operate side by side. In hybrid applications where process and automation networks complement each other, the faster DP can act as a backbone network, especially when high speeds are required. DP has a transmission rate of 31.25 Kbit/s, but thanks to its protocol, it is also used in process control systems for automation applications. PA has a data rate of 12 Mbit/s and is used to operate sensors and actuators via a centralised controller in automation applications. The cable runs at 9.6 Kbit/s and 12 Mbit/s, and LAPP offers a SWA version for outdoor and direct burial applications.

PROFIBUS DP (Process Automation) is designed for fixed outdoor use or for direct burial, our PROFIBUS armoured versions for outdoor applications and direct burial. Just add water.

PROFIBUS PA (Process Automation) is used to connect operational sensors and actuators via a centralised controller, as required by international guidelines. The cable runs at speeds between 9.6 Kbit/s and 12 Mbit/s and LAPP after a SWA version for outdoor and direct burial applications.

PROFIBUS PA has been used in many countries for automation applications, the fast data transfer makes PROFIBUS PA cables highly versatile. PROFIBUS can also be used in a rack and stack arrangement, the faster PROFIBUS can act as a backbone network, especially in large applications where process automation and automation networks operate side by side.

PROFIBUS PA cables come in two variations: the commonly used PROFIBUS DP (Decentralised Peripherals) and the application specific PROFIBUS PA (Process Automation) version for outdoor and direct burial applications. The cable runs at speeds between 9.6 Kbit/s and 12 Mbit/s and LAPP offers a SWA version for outdoor and direct burial applications.

PROFIBUS PA cables are designed to ensure high data rates and robustness in harsh environments, making them ideal for use in industrial applications. The cable is armoured to provide protection against physical damage, and its flexibility allows easy implementation in various settings. It is available in POF (Polymer Optical Fibre) and PCF (Plastic Cladded Fibre) options, offering high performance and reliability. The cable can be used in various applications, including the integration of sensors and actuators in automation systems. Its robust design and reliable performance make it an essential component in modern industrial setups.

PROFIBUS PA cables are designed to meet the requirements of automated systems in production plants. They are available in M8 or M12 cord-sets with a range of plugs and sockets to facilitate easy connection. This flexibility allows for flexibility in installation and maintenance, enhancing the effectiveness and efficiency of industrial operations. The cables are engineered to ensure long life and minimal maintenance, reducing downtime and increasing productivity.

PROFIBUS PA cables are also suitable for applications in the field of energy management. They offer a reliable solution for the transmission of data and power, enabling efficient control and monitoring of power systems. The cables are designed to withstand harsh environmental conditions, ensuring reliability and longevity in applications such as submersible pumps, float switches, and temporary power applications.

PROFIBUS PA cables are used in a wide range of industries, from manufacturing to agriculture. Their versatility and robust design make them an ideal choice for applications requiring data transmission and power supply. With its ability to handle high speeds and robust performance, PROFIBUS PA cables are a key component in modern industrial automation systems, offering a reliable and efficient solution for various application requirements.
We can also provide on-site advice on specific applications.

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