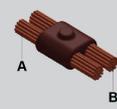
RCC6



RCC7

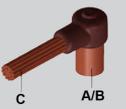


RCC11

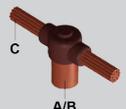


RCC14

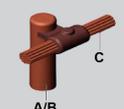
CABLE TO EARTH ROD



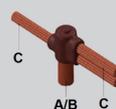
RCR1



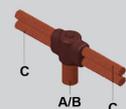
RCR2



RCR3



RCR17

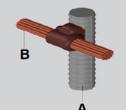


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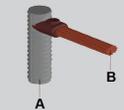
CABLE TO REINFORCING BAR



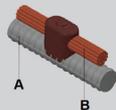
RCRE2



RCRE3



RCRE6

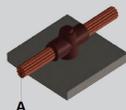


RCRE17

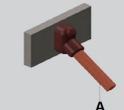
CABLE TO STEEL SURFACE & PIPE



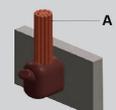
RCS1



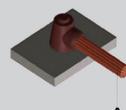
RCS2



RCS3



RCS7



RCS8



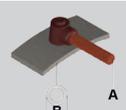
RCS9



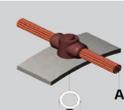
RCS25



RCS27



RCS32



RCS34

3.19. How To Order Exothermic Moulds:

1. Selection of Type of Connection

At Raychem RPG, We offer all types of Exothermic Connections. One can select type of connection required from above Pictorial Index.

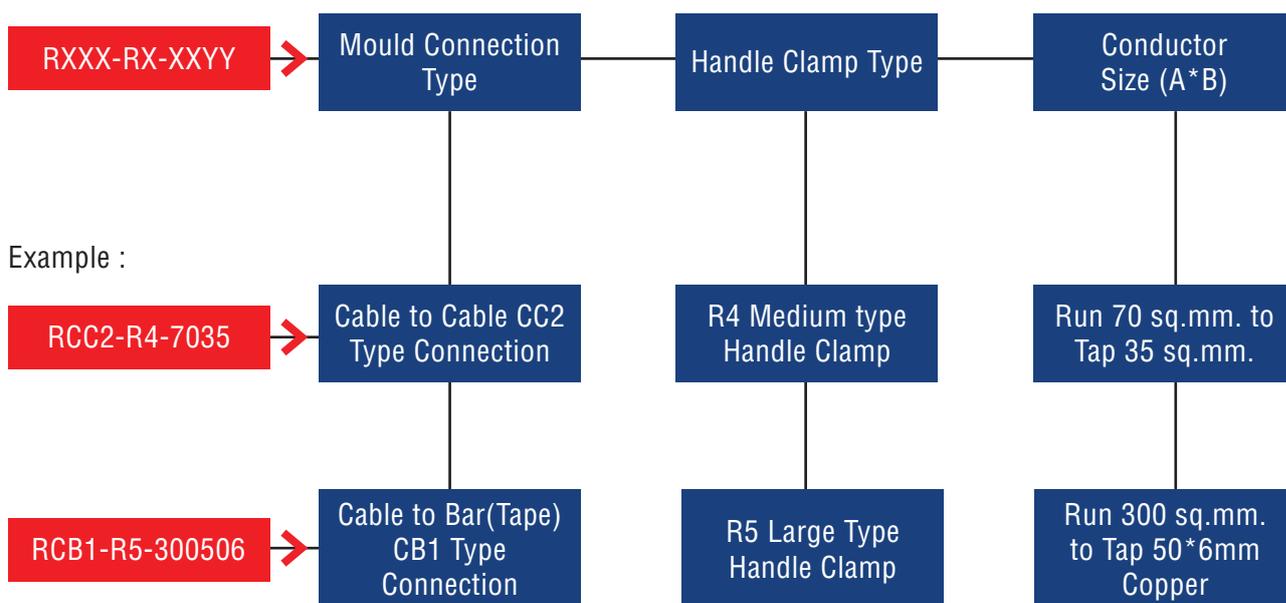
2. Know your Conductor Size

“Raychem RPG offers wide no. of connections between Bar(Tape) and Solid or Stranded Copper Conductor to each other, to Earth Rod, to Steel Surface, to Reinforcing Bar, to Pipe and so..

After Selection of Type of Connection, find the size of Conductor or connection.”

Once the Selection of Connection and Conductor Size is made, We will offer Mould, Suitable Weld Powder, Handle Clamp, Flint Ignitor, Cleaning Brush and Safety tools as per requirement

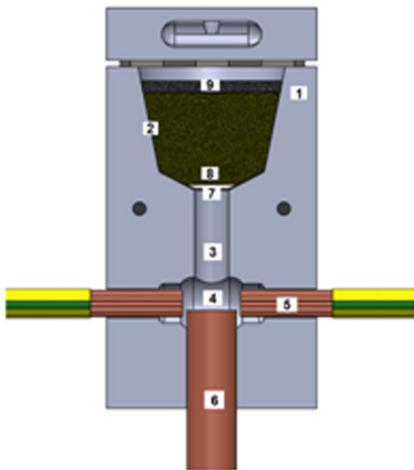
Part Code :



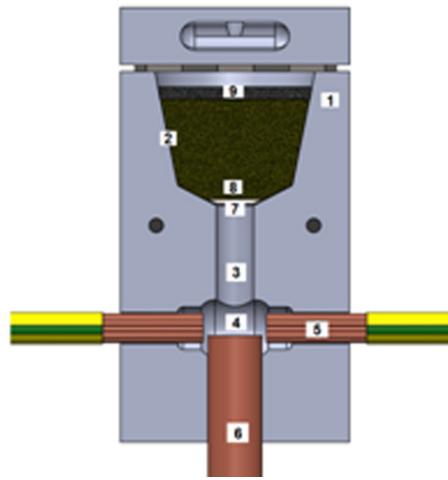
3.20. Installation Guidelines:

The Arrestek exothermic welding process is a simple, self-contained method of forming high quality electrical connections. The compact process requires no external power or heat source making it completely portable. Connections are made inside a semi-permanent graphite mould using the high temperature reaction of powdered copper oxide and aluminium.

WELD CONNECTION



WELD OUTPUT



THIS IS HOW IT WORKS:

The Mould (1) features a Crucible (2), a Tap Hole (3) and a Weld Cavity (4).

The conductors (5) and (6) to be joined are located in the weld cavity as shown, and the mould is closed. A steel Retaining Disc (7) is located in the bottom of the crucible to retain the Weld Powder (8) and Ignition Powder (9) which are poured in on top.

Ignited with a spark gun, the starting powder sets off an exothermic reaction in the weld powder, reducing it to molten copper alloy. This instantaneously melts the retaining disc, and flows down the tap hole, to the weld cavity, where it partially melts the conductors, before cooling to leave a fusion weld of great mechanical strength and electrical integrity.

The majority of Arrestek weld connections have at least twice the cross sectional area of the conductors being joined, and an equivalent or greater current carrying capacity.

Because the connection is a fusion of high conductivity, high copper content alloy, it will withstand repeated fault currents, and will not loosen in the way that mechanical connectors can. Corrosion resistance too, is exceptional, due to the alloy's very high copper content (in excess of 90%).

3.21. EXOTHERMIC WELD POWDER

Part No	Raychem RPG Item Description
RWP 065	Exo-thermic Welding Powder 65grams.
RWP 090	Exo-thermic Welding Powder 90grams.
RWP 115	Exo-thermic Welding Powder 115grams.
RWP 150	Exo-thermic Welding Powder 150grams.
RWP 200	Exo-thermic Welding Powder 200grams.
RWP 250	Exo-thermic Welding Powder 250grams.

Note: Ignition powder and steel disc provided as part of weld powder.



3.22. Handle Clamps

Part No	Description
HCRRL-3	Small size
HCRRL-4	Medium size
HCRRL-5	Large Size
HCRRL-4C	Medium Size with Chain
HCRRL-5C	Large Size with Chain



3.23. Other Miscellaneous Accessories

Part No	Raychem RPG Item Description
RFG-01	Flint Gun
RMCB-01	Mould Cleaning Brush
RWCCB-01	Weld Cavity cleaning brush
RFCB-01	File Card Brush
RSRS-01+D13	Slag remover scrapper
RHG-01	Hand Gloves
RMSC-01	Mould Sealing Compound



Raychem RPG

Offices

Head Office:

Raychem RPG(P) Ltd.
A-1401, 14th Floor, Thane One,
DIL Complex, Majiwada
Thane (West) 400610

To learn more about Raychem RPG solutions
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Or reach our Customer Interaction Cell
Contact No.: 022 45745060
Email: CIC@raychemrpg.com

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Regional Offices :

Europe

Frankfurt, Germany

Rajesh Mistry
rajesh_mistry@raychemrpg.com

Asia Pacific

Kuala Lumpur, Malaysia

Jigar Shah
jigar_shah@raychemrpg.com

Middle East & Africa

Kumar Kartikey
kumar_kartikey@raychemrpg.com

Saudi Arabia, Kuwait, Bahrain & North Africa

Imtiaz Aslam
imtiaz_aslam@raychemrpg.com

UAE, Qatar, Oman & Rest of Africa

Ahamed Ibrahim
ahamed_ibrahim@raychemrpg.com

Abu-Dhabi, UAE

Mohamed Shajahan KK
mohamed_shajahan@raychemrpg.com

Sharjah, UAE

Mohamed Adhil Hakkim
mohamed_adhil@raychemrpg.com

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