



SPE T1 INDUSTRIAL CONNECTORS IP20

Instead of transmitting Ethernet over two pairs (for Fast Ethernet (100Mb/s)) or four pairs (for Gigabit Ethernet), Single Pair Ethernet (SPE) specifies Ethernet transmission over only one pair of copper wires.

PoDL (Power over Data Line) enables powering the remote device via the same pair of wires.

BENEFITS

- Small diameter, more flexible and less heavy cables enable the application to move faster and use less energy
- Small connector formfactor allows miniaturization in next generation applications
- Easy and quick cable connector assembly reduces installation cost
- Reflow solderable SPE board connector supports latest Industrial assembly processes
- Cable connector uses high reliable crimp contacts, reducing downtime

KEY FEATURE

- One twisted pair cable
- Up to 1 Gb/s communication
- IEC63171-6 standardized Interface

SPE T1 Industrial connectors IP20

APPLICATIONS

- Sensors
- Actuators
- Switches
- Machinery
- Robotics

ELECTRICAL

- 360° shielding
- PoDL support
- Operational voltage 60 V DC
- Dielectric withstanding voltage
Contact-contact 1kV DC
- Dielectric withstanding voltage
Contact-shield 1.5kV AC RMS

MECHANICAL

- THR solder (board) and crimp contact (cable)
- Operating temperature range: -40° C - +85° C
- Conductor cross section: AWG 26-22
- Wire outer diameter: 4.5 - 5.5 mm

MATERIALS

- **Cable connector:**
 - **Housing, Nut, Insulation body:** PA, black
 - **Shielding:** Stainless steel
- **PCB connector**

STANDARDS

- IEC 63171-6
- UL1977

PART NUMBER LIST

| Part Number | Part Description |
|---------------------------|--|
| 2364150-1 | SPE T1 Industrial Cable Plug IP20 |
| 2364151-1 | SPE T1 Industrial RA Board Connector Female IP20 |
| 2368258-1 | SPE T1 Male Crimp Contact AWG 26 |
| 2368258-2 | SPE T1 Male Crimp Contact AWG 22 |
| 2368260-1 | SPE T1 Manual Crimp tool AWG 28 to 26 |
| 2368261-1 | SPE T1 Manual Crimp tool AWG 24 to 22 |

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