



SOLUTIONS
CONNECTOR - POWER SUPPLY - ASSEMBLY

LED CONNECTORS
& LED DRIVERS





**SOLUTIONS
DESIGNED AROUND
YOUR BUSINESS**



NICE TO MEET YOU

We are A&C Solutions, the connector & harness distribution specialist that offers you a tailor-made solution to any lighting application. We complement our offer with energy efficient LED drivers and we manage your stock on request.

As a full service provider, we are ready to support you into the lighting era of the future!

Do you want to get to know us better?



'A connector or power supply solution that matches, we don't settle for anything less'

THIS IS HOW WE WORK

'We strongly believe that where focus goes, business grows'



YOU'RE OUR CENTERPIECE

We don't sell products, we sell solutions. A solution only becomes one when it fully meets your requirements. It doesn't matter whether you are looking for a single connector, a LED driver or a fully customized cable set. We are there to help you find the right match at the best price available in the market.



LIGHTING FOCUS

We can only add value to your business when we step into your world and learn to understand it. Therefore, we have chosen to align our knowledge and range of connector & power supply solutions with targeted markets like Lighting.



COMPLEMENTARY OFFER

We believe in niche brands that complement each other and make A&C Solutions a more complete and stronger partner for our customers. Each of our brands brings something to the table that makes it stand out of the crowd.



A SPECIALIST AT YOUR SERVICE

We have a clear focus on connector & power supply solutions. In both fields, we have built a strong expertise that helps us to advise you the best solution for your application.



LONGTERM PARTNERSHIPS

We are a partnership builder who is convinced that success can only come from a long term focus. This is how we approach our suppliers, assembly partners and above all, our customers.



YOUR STOCK MANAGER

Our stock management services are designed to support your ongoing production process. We deliver a large part of the conventional connector & power supply solutions directly from stock within 24 hours. And we keep designated customer stock on demand or based on periodic forecast information.

THIS IS WHY OUR CUSTOMERS WORK WITH US

SOURCE: ANNUAL CUSTOMER SURVEY



**CUSTOMER
FRIENDLINESS**



**RELIABLE
PARTNER**



**QUICK
RESPONSE**



**TAILOR MADE
SOLUTIONS**



**DELIVERY
RELIABILITY**



**QUALITY MINDED
ISO 9001:2015**



Maarten Voermans

DRIVING LED INTO THE FUTURE WITH DEDICATED LED CONNECTORS & LED DRIVERS

Years ago, it was merely an efficiency issue to opt for LED lighting. Lately, LED lighting has taken a huge leap and is becoming the true mood maker in many in and outdoor environments. By adapting the light colour and brightness to each environment, LED lighting also offers numerous benefits when it comes to increasing traffic safety, labour productivity, health and even crop growth in the agricultural sector. LED applications are also becoming smarter. Street lights that can also provide wifi, camera surveillance and a charging point for electrical vehicles is just one of the innovations on its way to hit the market.

What is the impact on LED connectors & LED drivers?

What keeps us busy here at A&C Solutions is how these trends determine the future requirements for our connectors & LED drivers. Some of the main trends that we spot with our customers are:

- The shift from robust & dominant to more sophisticated, smaller LED designs that are in line with each environment. This results in a growing demand for compact & thinner connectors.
- Human centric lighting combines more functionalities in one LED design which generates the need to control LED, hence the increasing demand for multipole connectors & LED drivers.
- LED Lighting is increasingly being used for outdoor environments to bring cities, public areas, gardens etc. alive or to enhance safety. It's only logical that our extensive range of IP68 connectors & LED drivers are amongst our bestsellers.

What brings A&C Solutions to you?

Lighting applications are becoming more complex and the offer in the market more extensive. Many of our customers therefore appreciate to work with a specialist that besides connectors, also customizes cable sets and matches the right LED driver to it. We are proud to work with leading brands like Delta, Techno, Adels, Higo, JST and Zierick that offer high quality solutions to a broad scope of LED applications. Together we help you drive LED into the future!



LED CONNECTORS



TECHNO

6 - 9



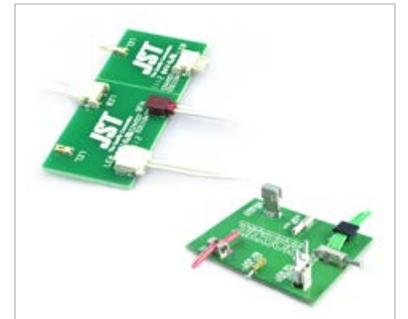
HIGO

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LED DRIVERS



DELTA LED DRIVERS

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TAILOR MADE SOLUTIONS



CABLE HARNESSES

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OUTDOOR CONNECTORS



Allround outdoor connector specialist Techno

Techno offers a wide range of IP68 fixed and plug & socket connectors. Techno connectors are known for their compact design, reliable performance and easy & quick installation in the field. One of the most popular designs is the TH387. With the size of a euro coin, it's the preferred solution for outdoor installations in tight spaces. By adding a 5-pole version to the range, TH387 can now also combine power supply and control.



Saves time



Compact



IP68



Chlorine resistant

Alternatives to cable glands

Use the Techno panel mount connectors for a reliable, easy and fast installation of your fixture. By including this connector in your design upfront, your fixture no longer needs to be opened during installation and will be connected in a sealed condition.



TH387 4-pole connector
long version

TH387 5-pole connector
short version



TH392 junction
connectors



Installer friendly version

The longer version allows for more space to connect wires and is therefore more installer friendly.

TECHNO



Saves time



Compact



≤ 7A



IP68
IP69K



Piercing screws



Locking system

*Micronnect: smallest 3-pole IP68/
IP69K plug & socket connector*



Quick and easy to install and offers maximum safety with a permanent (EN 61535 compliant) or push-pull locking system.



NEW



Micronnect current distributor TH625

This distributor comes with integrated LED lights and has 1 entry and three exit points. Available in 2- and 3-pole version.

IP68



High flexibility in field wiring installations thanks to screw wire terminals.



NEW

Within a cross section of only 14mm, Micronnect can still handle a cable diameter of 8,3mm. Perfect to cover longer distances in outdoor projects. Available in a 2- and 3-pole version.



Gaskets are moulded to the contact block thereby preventing leakage and consequently installation errors.

IP68

Quick wins with the TH624 current distributor

The TH624 is available in both a 4 and 5 pole version and has 1 entry and three exit points.



OUTDOOR CONNECTORS



In outdoor environments where there are temperature and pressure differences between the inside and outside of a fixture, the capillary action can cause moisture to build up inside the cable. Of course, this puts the electrical functionality of your lighting application seriously at risk. Unfortunately, ventilation is not always possible due to limited space or special environmental conditions (water/pollution).

In this case, you need an electrical connection that is able to keep unwanted moisture build-up outside your application. The answer is Techno xDRY®.



xDRY® TECHNOLOGY

Techno xDRY® connectors use a water-repellent co-moulding technology and a special internal barrier. Humidity just doesn't stand a chance.

TECHNO xDRY® RANGE



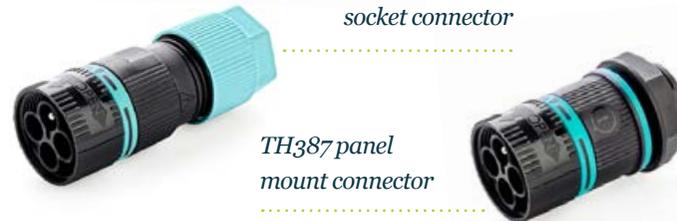
TH391 in-line xDRY joint connector



TH392 xDRY junction box



TH387 xDRY plug & socket connector



TH387 panel mount connector



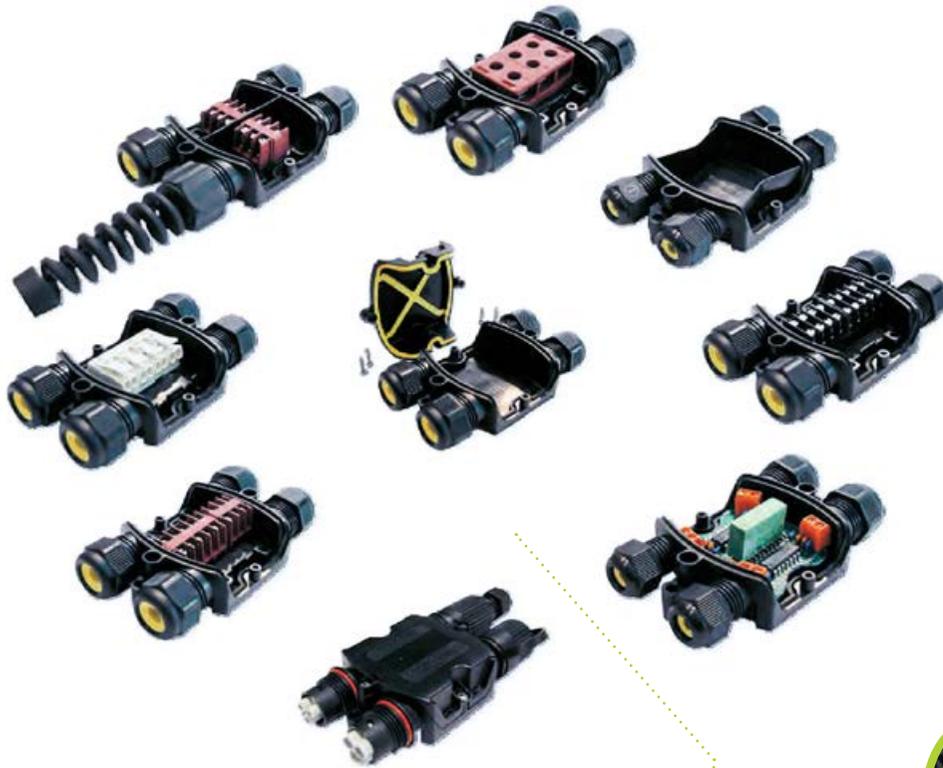
Protection caps



TECHNO

OUTDOOR CONNECTORS

These junction boxes offer maximum protection of circuits and electronic devices. They are re-usable and re-accessible and can be made to measure according to each customer's specifications.



IP68 junction box and current distributor

A reliable and fast connection is obtained by a built-in connector. The co-moulded gasket prevents seal leakage or improper installation.

IP68



Range of tube and splitter connector solutions

IP68



Customized junction box solutions with integrated LED driver

Techno developed a connector solution for lighting projects using ground spots. This plug & play junction box is pre-wired and moulded in-house by Techno and can integrate a LED driver upfront.

IP68

OUTDOOR CONNECTORS

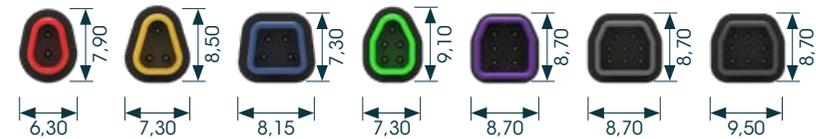


European marketleader in E-bike connectors Higo has a range of compact, moulded IP66/67 signal connector solutions up to 9 poles, available with a push or threaded locking system. The main strength of Higo lies in the field of R&D excellence and flexibility in developing customized connector solutions and cable harnesses on demand.



2-9 pole mini F signal connector PLUG

Higo's mini F push-pull range can handle a rated current of 2A for wires of 0,12mm² and 0,2mm² wires. Each pole number has a different shape and colour in order to preclude interchangeability and therefore installation errors in the field.



2-8 pole mini-C signal connector PLUG

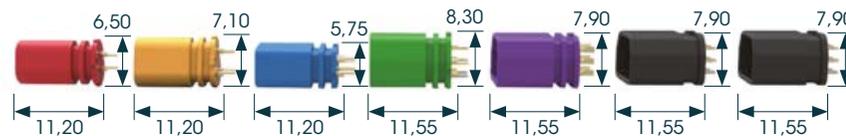
The mini-C range has a 9mm diameter with threaded locking system. It offers 2A for 0,12mm² and 0,2mm² wires.



2-9 pole mini F signal connector PANEL MOUNT



Mini F cover for male & female connectors



HIGO

Ultra compact signal connectors

NEW



Although Higo's connectors are originally developed for the E-bike market, many requirements in outdoor LED lighting are the same. For both markets, space is often limited and applications are frequently exposed to outdoor/humid environments. So they both need very compact & waterproof connectors. Higo's R&D department continuously pushes itself to come up with ever smaller, more pole designs. You'll find here a variety of the latest standard plug-, angled plug- and panel mount connectors.

2-pole micro A PLUG & PANEL MOUNT

The smallest Higo connector is the Z205A with a diameter of only 4,8mm. It is suitable for wires of 0,14mm².

IP67

2A

IP67

2A

5-pole micro F PLUG

The Z507F has a 6,5mm diameter and is suitable for wires of 0,14mm².

IP67

1A

6-pole micro D PLUG

The Z606D connector design combines 3 male and 3 female contacts in each connector within a diameter of only 6mm for wires of 0,8mm².

IP66

2A

NEW

4-pole mini F ANGLED PLUG

The smallest Higo connector is the Z205A with a diameter of only 4,8mm. It is suitable for wires of 0,14mm².



Splitters

Higo offers an unlimited range of customized splitter options going from one cable to maximum 4 different connectors.

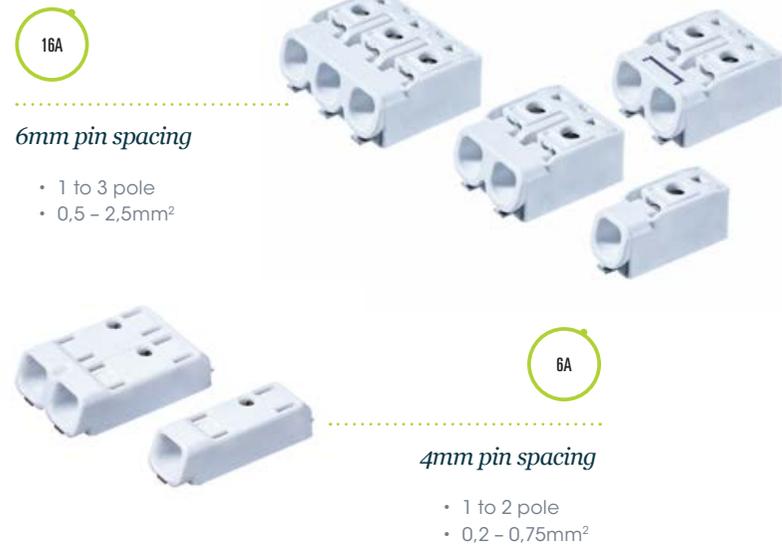
INDOOR CONNECTORS



Adels contact has been an established name in the lighting business for many years now. Since the 1930s, Adels has been a synonym for high-end solutions in the field of pluggable electrical installations for interior lighting. The success of Adels is mainly based on a philosophy where innovation, quality and tailor-made solutions are a priority. Discover Adels' complete offer of SMD connectors, plug & socket connectors and IP65/IP66 connectors for the connection of luminaires.

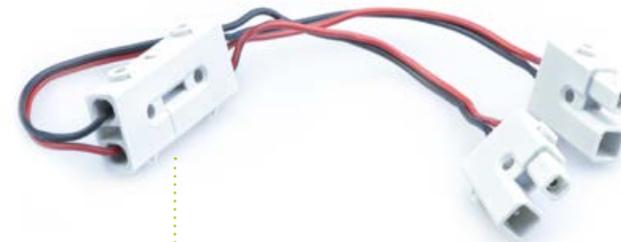
SMD connectors 345/545

Terminal blocks for stranded and solid wires with 4mm and 6mm pin spacing from Adels minimize discolouring and shadow effect. They ensure a safe processing on automatic luminaire assembly machines.



Terminal blocks

These luminaire connectors allow for fixing by screw or rivet and are available for 2 to 5 pole.



LED distributors AC162

Cost-effective 2-pole connector with splitter possibilities.

ADELS

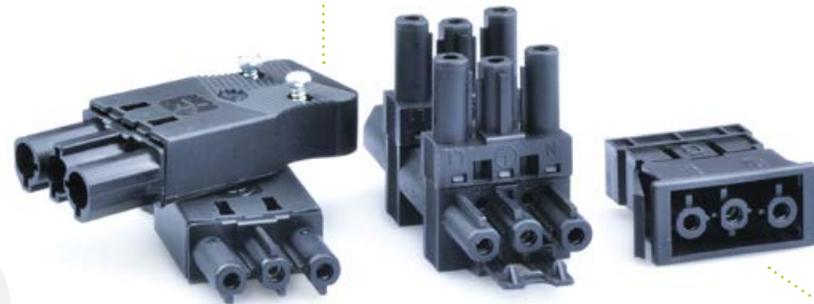


Mains cables, 3 pole with cables 1,5mm² in PVC.

AC166 series, the mainstream indoor plug & play connector

The AC166 series from Adels is the building installation connector according to EN 61535. It saves 70 % of time and 30 % of costs during installation. This is achieved by the "plug & play" functionality. There is no need for dismantling and stripping. Just connect. The AC166 series is very suitable for lighting applications in furniture and display manufacturing, booth construction and building installations.

Connecting cables with plug & sockets with 3 to 5 poles and cables 1,5mm² and 2,5mm².



Distribution blocks with 1 input and 3 to 5 output terminals.



Flat plug & sockets connectors with DALI coding.

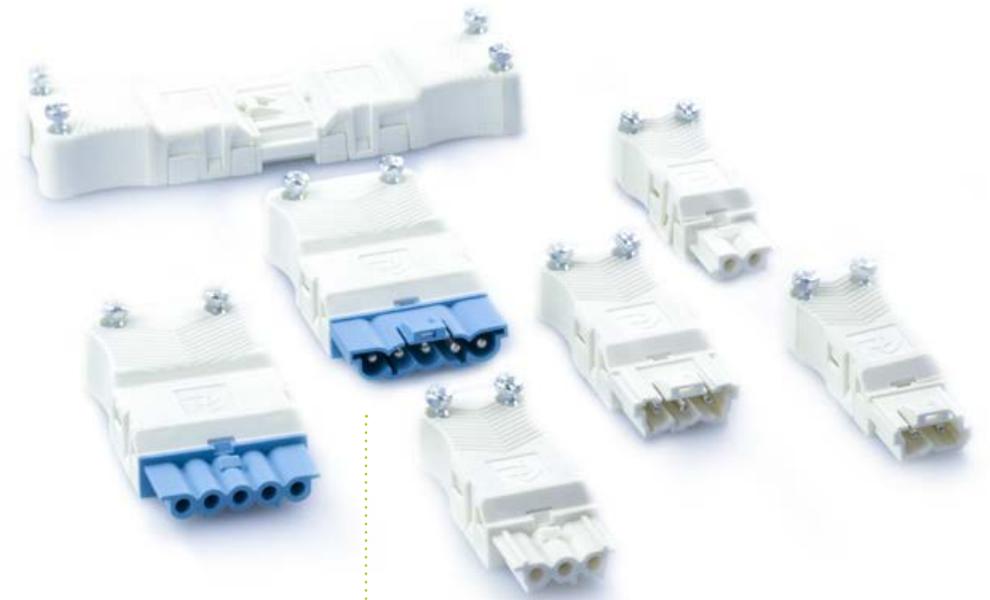
Panel mount connectors with 3 to 5 poles and cables 0,5 - 2,5mm². 2 terminals per pole for panel thickness from 0,5 - 1,2mm.

IP66

6A

LCS75 cable gland for outdoor lighting

The LCS75 connector is a waterproof solution specifically designed for outdoor lighting in parking lots, industrial buildings, cold rooms etc. By integrating the LCS75 connector into the luminaire upfront, the manufacturer is assured that the luminaire itself remains sealed during installation. The LCS75 IP66 connector is a continuation of the LCS45 IP65 connector. Both are available in a 3-pole version. A 5-pole version as well as a closure cap for a serial connection will be ready in January 2020.

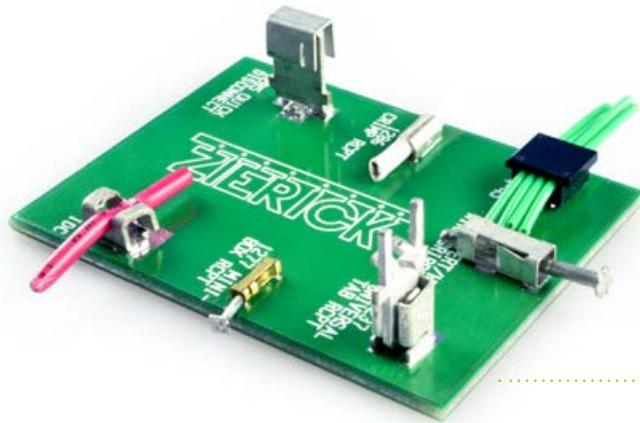


Little brother AC164

The latest series from Adels is the AC164, the little brother of the AC 166 connector range and half its size. The AC164 offers an enlarged modular system with smaller dimensions. The range consists out of plug & sockets connectors, as well as built-in plugs and sockets and a compact distribution unit. You can realize compact lighting installations very cost-effective and in a record of time.

NEW

ADELS



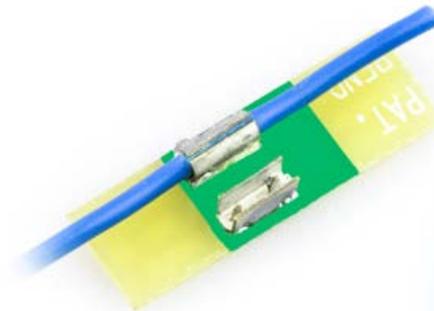
Tab receptacles and surface mount IDC

IDC and tab receptacles

When it comes to LED strips, it is very important to have compact connector designs that don't affect the luminescence angle of the strip. Just as important is the easy and reliable interconnection of LED strips as it enhances installation and guarantees the long term quality of your application. A&C Solutions' range in this field focuses on smart solutions to connect wires to a PCB and PCB to PCB.

Wire gripper

Wire grippers from Zierick allow customers to easier terminate a stripped wire to a PCB. This offers a cost- and time saving alternative for traditional soldering.



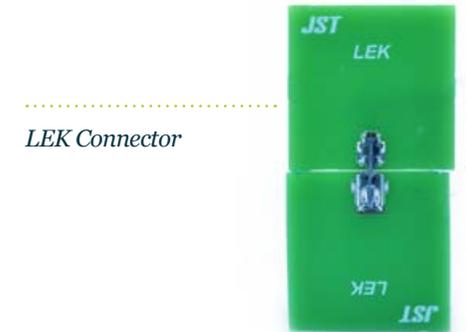
Insulation piercing terminal

The insulation piercing technology from Zierick connects wires to a PCB through an automated process. This technology replaces the labour-intensive soldering process and increases the reliability and the continuous quality of your application substantially.

INDOOR CONNECTORS FOR LED LAMPS



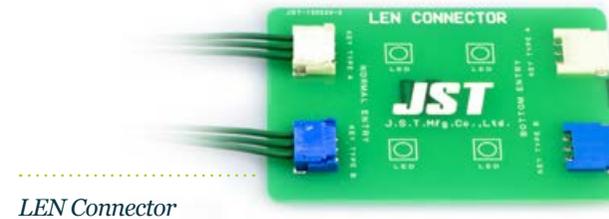
Characteristics	LEA	LEH	LEX	LEN	LEB	LEL	LEK
Pitch size (mm)	1,8	1,8	2,5	3,0	4,0	NA	NA
Profile height (mm)	3,0	3,0	1,2	3,0	2,7	1,2	2,8
Nr of circuits	2	2	2,4	2,3,4	1,2	1	1
Current rating* (A AC, DC)	3	3	3	3	3	1,6	3
Voltage rating (V)	300	300	300	300	300	100	NA
Applicable wire (AWG)	30-22	26-22	30-22	26-22	26-22	NA	NA
BtB					x	x	x
WtB	x	x	x	x	x		



LEA connector

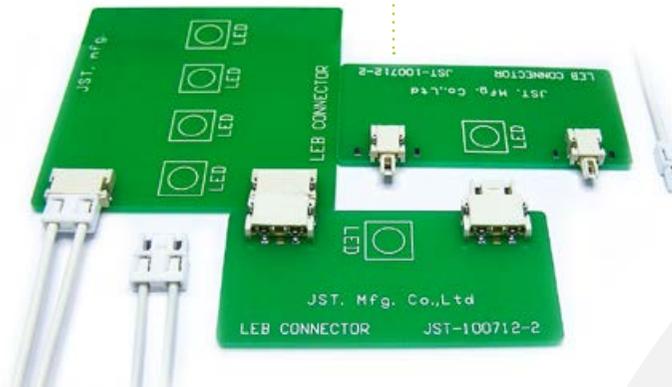


LEH Connector

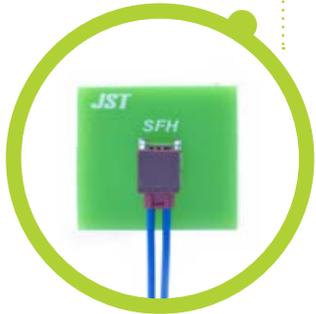


LEB connector

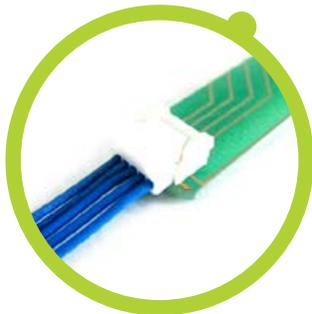
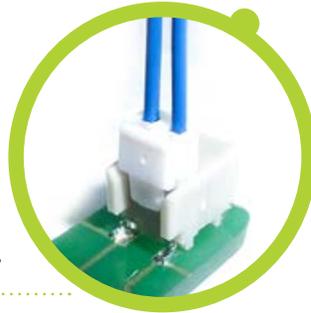
LEX Connector



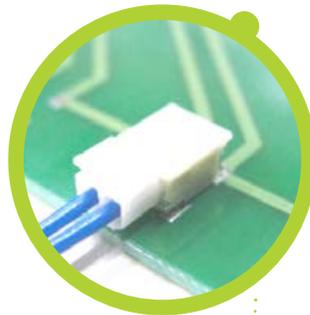
SFH connector



SFV connector

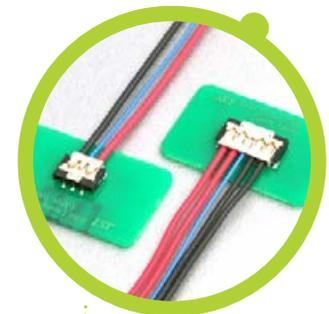


SFG connector



SFK connector

ACH connector



AUH connector

Characteristics	SFG	ACH	SFH	SFK	AUH	SFV
Pitch size (mm)	1,1	1,2	1,8	1,8	1,5	2,0
Profile height (mm)	3,48	1,4	3,0	4,0	1,85	NA
Nr of circuits	5	1,2,3,4,5	2	2	3,5	2
Current rating* (A AC, DC)	1	2	4	3,2	1/5	1
Voltage rating (V)	200	50	350	350	30	300
Applicable wire (AWG)	30-28	30-28	30-22	30-22	30-22	30-28
WtB	x	x	x	x	x	x
WtW		x				

LED DRIVERS OUTDOOR & INDUSTRIAL APPLICATIONS



Enabling high energy efficiency of lumen per watt, Delta Class 1 LED drivers lower the energy cost for outdoor applications requiring high lumen fixtures. The feature of programmable output provides the flexibility to program the functions of output current, dimming mode, on/off times and thermal protections. The robust design provides a high level of protection against water and dust to ensure the operation in harsh environments.

The outdoor LED drivers from Delta have the following features in common:

- Wide range constant current design
- Adjustable constant current level through programmable tool
- Common mode 6kV/differential mode 6kV surge immunity



EUCO PRO series

- High efficiency up to 94%
- 0-10V dimming available



Chrome Din-Rail power supply

- Protection class II, double isolation (no earth connection is required)
- Universal AC input voltage and full power up to 55°C
- Power will not de-rate for the entire input voltage range
- Efficiency > 85.0% @ 115Vac & 230Vac
- NEC Class 2 / limited power source (LPS) certified
- Overvoltage / overcurrent / overtemperature protection



USCO PRO/ES series

- Universal AC input voltage from 110-277 Vac
- 0-10V dimming available



USCI PRO series

- Universal AC input voltage from 120-277 Vac
- High efficiency up to 94%
- 0-10V dimming available



EUCI PRO series

- High efficiency up to 93%
- Wide operating temperature range -40°C to +55°C or +60 °C
- DALI available & dimming by Switch Dim function
- Common mode 8kV/differential mode 6kV surge immunity

DELTA



USVI Cuboid

- 20W Pout, constant voltage design
- Class2 output
- Universal 100-277Vac input
- -40°C to +60°C wide Ta range
- 1" height design



USVI Sign

- 60-100W Pout, constant voltage design
- Class 2 output
- Universal 120-277Vac input
- -40°C to +55°C wide Ta range
- 1" height design

USVI Multi

- 120-200W Pout, constant voltage design
- 2 / 3 Multi-channel output
- Class2 output
- Universal 120-277Vac input
- -40°C to +55°C wide Ta range



Commercial signs come in different shapes, sizes, colors and purposes. Combining years of experience in powering sign light, Delta LED drivers for signage applications enhance the visibility of the signs and save the power cost.



EUVO Fixed

- 60-250W Pout, constant voltage design
- 220-240Vac for EMEA region
- -25°C to +55°C wide Ta range
- Up to 92% efficiency

Delta LED drivers help you save time and cost to make your light fixtures IoT ready. With built-in Bluetooth mesh, Delta LED drivers for IoT applications enable remote control of light fixtures and IoT features incorporation. The user can turn on/off and dim the light, schedule occupancy and monitor the status remotely. No additional cost of connection is required for the retrofits and incorporation of the smart features. Time for wiring is also waived.



USCT BL series

- Constant current design
- Universal input voltage from 110-277 Vac
- Adjustable constant current level through DALI tool
- Bluetooth low energy and DALI dimming available
- 1% - 100% dimming range
- Two channels output current design



EUCI BA series

- Constant current design
- Bluetooth low energy dimming available
- 1% - 100% dimming range
- EMEA AC input voltage from 220-240Vac
- Built-in or independent type with clip-in strain-relief
- Two channels for color mix application



EUCI BL series

- Constant current design
- Bluetooth low energy and DALI dimming available
- Adjustable constant current level through DALI tool
- 1% - 100% dimming range
- EMEA AC input voltage from 220 - 240 Vac
- Optional strain relief set for independent applications

EUCI BLS series

- Constant current design
- EMEA AC input voltage from 220-240Vac
- Build-in active PFC and conform to harmonic current
- Bluetooth low energy and DALI dimming available
- 3% - 100% dimming range
- Two channels 350mA output current design



DELTA



EUCI Panda

- Constant current design
- Input voltage from 220-240 Vac
- Up to 88 - 90% efficiency
- Independent or built-in type
- Fixed output current
- IP20 assembly for indoor applications



EUCI Mini

- Constant current design
- Input voltage from 220-240 Vac / 176-280Vdc
- Built-in or independent type with clip-in strain-relief
- SELV
- Programmable output current
- DALI control is compatible

Indoor lighting is a very diverse category that demands a wide variety of wattages and sizes. Delta LED drivers cover a broad range of indoor applications including track lights, linear troffers, architectural lighting, entertainment lighting, and highbay/lowbay. With a programmable function with options between 0-10V and DALI 2 control, Delta LED drivers ensure the indoor lighting work.



USCT Linear

- Constant current design
- Universal input voltage 220-277 Vac
- Class 2 Output
- 1-10V dimming available
- 1" height design for indoor commercial applications
- Adjustable constant current level through programmable tool



USCI Mini Can

- Constant current design
- Universal AC input voltage from 120-277 Vac
- Wide operating temperature range -25°C to +55 °C
- Suitable for Dry and Damp locations
- 1-10V dimming available
- Common mode 4kV and differential mode 4kV surge immunity

CABLE HARNESSSES



When you need to design your connector into a cable assembly, A&C Solutions can provide you with an interesting alternative to do this in-house at attractive conditions.

A&C Solutions works with various, certified (ISO9001) production locations in Eastern Europe and China. These plants are specialised in cable assemblies and are fully equipped with the latest technology to ensure optimal cost-efficiency.

Being a connector distributor, A&C Solutions is able to offer you the best match in custom assembly because it has:

- the stock
- the right knowledge
- the right connector tooling
- and the best price

This means that by assembling your connector with A&C Solutions, you will decrease your direct- and indirect costs substantially and at the same time you are assured that your connector is assembled according to your specifications.



Production site



DISCOVER OUR COMPLETE CONNECTOR & POWER SUPPLY PROGRAM



CONNECTORS

RECTANGULAR



ILME



ADELS



SHIELD / ATAM

CIRCULAR



HUMMEL



YAMAICHI



BINDER



SHIELD

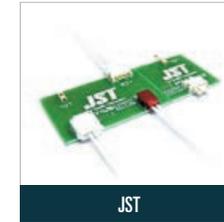


TECHNO

PCB



ZIERICK



JST

POWER SUPPLIES



DELTA



NEXTYS



DAITRON

TAILOR MADE SOLUTIONS



SPECIAL CABLES

RAILWAY



ILME



TECHNO



HUMMEL



CABLE ASSEMBLIES

CONNECTORS



HIGO



HUMMEL



TECHNO



YAMAICHI



JST



ZIERICK



ILME



ADELS



SHIELD



BINDER

POWER SUPPLIES



NEXTYS



DELTA



DAITRON

A&C SOLUTIONS' MARKETS



LIGHTING INDUSTRY



E-MOBILITY



AUTOMATION & RAILWAY

If you require more information, **please contact us.**



SOLUTIONS
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