

M 12 Cat 6A connector system delivers desirable signal integrity up to 10 Gbps



Molex Incorporated introduced the Brad Micro-Change M12 Cat6A connector system designed for vision systems and other high-speed data transfer applications in harsh environments. Conforming to TIA and ISO/IEC Cat 6A specifications for high-speed Ethernet signal integrity up to 10 Gbps, the high-pin-density connector system features an x-coding cross-shielding design (conforms to IEC 61076-2-109) for desirable performance and transmission reliability in frequency bandwidths up to 500 MHz. The compact, sealed Micro-Change connector system features a complete 360-degree shielded design using 4-twisted pair construction. When mated, the shielding crosses of the connector and receptacle overlap to achieve optimal signal performance without system noise interference. X-coding alignment enables blind mating and recessed male pins prevent pin damage during mating. The connector system mounts using a standard M12 threaded coupling nut. The 26 AWG cable assemblies and corrosion resistant hardware are asserted to assure optimal reliability in demanding environments. Rugged construction and IP67-rated external and internal o-ring seals protect against dust and water.

Designed for video surveillance cameras, telematics, GPS/cameras in automotive and commercial vehicles, and automated control elements, Brad Micro-Change connectors enable fast and simple replacement of 12 to 18mm sensors, encoders, switches and other I/O devices found in industrial equipment. Available in 2- through 5-, 8- and 12-pole IEC compliant configurations, single- and dual-keyway designs, with straight and 90 degree plugs, Micro-Change connectors are equally suitable for Class 2 applications. The Micro-Change sealed connection delivers superior EMI/RFI shielding in high-vibration systems, including petrochemical, factory-automation and commercial-vehicle

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equipment. Receptacles are tooled for both network connectivity in Ethernet and Controller-Area Network (CAN bus) protocols, in addition to passive applications such as discreet and analog sensor applications.

Molex Incorporated

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