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INTRODUCING

# SINGLE PAIR ETHERNET (SPE) M8 HYBRID BOARD RECEPTACLE IP67 AND SINGLE PAIR ETHERNET SPE) M8 HYBRID CORDSET IP67



- **Reduce number of connectors needed**
- **Enables IoT in small package**

Single Pair Ethernet (SPE) allows for a single open, scalable Ethernet-based network within the automation system. It standardizes the transmission of Ethernet over only one pair of copper wires. In addition to data transmission via SPE, the M8 Hybrid solution also provides power transmission over a separate wire pair. Data transmission is possible up to 1 Gb/s, and power supply up to 400W. At 10 Mb/s speed transmission distances up to 1,000 meters are possible.

## APPLICATIONS

- Sensor/Actuator network
- Robotics
- Machinery
- Industrial automation
- Security and surveillance cameras

## KEY FEATURE

- Data and power in one cable
- 1 Gb/s communication
- Higher power levels are possible compared to PoDL
- IEC 6317-6 standard supported

## ELECTRICAL

- Current over signal pair up to 4A (22 AWG)
- Current over power pair up to 8A (18 AWG)
- SPE 1 Gbps / 40m per IEEE 802.3bp 1000BASE-T1
- SPE 10Mb/s / 1000m per IEEE 802.3cg 10BASE-T1

## LEARN MORE

- M8 Hybrid Board Receptacle IP67, M8 Hybrid Cordset IP67 landing page
- M8 Hybrid Board Receptacle IP67, M8 Hybrid Cordset IP67 parts list
- M8 Hybrid Board Receptacle IP67, M8 Hybrid Cordset IP67 presentation
- M8 Hybrid Board Receptacle IP67, M8 Hybrid Cordset IP67 flyer
- M8 Hybrid Board Receptacle IP67, M8 Hybrid Cordset IP67 video

## BENEFITS

- Reduce number of connectors needed
- Enables IoT in small package
- Higher power levels possible
- Galvanic separation power and data
- More noise allowed on power lines
- No special circuitry required
- More flexibility for powering devices

## MECHANICAL

- Separate data and power contacts

## MATERIALS

- Coupling nuts: nickel plated brass
- Contact material: phosphor bronze
- Plastics: UL94-V0 rated, black
- Free of halogen, silicone, teflon and release agents

## STANDARDS

- IEC 63171-6
- RoHS, China-RoHS
- REACH

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