

New 3M Mini-Clamp Connector Product Family Introduced

Factory automation products requiring reliable electrical connections between sensors, drives and control units can save space using a new family of products from the 3M Electronic Solutions Division. The 3M Mini-Clamp products are 2mm pitch products, 3M Link products are 0.100 inch pitch, and both are attached to wires using 3M IDC (insulation displacement connector) technology. Discrete wire mounting can be performed with only a pair of pliers.

3M Mini-Clamp connectors are available in three- and four-pin configurations as pin or socket plugs for cable mounting; and as socket plugs for pc board mountings. Other connector configurations include 12- and 16-pin socket plugs for board mounting.

In cable-mounted arrangements, the 3M Mini-Clamp connectors are available to accommodate wire gauges from AWG 20 to AWG 26 with insulation diameters from 1.0 to 2.0 mm. 3M Mini-Clamp connectors are color-coded in clear, yellow, red, blue and green to help enable the correct wire gauge application and minimize wiring errors. For board mounting, the solderable straight (or vertical) socket plugs are available as single plugs with 3 or 4 pins or as 4 x 3-pin or 4 x 4-pin blocks.

Connections made using the 3M Mini-Clamp and 3M Link connector products are visible through the cap. The connectors have integrated guiding and fixing devices, which help provide reliable positioning of individual wires within the connector. The IDC technology used eliminates cable preparation such as stripping and tinning as well as the separate operation of loading the terminals after wire attachment. Polarizing tabs promote correct plugging and latching devices provide a safe connection even under severe conditions such as mechanical stress and vibration in industrial environments.

About 3M Electronic Solutions Division

The 3M Electronic Solutions Division, headquartered in Austin, Texas, has numerous technologies and provides a wide range of products for the electronics market. It provides products and solutions to meet the electronic industry's challenges of protecting sensitive components and precisely delivering them to the assembly point, as well as flexible and multilayer microinterconnect packaging solutions; embedded capacitance laminate materials, copper and fiber interconnect systems; cables and cable assemblies; static control products, and 3M Textool test and burn-in sockets.

The business is part of 3M Company. Serving customers in more than 200 countries around the world, the company's 67,000 people use their expertise, technologies and global strength to lead in major markets including consumer and office; display and graphics; electronics and telecommunications; safety, security and protection services; health care; industrial and transportation. For more information, including the latest product and technology news, visit www.3M.com.

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