

Neumarkt, 13th September 2022

DEHNpatch – Surge protection for Ethernet infrastructure

Advancing digitalisation demands an ever faster supply of data. High transmission volumes and ever improving bandwidths are a prerequisite. Structured cabling is an important component of today's network topology for information and data technology. In this context, safety is a multifaceted topic, in which lightning current and surge arresters play an important role. The new DEHNpatch DPA CL8 EA 4PPOE arrester is designed for use in a switchgear cabinet or data distributor and can handle data rates of up to 10 GBit/s. With Power over Ethernet (up to 4PPoE with a power transmission of up to 100 W), class EA transmission standard (max. 500 MHz), status indication and the possibility of remote signalling, the DEHNpatch is equipped for modern applications. Available bandwidths can be maxxed out while undisrupted data transmission can be ensured.

The DEHNpatch DPA CL8 EA 4PPOE is a combined arrester (TYPE 1) with a lightning current discharge capacity of 4 kA (10/350 µs). The combined lightning current and surge arrester can be used at all lightning protection zone transitions from LPZ 0A to LPZ 1 and higher. It thus ensures protection in compliance with the lightning protection zone concept as per DIN EN 62305. Additional equipotential bonding can be established via a housing contact (screw connection).

Based on the latest standard for terminal equipment supply via Ethernet cabling, the new DEHNpatch already protects 4PPoE applications with a power transmission of up to 100 W. It meets power requirements at a high transmission bandwidth of up to 10 Gbit. It therefore satisfies the transmission standard Channel Class EA (500 MHz) as per ISO/IEC 11801.

The fully shielded design of DEHNpatch allows for use in shielded and unshielded networks. Direct earthing is possible via the DIN rail.

Due to a width of just 19 mm, up to 24 devices can be integrated next to each other in a row in a 19" data distributor. As a result, valuable space can be used optimally. DEHNpatch is ideally suited for installation in small-sized distribution boards, as can be found for example in mast applications in mobile communication and in process and safety technology.

Press release



Whether it is structured cabling, IP camera systems or Ethernet applications in general, DEHNpatch is prepared for a broad range of use due to its performance. This simplifies planning and storage, facilitates quick and easy product selection and enables simple installation.

DEHNpatch is the first arrester in its class to be equipped with an integrated optical status indicator. This clearly indicates the status of the arrester (red/green). Consequently, in the event of an overload, it can be identified on the system quickly and replaced easily.

Furthermore, you have the option of monitoring the arrester with a stationary remote signalling unit (DEHNrecord DRC IRCM). The status of an arrester group is reported to a higher-level control system via a floating contact. In this way, DEHNpatch enables remote condition monitoring. Troubleshooting and on-site inspections can now be done away with.

The new DEHNpatch thus also fits perfectly into monitoring systems for the arresters of measuring and control systems of the BLITZDUCTORconnect product range and draws on the monitoring mechanisms of the existing system. This means quick and simple remote signalling of the surge protection system is possible.

The DEHNpatch surge arrester boasts the "GHMT-approved" seal of quality. The Gesellschaft für Hochfrequenzmesstechnik (Company for High-Frequency Measuring Technology, or GHMT for short) thus affirms, by means of an independent third-party test, that the arrester has met the normative requirements and standards for high-performance networks of data technology and therefore has the designated, diverse fields of application.

You can find more information about DEHNguard on our [website](#).

Press contact:

Petra Raab

Head of External Communications

Tel.: +49 9181 906 1426

Mobile: +49 151 151 381 53

petra.raab@dehn.de



DEHNpatch – Surge protection for Ethernet infrastructure, photo: DEHN SE

About DEHN SE

DEHN is a leading, international family-owned electrical engineering company based in Neumarkt, Germany. With its comprehensive portfolio, DEHN addresses the megatrends of our time - from e-mobility and renewables to the protection of critical infrastructure. The company offers solutions and services for lightning and surge protection as well as safety equipment – fields in which, with more than 1,100 patents, DEHN is a leading innovator. The company's products protect people and buildings, systems and telecommunications technology, process industry, as well as photovoltaic systems and wind turbines.

With more than 2,200 employees worldwide, DEHNgroup achieved revenue of around 385 million euros in the fiscal year 2021/2022. Alongside more than 110 years of experience, this constant growth is based on the highest quality standards and a consistent orientation towards customers and markets worldwide.