

Türkiye

Discover
the potential

LIGHTING SOLUTIONS

 **TTAF**[®]

About TTAF®

İstanbul | TÜRKİYE

Headquarters &
Manufacturing

Shenzhen | CHINA

R&D Office



Join
The Expanding
World
of TTAF
Today!

TTAF Elektronik Ltd was founded in Istanbul /Turkey in 2003, providing interconnect solutions for defense, aerospace, automotive, industrial, telecom and led lighting applications including: Wiring harnesses, Cable Assemblies, Optical Fiber, Power, RF, Molded, Electromechanical Assemblies, Lighting Systems and IP rated outdoor solutions.

Servicing our diverse customers worldwide from our state of the art manufacturing facilities in Istanbul(6000sqm closed area) and Ankara(4000sqm closed area), TTAF is now a global interconnect solutions and cable assembly leader always valuing customer satisfaction.

After more than 30 years in the connector marketplace, TTAF capitalized to create own wire harness and cable assembly business offering wiring harness assemblies using optimum grade wire and other material with the help of cutting-edge machines in adherence to set electronic industry norms.

TTAF is ISO9001:2008, AS9100C, IPC/WHMA-A-620B, UL, CE, ATEX, ETL & 3P certified to meet even the most demanding quality standards.



waterproof



IP68

(1m/30min.)

Field Assembly 'I' Connector



Product Code
WPI-0302M15

Providing quick and practical field assembly, manufactured from impact resistant and UV resistant materials ideal for harsh outdoor conditions, compliant to IP68 standards and supporting easy distribution of energy.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 16A Max.
Durability Voltage	: 1500VAC@60s.
Insulation Structure	: 500 MΩ at 500VDC
Contact Resistance	: 10 mΩ max.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C ~ +105°C
IP Rating	: IP68 (1m/30min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon

Waterproof Connection Solutions

For more information; you can scan barcode square

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f ttafelectronic



**waterproof**



GONTUANA[®]
Waterproof Electrical Splitter Series



Field Assembly 'T' Connector



Product Code
WPT-0303M15

Providing quick and practical field assembly, manufactured from impact resistant and UV resistant materials ideal for harsh outdoor conditions, compliant to IP68 standards and supporting easy distribution of energy.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 16A Max.
Durability Voltage	: 1500VAC@60s.
Insulation Structure	: 500 MΩ at 500VDC
Contact Resistance	: 10 mΩ max.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C ~ +105°C
IP Rating	: IP68 (1m/30min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon



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Field Assembly 'H' Connector

Product Code
WPH-0304M15

Providing quick and practical field assembly, manufactured from impact resistant and UV resistant materials ideal for harsh outdoor conditions, compliant to IP68 standards and supporting easy distribution of energy.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 16A Max.
Durability Voltage	: 1500VAC@60s.
Insulation Structure	: 500 MΩ at 500VDC
Contact Resistance	: 10 mΩ max.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C ~ +105°C
IP Rating	: IP55
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon

For more information; you can scan barcode square





Field Assembly 'Y' Connector

Product Code
WPY-0303M15

Providing quick and practical field assembly, manufactured from impact resistant and UV resistant materials ideal for harsh outdoor conditions, compliant to IP68 standards and supporting easy distribution of energy.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 16A Max.
Durability Voltage	: 1500VAC@60s.
Insulation Structure	: 500 MΩ at 500VDC
Contact Resistance	: 10 mΩ max.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C ~ +105°C
IP Rating	: IP55
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon




waterproof

IP68
 (10m/60min.)



3 POWER | 6 DATA
**FIELD ASSEMBLY
 CONNECTOR**

Product Code

WPI-3602M25-NN/00

Providing quick and practical field assembly, manufactured from impact resistant and UV resistant materials ideal for harsh outdoor conditions, compliant to IP68 standards and supporting easy distribution of energy & data.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3 Power / 6 Data
Voltage Rating	: Power: 250VAC Data: 50 VDC/VAC
Current Rating	: Power: 25A Max. Data: 6x1 Amper
Durability Voltage	: 1500VAC@60s.
Insulation Structur	: 1000 MΩ at 1000VDC
Contact Resistance	: 1 mΩ max.
Min Wire Size OD	: 10mm
Max Wire Size OD	: 14mm
Temperature Rating	: -40°C +105°C
IP Rating	: IP68 (10m/60min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon
Housing Dimensions	: 125x40mm

3power

6data


**waterproof**



IP68
(10m/60min.)

GONTUANA[®]
Waterproof Electrical Splitter Series

4 IN | 4 OUT
**FIELD ASSEMBLY
CONNECTOR**

Product Code
WPC-0402M16

Providing quick and practical field assembly, manufactured from impact resistant and UV resistant materials ideal for harsh outdoor conditions, compliant to IP68 standards and supporting easy distribution of energy.

TECHNICAL SPECIFICATIONS

Number of Poles	: 4
Voltage Rating	: 300VAC
Current Rating	: 16A Max.
Durability Voltage	: 3000VAC@60s.
Insulation Structure	: 500 MΩ at 500VDC
Contact Resistance	: 10 mΩ max.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C ~ +105°C
IP Rating	: IP68 (10m/60min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon



Waterproof Connection Solutions

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IP68

(1m/30min.)


waterproof

1x3

Electrical Splitter

Product Code
WPA-0304N20

1 In 3 Out Waterproof Electrical Splitter, providing quick and practical field assembly, manufactured from impact and UV resistant materials ideal for outdoor and indoor IP68 applications.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 17A Max.
Durability Voltage	: 1000VAC @60s.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C + 105°C
IP Rating	: IP68 (1m/30min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon





waterproof

1x5 Electrical Splitter

Product Code
WPA-0306N17

1 In 5 Out Waterproof Electrical Splitter, providing quick and practical field assembly, manufactured from impact and UV resistant materials ideal for outdoor and indoor IP68 applications.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 17A Max.
Durability Voltage	: 1000VAC @60s.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C + 105°C
IP Rating	: IP68 (1m/30min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon



waterproof



IP68

(1m/30min.)

1x9
Electrical Splitter

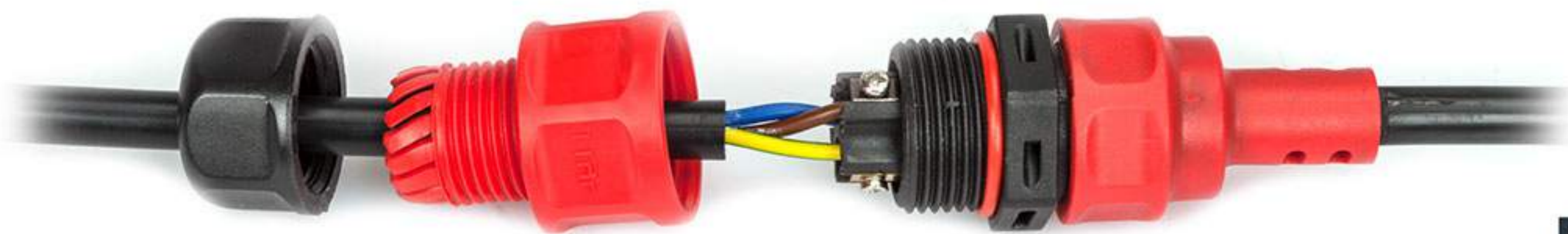


Product Code
WPA-0310M10

1 In 9 Out Waterproof Electrical Splitter, providing quick and practical field assembly, manufactured from impact and UV resistant materials ideal for outdoor and indoor IP68 applications.

TECHNICAL SPECIFICATIONS

Number of Poles	: 3
Voltage Rating	: 250VAC
Current Rating	: 17A Max.
Durability Voltage	: 1000VAC @60s.
Min Wire Size OD	: 5,5mm
Max Wire Size OD	: 8,5mm
Temperature Rating	: -40°C + 105°C
IP Rating	: IP68 (1m/30min.)
Mold Material	: PA6
Contact/Terminal Material	: Nickel-Plated Brass
Seal Material	: Silicon



Today, tomorrow and forever!

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Turkey Discover
the potential



5 PCS **7** WATT ▶ *Attachable Up To 8 Kits*

Festoon Lighting Systems

Product Code
EWL-01509A

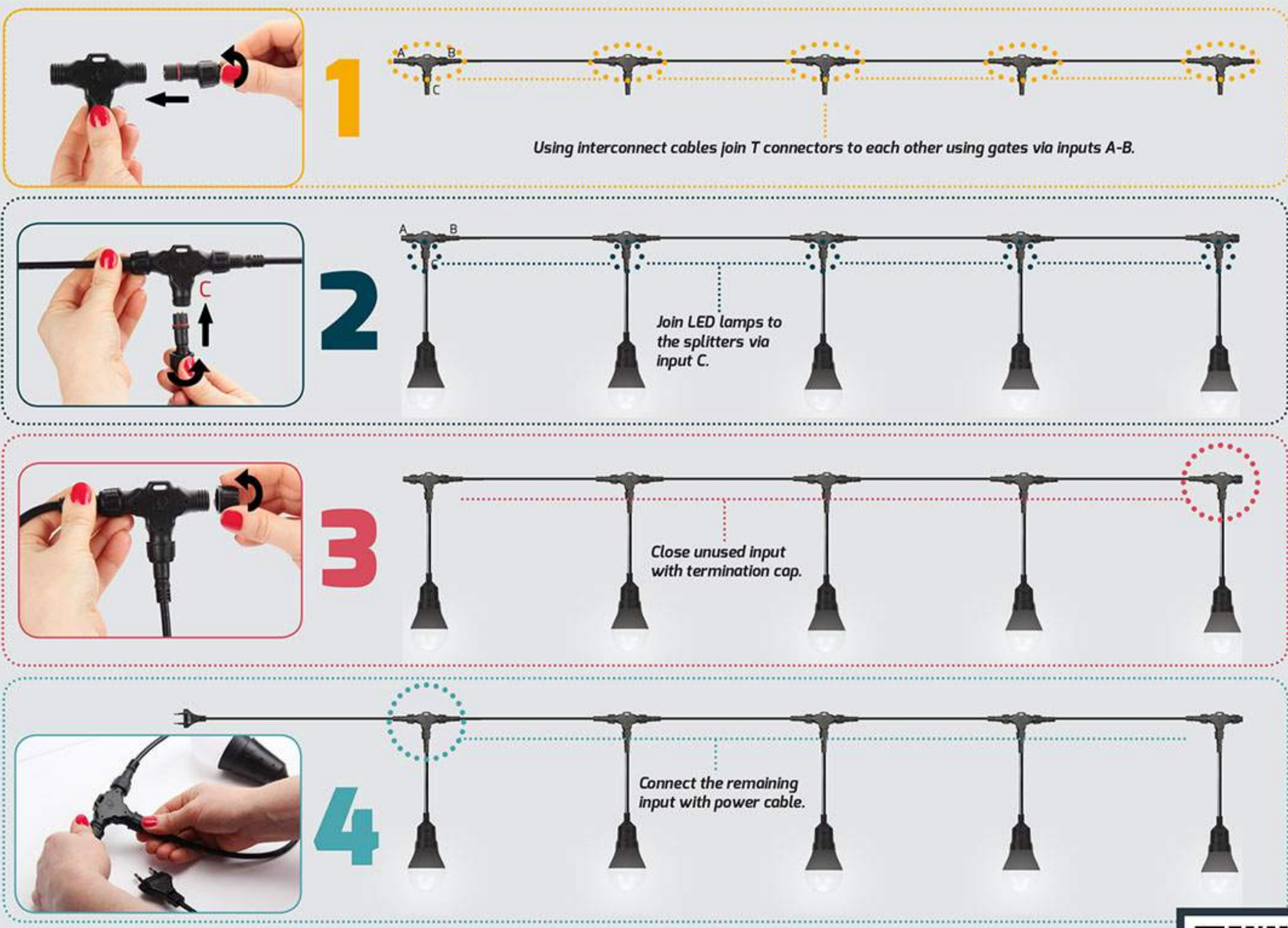


*It provides easy and fast installation with robust and practical structure .
Resistant to harsh environment conditions.
Unique design, attachable and extendable LED lighting kit.
The ideal solution for all kinds indoor and outdoor lighting applications!*



IP67

- POWER
7W
- LUMEN
750
- CCT
6500K
- ENERGY
170-240V
- CRI
80
- IP
67



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YLL Series Decorative Lighting

Low Energy Consumption
Impact and Vibration Resistant
Replaceable Cover
Decorative LED Light Lamp

The ideal solution for all kinds of indoor and outdoor decorative lighting applications!



**COOL
LIGHT**



BLUE



PURPLE



AMBER



GREEN



YELLOW



**WARM
WHITE**



7 Different Color Options

INDOOR & OUTDOOR



REPLACEABLE COVER



SILICON SEAL



7W LED LAMP

E27 LAMP HOLDER



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ECL Series ***Decorative Lighting***



***It provides easy and fast installation with robust and practical structure .
Unique design, attachable and extendable LED lighting kit.
Decorative LED Lamp Festoon
The ideal solution for all kinds of indoor and outdoor lighting applications!***



3 Different Styles



Cable Kit and Lamp Holder with 8 Different Color Options !

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EWL Series

Garden Lighting

Product Code

EWL-2407D-WW/B01



Providing safety by low operating voltage

Very economic solution thanks to low energy consumption

Easy and fast assembly by means of practical modular structure

Compliant to IP67 standards.

Red, Blue, Green, Yellow, Amber, Turquoise, Violet, Orange, Purple

Light colours are available

Garden Lighting Kit



Power
7W

Energy
24VDC

IP
67



7Watt
CREE 

Rotatable
Lamp
Cover

50° Horizontal
35° Vertical
Beam

Cable
Fixture
Clipse

Waterproof
Connector

Aluminum
Stick
L: 50cm

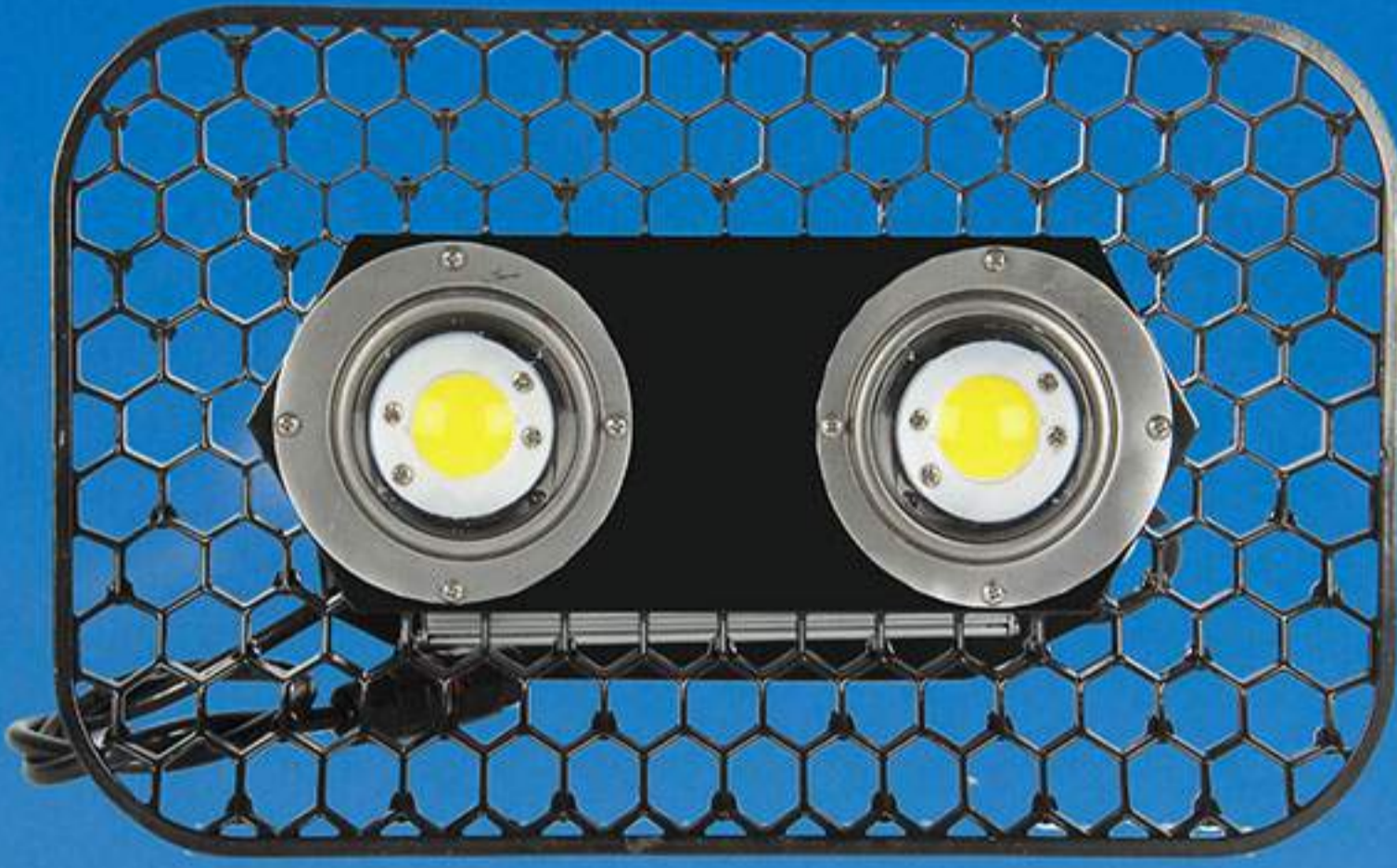
Removable
Fixing Picket
L:20cm



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ESL-01 Series Projector

Product Code
ESL-01080U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	80W Pf:0,96
Weight	5.5 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing Material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	9900 lm
Luminaire Dimensions	420mm*260mm*83mm



125W



ESL-01 Series Projector

Product Code
ESL-01125U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	125W Pf:0,96
Weight	5.5 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing Material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	14500 lm
Luminaire Dimensions	420mm*260mm*83mm

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ESL-02 Series Projector

Product Code
ESL-02175U

CITIZEN
Micro HumanTech

CITILED®
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	175W Pf:0,96
Weight	6.8 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	20000 lm
Luminaire Dimensions	520mm*290mm*87mm



120W

ESL-03 Series Street Lighting

Product Code
ESL-03120U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	120W Pf:0,96
Weight	5.5 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	14000 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	570mm*280mm*77mm



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ESL-03 Series

Street Lighting

Product Code
ESL-03150U

CITIZEN
Micro HumanTech

CITILED®
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	150W Pf:0,95
Weight	5 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	16800 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	570mm*280mm*77mm



180W



ESL-04 Series Street Lighting

Product Code
ESL-04180U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	180W Pf:0,96
Weight	7,75 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	21400 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	720mm*330mm*82mm



Outdoor Lighting Solutions

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ESL-04 Series

Street Lighting

Product Code
ESL-04250U

CITIZEN
Micro HumanTech

CITILED.
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	250 W Pf 0,96
Weight	7,75 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	29000 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	720mm*330mm*82mm



50W

ESL-05 Series Street Lighting

Product Code
ESL-05050U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	50W Pf:0,9
Weight	1,8 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	5400 lm
Luminaire Dimensions	300mm*300mm*95mm



Outdoor Lighting Solutions

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Kara Fatma® ESL-06 Series Street Lighting

Product Code
ESL-06080U

CITIZEN
Micro HumanTech

CITILED®
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	80W Pf:0,95
Weight	5,3 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	9000 lm
Luminaire Dimensions	385mm*385mm*90mm



120W

ESL-07 Series Street Lighting

Product Code
ESL-07120U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	120W Pf:0,96
Weight	8 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	14000 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	792mm*280mm*93mm



Outdoor Lighting Solutions

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ESL-07 Series

Street Lighting

Product Code
ESL-07150U

CITIZEN
Micro HumanTech

CITILED®
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	150W Pf:0,96
Weight	7,5 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	16800 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	792mm*280mm*93mm



180W

ESL-08 Series Street Lighting

Product Code
ESL-08180U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	180W Pf:0,96
Weight	9,6 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	21400 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	945mm*330mm*95mm



Outdoor Lighting Solutions

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ESL-08 Series Street Lighting

Product Code
ESL-08250U

CITIZEN
Micro HumanTech

CITILED®
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	250W Pf:0,96
Weight	9,6 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	29000 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	945mm*330mm*93mm



280W

ESL-08 Series Street Lighting

Product Code
ESL-08280U

CITIZEN
Micro HumanTech

CITILED
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	280W Pf:0,96
Weight	9,6 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	30800 lm
Mounting Bracket Diameter	48 ~ 65mm
Luminaire Dimensions	945mm*330mm*93mm



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Kara Fatma® ESL-06 Series High Ceiling Lighting

Product Code
ESL-06080U

CITIZEN
Micro HumanTech

CITILED®
The Light Engine

INVENTRONICS

	TECHNICAL SPECIFICATIONS
Power Consumption	80W Pf:0,95
Weight	5,3 Kg
Lens Material	High Borosilicate Glass
Color Temperature	2200 to 6500K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Operating Voltage	100V ~ 240V
Luminous Flux	9000 lm
Luminaire Dimensions	530mm*300mm



200W



Alakarga® ESL-09 Series High Ceiling Lighting

Product Code
EML-200U



**HEAVY
DUTY**
LIGHT ENGINE


	TECHNICAL SPECIFICATIONS
Power Consumption	200W Pf:0,95
Weight	8 Kg
Lens Material	PC
Color Temperature	4000K - 5000K
IP Rate	IP 65
Housing material	Die Casting Aluminium
Çalışma Sıcaklığı	- 40° ~ +60°
Operating Voltage	100V ~ 240V
Luminous Flux	25800 lm
Luminaire Dimensions	383mm*257mm



 Certification Number
E484783

Indoor Lighting Solutions

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EXL-01 Series

Ex-Proof Lighting



**ATEX CERTIFICATE NUMBER
IEP 16 ATEX 0437**

TECHNICAL SPECIFICATIONS

ART NO	EXL-01050U	EXL-01075U	EXL-01100U	EXL-01120U
LED Device	Cree	Cree	Cree	Cree
Lumen Output	4,925 lm (+/-5%)	6,015 lm (+/-5%)	9,195 lm (+/-5%)	11,440 lm (+/-5%)
Nominal Power Rating	50 Watts	75 Watts	96,5 Watts	120 Watts
Efficiency	98,5 lm/W	80,2 lm/W	95,3 lm/W	95,3 lm/W
Beam Angle (W/H)	90°(Standard), 60°, 120/140°	90°(Standard), 60°, 120/140°	90°(Standard), 60°, 120/140°	90°(Standard), 60°, 120/140°
Colour Temperature	5,000° Kelvin	5,000° Kelvin	5,000° Kelvin	5,000° Kelvin
Colour Rendering Index (CRI)	> 80 Ra	> 80 Ra	> 80 Ra	> 80 Ra
Lumen Maintenance	L70 > 50,000 Hours	L70 > 50,000 Hours	L70 > 50,000 Hours	L70 > 50,000 Hours
Input Voltage	90-305 Volts AC	90-305 Volts AC	90-305 Volts AC	90-305 Volts AC
Power Factor	> 0.95	> 0.95	> 0.95	> 0.95
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Anti Corrosion Grade	WF2	WF2	WF2	WF2
Insulation Grade	I	I	I	I
Cable Diameter	8-14 mm	8-14 mm	8-14 mm	8-14 mm
Screw Thread	G3/4"	G3/4"	G3/4"	G3/4"
ENVIRONMENTAL				
IP Rating	IP66	IP66	IP66	IP66
Operational Temperature	-40° to 50 °C	-40° to 50 °C	-40° to 50 °C	-40° to 50 °C
Operational Humidity	0% to 90% RH	0% to 90% RH	0% to 90% RH	0% to 90% RH
PHYSICAL				
Dimensions (φ x H)	300 x 332 x 202 mm	300 x 332 x 202 mm	300 x 332 x 202 mm	300 x 332 x 202 mm
Weight	6.3 kg	6.3 kg	6.3 kg	6.3 kg
WARRANTY				
Details	5 Years comprehensive	5 Years comprehensive	5 Years comprehensive	5 Years comprehensive

EX II 2 GD*
Zone 1
Gas class: IIC
Temperature Class: T6



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Turkey

Discover
the potential



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