

# KEYWAY CHART

## M12 & 1/2-20"

# CONNECTORS

CIRCULAR M12 AND 1/2-20" CORDSETS AND RECEPTACLES ARE AVAILABLE IN A VARIETY OF PIN CONFIGURATIONS AND WIRE COLOR CODES. IN ADDITION TO A VARIETY OF PIN OUT AND COLOR CODE DIFFERENCES, EACH OF THESE CONNECTORS ALSO HAS DISTINCT KEYWAYS. BELOW IS A CHART DISPLAYING THESE KEYWAYS.

### MICRO-DC



A-CODE

The Micro-DC (MDC) series, also known as micro-change or M12, is one of the most widely used industrial quick disconnects in the industrial market. Despite the name, these euro-style connectors can be used in both AC or DC applications. The uses of these applications in industrial automation are limitless, but they are commonly used in factory automation for items such as sensors, actuators, motors, switches, safety light curtains and mats, and interlock switches to name a few.

### EURO-AC



B-CODE

The EURO-AC(MEC) series has a reversed single keyway which is known as B-code. This allows two unique M12 connectors to be mounted on the same panel without fear of incorrectly coupling connectors to equipment with varying voltage and amperages.

### MICRO-AC



C-CODE

The MICRO-AC(MAC) series uses a 1/2-20 mating thread and has a first make last break extended ground pin. The use of a double keyway (C-Code) prevents it from accidentally plugging into one of the other similarly sized connectors.

### ETHERNET



D-CODE

M12 Ethernet series(MDE45) utilizes 4 wire (D-Code) connectors with 2 pair Cat 5e cables or M12 8 wire (A-Code) connectors with 4 pair Cat 5e cable. The MDE45 is specifically used in Industrial Ethernet applications, and has teal cable using twisted pairs of wires inside.