

Single Pair Ethernet SPE Connector



the basis for Industry 4.0
and the Industrial Internet
of Things (IIoT)



Unrivaled InterConnects for Harsh Environments

About ALTW

**3**

Production Sites
(Taiwan, China, Mexico)

**30+**

Market Applications

**90,000+**

Products

Since 1993, Amphenol LTW Technology “ALTW” lives and breathes to create, innovate, design and produce “***unrivaled interconnects for harsh environments***”. With over 300 worldwide patents, not only does ALTW offer the broadest and widest range of rugged interconnects in the industry but also customization with the mission of “Customer Satisfaction First”. Undoubtedly, ALTW is the leader in rugged interconnects, highly recognized for its uncompromising quality, short lead time, fast and tailored service and its very competitive pricing.

Regardless of the challenging environments that your products will be subject to; there is a very good chance that you will find what you are looking for with ALTW.

Unrivaled InterConnects for Harsh Environments

Single Pair Ethernet Connector

Amphenol LTW's SPE mechanical interfaces are all designed and made according to IEEE 802.3bp standard offering three mechanical mating interfaces all IP67 up and above giving you the freedom to choose the interconnects suitable to your needs and requirements for industrial and ruggedized applications.

- Multiple mechanical Interfaces IP67 and above for industrial and ruggedized applications.
- Freedom of choices per your needs and requirements.
- Budgets, pay for what you need.
- Providing Low Power & Simply Networking On End-point Sensors.
- Cost-Effective, smaller & lighter than standard 4 pairs Ethernet cable.
- Compatible 802.3 10/100/1000 Base-T1 data rates as existing technologies.
- Receptacle IP67 UNMATED waterproof, also available in double ended and field installable.
- Vibration resistance 20g (10 ~ 2,000 Hz).
- Supports PoDL (Power Over Data Lines).



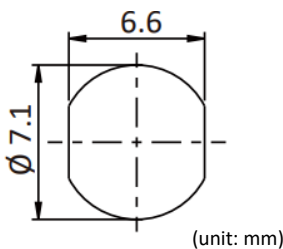
Video



Unrivalled InterConnects for Harsh Environments

Single Pair Ethernet

M5 SPE



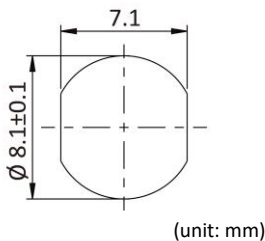
SPECIFICATIONS

- ✓ Operating Voltage: 60V
- ✓ Current Rating: 1A
- ✓ Operating Temperature:
 - 20°C ~ +80°C (overmolded with cable)
 - 40°C ~ +105°C (receptacle)
- ✓ Salt Spray: 48h
- ✓ Durability: 1000 cycles
- ✓ Mating style: screw thread
- ✓ Waterproof rating: IP67
- ✓ Wire AWG: 26 AWG
- ✓ Cable O.D.: Φ3.8mm
- ✓ Compliance : IEC61156-12

Part Number	Connector Type	Connector Gender	Contact Gender	BackShell
M5-02BMMM-SL7CXX	Overmolded	Male	Male	Straight
M5-02PFFP-SF7001	Receptacle	Female	Female	Hexagonal

XX (cable length): (01) 1M, (02) 2M, (03) 3M, (04) 4M, (05) 5M, (10) 10M, (15) 15M

M8 SPE



SPECIFICATIONS

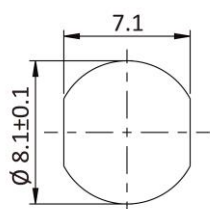
- ✓ Operating Voltage: 50V AC / 60V DC
- ✓ Current Rating: 3A
- ✓ Operating Temperature:
 - 20°C ~ +80°C (overmolded with cable)
- ✓ Salt Spray: 48h
- ✓ Durability: 1000 cycles
- ✓ Mating style: screw thread
- ✓ Waterproof rating: IP67
- ✓ Wire AWG: 26 AWG
- ✓ Cable O.D.: Φ3.8mm
- ✓ Compliance : IEC61156-12

Part Number	Connector Type	Connector Gender	Contact Gender	BackShell
M8-02BFFM-SL7CXX	Overmolded	Female	Female	Straight
M8-02BMMM-SL7CXX	Overmolded	Male	Male	Straight

XX (cable length): (01) 1M, (02) 2M, (03) 3M, (04) 4M, (05) 5M, (10) 10M, (15) 15M

Single Pair Ethernet

Guided M8 SPE



(unit: mm)

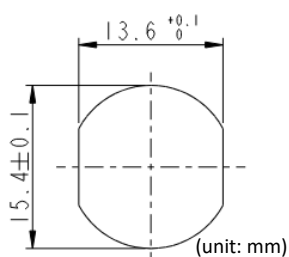
SPECIFICATIONS

- ✓ Operating Voltage: 50V AC / 60V DC
- ✓ Current Rating: 3A
- ✓ Operating Temperature: -20°C ~ +80°C (overmolded with cable)
- ✓ Salt Spray: 48h
- ✓ Durability: 1000 cycles
- ✓ Mating style: screw thread
- ✓ Waterproof rating: IP67
- ✓ Wire AWG: 26 AWG
- ✓ Cable O.D.: Φ3.8mm
- ✓ Compliance : IEC61156-12

Part Number	Connector Type	Connector Gender	Contact Gender	BackShell
M8A-02BFFM-SL7CXX	Overmolded	Female	Female	Straight
M8A-02BMMM-SL7CXX	Overmolded	Male	Male	Straight

XX (cable length): (01) 1M, (02) 2M, (03) 3M, (04) 4M, (05) 5M, (10) 10M, (15) 15M

M12 SPE



(unit: mm)

SPECIFICATIONS

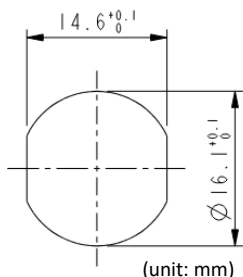
- ✓ Operating Voltage: 250V
- ✓ Current Rating: 4A
- ✓ Operating Temperature: -20°C ~ +80°C (overmolded with cable)
- ✓ Salt Spray: 48h
- ✓ Durability: 1000 cycles
- ✓ Mating style: screw thread
- ✓ Waterproof rating: IP68
- ✓ Wire AWG: 26 AWG
- ✓ Cable O.D.: Φ3.8mm
- ✓ Compliance : IEC61156-12
- ✓ Certifications: UL2238

Part Number	Connector Type	Connector Gender	Contact Gender	BackShell
M12A-02BFFM-SL8CXX	Overmolded	Female	Female	Straight
M12A-02BMMM-SL8CXX	Overmolded	Male	Male	Straight
M12A-02PFFP-SF8001	Receptacle	Female	Female	Hexagonal
M12A-02PMMP-SF8001	Receptacle	Male	Male	Hexagonal
M12A-02PMMS-SF8001	Receptacle	Male	Male	Hexagonal

XX (cable length): (01) 1M, (02) 2M, (03) 3M, (04) 4M, (05) 5M, (10) 10M, (15) 15M

Single Pair Ethernet

FLOS SPE



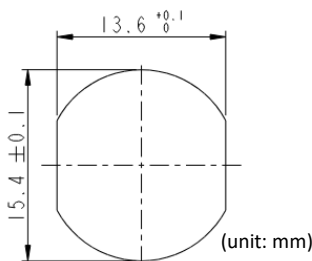
SPECIFICATIONS

- ✓ Operating Voltage: 60V
- ✓ Current Rating: 2A
- ✓ Operating Temperature:
 - 20°C ~ +80°C (overmolded with cable)
 - 40°C ~ +125°C (receptacle)
- ✓ Salt Spray: 144h
- ✓ Durability: 5000 cycles
- ✓ Mating style: push pull
- ✓ Waterproof rating:
 - IP67 (overmolded with cable)
 - IP68 (receptacle)
- ✓ Wire AWG: 26 AWG
- ✓ Cable O.D.: Φ3.8mm

Part Number	Connector Type	Connector Gender	Contact Gender	BackShell
SLKC-S02FMMM-GCP-CXX	Overmolded	Male	Male	Straight
SLKC-S02EEFP-GCP-001	Receptacle	Female	Female	Circular

XX (cable length): (01) 1M, (02) 2M, (03) 3M, (04) 4M, (05) 5M, (10) 10M, (15) 15M

X-Lok SPE



SPECIFICATIONS

- ✓ Operating Voltage: 300V
- ✓ Current Rating: 5A
- ✓ Operating Temperature:
 - 20°C ~ +85°C (overmolded with cable)
 - 40°C ~ +105°C (receptacle)
- ✓ Salt Spray: 48h
- ✓ Durability: 1000 cycles
- ✓ Mating style: push lock
- ✓ Waterproof rating: IP68
- ✓ Wire AWG: 26 AWG
- ✓ Cable O.D.: Φ3.8mm
- ✓ Compliance : IEC61156-12

Part Number	Material	Connector Type	Connector Gender	Contact Gender	BackShell
AD-02BFFM-QL8PXX	Plastic	Overmolded	Female	Female	Straight
AD-02BMMM-QL8PXX	Plastic	Overmolded	Male	Male	Straight
ASD-02BFFM-QL8PXX	Metal	Overmolded	Female	Female	Straight
ASD-02PMMP-QC8001	Metal	Receptacle	Male	Male	Circular

XX (cable length): (01) 1M, (02) 2M, (03) 3M, (04) 4M, (05) 5M, (10) 10M, (15) 15M



Amphenol LTW

Contact Us

Luc Kan | Sales & Marketing | luc@ltw-tech.com

Customer Service | sales@ltw-tech.com

Follow Us



Unrivaled InterConnects for Harsh Environments