

# Amphenol<sup>®</sup>



## Lighting





At Amphenol we understand Lighting has unique interconnect needs. Amphenol provides high performance connectors, wire and cable, fiber-optic connectors and management equipment, custom assemblies and interconnection products for professional lighting markets. We know lighting has more product applications than just illumination. Cabling, dimmers, lighting instruments, and controllers are all part of the ecosystem. Amphenol offers the widest selection of robust interconnect products that can complement all industrial lighting needs.

Amphenol's products withstand:

- Vibration
- Salt Spray
- Humidity
- Dust
- EMI/EMC
- Temperature Extremes

## Amphenol

Since 1932 Amphenol has been the interconnect technology provider of choice to industry leading companies throughout the world. With a broad and diverse product portfolio, Amphenol is able to develop the right solutions for our customers across the diverse segments of the rapidly expanding electronics market.

With dedicated employees working at 85+ facilities in more than 30 countries, Amphenol has the unique advantage of having both diversified global reach while still being a focused organization. Our focus comes from our entrepreneurial management team dedicated to specific markets and regions.

Whether you need power connectors, signal connectors, backplane connectors, rugged data cables and switches, complete cable assemblies, fiber optic connectors and assemblies, or system attachments, we have the right solution for your Lighting application.

We also know you need a partner with a global footprint of service and support. Amphenol has over 85 facilities in 30 countries and due to our culture of cost control and operating discipline we are able to prosper in all economic climates. Amphenol's background in producing high reliability connectors for the harshest environments on Earth and in Space gives us the unique experience needed to produce extremely reliable, cost effective, industry standard products for the lighting industry.

If you have the need for a customized solution our engineers will work with yours to produce the right customized interconnects for your application. Amphenol connectors are approved by UL/CSA, VDE and other international standards.



## Power & Signal Solutions

### FLO Series



FLO Series Push-Pull Connectors are designed to offer a reliable connection for data, signal, and power transmissions in indoor and outdoor environments. These push-pull connectors feature a push-pull mechanism, corrosion-resistant coating, 360° shielding, IP50/ IPX7 rating, and UL94V-0 flammability rating. The FLO connectors operate at 1.5A to 35A current rating, 600V to 2400V working voltage, and -40°C to 125°C temperature range. Typical applications include HD video cameras, non-invasive medical electronic equipment, military, testing, and measurement equipment.

#### Features and Benefits

- Push-pull mechanism
- Corrosion resistant
- Fast and secure
- 360° shielding
- IP50 and IPX7 rating
- UL94V-0 flammability rating

### X-Lok



X-Lok Series connectors are presented in various sizes for power, signal and hybrid applications for fast, simple and reliable connections. Featuring a push lock mechanism for blind mating with audible and tactile feedback. The X-Lok Series provides less mating failure and quicker mating than traditional threaded solutions.

#### Features and Benefits

- Quick and easy installation
- Push lock mechanism
- Ingress Protection (IP68)
- Receptacle, overmolded and field installable (FI) in solder, crimp or screw-in termination
- Power, signal and hybrid applications up to 20A
- UL2238, UL1977 certified
- Available in Mini, Standard, Middle and Large sizes
- Customizable (i.e colors, length, termination)

### FICX Series



Amphenol introduces the FICX series which is compliant with UL 2238 standard to extend industrial high demand for cable assemblies for control and signal distribution.

#### Features and Benefits

- Reliable connection with simple screw termination
- High waterproof capacity (IP68, 50m/24 hours)
- UL2238 approved, Uv resistant
- Suitable for wide range of cable OD with color seals
- Variety of joiner types: in-line and T-shaped from 2 to 5PIN

## Power & Signal Solutions

### eco | mate® Aquarius™ Waterproof Connectors



Waterproof dynamic plastic connectors are ideal for harsh environments (IP67/69K in mated condition). Power and signal contacts can be combined in a variety of inserts, providing a highly flexible interconnect solution that reduces system complexity and minimizes installation costs. Quick and reliable mating with tactile feedback assures proper mating.

#### Features and Benefits

- Low Profile Plastic Housing
- Bayonet Rapid Coupling System
- 1/3 Turn w Audible/Tactile "Click"
- Sizes 8, 10, 12, 14, 16 and 18
- 27 Insert arrangements
- Wide Ranging Contact System
- Power, Mixed Power & Signal Layouts
- UL94-VO
- Salt Spray = 500 Hours
- Design based on MIL-DTL-26482
- UL ETCB2 & UL ETCB8
- RoHS Compliant

### eco | mate®



In design and conception the Ecomate® program meets the high requirements for applications in industrial technology. Easy operation, reduced dimensions and a more robust design are only a few of the features of the series. The connector's main area of application is in the fields of plant construction and machine building. The connector is used for measuring and controlling applications as well as for power supply technology. The series is comprised of a large selection of housings and shapes and offers models with screw, solder and crimp termination.

#### Features and Benefits

- Quick and easy assembly
- Screwed cable gland with clamping ring
- Strain relief and mounted gasket all in one component
- Cable housing, straight or angled, for the cable diameter 6 - 12.5 mm
- Robust thread for the screwed cable gland
- Ergonomically designed product range for safe handling
- Pre-loaded ground contact
- Fastening for the protective caps on the housing of the receptacles

### HS-Lok



HS-Lok Push-Lock Connectors provide IP68 waterproof protection and are rated to UL-F1 UV resistance, making them ideal for indoor or outdoor wet locations. HS-Lok features audible feedback and guided key design, ensuring error-proof and easy assembly for blind mating.

This connector series offers a quick and safe release with just a small pull force. HS-Lok is UL2238 and UL50e compliant and rated up to 5A for low voltage power and data transmissions. HS-Lok includes two to six contact configurations and Hybrid (Power+Data) to suit users' variable requirements.

#### Features and Benefits

- Push lock design
- High waterproof capacity (IP68, 1m/24 hours)
- High tensile strength
- Audible feedback and guided key for blind mating
- Quick release mechanism
- UL 94V-0 flammability rating
- UV sun resistance

## Power & Signal Solutions

### M12/M8 Shielded Series



Amphenol extends our M series range with shielded overmolding options for M12 and M8/G8 versions. It is an ideal solution for resistance to electro-interference (EMI) as it transmits signals and maintains data quality. M12 shielded cable connectors are available in A, B and D code. For space restricted applications, M8 shielded cable connectors are also available.

#### Features and Benefits

- Meets IEC & UL Standards
- High waterproof capacity (IP68, 1m/24 hours)
- Anti-corrosion protection
- Available in M12 A, B, D code and M8 size
- Offered In both PVC and PU cable jackets

## Power

### HB Series



The compact design of the HB Series is suitable for lighting controllers. Featuring push-in spring connecting technology to provide excellent anti-vibration properties. A big lever design brings convenience for customers' wiring. Stackable structure can provide a 2 - 24 pole solution to meet customers' varying requirements.

#### Features and Benefits

- Push-in spring connecting technology
- Big lever design for easy operation
- Double or single wire design provides flexible choice for customer application
- Pitch from 3.81mm to 10.0mm
- Rated Voltage / Current: 300V / 10A
- Wire Range: AWG 14 - 20
- Safety Certifications: cULus, VDE

### HC Series



The HC Series has an extremely small pitch of 2.5mm, which is a great solution for narrow PCB areas involving lighting controllers. Push-in spring connecting technology and lever structure ensure reliable and convenient wiring.

#### Features and Benefits

- Push-in spring connecting technology
- Lever design
- Pitch from 2.5mm to 7.0mm
- Rated Voltage / Current: 300V / 2A to 300V / 6A
- Wire Range: AWG 16 - 26
- Safety Certification: cULus

## Power

### NQ Series

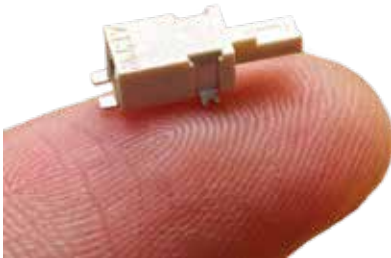


The NQ Series is a small size terminal block that is surface mounted to the PCB. NQ Series is widely used in the LED industry.

#### Features and Benefits

- SMD PCB terminal blocks
- Tape and Reel packaging
- Low Height Structure: 2.7mm(pitch 3.0mm), 5.0mm(pitch 2.5mm), 5.5mm(pitch 4.0mm)
- Push-in spring connecting technology
- Pitch: 2.5mm, 3.0mm, and 4.0mm
- Rated Voltage / Current: 150V / 3A to 300V / 5A
- Wire Range: AWG 18 - 26
- Safety Certification: cULus

### SSL



The SSL series is a waterproof and non-waterproof connector series developed for LED lighting and non-lighting applications. Its low profile design aims at minimizing and eliminating the field wiring and reducing labor time as well as facilitating any maintenance job.

#### Features and Benefits

- Wire-to-wire, wire-to-board connections (waterproof) and board-to-board (non-waterproof) options
- Available in field installable and overmolded with flat or round cables in black color (for outdoor) and white color (for indoor)
- IP68 Waterproof (24hrs/1m)
- Low Profile (Compact design for smaller footprints)
- Reliability (positive latching to ensure interconnection, polarization key to prevent mis-mating)
- Current Rating up to 5A, in 2, 4, 6pins
- High operating environment - -40C ~ +105C
- UL1977, UL2238 compliant

### HP



ENTERTAINMENT@AMPHENOL HP Series Power Connectors are suitable for AC power supply where a latch locking connector is required. Connectors are keyed and color-coded for power-in (Blue) and power-out (Grey) for "daisy chaining" from one lighting fixture to the next.

#### Features and Benefits

- Quick release, vibration resistant latch lock
- 3 pole
- Screw Terminals & Chuck type cable clamp on cable connectors
- Solder tabs or screw terminals on panel mounts
- 25A / 250 VAC Current rating
- Thermoplastic housing
- Industry standard mating with 25% higher Current rating!
- UL, cUL recognized components (File no. E339831)

### HPT



ENTERTAINMENT@AMPHENOL HPT Series offers industry standard mating, IP65 & "Circuit Breaking" capability as the "other" Black/Yellow connector providers, but with enhanced designed in safety features for personal safety!

#### Features and Benefits

- Quick release, vibration resistant latch lock
- 3 pole
- Screw Terminals & Chuck type cable clamp on cable connectors
- Solder tabs or screw terminals on panel mounts
- 16A 250 VAC "Circuit Breaking" (Make/Break under load) Current rating
- IP65 rated Thermoplastic housing
- Industry standard mating but with innovative, easier to use locking cable nut design for improved personal safety!
- Patents Pending

## Signal

### XLR



ENTERTAINMENT@AMPHENOL XLR Connectors complement the latest DMX 512 (Digital Multiplex) Communications Lighting Control protocol. XLR connectors are available in two grades — the industry workhorse AC Series and our “Best in Class” AX Series.

### AC Series

#### Features and Benefits

- 3 to 7 contacts
- Multiple grounding options
- 133V voltage rating
- 7.5A to 15A current rating
- IP40 protection class
- -25°C to +75°C (-13°F to +167°F) operating temperature

### AX Series

#### Features and Benefits

- Improved latch and contact design
- Smaller, modern, ergonomic design
- 3 to 5 contacts
- Multiple grounding options
- 133V voltage rating
- 7.5A to 15A current rating
- IP40 protection class
- -25°C to +75°C (-13°F to +167°F) operating temperature



### XLRnet



ENTERTAINMENT@AMPHENOL XLRnet Connectors provide RJ45 Class D, CAT 5e or Cat 6 performance in A or B type PCB connectors, Panel Mount feed throughs or Cable kits designed for pre-assembled RJ45 cables.

#### Features and Benefits

- Cable plug housing kits designed for pre-assembled RJ45 cables
- PCB connectors available in A & B type with or without shielding and with or without integral LED's for Tx/Rx indication
- Integral LED's eliminate “Light Pipe” alignment and light loss issues with competitors products
- Panel mount feed throughs available with IDC Blocks or RJ45 connector on rear side
- Fully compatible with other industry locking RJ45 connector systems

## Accessories

### Protective Vents



Amphenol Protective Vents designed for enclosures protection in various outdoor applications.

#### Features and Benefits

- Waterproof capacity: IP68 (2m/1hrs), IP69K
- High rating for air permeability 550 – 3000ml/min
- Water and oil ingress resistant
- Plastic, metal, stainless steel types
- Screw thread or snap-in options
- M12 and M6 sizes

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