



TOTAL PROTECTION IN EVERY CONNECTION

TOTAL
CONNEXIONS

توتال كونيكشن الكهربائية ش.م.م
TOTAL CONNEXIONS ELECTRICAL L.L.C

www.totalgcc.com

EARTHING

LIGHTNING

ELECTRICAL

TRANSMISSION

EXOTHERMIC

INTRODUCTION

TOTAL CONNEXONS ELECTRICAL LLC – young as a Company but dynamic and bold in its commitment in providing a complete solution in the fields of Earthing, Lightning, Exothermic and Electrical goods and accessories.

With a clear Vision since its inception in 2003 it has developed “SPEEDWELL” as a quality home brand and in its course of development it has amalgamated with various world class brands to become a Total solution provider in this region.

A unique combination of specialized technical expertise, awareness of market, prompt response and efficient service allows it to meet specific requirements of clients and puts it at par in this competitive world.

Strong marketing network and innovative research team and dedicated staff caters to a wide range of industry: including Civil, Mechanical, Electromechanically, Oil and Gas, Power Generation, Transportation, and other Public and Private Utilities.

Centralized operations and huge inventory is its strength in catering the needs of Middle East, African sub continent and reaching the rest of the World.

All our products meet world class quality standards like UL, KEEMA, ATEX, IEC, BS, etc.

PRODUCTS

- Earthing Accessories
- Lightning Protection
- Exothermic Welding System
- Cable Glands and Lugs
- Cable Marking System
- Cable Management System
- SS Cable Ties and Bands
- Panel Board Accessories



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MARKETS



OIL & GAS



PETROCHEM



POWER STATION



REFINERY



RENEWABLE ENERGY



RAILWAYS



TELECOMMUNICATION



POLE & SIGN MOUNTING



TRANSPORTATION



TUNNELS AND BRIDGES



PUBLIC BUILDINGS



MINING



CONSTRUCTION



TOTAL PROTECTION IN EVERY CONNECTION

Speedwell was established in 1982 and is now one of the leading manufacturer of Earthing & Lightning Protection System and electrical Accessories. Since its inception company has continued to expand its product range, technology and its presence by innovation and dedication.

EARTHING & LIGHTNING PROTECTION COMPONENTS

- Earth Rods Bonded & Solid Copper
- Clamps for rods and tape
- Bare / Tinned / PVC Copper Tape & Earthing Cable
- DC Clips, Square Clamps
- Earth Pit (Concrete / Polyethelyne), Earthing Compound
- Earth Lattice & Earth Plate
- Earth Clamp for Pipe
- Bonds for Structural & Pipe
- Split Bolts, C Crimps, Flexible Braids
- Earth Bar, Disconnecting Link, Earth Bonding Point
- Air Rod Terminal, Multi Point, Air Base
- Test and Junction Clamps, Conductor Fixings



- 1 ROD BRACKETS-SIDE MOUNTING BRACKETS
- 2 AIR ROD TO CABLE COUPLING
- 3 PVC COVERED COPPER TAPE
- 4 NON METALLIC DC TAPE CLIP
- 5 EARTH HOUSING HEAVY DUTY
- 6 EARTH ROD SEAL
- 7 FLEXIBLE BRAID BOND
- 8 AIR ROD SET
- 9 RIDGE SADDLE
- 10 BARE COPPER TAPE
- 11 SQUARE TAPE CLAMP

- 12 BI-METALLIC CONNECTOR TAPE TO TAPE
- 13 ROD TO TAPE CLAMP-TYPE 'A'
- 14 COUPLER HEAVY DUTY
- 15 EARTH ROD
- 16 ROD TO CABLE CLAMP TYPE 'GUV'
- 17 EARTH BONDING POINT
- 18 OBLONG TEST OR JUNCTION CLAMP
- 19 B BOND
- 20 BACK PLATE HOLD FAST STEM
- 21 PVC COVERED COPPER CONDUCTORS
- 22 EARTH BAR AND DISCONNECTING LINKS

- 23 ROD TO CABLE CLAMP - TYPE 'G'
- 24 CONCRETE INSPECTION PIT
- 25 EARTH BOSS
- 26 EARTH LATTICE
- 27 PLATE TYPE TEST CLAMP
- 28 EARTH PLATE
- 29 ONE HOLE CLIP
- 30 TEE CLAMP
- 31 SOLID CIRCULAR CONDUCTORS
- 32 HEAVY DUTY CAST CABLE SADDLE
- 33 DC TAPE CLIP
- 34 AIR TERMINAL BASE

EARTHING

| | | | | | | |
|---|--------------------------------------|--|--|---|--|---|
| <p>COUPLER DRIVING HEAD COPPER BONDED EARTH ROD SOLID BONDED EARTH ROD COUPLING SPIKE</p> | <p>EARTH ROD SEALS</p> | <p>CONCRETE INSPECTION PIT</p> | <p>PVC EARTH PIT</p> | <p>INSPECTION HOUSING EARTH BARS</p> | <p>EARTH PLATE</p> | <p>EARTHING LATTICE</p> |
| | | <p>EARTHING COMPOUND</p> | <p>ROD TO TAPE CLAMP - TYPE 'K'</p> | <p>ROD TO CABLE CLAMP - TYPE 'G'</p> | <p>ROD TO CABLE LUG CLAMP - TYPE 'B'</p> | <p>SPLIT CONNECTOR CLAMP - TYPE 'L'</p> |
| <p>U BOLT ROD CLAMP - TYPE 'E1'</p> | <p>ROD TO TAPE CLAMP - TYPE 'E2'</p> | <p>ROD TO CABLE CLAMP - TYPE 'GUV'</p> | <p>U BOLT PIPE TO CABLE CLAMP TYPE 'PUB'</p> | <p>WATER PIPE GROUND CLAMPS TYPE 'KP'</p> | <p>RWP BOND</p> | <p>WATERMAIN PIPE BOND</p> |
| <p>SINGLE PLATE DOUBLE PLATE TOWER EARTH CLAMP</p> | <p>METALWORK BOND</p> | <p>B-BOND</p> | <p>EARTH BOSS</p> | <p>EYE BOLT</p> | <p>EARTH BONDING POINT</p> | <p>STATIC EARTH RECEPTACLE</p> |
| <p>SPLIT BOLT CONNECTORS</p> | <p>CRIMP CONNECTORS - TYPE 'C'</p> | <p>FLEXIBLE BRAID BOND</p> | <p>EB6</p> | <p>EB6-1</p> | <p>EB6-2</p> | <p>DCL1S</p> |

LIGHTNING

| | | | | | | |
|---|--------------------------------|----------------------------------|-------------------------------------|--------------------------------------|---|---|
| <p>MULTI POINT AIR ROD AIR BASE</p> | <p>STRIKE PAD</p> | <p>FLAT SADDLE - TYPE 'C'</p> | <p>RIDGE SADDLE</p> | <p>AIR ROD BASE - CABLE</p> | <p>ROD BRACKETS SID MOUNTING BRACKETS</p> | <p>AIR ROD TO TAPE CABLE COUPLING</p> |
| | <p>PVC COVERED COPPER TAPE</p> | <p>BARE COPPER TAPE</p> | <p>TINNED COPPER TAPE</p> | <p>PVC COVERED COPPER CONDUCTORS</p> | <p>FLEXIBLE COPPER BRAIDS</p> | <p>DC TAPE CLIP</p> |
| <p>BACK PLATE HOLDFAST STEM</p> | <p>GLAZING BAR HOLD FAST</p> | <p>NON METALLIC DC TAPE CLIP</p> | <p>GLUE DOWN DC TAPE CLIP</p> | <p>TAPE CLIP ONE HOLE CLIP</p> | <p>BI-METALLIC CONNECTOR TAPE TO TAPE</p> | <p>SQUARE TAPE CLAMP</p> |
| <p>OBLONG TEST OR JUNCTION CLAMP</p> | <p>PLATE TYPE TEST CLAMP</p> | <p>SCREW DOWN TEST CLAMP</p> | <p>MULTI PURPOSE CLAMP</p> | <p>PIPE BOND</p> | <p>INTERFACE TEST AND JUNCTION CLAMP</p> | <p>SQUARE CONDUCTOR CLAMP</p> |
| <p>TEE CLAMP</p> | <p>JOINTING CLAMP</p> | <p>TEST CLAMP</p> | <p>HEAVY DUTY CAST CABLE SADDLE</p> | <p>SQUARE CONDUCTOR CLAMP</p> | <p>RE-BAR CLAMP</p> | <p>DENSO TAPE</p> |

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ELECTRICAL AND PANEL BOARD COMPONENTS

- Cable Gland and Accessories
- Tinned Copper Lugs & Ferrules
- Flexible Conduit & Accessories
- Backlight sheet All size up to 25mm Thickness
- Copper Bush / MS Spacers
- PVC handle 6" & Knobs
- Panel Locks & Key all type Round, Square, Triangle
- Blanking Plate 24mod
- Din Rail, 'G' Rail, 'C' Rail all size
- Insulators - Conical and Cylinder type
- Brass neutral link

ELECTRICAL

| | | | | | |
|---|--|---|---|---|---|
|  |  |  |  |  |  |
| CABLE GLAND KITS | BRASS CABLE GLAND - BW 4 PART | BRASS CABLE GLAND - CW 4 PART | BRASS CABLE GLAND - E1W 4 PART | BRASS CABLE GLAND - A1-A2 TYPE | BRASS CABLE GLAND - PG TYPE |
|  |  |  |  |  |  |
| BRASS CABLE GLAND - MARINE TYPE | BRASS EARTH TAGS | PVC / LSF SHROUD | IP WASHERS | SERRATED WASHERS | BRASS LOCK NUT |
|  |  |  |  |  |  |
| BRASS WIPING GLAND | BRASS MALE / FEMALE REDUCER | BRASS FEMALE BUSH | BRASS END PLUG | GALVANIZED STEEL FLEXIBLE CONDUIT | NICKEL PLATED BRASS LOCK NUT |
|  |  |  |  |  |  |
| TABULAR CABLE LUGS WITH INSPECTION HOLE | TABULAR CABLE LUGS - BELL MOUTH | CABLE LUGS - LONG BARREL | CABLE LUGS - 4 HOLE FOR TRANSFORMER | BI-METALLIC LUGS | PIN TYPE TERMINALS |
|  |  |  |  |  |  |
| ANGLE TUBULAR LUGS, 90° | ANGLE TUBULAR LUGS, 45° | COPPER REDUCING LINKS | PANEL BOARD HINGES | ROUND DOUBLE BIT TYPE | TRIANGLE TYPE |
|  |  | | | | |
| NEUTRAL, EARTH LINK, BLOCK, TERMINAL & CONNECTORS | DIN RAILS, MOUNDING, TERMINAL BLOCKS, INSULATOR AND COPPER BUSH | | | | |



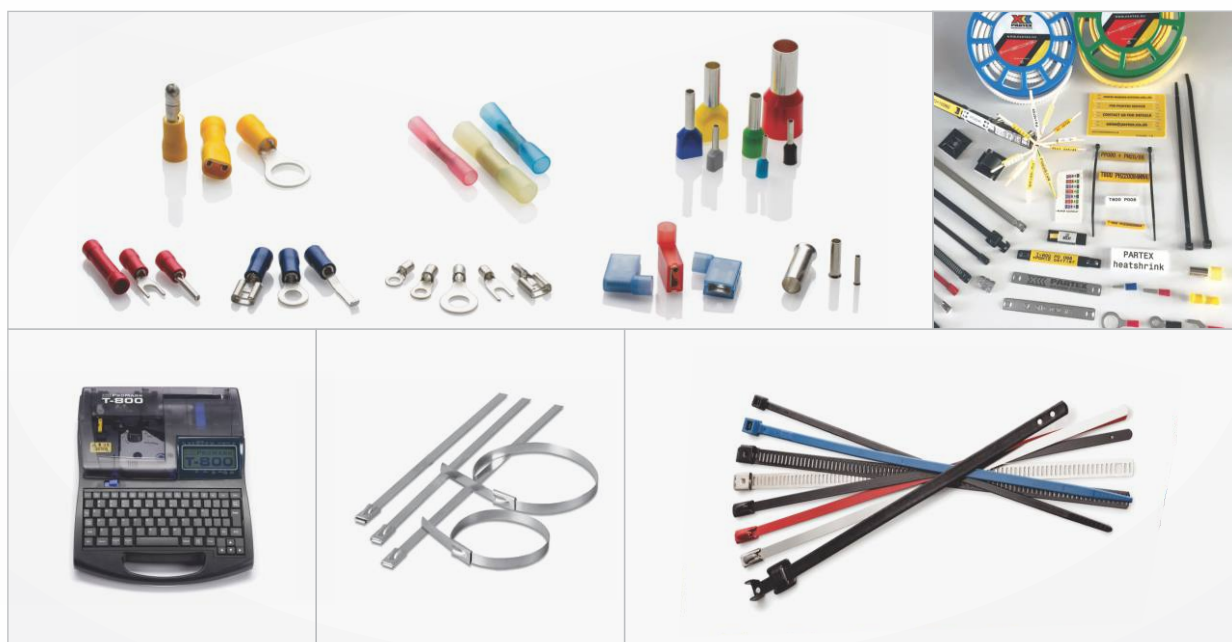
Developing and Manufacturing Marking Systems

www.partex.co.uk

Partex AB have many years' experience of developing and manufacturing marking systems. The tangible results can be seen in the form of a range of products that meet the most rigorous of international requirements and can be found in installations practically the whole world over

MAIN PRODUCTS

- Cable Identification System
- Cable Markers/Carrier Strips
- Customized and Profile marking Tube
- Printing Machines
- Stainless Steel Cable Ties (Uncoated/Coated)
- (Ball Lock / Ladder Type/ Releasable)
- Bands (Straps) and Buckles (Clips) Systems
- PVC /Heat Shrink Sleeve
- Insulated /Non Insulated Cable Lugs
- Partool Hand Tool



ATEX Certified Cable Glands and Associated Accessories

www.rcn.it

RCN is leading manufacturer of Industrial Cable Glands, and Electrical Accessories for the chemical energy, pharmaceutical and off-shore sectors.

Products are in full compliance with the Directive 2002/95EC "RoHS"

The Cable Glands Accessories are built to be installed in the following areas:

- Zone 1 and 2, 21 and 22: EExd/EExe execution (GOST: 1ExdIIc/2Exell).
- Group 1(mines), Group 2(non-mining) with explosive atmosphere of Gas, Vapors, Smokes and dusts (II2 GD).
- Temperature range from -70 °C to +20 °C with degree of protection IP66/68.



BSCO is a pioneer brand in the field of cable accessories. It has developed wide range of products to provide specific needs for standard and LSF cables. Products designed and engineered for UV, weather resistance applications and are easy to install.

MAIN PRODUCTS

- Stainless Steel - Ball Lock Uncoated
- Stainless Steel - Ball Lock Coated
- Stainless Steel - Ball Lock Spring Type Uncoated
- Stainless Steel - Ball Lock Spring Type Coated
- Stainless Steel - Ladder Type (Multilock) Uncoated
- Stainless Steel - Ladder Type (Multilock) Coated
- Stainless Steel - Releasable Uncoated
- Stainless Steel - Releasable Pure Polyester Coated
- Stainless Steel - Releasable PPA Coated
- Nylon Cable Ties
- Marker Tags & Carrier Strips
- ID Marker Tags
- Bands Regular & High Tensile
- Utility Bands
- Heavy Duty Bands
- PPA 571 Coated Bands
- All Purpose Bands PPA 571 Coated
- All Purpose Bands Uncoated
- Aluminium Perforated Strip
- Pre-Cut Band and Buckle
- Precut Assembled Straps
- Buckles (Jaw Type - Wing Type - Screw Type)
- Sign Mounting Brackets
- AT4679 Cable Tie Automatic Gun
- RT2S4679 Cable Tensioning Plier
- BT6919 Band and Buckle Crimping Tool
- BT0620 (Bantam Tool)
- AT2248 Cable Tensioning Tool
- Aluminium Single Way Cable Cleat - Single Bolt Fixing (Claw type Design)
- Aluminium Single Way Cable Cleat - Two Bolt Fixing
- Aluminium Trefoil Cleats - Single Bolt Fixing
- Aluminium Cable Cleat Trefoil Type - Two Bolt Fixing Special Design
- Aluminium Cable Cleat Trefoil Type - Special Design (Strip Type Cleats)
- Polyethylene Cable Cleats Single & Two Bolt Fixing
- Polyethylene Cable Cleats Two Bolt Special Design & Trefoil Type
- Fire Cable Clips & Saddles for Mineral Insulated & Fire performance cables.

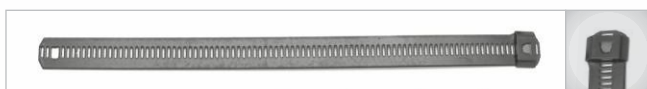




Ball Lock Coated



Ball Lock Spring Type Coated



Ladder Type (Multilock) Coated



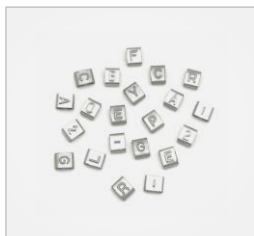
Releasable Pure Polyester Coated & PPA Coated



Nylon Cable Ties



Carrier strip with Marker Tags on Power Cables



Marker Tags



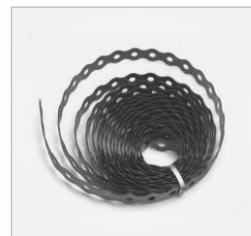
Carrier Strips Coated and Uncoated



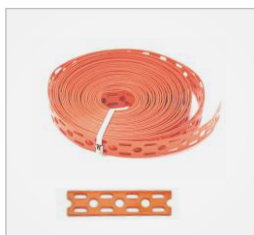
Bands Regular & High Tensile PPA 571 Coated Bands



Heavy Duty Bands



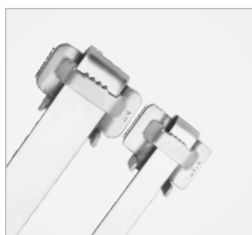
All Purpose Bands PPA 571 Coated



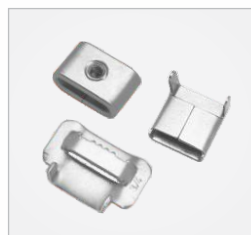
Aluminium Perforated Strip



Pre-Cut Band and Buckle



Precut Assembled Straps



Buckles



BSCO-BT0620 (Bantam Tool)



Polyethylene Single Bolt Cable Cleats - Regular



Polyethylene Double Bolt Cable Cleats - Multifix



Aluminium Single Bolt Cable Cleat - Claw



Aluminium Single Bolt Cleat - Trefoil



Aluminium Single Bolt Cleat - Strap

thermOweld®

The Contractors Choice

USA

Exothermics Grounding, Lightning Protection

www.thermoweld.com

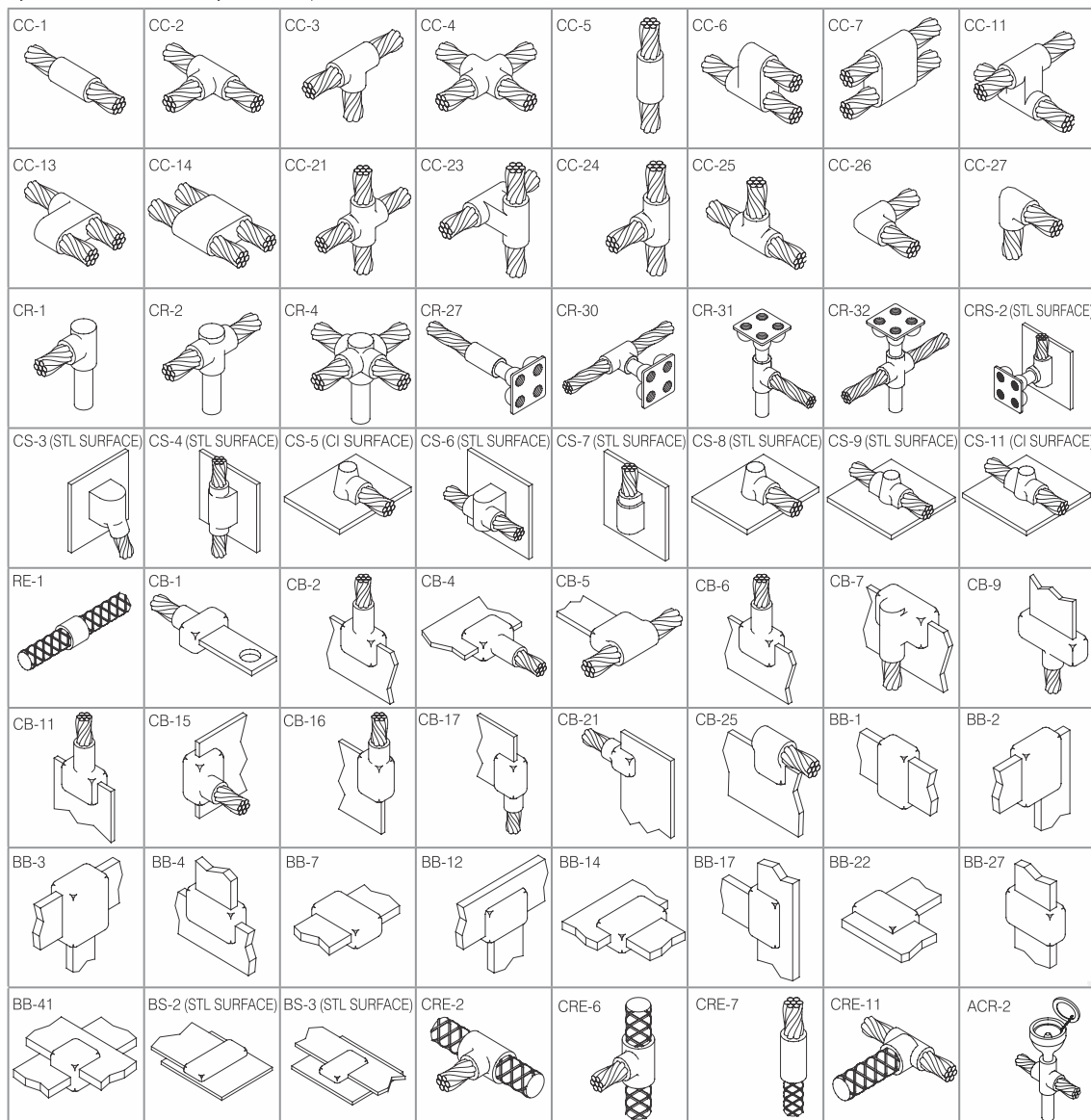
thermOweld® is a process of welding copper to copper, copper to steel and copper to ductile iron. The exothermic reaction takes place in a semi-permanent graphite mold with a special formula of copper oxide and aluminum.

thermOweld® connections are solid copper molecular bonds that do not loosen or corrode throughout the life of the host structure. These bonds are the superior connection method for the most reliable and highest longevity of grounding, lightning protection, cathodic protection and other critical infrastructure systems.

MAIN PRODUCTS

- Graphite Molds • Single Shot Molds • Weld Metals/EZ • Handle Clamps • Battery Units • Various Tools

If you cannot find the necessary connection please contact thermOweld® at 1-800-558-1373 for assistance or visit our web site at www.thermoweld.com.



Note: Contact thermoweld® for information about these and other weld types not listed.



Making a **thermOweld**® Connection



- 1 Position cleaned conductors in mold after making sure mold is dry, by pre-heating or making a test joint.



- 2 Place metal disc in bottom of mold crucible



- 3 Dump powder into crucible, being careful not to loosen all the starting powder.



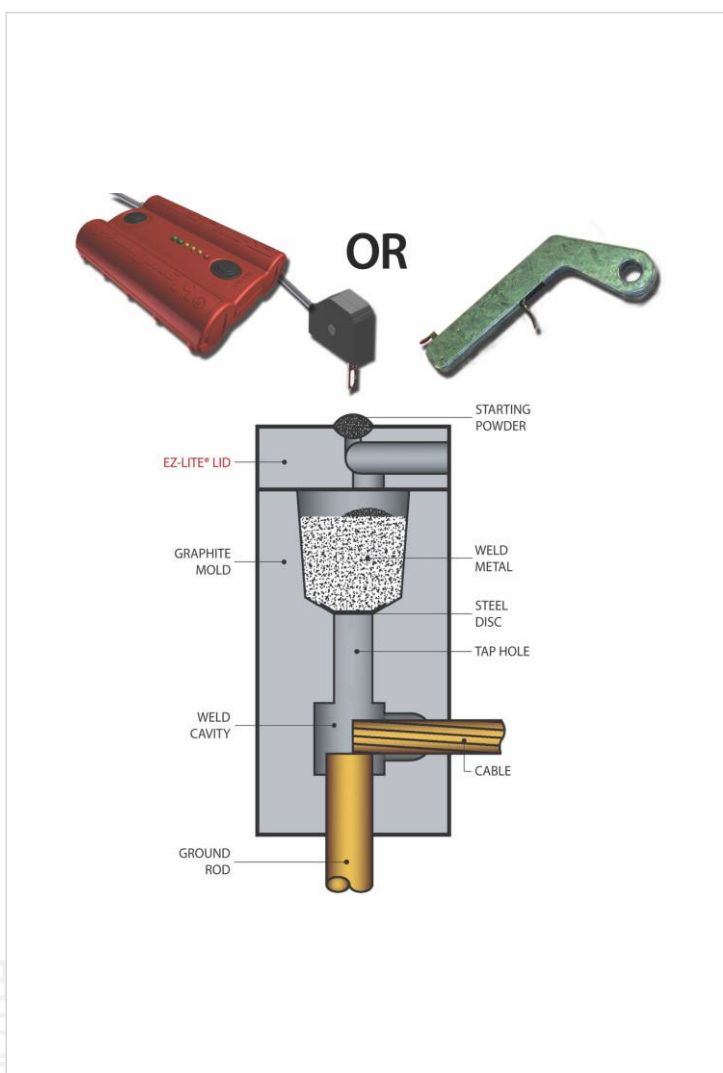
- 4 Close lid and Place a small amount of starting powder in the ignition pocket.



- 5 Ignite the starting powder with the Flint Ignitor.



- 6 Remove weld and clean mold before making next connection.





Lightning and Surge Protection Systems

www.cirprotec.com

CPT is pioneering Spanish company involved in the design and manufacturer of lightning and surge protection devices whilst CIPROTEC provides consulting services and customized solutions for both companies and individuals. It belongs to a holding company specialized in technology which gives it access to several design and manufacturing centers and laboratory .

MAIN PRODUCTS

- Lightning rods with ESE system
- Faraday cages
- Earthing systems
- Surge Protection for Electric and Electronic Equipments.



Joining Kits, Rubber, Resin & Gel for all kind of Cable Application

www.raytech.it

Raytech , located near Milano, the most important economic-financial area in Italy, is the company with the widest range of accessories and components for electrical cables in the world in terms of production.

Passion for design and innovation has allowed Raytech to evolve and adapt to the needs of constantly expanding national and international market standards, as well as to meet the challenge of satisfying and surprising end users with new or improved products extremely rapidly, without ever skimping on the same scrupulous quality which has always distinguished them in the production field.

MAIN PRODUCTS

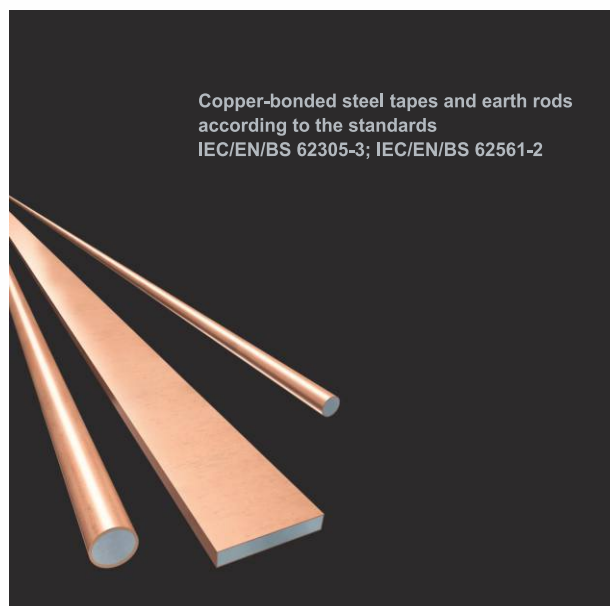
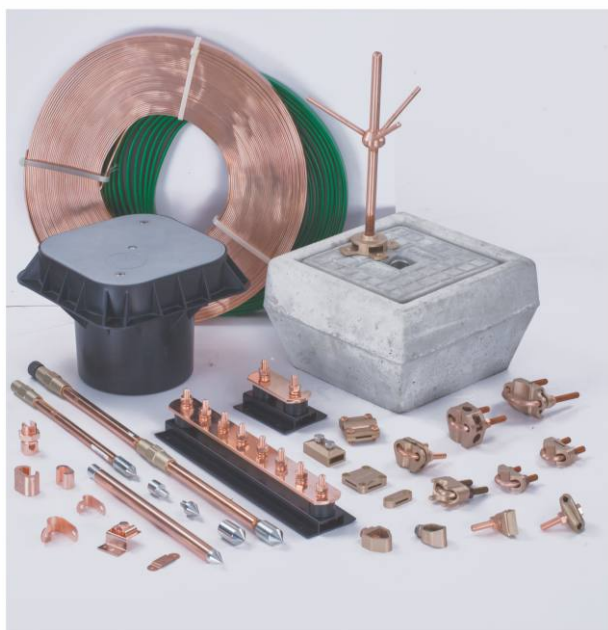
- Joining Kits
- Rubber
- Resin
- Gel for all kind of Cable Application



CBM TECHNOLOGY – GALMAR is Polish company, manufacturer of Earthing and Lightning Protection Accessories that meets standard like IEC/EN 62305-3, IEC/EN 62561-2, HD 60634-5-54, EN 50522.

MAIN PRODUCTS

- Copper Bonded Rods/conductors
- Lighting Protection Accessories
- Earthing Accessories
- Exothermic Welding System
- ESE System





G.I. Conduit Accessories

TOPLINE is a well know brand in the field of Cable Management & Protection Systems. Topline has wide range of products and are cost effective, completely reliable, quicker and easier to install.

CABLE MANAGEMENT SYSTEM

Channel: Plain, Slotted & Combination.

- Spring Channel Nuts
- Flat Plate Fittings, Cross
- 2 Lug Wing Fittings
- Angle Fittings 90° & 45°
- Channel Base Fittings
- U & Z Fittings and Channel Couplers (Internal & External)
- Beam Clamps
- Single and Double Channel Gusset Bracket
- Single and Double Cantilever Arms
- Slotted Channel Cantilever Arms
- Threaded Rods

Conduits & Pipe Fittings & Accessories

- Channel Pipe Clamps, Rubber Nut Clamp,
- Nail Clamp, Hanger Clamp
- H.D. Galvanized Conduits
- Conduits fittings and accessories
- Junction and Adaptable Boxes



Our Projects

DUBAI - UAE

- Jumeirah Village III Circle – Infrastructure Works.
- Reem Development – Construction Mira Townhouse.
- 382 - Villa Arabian Ranches.
- Arabian Ranches 2 Development Construction.
- RTA Bust Stop.
- First Avenue Mall.

ABU DHABI - UAE

- ETIHAD Rail.
- ICAD INDL Effluent Treatment Plant.
- Construction of NEB Infrastructure Upgrade.
- (Up & D) and Midfield & Perimeter Road.
- BID Al Mataw'a School.
- Abu Dhabi Indian School.
- International Indian School.
- BNPP – BNPP Infra Cp-i2.
- EPC of ESI CCS Project.

DOHA - QATAR

- Qatar Laffan Refinery.
- Logistic Village Qatar(LVQ) – Phase 2.
- Logistic Village Qatar Phase 4.
- Construction of MIA Service Building.
- ABM Military College.
- Development of The Shooting Range Lehsaynia.
- Majlis Building Extension.
- Al UDEID Airbase – Strategic Military Facilities Contract.

OTHER

- Construction of Oil Terminal and Jetty - SHARJAH-UAE
- Jebel Hafeet Emirati Housing Development - AL AIN-UAE
- Mombasa Cement Factory – NAIROBI-KENYA
- 2x125 MW AKAZ Gas Based Power Plant - RAMADI-IRAQ



DEWA



ADWEA



SEWA



KAHRA MAA



CCTC



TARGET



QATAR
PETROLEUM



ADCO



TECHNIMONT



DODSAL



AL JABER



HABTOOR
LEIGHTON



TOTAL CONNEXONS

توتال كونيكشن الكهربائية ش.ذ.م.م
TOTAL CONNEXONS ELECTRICAL L.L.C

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QATAR



DOHA

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