

INTRODUCING M12 D-CODE CORDSETS

M12 D-CODE TO RJ45 CORDSETS

- Unit remains protected & fully operational in most industrial applications
- Secured signal connections and data transmission

TE Connectivity's M12 Ethernet Cat5e communication package is now being extended by introducing the female configurations as well as the D-code to RJ45 cordsets. The extended 4-pole D-coded cordsets comply with Profinet, EtherCAT and Ethernet/IP protocols offering multiple options that are suitable for drag chain applications or torsional stress, depending on customer performance requirements.

Our Cat5e cable jackets vary between PVC, PUR and TPE which offer a unique solution toward satisfying the stringent needs of motion systems supporting both flexing and stationary industrial Ethernet requirements. The new M12 D-coded cordsets, which are UL certified and have an IP67 rating for dust-tight and waterproof applications ensure efficient, high-quality and reliable connectivity and high integrity signal transmission.

FEATURES

- Enclosure rating of IP67
- 360 degrees shielding
- Jacketing is in halogen-free flame-retardant thermoplastic polyurethane (PUR)
- PVC provides a competitive and economic solution for occasional movement or vibration, but PUR and TPE is more suited to more demanding applications in for example, drag chains and harsh environments where operational reliability is crucial

BENEFITS

- Ensure the application of cable assembly in flexible installation environment
- Ensure the application of cable assembly in torsion application environment
- Oil-resistant for in oil industrial applications
- Application of UV-resistant environment

APPLICATIONS

- Industrial communications
- Process control systems
- Industrial machinery
- Robotics

ELECTRICAL

- **Voltage proof:** 1400V
- **Insulation resistance:** 100MΩ min
- 30° C max under loaded rating current
- 2pair is for D-Code CAT5E performance, which is based on channel level



MATERIALS

- PA66 for M12 connector housing
- TPU or PVC material for cable assembly over-molding depending cable jacket type
- PP for inner over-molding

MECHANICAL

- **Waterproof:** IP67 for D code M12 cable side: IP20 requirement for RJ45 male side
- **Mating / Un-mating force:** 15N/15N max.
- Sinusoidal vibration meet IEC60512, test 6d
- Mechanical shock meet EIA364-27

STANDARDS

- UL1683
- UL1863

LEARN MORE

- [M12 D-Code cordsets Product Page](#)
- [M12 D-Code cordsets Product Flyer](#)
- [M12 D-Code cordsets Parts List](#)