

KOLDLOK®



It's About More than Plugging Cable Openings

Most green-minded data center managers realize sealing cable openings is critical to achieving energy efficiency in the data center, which leads to cost savings. Sealing even the smallest of cable openings helps manage thermal challenges for total data center optimization. For the most significant results, the latest product in the KoldLok® Grommet family from Upsite Technologies can be easily deployed.

Designed with virtually all of the original KoldLok features, the fire-rated KoldLok Mini Raised Floor Grommet at 4 x 6 inches (100 x 150 mm) is engineered to be the most effective and smallest sealing solution available.

"The KoldLok Mini Grommet is designed to meet smaller cable opening standards specified in new builds, and works well in retrofits. What conscientious data center managers realize is sealing even a small opening can have a positive effect on existing cooling unit capacity," says Michele Galeazzi, KoldLok Product Manager at Upsite Technologies. *"The KoldLok Mini provides a cost-effective, efficient way to optimize airflow immediately and save money in the long-term."*

Upsite expanded the KoldLok family of engineered sealing solutions with the KoldLok Mini Raised Floor Grommet to help the data center industry better optimize. *"After extensive research in the field, we discovered that our data center customers require more varied and flexible solutions to treat multiple cable opening sizes,"* says Peter Crook, President of Upsite Technologies. *"We're excited to help data centers lower data center energy costs and execute their green and energy efficiency initiatives with the KoldLok Mini."*

Upsite has established itself as the organization that produced the original research, along with the Uptime Institute®, about the true causes of lost and wasted energy use. Upsite was the first to offer the engineered solution to solve this challenge and continues to research cost efficiencies in the data center. Over the years, Upsite's studies have revealed that the reliability, availability, and economic well-being of the data center are at risk, and that the industry will continue to suffer without well-engineered solutions. Many, if not all, of the products

now offered in the marketplace are based on the collaborative research that originated with Upsite and the Uptime Institute.

As the most effective sealing solution chosen by many Fortune 100 companies worldwide, the KoldLok Raised Floor Grommets, now including the KoldLok Mini, offers a versatile suite of proven products.

- KoldLok Mini Raised Floor Grommets seal smaller openings in new data centers that have multiple cable opening sizes, and offer a handy way to split power and data cabling.
- KoldLok Surface Mount Raised Floor Grommets can be used for retrofit projects to seal a variety of existing raised-floor tile cutouts and allow the flexibility of removing tiles without capturing cables.
- KoldLok Extended Raised Floor Grommets seal a variety of existing larger openings along the wall, with the added flexibility of modification for unique openings.
- KoldLok Integral Raised Floor Grommets seal cable openings in new raised-floor systems prior to the installation of communication or power cabling.

With its engineered design and proven history in reducing infrastructure costs, the KoldLok family of products has an immediate impact on cooling capacity optimization; and in the long-term, lowers TCO and reduces carbon footprints. Large, successful companies cannot tolerate unreliability, downtime, or the high energy costs associated with inferior solutions in their data centers. With KoldLok products, leading companies get proven raised-floor sealing solutions requiring no maintenance and continue to save costs.

How does the expanded KoldLok family of sealing solutions achieve this? All KoldLok products offer a virtually perfect seal, which can significantly increase existing cooling unit capacity by enabling more effective delivery of cooled air to IT equipment air intakes. The installation of KoldLok products helps reduce the need to purchase additional cooling units. Their effectiveness, durability, low maintenance, and adaptability to a wide variety of cable opening configurations have established the added value of the KoldLok sealing solutions in the industry, especially for reducing infrastructure overhead and cutting cooling costs. After witnessing the results of the KoldLok product seal, it's clear that it's about much more than just plugging cable openings.

Before: Real air-intake temperatures in an actual data center before installing KoldLok products



The color variations used in the graphical illustrations are interpretative.

Before KoldLok products were installed, a foam product was used to plug holes and fans were used to cool the computer room. Temperatures reached 94°F, 17 degrees higher than is recommended by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE).

After: Real air-intake temperatures in an actual data center after installing KoldLok products



After KoldLok products were installed, virtually all temperatures dropped below the recommended 77°F, resulting in increased cooling optimization and greater overall data center efficiency.



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