



Industrial Single Pair Ethernet Connector and Cable Assembly Series

Compact, Lightweight, Cost-Effective Ethernet transmission



INDUSTRIAL
PARTNER
NETWORK[®]



ATTEND's T1 Industrial SPE connector and cable assembly series delivers next-generation Single Pair Ethernet (SPE) technology for modern industrial applications. Featuring advanced SPE architecture, these high-performance solutions provide compact, lightweight, and cost-effective Ethernet transmission with reliable signal integrity.

Compliant with IEEE 802.3 SPE T1 and IEC 63171-2, -5, and -6 standards, ATTEND's T1 Industrial solutions ensure broad interoperability across industrial devices, cabling systems, and network infrastructures while supporting data rates from 10 Mbps up to 1 Gbps for Industrial Automation, Robotics, Machine Vision, Smart Factory, and IIoT applications.

Applications



Industrial Automation



Smart Building



Industrial Sensors & Actuators



Railway & Transportation Systems



Robotics / AGV / AMR Systems



Machine Vision



Feature



Industrial SPE Connectors

- Integrates data and power in one interface
- Fully compliant with IEC 63171-2, 5, 6 specifications
- Supports IEEE 802.3 SPE T1 communication
- Supports PoDL with power delivery up to 50W
- Up to 4A over signal pair and 8A over power pair (4 pin hybrid)
- IP67(M8 4 PIN Hybrid) /IP68 (M8 2 PIN) rated when mated with cable assemblies.
- Operating temperature range: -40°C to +85°C



M8 SPE Cable Assemblies

- Fully compliant with IEC 63171-2 (2 PIN), IEC 63171-5 (M8 2 PIN), 6 (M8 4 PIN Hybrid) specifications
- Supports PoDL with power delivery up to 50W (2 PIN)
- SPE data pair for data transmission purposes (AWG 26) combined with a separate power pair (AWG 18) for powering the remote equipment(4PIN Hybrid)
- IP67(M8 4PIN Hybrid)/IP68(M8 2PIN) rated when mated with compatible connectors
- Supports data transmission frequencies up to 600 MHz
- Can be customized for different applications to meet specific customer requirements

Items

2 Pin Series			
 229A-R202 SPE IP20 Jack, 2PIN R/A DIP	 229B-02MS01 M8 SPE Two Piece Insert, 2Pin Male Straight SMD	 229-0003 M8 SPE Two Piece Housing, Male, Rear Fastened	 229-0002 M8 SPE Two Piece Housing, Male, Front Fastened
 SPE-2R2R-10001 M8 SPE 2PIN Female to Female CABLE, L=1M		 SPE-1P1P-10003 SPE 2PIN Female to Female CABLE, L=1M	
4 Pin Hybrid Series			
 229B-04FS04 M8 SPE 4PIN Female , Straight, IP67 (mated)	 229B-04FS01 M8 SPE 4PIN Female , Straight, w/GND, IP67 (mated)	 229B-04FR01 M8 SPE 4 PIN Female , R/A, w/GND, IP67 (mated)	 SPE-1P1P-12002 M8 SPE Hybrid Male to Male CABLE, L=1.2M

