Industrial M8 Single Pair Ethernet Field Terminable Plug



SPECIFICATIONS

Industrial M8 Single Pair Ethernet Field Terminable Plug shall be applicable for use in manufacturing as well as other harsh environments. The M8 plug shall meet or exceed the requirements of ANSI/TIA-568.7 draft and ISO 11801-3 and with ODVA EtherNet/IP. The plug shall be constructed of a zinc die cast housing with 360° shielding. To meet more demanding industrial applications, the plug shall incorporate an ingress protection rating of IP65/IP67 and offer an extended temperature range. The plug shall be easily field attachable without any special tools and shall be capable of termination to a single pair stranded twisted pair copper cable - up to ten re-terminations with the same gauge cable.



TECHNICAL INFORMATION

Channel and component performance:	Meets channel and component requirements ANSI/TIA-568.7 draft and ISO 11801-3
Electrical/mechanical performance:	Shall meet ODVA Ethernet/IP^, PROFINET, and CC-Link performance requirements
IEC compliance:	Plug meets IEC 61076-2-109, IEC 60532-4, and IEC 60529 specifications
Environmental protection:	Industrial connector protects and seals connections against dust and water immersion to IP65/IP67 per ANSI/IEC 60529-2004; vibration, temperature and chemical resistant; shielded version further enhances electromagnetic performance
UL compliance:	Compliant to UL 1863
RoHS compliancy status:	Compliant
PoDL compliance:	Meets IEEE 802.3bu for PoDL applications
Temperature rating:	-13°F to 185°F (-25°C to 85°C) operating and storage
Wiring scheme:	4-position
Conductor termination range:	AWG 18 Upper limit
Conductor dimension range:	7/0.4 ± 0.02mm
Cable jacket diameter range:	6.80 ± 0.20mm

KEY FEATURES AND BENEFITS

Zinc die cast housing with 360° shielding:	Enables secure data transmission in high noise (EMI/RFI) environments for optimal performance
Field attachable:	Can be terminated in seconds without any special tools and is reterminable up to ten times with the same gauge cable
IP/NEMA/UL rated connection:	Withstands light wash down and temporary submerged conditions without loss of performance for reliability in harsh factory environments
Extended temperature range:	Provides durable connection in extreme conditions for increased system reliability

APPLICATIONS

Single Pair Ethernet M8 Field Terminable Plug provides reliability and high performance as an integral component of the end-to-end solution for industrial SP1-1000 communication systems. This communications system includes copper cabling and connectivity for IP20 and harsh IP67 applications and enables edge devices to be efficiently added to the ethernet network which was formerly limited to 2- and 4-pair cabling systems.

This system allows for Power over Data Line (PoDL) power delivery and up to 10 Mb/s bandwidth for up to 1 km, and will drive ethernet convergence in the following applications:

- Process Automation Sensors and Valves
- Logistics Automation VFDs and Conveyors
- Upgrades from analog to intelligent Sensors
- Building Automation upgrades to BACnet/IP

M8 A-Code Single Pair Ethernet

Field Terminable Plug: SP-18SA42BL

Related Products

S/FTP

Stranded (18 AWG):

SP-SFCS1**-CEG

IEC 63171-1 Single Pair

Ethernet Connector:

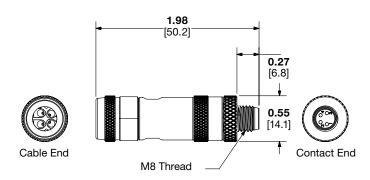
SP-1LSA22BL

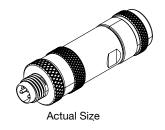
**Colors: IG (International Gray) or BL (Black)

Contact Customer Service for additional color options.

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ENGINEERING DRAWINGS





Dimensions are in inches. [Dimensions in brackets are metric].

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