

Raycap

Industrial Surge Protection Solutions



About Raycap

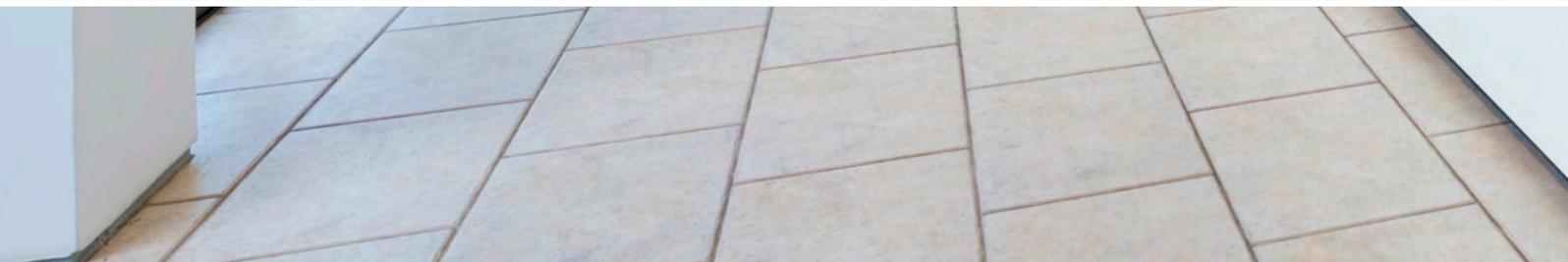
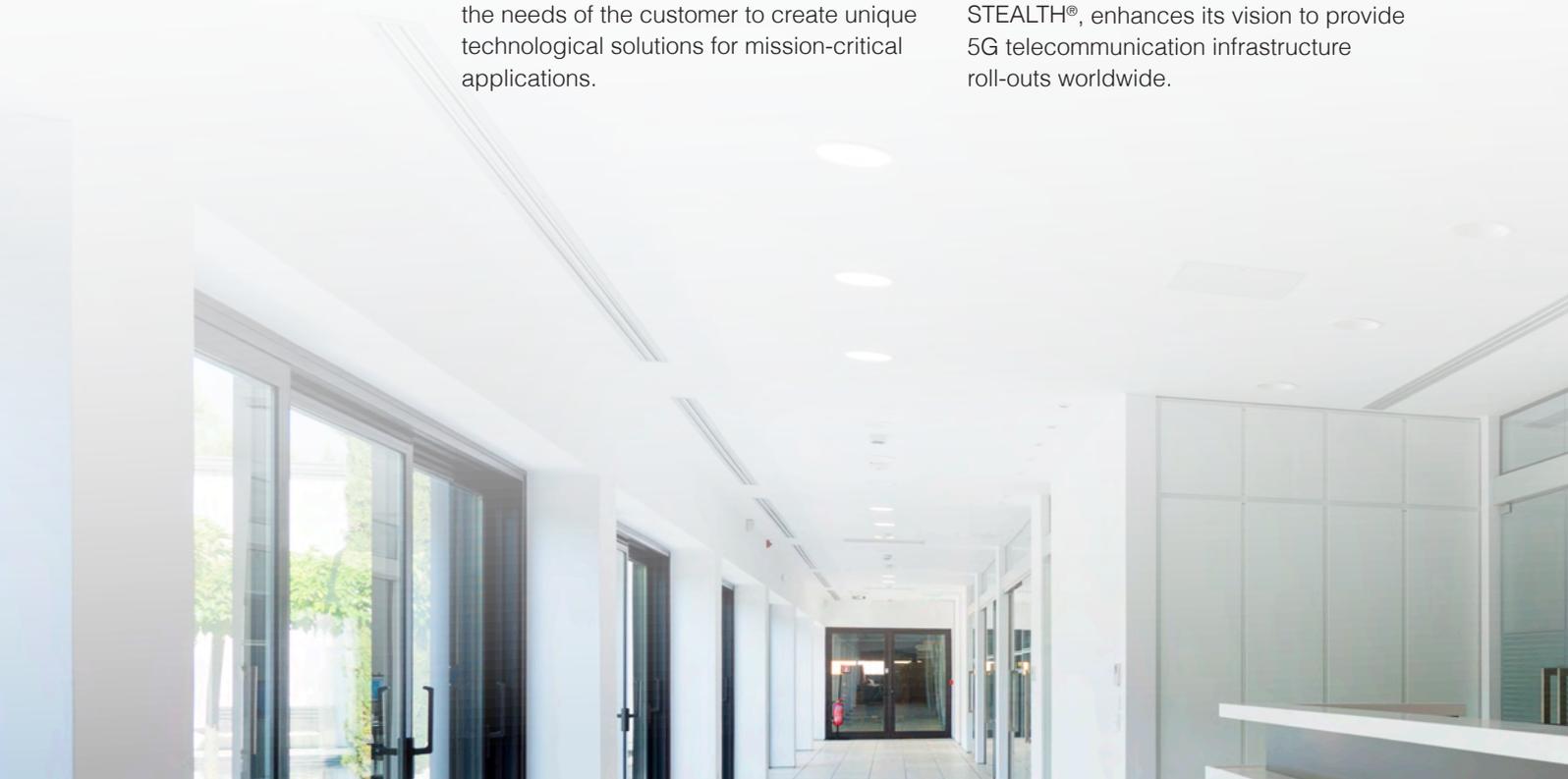


Raycap is a privately-held technology solutions provider offering products and services that support and protect the world's critical telecommunications, energy, transportation and other infrastructure.

Since 1987 Raycap has built a worldwide organization with offices and production facilities throughout Europe and in North America. The company combines advanced engineering, superior product design, systems integration and manufacturing capability with a deep understanding of the needs of the customer to create unique technological solutions for mission-critical applications.

The company's comprehensive understanding of customer needs and the industries in which they operate is crucial to its ability to develop effective products and solutions that integrate the latest technology with the highest quality of service.

Raycap's purchase of surge protection technology manufacturer Iskra Zaščite in 2015, increased its related solution offerings for building infrastructure and general industrial applications. In addition, the recent acquisition of concealment company STEALTH®, enhances its vision to provide 5G telecommunication infrastructure roll-outs worldwide.



Value Proposition

The Raycap team of talented, highly experienced staff works together with customers to find the best-fit solutions. As a result, more than half of the products delivered are custom-built for unique customer applications and to their specifications. From rigorous internal and independent testing to a consultative customer-focused approach, Raycap is determined to deliver the highest quality products with responsiveness, innovation and agility.

Experts in State of the Art Electrical Protection Solutions

With hundreds of thousands of installations worldwide, Raycap has extensive experience supplying custom solutions for some of the world's largest companies.

Dedication to the Customer

The company's philosophy is to reach a deep understanding of its customers needs and requirements in order to create unique solutions that help minimize operational expenses (OPEX), optimally adjust capital expenditures (CAPEX) and maximize the return on investment.



Raycap



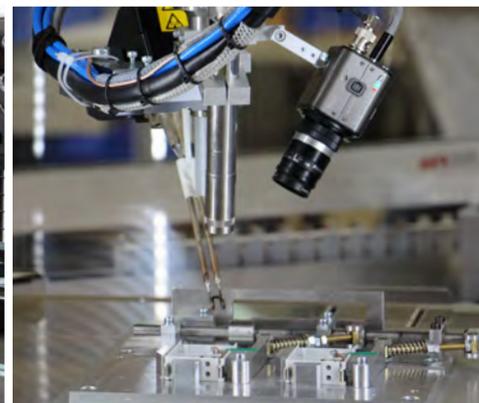
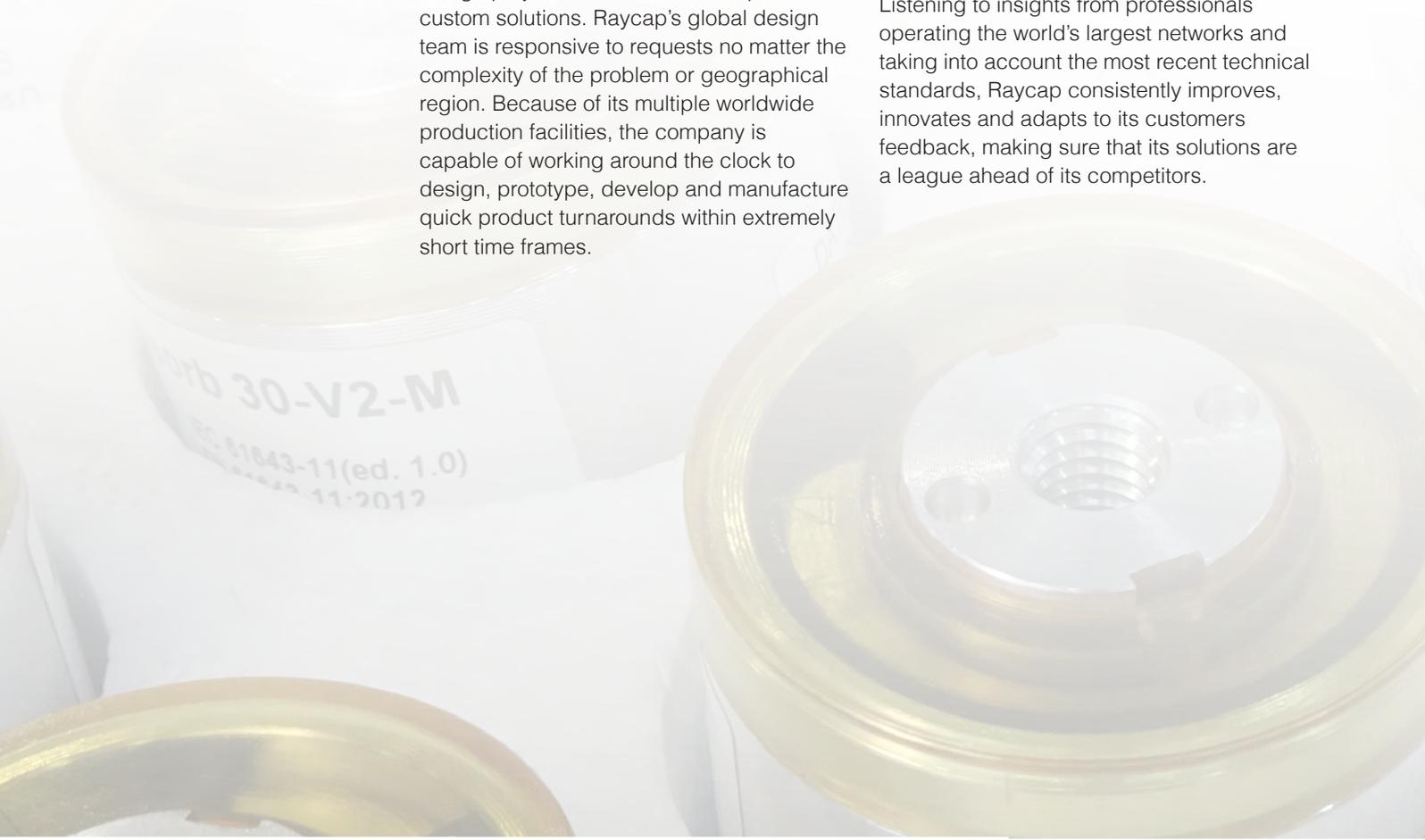
R & D Capabilities

Successful custom engineering solutions require three ingredients: Expertise, the proper testing facilities and access to the best prototype equipment available. Raycap has all three. Experience has shown that each application has different requirements, and thus more than 50% of all Raycap design projects have been developed as custom solutions. Raycap's global design team is responsive to requests no matter the complexity of the problem or geographical region. Because of its multiple worldwide production facilities, the company is capable of working around the clock to design, prototype, develop and manufacture quick product turnarounds within extremely short time frames.

Raycap's surge protection products are certified by global standards bodies and the company's testing facilities include IEC and VDE certified R&D labs in Europe, and a UL certified test lab in the United States.

Constant Product Innovation

Listening to insights from professionals operating the world's largest networks and taking into account the most recent technical standards, Raycap consistently improves, innovates and adapts to its customers feedback, making sure that its solutions are a league ahead of its competitors.



Manufacturing Capabilities

Not only can Raycap handle large customer volumes and roll-outs, but it specializes in custom manufacturing.

The company has a well-developed quality system and disaster recovery strategies that focus on uninterrupted global supply. Most of the Raycap facilities are certified and conform to international quality, environmental and safety standards, visit our website for a complete listing. Products are tested according to the most rigorous standards and are fully traceable, ensuring a complete vision throughout the product life-cycle and the best possible customer support.

Single Source Components

Raycap has a comprehensive product range that includes surge arresters and metal oxide varistors (MOVs) as well as classic gas discharge tubes (GDTs) and our proprietary and patented GDT technology (PGDT). Our production is characterized

by an exceptionally high level of vertical integration in our products and their core elements. This enables a high degree of supply availability and guarantees our customers from the supply industry the best quality and reliability in procurement at all times.

In order to best serve its demanding global customer base, the company has invested in modern manufacturing processes and facilities located in:

- Munich, Germany
- Post Falls, Idaho, USA
- Kearny, New Jersey, USA
- North Charleston, South Carolina, USA
- Athens, Greece
- Drama, Greece
- Komenda, Slovenia
- Saint-Denis, France
- Nicosia, Cyprus
- Bucharest, Romania
- Suzhou, China



Strikesorb Surge Protection Technology



Strikesorb 80
Strikesorb 35
Strikesorb 40
Strikesorb 30

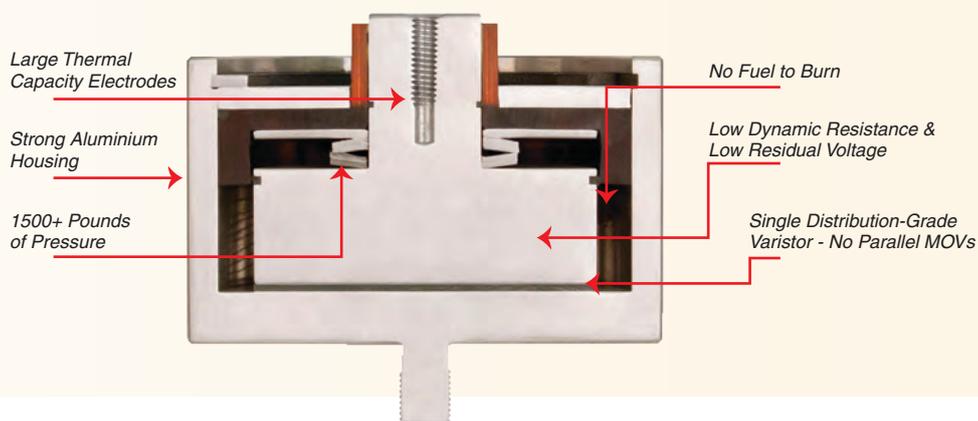
Raycap has led the way in finding creative protection solutions that ensure its customer's vital equipment does not experience downtime due to lightning or other power surge events. The company has made significant R&D and operational investments to develop and validate its unique Strikesorb® SPDs to meet global safety standards.

The innovative Strikesorb technology is uniquely equipped to safeguard against lightning surges, and has been engineered and tested for use in AC and DC power applications. Strikesorb modules are compliant to IEC 61643-11 and the UL 1449 4th Edition Safety Standards. Strikesorb 35 is a Type 1 SPD, per the EN 50539-11 IEC standard for surge protection devices, and a Type 2 component assembly SPD per UL 1449 4th Edition. It is specifically designed for DC operations. Where ever deployed, Strikesorb will significantly improve the availability of the equipment it protects.

Strikesorb Benefits

- **Patented Technology**—Strikesorb features an innovative SPD design that ensures continuous protection and eliminates all the failure and safety risks related to conventional SPDs.
- **Maintenance Free**—Strikesorb's fuse-less operation, its unparalleled performance against power surges and its immunity to TOV conditions make it the most reliable SPD for protection of the entire installation, and eliminates the need for maintenance and replacement parts.
- **High Surge Current Withstand Capability**—Strikesorb incorporates a wide distribution grade MOV disk kept under pressure between large aluminum electrodes, enabling effective thermal dissipation and excellent management of the surge currents' negative effects. Strikesorb can actually withstand thousands of repetitive surge events without degradation.
- **High Short-Circuit Current Rating**—Strikesorb's inherent capacity to resist high short-circuit currents enables flexible integration into industrial systems and "in-line" installation in all common AC and DC applications without the need for a dedicated fuse.

Strikesorb's unique design features a distribution grade metal oxide varistor (MOV) that can handle much larger surges without effecting performance.



Strikesorb Assemblies

- **Best overall protection for the installation**— Strikesorb's capability to be installed "in-line" even in the case of very high short-circuit currents, eliminates the need for long cable lengths, results in the lowest possible let-through voltage and ensures optimum protection levels. The sensitive equipment remains continuously protected in the most efficient way possible.
- **Safest SPD**— Strikesorb's aluminum casing and internal components manage the heat generated within the device when multiple lightning surges or faulty operating conditions occur. Its design eliminates the use of any materials which could burn or smoke.
- **International Standards Certified Compliance**— Strikesorb modules have been tested and approved by internationally accredited independent laboratories to the latest IEC and UL safety and performance standards.
- **Long Lifespan and Warranty**— Strikesorb's expected lifetime is much more than 20 years; it is supplied with a 10 year limited lifetime warranty.



Strikesorb assemblies enable original equipment manufacturers (OEMs) to effectively integrate a variety of systems such as motor control equipment, variable frequency drives (VFDs), and other industrial systems. These Strikesorb assemblies can be custom designed to fit into virtually any sized cabinets or configured as additions to existing equipment in the field.



3 Phase flat busbar configuration with Strikesorb 80 surge protection modules deployed for an in-line installation.



Dual Strikesorb 40 surge protection modules.



Rayvoss Protection

With Strikesorb 40 or Strikesorb 80 surge protection at their core, Rayvoss® industrial solutions offer unsurpassed electrical protection that meets the requirements of telecommunications, power generation, defense, transportation and other mission-critical applications. Rayvoss systems can be customized with a variety of operating voltages, configurations and cabinets, conforming to industry standards and certifications.



Rayvoss Family of Products



Rayvoss Protecting the UPS on a mobile trailer.



Rayvoss units are custom configured to suit any application and protect a broad range of operating voltages for single or multiple phase distribution types. They are available in a variety of enclosure sizes with optional stainless steel and various monitoring features.



Metal enclosure with 4 Strikesorb 80s.



Raycap offers Rayvoss in a non-corrosive, stainless steel, IP67 rated cabinet for use in harsh weather conditions.

ProTec DIN Rail SPD Series

ProTec industrial SPD solutions offer very good electrical protection using a variety of surge protection technologies including metal oxide varistor (MOV) and gas discharge tubes (GDT). With a wide variety of operating voltages and technology available, ProTec's sleek industrial design, physical characteristics and innovative technology offerings bring a flexibility to the market, creating ideal solutions to meet the electrical protection needs of a diverse customer base. The ProTec product line can be deployed in any industrial setting.



ProTec T1-300-1+0-R

DIN Rail Features

- Contemporary design
- Low residual protection level
- Lifetime indicators
- Redesigned thermal disconnection
- No external back-up fuse required up to 315A
- Vibration and shock withstand capability
- Space-saving design
- Easy replacement
- Patented module locking mechanism
- Meets IEC/EN and UL 1449 4th Edition



ProTec T2-300-2+0-R



ProTec T2-300-3+0-R



ProTec T2-300-3+1-R



ProTec T1H-300-3+1-R



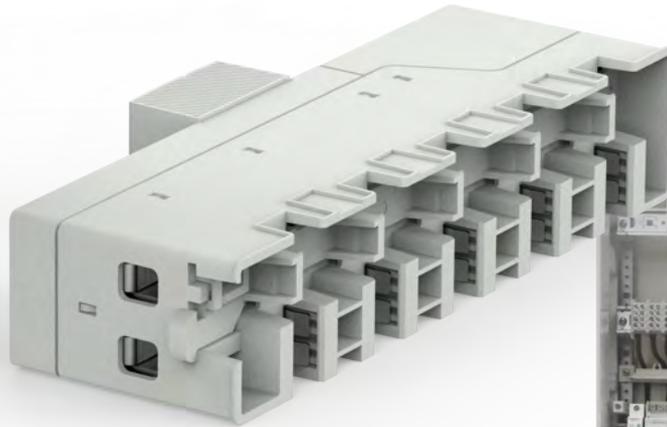
ProTec Hybrid technology is a leakage current free technology designed for installation in front of the power meter. The products have a pluggable design and are available in Class I+II / Type 1+2, as defined by IEC/EN. The Hybrid technology consists of a specially formulated GDT+MOV protection element that brings unique protection levels and contributes to Raycap's ability to offer the widest range of protection technology solutions for a broad number of applications and industries.

ZPS Features

- Innovative phase connection
- Telecommunication contact for monitoring
- Universal installation between two SLS switches
- Attachable 40 mm connection for 5 mm and 10 mm busbar systems
- Current leakage-free
- Type 1 SPD (I_{imp}) for 12.5kA and 7.5kA



ProTec ZPS T1H-300-3+1-R-L



ProTec T1HS-300-3+1-R



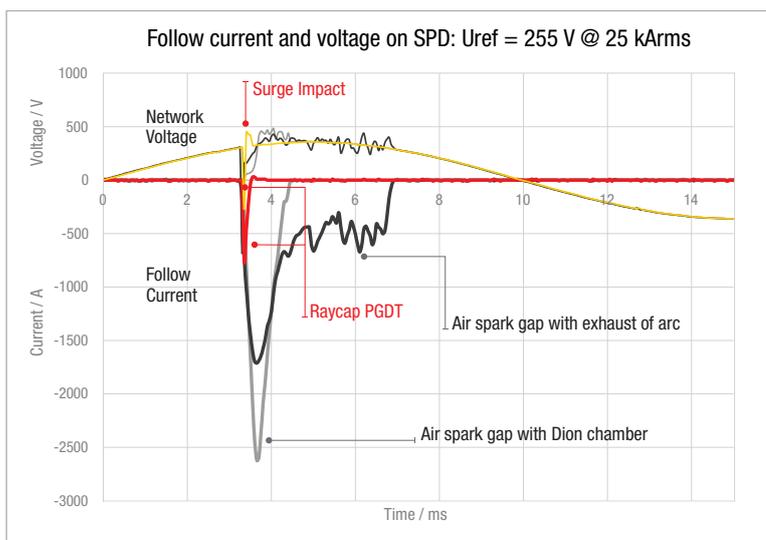
ProTec T1S Phase GDT Technology



The ProTec T1S Series is the latest evolution in surge protection from Raycap. At 25 kA (10/350µs) in a 1TE (17.5mm) DIN package, it is the most compact pluggable surge protective device on the market.

ProTec T1S utilizes a breakthrough multi-cell, encapsulated GDT technology, to achieve a residual voltage like that of an MOV-based SPD, but in a footprint half the size of the market competition and without restrictions governing where on a network it may be installed.

Raycap has a long tradition of utilizing materials in a way to provide robustness and long-lived products. Combining this knowledge with a new patented multi-cell GDT technology offers customers a solution that can be used in heavy lightning intensive environments.



ProTec T1S-275-3+1-R

The follow-current of PGDT technology is compared to that of conventional air-spark gap technology. Conventional air gaps need to migrate the arc away from the main electrodes to lengthen, and ultimately extinguish it. This process of moving the arc takes a finite time during which the follow-current increases. PGDT technology uses the multi-cell approach to circumvent this limitation and lower the follow-current.

Features & Benefits

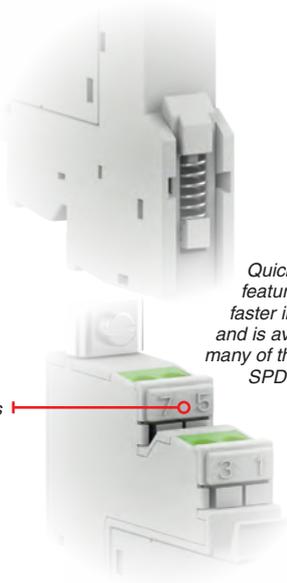
The features and benefits of this new PGDT technology may be summarized as follows:

- Compliant with IEC Class I testing per IEC 61643-11 - making it suitable for use in locations where direct, or partial direct, lightning currents can be expected per IEC 62305-4.
- VDE mark - certified to applicable IEC and European norms under low voltage directives.
- High surge capacity but without the problems of follow-current extinguishing - can be installed on networks having high prospective short circuit fault currents (SCCR).
- Tested to be suitable for repeated operations on networks with I_p as high as 50 kA 50/60 Hz.
- Multi-cell design reduces follow-current to the point it behaves much like MOV based technology - unlike conventional spark gap technology where the high follow-current causes the gap electrodes to degrade after each operation, PGDT provides a long operational life.
- Low residual voltage $U_p = 1.5 \text{ kV}$ - can effectively be coordinated with other Class II or Class III SPDs on the network. It can be coordinated with any properly installed Class II SPD without the need to consider cable length in between the products.
- High surge rating in a compact, pluggable, DIN package - half the footprint of competitive products optimizes panel board real estate.
- Encapsulated design, vital parts are housed inside a hermetically sealed cell - no expulsion of hot, conductive, ionized gasses.
- Change over contacts for remote monitoring
- Efficient internal mechanical thermal disconnects - enables safe and reliable end-of-life behaviour on networks
- Red/Green status indicator

RayDat Protection



RayDat surge protection for data and signal line systems provide unsurpassed electrical protection for signal power applications. These products meet the diverse requirements of industrial and other signal protection applications. RayDat products are available in a variety of operating voltages and configurations that conform to the latest industry standards and certifications.



Quick Connect feature enables faster installation and is available on many of the RayDat SPD solutions.

RayDat SPDs feature line identification marking.

Raycap's anti-vibration mechanism ensures the pluggable surge protection modules remain locked onto their bases despite severe shock or vibration conditions.



RayDat NET 6 POE

RayDat SBH-3-5

RayDat SSH-3-24

RayDat SLH-4-30

RayDat SPH-4-30



ProGRID Surge Counters & Monitors

Surge currents can cause loss of data transmission, switch tripping, disturbance of machine control systems and a slow but noticeable degradation of circuit elements. In addition, a surge can be an indicator of a short circuit which causes currents of power to travel along unintended paths with little or no electrical impedance, for example after a blackout or wiring insulation damage. Raycap's ProGRID surge and lightning counter solutions have different capabilities that can sense, record and transmit the occurrence of otherwise undetectable surge currents, enabling users to take preventive measures and plan appropriate maintenance.



ProSLS Monitor



ProSEC II+ Counter



ProLEC Basic Counter



ProSCT
Component Tester

ProSCT Series Advantages

The ProSCT tester is a portable, battery operated measuring device that checks SPD components for function. Each unit is equipped with internal protocol memory and integrated battery charger.

Suitable for:

- Gas discharge arresters
- Varistors
- Suppressor diodes

Low & medium voltage heat-shrinkable cable products for energy networks

Raycap's heat shrink connectors are designed to provide stable voltage grading performance with excellent anti-return properties to work successfully under the harshest conditions. Our shrink-wrapped fittings are designed to provide stable performance at elevated conductor temperatures. Custom kits are available.

RayTerm Heat Shrinkable Cable Joints for Indoor and Outdoor Applications

Raycap's RayTerm and RayJoint series of heat shrinkable cable joints have been specially designed to provide stable performance under high loads, even when a higher temperature occurs on the cable. They work extremely reliably for more than 30 years even under the toughest conditions. Both series are available in customized versions for up to six-core cables and special applications such as mining.

RayJoint Heat-shrink Joints

RayJoint heat shrinkable insulators are designed to provide stable performance even when higher temperatures occur on a line. The innovative triple co-extruded insulating and semi-conductive tubing material provides increased pressure to help prevent partial discharges and also provides greater insulation thickness than comparable competitive products. RayJoint is supplied in complete kits that are characterized by compact dimensions. The wide product range covers all cable types and constructions.

RaySTC Shielded Separable Connectors

The innovative RaySTC shielded right-angle connectors cover the entire range of connection interfaces for sizes up to 1250A and 36kV. The high-quality silicone gives the connectors high temperature resistance and at the same time great flexibility and long life. The RaySTC product range is tested according to IEC 60502-4.

Learn more about heat shrink products on raycap.com



RaySTC



RayTerm



RayJoint

Telecommunications Equipment & Accessories

Raycap designs and manufactures housings for passive and active telecommunication technology for indoor and outdoor applications. Our cabinets offer maximum protection of system technology and infrastructure against vandalism and extreme weather conditions. The enclosures for the outdoor area, for example, are characterized by a modular design, a double-walled aluminum construction, excellent heat dissipation and easy installation and can be adapted to customer requirements.



Electric Vehicle Charging



Multiple EV Charging Stations



Applications for Industry



eMobility - Charging Protection

Raycap provides standard and customized AC and DC SPD solutions for electrical vehicle (EV) charging technologies, such as AC direct charging, DC low voltage charging and next generation DC high voltage charging (fast charging). A unique challenge of DC high voltage charging is the reduction of overvoltage coming into the electrical vehicles and damaging circuitry. With this in mind, Raycap has designed and manufactured DC SPD solutions dedicated to mitigating the risk of this happening.

EV Charging Station



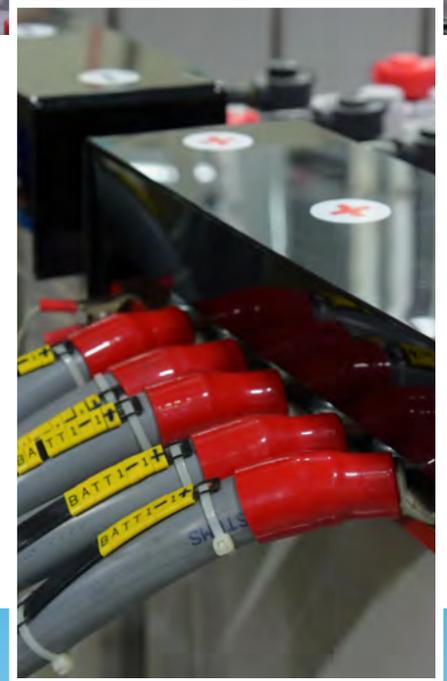
eMobility solutions present opportunities for cleaner vehicle emissions. The convenience of having charging stations in many areas helps to enable the technology. Another important factor is the electrical protection of these locations, and the cars themselves.

Energy Storage

Battery storage systems enable new applications and opportunities, and are an important contribution to the stability of power grids. While surge protection technology has been in the market for many years, this industry provides a particular challenge to which Raycap has responded with one of the broadest ranges of products available. Because all electrical equipment is susceptible to surges, it is advisable to consider reliable surge protective devices to avoid equipment failure and thus minimize financial loss.



Battery Storage
for Cellular
Communications
Switchboard



With advances in energy storage the promise of renewable energy can be fully realized. As these systems become more prevalent the installation of industrial surge protection is mandatory to ensure public safety and optimum performance.

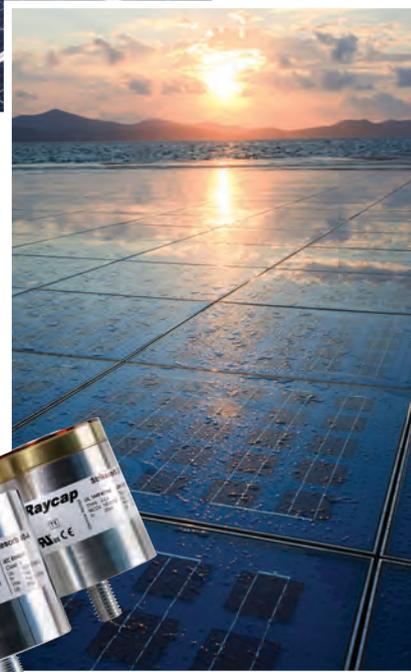


Photovoltaic Farm



Inverter and Power Transformer Building

Offshore Solar
Alternative Energy
Source



Solar Energy

Many solar power plants are built in remote areas and are vulnerable to violent lightning strikes. To ensure long-term system reliability, surge protection must be placed on both the AC and the DC side of the solar power plant to protect from lightning strikes and grid-side surges.



Solar power plants and photovoltaic systems benefit from the unique, high-performance capacity of Raycap's lightning protection solutions. The high reliability found in Raycap products really counts in remote operations.



Wind Energy

Lightning damage is a very real threat to the wind farm operator. Wind turbine manufacturers integrate Raycap's surge protection and monitoring products into various locations of the wind turbine. From the wind turbine generator to the sensitive communications and monitoring equipment located inside, all systems must be protected from and monitored for powerful lightning surges.

Wind Turbines



Wind Power Transformer Station

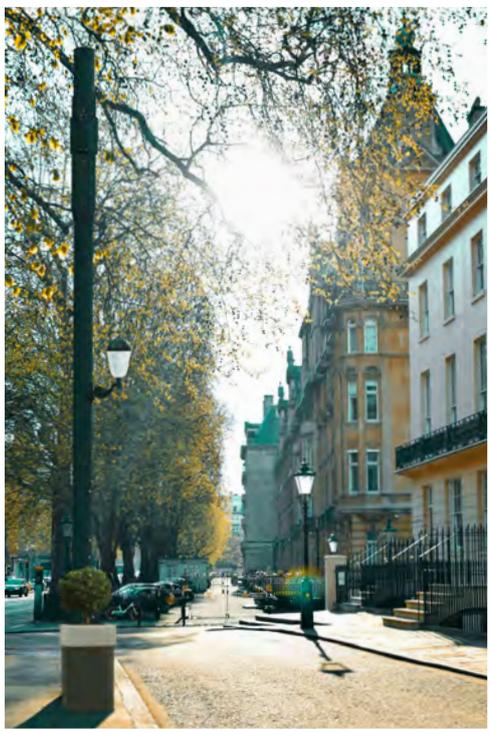


Wind turbines are especially susceptible to damage from lightning strikes. When compared to costly repairs and unnecessary downtime caused by lightning strikes, the relatively low cost of Raycap solutions far outweighs the alternative.

Small Cells, FTTA, Custom Cabinets & Enclosures

Raycap offers a diverse range of solutions for the telecommunications industry including street cabinets and enclosures for fixed, broadband and wireless applications. The company's concealment solutions are marketed under the STEALTH brand. These include customized cabinets, light poles, kiosks and other street furnishings that hide small cell equipment comprising the backbone of the 5G network infrastructure.

Small Cells and Custom Enclosures in Many Shapes and Sizes



Raycap is creating infrastructure to support 4G, 5G and next generation networks.

Rooftop Telecommunications
Equipment



Water Tower with Cellular
Radios and Antennas



Remote Radio Head Architecture & Emergency Network Centers

The mandatory upgrading of many emergency networks, and the advent of 3G, 4G, and 5G technologies has made it necessary to move radio equipment to the tops of cell towers, exposing it to the elements and in particular, lightning. Raycap is the world leader in providing both AC and DC power protection and connectivity solutions for fiber to the antenna (FTTA), power to the antenna (PTTA) and hybrid telecom architectures.



Emergency Services
Networks



Raycap's extensive experience in providing lightning protection and connectivity solutions for telecommunication companies offers customers peace of mind and a partner they can trust to help safeguard their network equipment.



Central Office

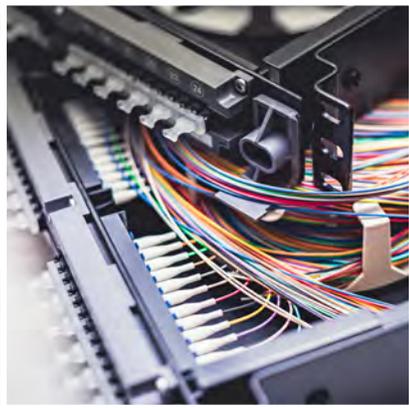


Solutions for Telecommunications

The demand for bandwidth and higher transmission speeds is increasing all the time. The use of fiber optic cables in the access network is the logical consequence and is already being implemented by many network operators. Raycap offers various products for this purpose, which have been developed under the aspects of high reliability, quick and easy installation and protection against unauthorized access.



Cable Assemblies



Fiber Assemblies



Raycap telecommunication cabinets are designed for maximum flexibility and durability according to customer specifications and are manufactured in Europe.

*Installation of
Voltage Protection*



Heat Shrinkable Cable Products

With more than three decades of experience in research and development in material technology and cable accessories, Raycap's shrink joints and terminations meet the need for easy and reliable installation and long life. The combination of superior design and innovative material properties allows Raycap's cable accessories to be easily installed even in the most difficult environmental conditions, with the life of the cable fittings often exceeding that of the cables themselves.



*Electrical
Switchgear Room*



*Heat Shrinkable
Metal Reinforcement*



Raycap's RayTerm and RayJoint provide heat-shrinkable connection and termination solutions that provide the protection required for low and medium voltage network applications.

Sewage Water Treatment



Water Pumping Station



Water Lift Station



Water & Wastewater Treatment Facilities

Water and wastewater treatment systems are heavily dependent upon a series of pumps and variable frequency drives (VFDs) which can be extremely susceptible to damage from electrical surges.

In these applications surge protection is integrated directly into the equipment by the original equipment manufacturer to protect the VFDs.



Deploying Raycap SPDs at critical points inside water and wastewater treatment plants protects mission-critical equipment from damaging electrical surges and ensures the reliability of the public water supply and water treatment plants.



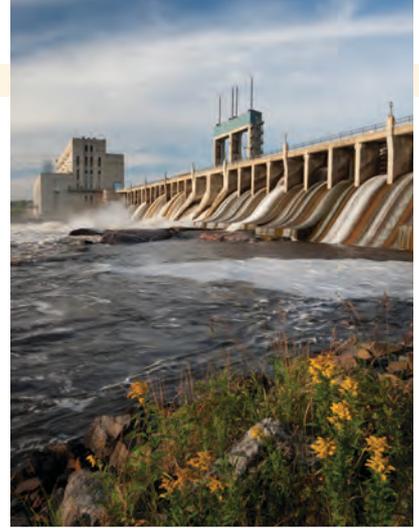
Hydroelectric Power Plants

Hydroelectric energy facilities are supported by a variety of sensitive electrical systems that control everything from intake valves to fish passage and protection.

Surge protective devices are used to protect the equipment inside the facility from power surges and inconsistencies.



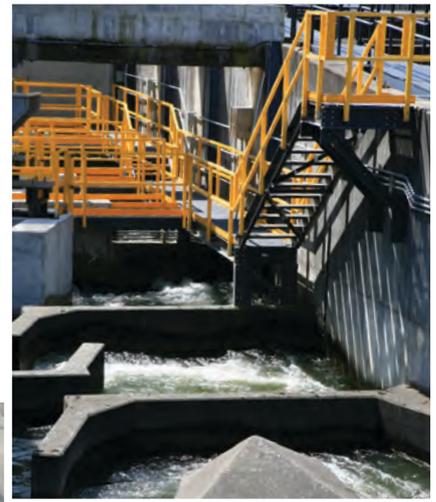
*Hydro Electric Power
Generating Station*



*Hydro Electric Power
Turbine Generators*



*Automated Fish
Ladders and Locks*



Raycap's surge protection solutions are used inside hydroelectric power plants to help protect the sensitive equipment inside from damage caused by electrical surges.



Power Distribution Networks

Power distribution grids are particularly susceptible to lightning surges, causing system outages and affecting the reliability of the power supply, resulting in enormous financial burden. The transfer of overvoltages to the low voltage side is mainly associated with a rise in potential at the transformer grounding caused by current flowing through the medium voltage surge arresters and creating an electromagnetic coupling between the medium-voltage and low-voltage transformer terminals. Installing surge protection significantly reduces the overvoltages to safe lower peak values which remain practically unaffected by transformer and/or load grounding resistances.



Electrical Power Transformers



Electrical Energy Substation Panel



Raycap's electrical protection solutions can safeguard power distribution equipment and help prevent transformer failures, saving money and protecting the backbone of the power grid.

Buildings, Light Industrial & Factories

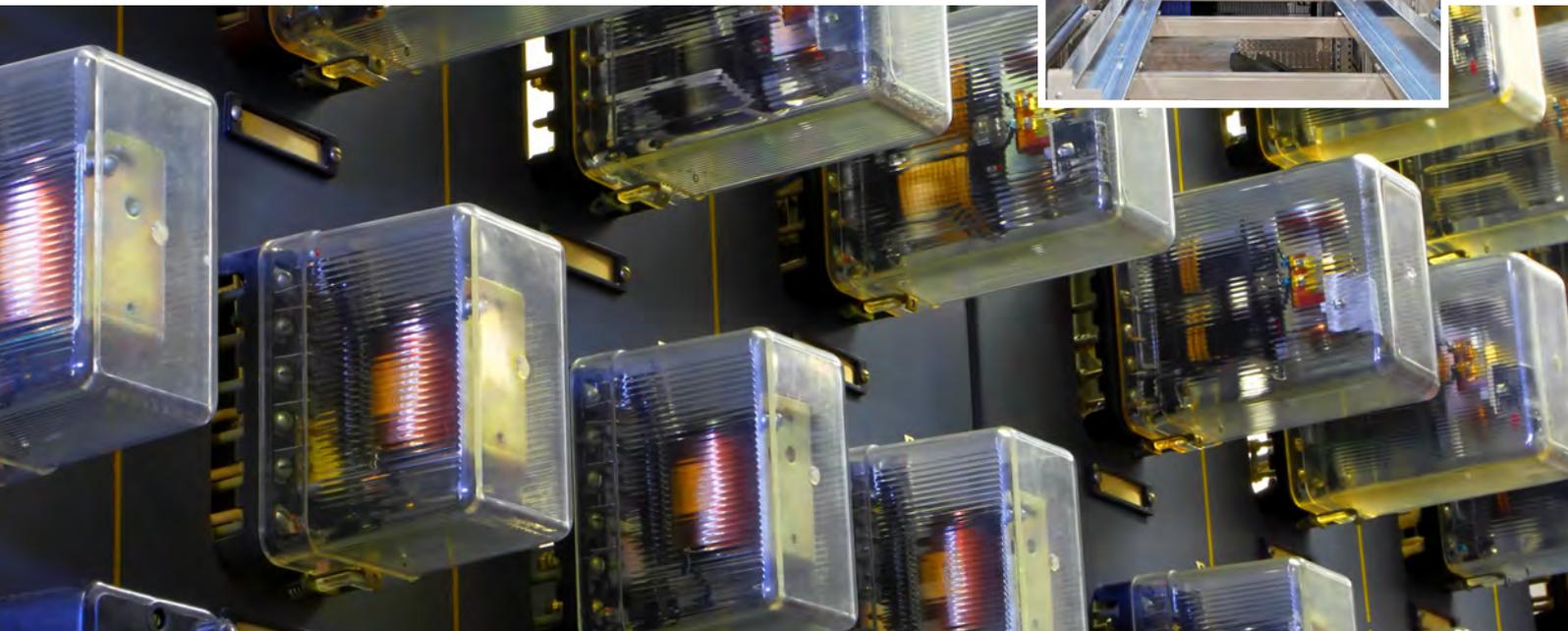
Raycap industrial surge protective devices provide electrical protection to residences, light industrial facilities, and factories. By installing highly reliable surge protection at the service entrance, at electrical panels and close to sensitive equipment, the facilities can be protected from electrical surges caused by lightning strikes, utility accidents and overvoltages caused by the switching on and off of adjacent industrial equipment inside the facility.



Water Bottling Machine



Warehouse Automation



Raycap's lightning and surge protection for industrial applications provides customers peace of mind and a partner they can trust to safeguard their mission-critical equipment for every aspect of the manufacturing process.



Air Traffic Control Tower



Cargo Containers
Aboard Transport
Ship



Oil Tanker



Transportation

Raycap surge protection solutions are designed for specific use in transportation applications. They successfully protect railway passengers from electrocution on European railways; are the product of choice by the US Federal Aviation Administration (FAA) to successfully protect air traffic control tower equipment at US airports; and are installed by the US Navy and commercial maritime companies to safeguard sensitive shipboard marine electronics.



Raycap's electrical protection solutions are a complement to transportation applications. The robust nature of the products ensures they will stand up to any harsh environmental conditions, and their high reliability means they will continue to protect mission-critical systems for the long run.

Coal Conveyor



Bucket Ladder Excavator for Open-Pit Mining



Mining & Oil & Gas Applications

When mining facilities have to interrupt their operations, downtime can be very expensive and repair costs can be high. Therefore, surge protection devices play an important role in these installations, because uninterrupted and maintenance-free operation above and below ground must be guaranteed.

Pumping stations and transport systems for crude and shale oil and natural gas must be protected against dangerous surge conditions and lightning discharges.

In these applications, Rayvoss SPDs, Strikesorb assemblies and other SPD solutions are used to protect and monitor various electrical systems inside and outside the production facilities.



Raycap's surge protection solutions are deployed at oil and gas pumping, processing, and transfer stations to safeguard vulnerable equipment and protect the entire operation from damage caused by lightning strikes.

Raycap Worldwide Locations



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