# LIGHTING APPLICATION GUIDE

A Smarter World Starts With Smarter Lighting

Today, lighting is about more than just illumination. It's about efficiency and adaptability. It's about creating more connected homes and cities. It's about transforming the lighting fixture into a platform for innovation. You have ambitious ideas—and TE Connectivity (TE) offers the connectors, relays, sensors, filters, and passive components you need to light the way to a more connected planet.

# WHY PARTNER WITH TE?

### YOUR SINGLE SOURCE

Get your products into production faster: we offer more than half a million part numbers and a full breadth of products for LED lighting. Experience the convenience of a one-stop-shop while minimizing time and hassle. We even offer free product samples, shipped next-day, so you can test and compare our various offerings. There's no longer any need to coordinate within a vast and disconnected supplier base—we have what you need to get your product to market.

### DEPENDABLE SUPPORT

TE is a global leader in sensors, connectors, filters, and more. We offer rugged, reliable designs for LED applications, and our products are both easy to install and maintain. We provide worldwide service before and after the sale, so you can rest assured that our engineers will always be there to help with technical problems or design issues that come up.

### CUSTOM SOLUTIONS

We have decades of experience collaborating with entrepreneurs and engineers, and we're ready to assist you in delivering what's next in smart lighting. If you're facing a complex design challenge, or you need something we don't currently offer, just ask—our engineers are ready to help.

### FREE SAMPLES

Need a test product? We make it easy for engineers and designers to order product samples—at zero cost—with free, next-day shipping. Test product fit and function with the freedom to experiment and try before you buy. **Browse our sample catalog today.**

# LED STREET LIGHTING

TE's connectivity solutions reduce the complexity of LED street light architecture, allowing you to quicken your time to market, reduce applied costs, simplify integration, and improve assembly efficiency.

## FIXTURE CONNECT SOLUTIONS

TE fixture connect solutions are engineered for improved manufacturability and faster time to market. Our low-profile, easy-install receptacles, terminations and power line filters save time and integrate into new or existing LED fixtures.*

**EXPLORE ALL SOLUTIONS AT:**
**TE.COM/STREETLIGHT_FIXTURE**

PUSH GRIP POKE-IN WIRE CONNECTOR

LUMAWISE ENDURANCE S SERIES ZHAGA BOOK 18 COMPLIANT RECEPTACLES

ANSI C 136.41 DIMMING RECEPTACLES

*Corcom FB SERIES POWERLINE FILTERS
*IDENTIFICATION LABELS

## CONTROLS

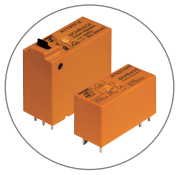
TE leverages cross-industry engineering experience to enable the rapid adoption of connected LED street lighting controls. Our products reduce time to market, complexity and costs by facilitating compact, manufacturable, field-upgradeable solutions.

**EXPLORE ALL SOLUTIONS AT:**
**TE.COM/STREETLIGHT_CONTROL**

LUMAWISE ENDURANCE N SERIES ANSI C136.41 BASES & DOMES

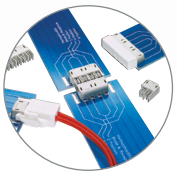
LUMAWISE ENDURANCE S SERIES ZHAGA BOOK 18 COMPLIANT BASES & DOMES

SCHRACK RT1 POWER SERIES RELAYS



BUCHANAN WIREMATE MODULAR/RELEASABLE SMT POKE-IN CONNECTORS

SIDE LATCH MICRO MATE-N-LOK WIRE-TO-BOARD CONNECTORS



HERMAPHRODITIC BOARD-TO-BOARD CONNECTORS

MODULAR SCREWLESS SERIES TERMINAL BLOCKS

EUROSTYLE WIRE-TO-BOARD TERMINAL BLOCKS

LIGHT-N-LOK UL2459 BALLAST/DRIVER DISCONNECTS

## LIGHT ENGINE INTERCONNECTS

Our flexible interconnect solutions seamlessly integrate light engines for modern LED streetlights. We offer low-profile interconnects, in surface mount and through-hole board mount configurations as well as panel mount and free hanging wire-to-wire versions, that are designed to enable faster and more efficient connections.

**EXPLORE ALL SOLUTIONS AT:**
**TE.COM/STREETLIGHT_ENGINE**

## DRIVER INTERCONNECTS

TE offers a broad selection of user-friendly interconnects designed to reliably connect to your driver. With wire-to-wire or wire-to-board options, our interconnects deliver unmatched design flexibility and ease of use.

**EXPLORE ALL SOLUTIONS AT:**
**TE.COM/STREETLIGHT_DRIVER**

# INDOOR LIGHTING

Our deep understanding of building lighting system architectures, combined with our global presence and full offering of component solutions, makes us the ideal partner to help bring your indoor LED lighting designs to life.

## FIXTURE CONNECT SOLUTIONS

TE's fixture connect solutions are engineered to improve manufacturability, speed time to market and make repairs easy—while at the same time meeting the regulatory standards of various geographical regions. Our low-profile, easy-install connectors, application-friendly field wiring terminations, label solutions and power line filters easily integrate into new or existing LED fixtures.

**EXPLORE ALL OF OUR FIXTURE CONNECT SOLUTIONS:**
**TE.COM/INDOOR_LIGHTING_FIXTURE**

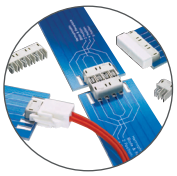
PUSH GRIP POKE-IN WIRE CONNECTOR

FLEX GRIP WIRE CONNECTOR

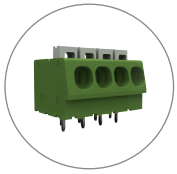
IDENTIFICATION SOLUTIONS

BUCHANAN WIREMATE MODULAR/RELEASABLE SMT POKE-IN CONNECTORS

LUMAWISE LED HOLDERS

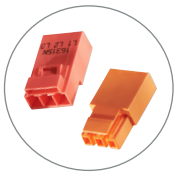


HERMAPHRODITIC BOARD-TO-BOARD



MODULAR SCREWLESS SERIES TERMINAL BLOCKS

EUROSTYLE WIRE-TO-BOARD TERMINAL BLOCKS



LIGHT-N-LOK UL2459 BALLAST/DRIVER DISCONNECTS

## LIGHT ENGINE INTERCONNECTS

Our flexible interconnect solutions seamlessly integrate light engines used in indoor lighting fixtures. We offer low-profile interconnects in multiple configurations, for both recessed and linear fixtures, engineered to maximize design options while meeting the demands of complex indoor lighting designs.

**EXPLORE OUR LED LIGHT ENGINE INTERCONNECT SOLUTIONS:**
**TE.COM/INDOOR_LIGHTING_ENGINE**

## DRIVER INTERCONNECTS

TE offers a broad selection of user-friendly interconnects designed to reliably connect the inputs and outputs of your driver. Our wire-to-wire, wire-to-board and cable-to-cable interconnects deliver unmatched design flexibility, time savings and ease of installation.

**EXPLORE MORE DRIVER INTERCONNECT SOLUTIONS:**
**TE.COM/INDOOR_LIGHTING_DRIVER**

# OUTDOOR LIGHTING

LEDs require less maintenance and handle temperature swings and rapid cycling better than traditional light sources. Our rugged relays, connectors, and products for controls endure the elements while enabling beautiful, efficient lighting.

## FIXTURE CONNECT SOLUTIONS

TE fixture solutions are engineered to improve manufacturability, speed time to market and increase manufacturability—while at the same time meeting the regulatory standards of various geographical regions. Our rugged, easy-install connectors, power line filters and label solutions are easy to integrate into new or existing outdoor LED fixtures.

**EXPLORE ALL OF OUR FIXTURE CONNECT SOLUTIONS:**
**TE.COM/OUTDOOR_LIGHTING_FIXTURE**

CoolSplice CONNECTORS

SEALED, UV-STABLE CPC CABLE-TO-PANEL

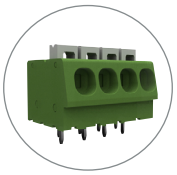
IDENTIFICATION SOLUTIONS

MINI SLIMSEAL WIRE-TO-BOARD

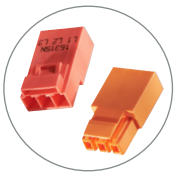
BUCHANAN WIREMATE MODULAR/RELEASABLE SMT POKE-IN CONNECTORS

LUMAWISE LED HOLDERS

MINI SLIMSEAL WIRE-TO-WIRE



MODULAR SCREWLESS SERIES TERMINAL BLOCKS



LIGHT-N-LOK UL2459 BALLAST/DRIVER DISCONNECTS

## LIGHT ENGINE INTERCONNECTS

Our flexible interconnect solutions seamlessly integrate light engines for modern outdoor lighting fixtures. We offer low-profile interconnects, in surface mount and through-hole board mount configurations, designed to enable faster manufacturing and maximize design options while withstanding the harsh conditions of outdoor environments.

**EXPLORE OUR LED LIGHT ENGINE INTERCONNECT SOLUTIONS:**
**TE.COM/OUTDOOR_LIGHTING_ENGINE**

## DRIVER INTERCONNECTS

TE offers a broad selection of user-friendly interconnects designed to reliably connect to the inputs and outputs of your driver. Our wire-to-wire, wire-to-board and cable-to-cable interconnects deliver unmatched design flexibility and ease of use.

**EXPLORE MORE DRIVER INTERCONNECT SOLUTIONS:**
**TE.COM/OUTDOOR_LIGHTING_DRIVER**

# HORTICULTURAL LIGHTING

TE offers robust solutions for fixtures designed for smaller grow applications as well as those for commercial greenhouses that span hundreds of thousands of square feet.

## FIXTURE CONNECT SOLUTIONS

TE fixture connect solutions are engineered to improve manufacturability, speed time to market and simplify installation—while at the same time meeting the regulatory standards of various geographical regions. Our low-profile, easy-install connectors integrate into new or existing LED fixtures, while our power line filters help solve those troublesome conducted emissions that can be present in LED fixtures.

**EXPLORE ALL OF OUR FIXTURE CONNECT SOLUTIONS:**
**TE.COM/OUTDOOR_LIGHTING_FIXTURE**

CoolSplice CONNECTORS

NECTOR S

UV CPC CABLE-TO-PANEL

Corcom POWER FILTERS

SIDE LATCH MICRO MATE-N-LOK WIRE-TO-BOARD CONNECTORS

BUCHANAN WIREMATE MODULAR/RELEASABLE SMT POKE-IN CONNECTORS

MINI SLIMSEAL WIRE-TO-BOARD

MINI SLIMSEAL WIRE-TO-WIRE

LIGHT-N-LOK UL2459 BALLAST/DRIVER DISCONNECTS

SEALED, UV-STABLE CPC CABLE-TO-PANEL

## LIGHT ENGINE INTERCONNECTS

Our flexible interconnect solutions seamlessly integrate light engines used in today's modern horticultural lighting fixtures. We offer low-profile interconnects, in surface mount and through-hole board mount configurations, designed to enable faster manufacturing and more reliable connections while withstanding the harsh environments of indoor horticulture.

**EXPLORE OUR LED LIGHT ENGINE INTERCONNECT SOLUTIONS:**
**TE.COM/OUTDOOR_LIGHTING_ENGINE**

## DRIVER INTERCONNECTS

TE offers a broad selection of user-friendly interconnects designed to reliably connect the inputs and outputs of your driver. Our wire-to-wire and cable-to-cable interconnects deliver unmatched design flexibility and ease of use.

**EXPLORE MORE DRIVER INTERCONNECT SOLUTIONS:**
**TE.COM/OUTDOOR_LIGHTING_DRIVER**

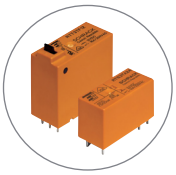
# LED LIGHTING CONTROLS

If you're a lighting engineer designing the next generation of LED lighting controls, we invite you to explore our full range of switches, relays, terminal blocks, labels, antennas, and interconnect solutions designed to help you create the future of LED lighting.

## INDOOR/OUTDOOR CIRCUIT AND FIXTURE CONTROLS

TE solutions reduce the complexity of circuit and fixture control architecture, allowing you to quicken your time to market, reduce applied costs, increase reliability and improve assembly efficiency. We also offer unrivaled engineering and technical support to help you solve tough design challenges while meeting regulatory standards.

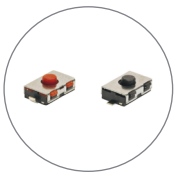
**EXPLORE ALL OF OUR FIXTURE CONNECT SOLUTIONS:**
**TE.COM/INDOOR_LIGHTING_FIXTURE**



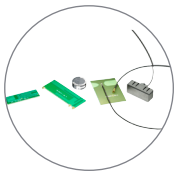
SCHRACK RT1 POWER SERIES RELAYS

IDENTIFICATION SOLUTIONS

MODULAR SCREWLESS SERIES TERMINAL BLOCKS

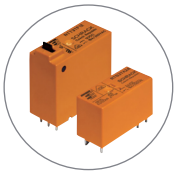


TACTILE SWITCHES



STANDARD AND CUSTOM ANTENNAS

HIGH PERFORMANCE INTERCONNECTS



SCHRACK RT1 POWER SERIES RELAYS

LUMAWISE ENDURANCE S SERIES ZHAGA BOOK 18 COMPLIANT BASES & DOMES

LUMAWISE ENDURANCE N SERIES ANSI C136.41 BASES & DOMES

## STREET LIGHTING CONTROLS

The next generation of smart street lighting is here. Our connectivity solutions reduce the complexity of LED street light architecture, allowing you to quicken your time to market, reduce costs, simplify integration, and improve assembly and maintenance efficiency.

**EXPLORE ALL SOLUTIONS AT:**
**TE.COM/STREETLIGHT_CONTROL**

TE Connectivity (NYSE: TEL) is a $12 billion global technology leader. Our connectivity and sensor solutions are essential in today's increasingly connected world. We collaborate with engineers to transform their concepts into creations – redefining what's possible using intelligent, efficient and high-performing TE products and solutions proven in harsh environments. Our 75,000 people, including 7,300 design engineers, partner with customers in close to 150 countries across a wide range of industries. We believe EVERY CONNECTION COUNTS – **www.TE.com**

**FOR MORE INFORMATION:**

**TE Technical Support Centers**

| | | | |
|---|---|---|---|
| France: | + 33 380 583 200 | Italy: | + 39 333 2500 915 |
| Germany: | + 49 896 089 903 | Poland and Baltics: | + 48 224 576 753 |
| UK: | + 44 8 708 707 500 | Czech Republic: | + 42 0 272 011 105 |
| Spain: | + 34 916 630 400 | Sweden and Norway: | + 46 850 725 000 |
| Benelux: | + 32 16 351 731 | Middle East: | + 971 4 2 117 000 |
| Denmark: | + 45 43 480 424 | USA: | + 1 800 327 6996 |

**te.com**

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