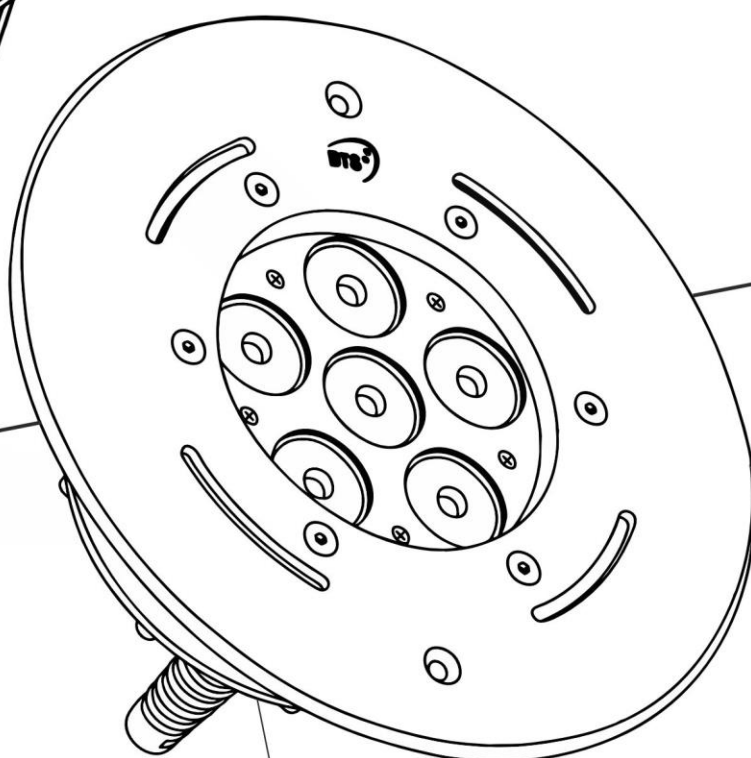
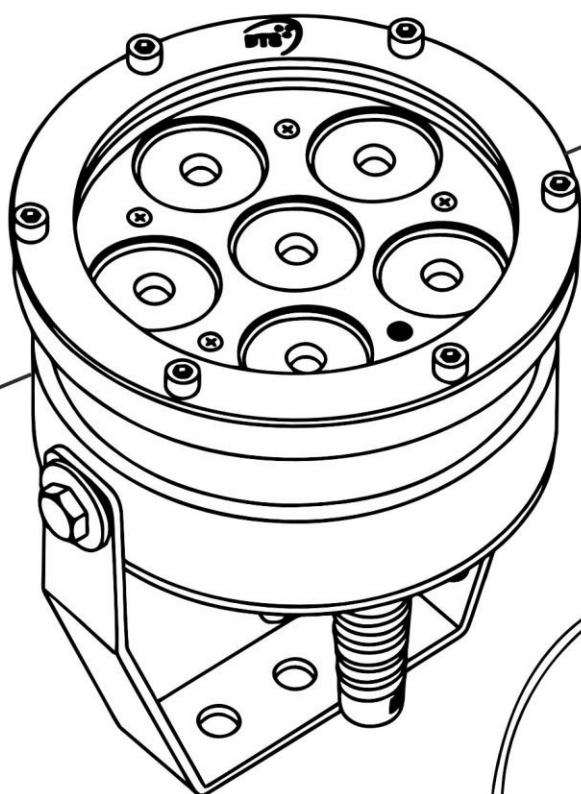


DIVE 6 N / AKHELIOS 6 N

USER'S MANUAL



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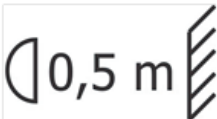
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1- SYMBOLS

Graphic symbols used on this manual:

	THIS SYMBOL INDICATES A HOT SURFACE
	THIS SYMBOL INDICATES ELECTRICSHOCK RISK
	THIS SYMBOL INDICATES GENERAL RISK
$t_a 45^{\circ}\text{C}$	THIS SYMBOL INDICATES THE MAXIMUM OPERATING AMBIENT TEMPERATURE
	THIS SYMBOL INDICATES THE MINIMUM DISTANCE FROM THE ILLUMINATED OBJECTS
	THIS SYMBOL MEANS “DO NOT STARE AT THE OPERATING LIGHT SOURCE
 Risk Group 2	THIS SYMBOL INDICATE PHOTOBIOLOGICAL SAFETY
	THIS SYMBOL INDICATES THE EUROPEAN COMMUNITY DIRECTIVE 2012/19/EU ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)
	DO NOT HANDLE LUMINAIRES BY THE FLYING LEAD CABLE OR ATTACHED CONTROLS DEVICES
	WARRANTY 5 YEARS

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The unit is not for household use and must be installed by a qualified electrician or experienced person.

ALERT : 48 Vdc supply allowed only in installations where human entry is forbidden.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 60 months from the date of purchase against manufacturing material defects.

The warranty covers defects in materials and workmanship. The warranty is not applicable where a defect is caused by misuse or unauthorised repair of the product. **Any functional or/and physical modification of the product is not allowed.**

4- TECHNICAL FEATURES DIVE 6 N

Product codes:

03.LPB101E99FC25 DIVE 6 N FC MF
03.LPB101E99FC10 DIVE 6 N FC SP
03.LPB101E99FC40 DIVE 6 N FC WF

Output

6 x 4-colors LEDs

Lumens: 2300 @ 700mA

LED lifespan: 50.000 hours (70% lumen output)

Optical group

3 lenses sets available: Narrow, Medium, Wide

Color generation

16 million colors

Wide palette of pure uniform whites with variable linear color temperature (2700K-8000K)

Power supply

Code	Name	Voltage	mA	Outputs for Drivenet	Products every release
03.LA.239	Drivenet 28C DIN	48 Vdc	700	2	2
03.LA.288	Drivenet 28 EZ	48 Vdc	700	2	2
03.LA.196	Drivenet 416	48 Vdc	700	4	2
03.LA.177	Drivenet 832	48 Vdc	700	8	2
03.LA.198	Drivenet 1664	48 Vdc	700	16	2

Code	Name	Voltage	mA	Outputs for Drivenet	Products every release
03.LA.239	Drivenet 28C DIN	24 Vdc	700	2	1
03.LA.177.V2	Drivenet 832	24 Vdc	700	8	1
03.LA.195	Drivenet 1664	24 Vdc	700	16	1

Power consumption

60 W max

Connections

End-stripped 8-pole cable

Operating temperature

+ 1° / + 45°C

Storage temperature

-40° / + 85°C

Physical

IP68

IK rating: IK10

Housing: Bronze / Stainless steel 316

Weight: 3.7 Kg

Beware

Underwater installation only allowed

Never make the joints of the cables in water

Certifications



5- TECHNICAL FEATURES AKHELIOS 6N

Product codes:

03.LPS101E99FC25 AKHELIOS 6 N FC MF

03.LPS101E99FC10 AKHELIOS 6 N FC SP

03.LPS101E99FC40 AKHELIOS 6 N FC WF

Output

6 x 4-colors LEDs

Lumens: 2300 @ 700mA

LED lifespan: 50.000 hours (70% lumen output)

Optical group

3 lenses sets available: Narrow, Medium, Wide

Color generation

16 million colors

Wide palette of pure uniform whites with variable linear color temperature (2700K-8000K)

Power supply

Code	Name	Voltage	mA	Outputs for Drivenet	Products every release
03.LA.239	Drivenet 28C DIN	48 Vdc	700	2	2
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Power consumption

60 W max

Connections

End-stripped 8-pole cable

Operating temperature

+ 1° / + 45°C

Storage temperature

-40° / + 85°C

Physical

IP68

IK rating: IK10

Housing: Bronze / Stainless steel 316

Weight: 3.9 Kg

Beware

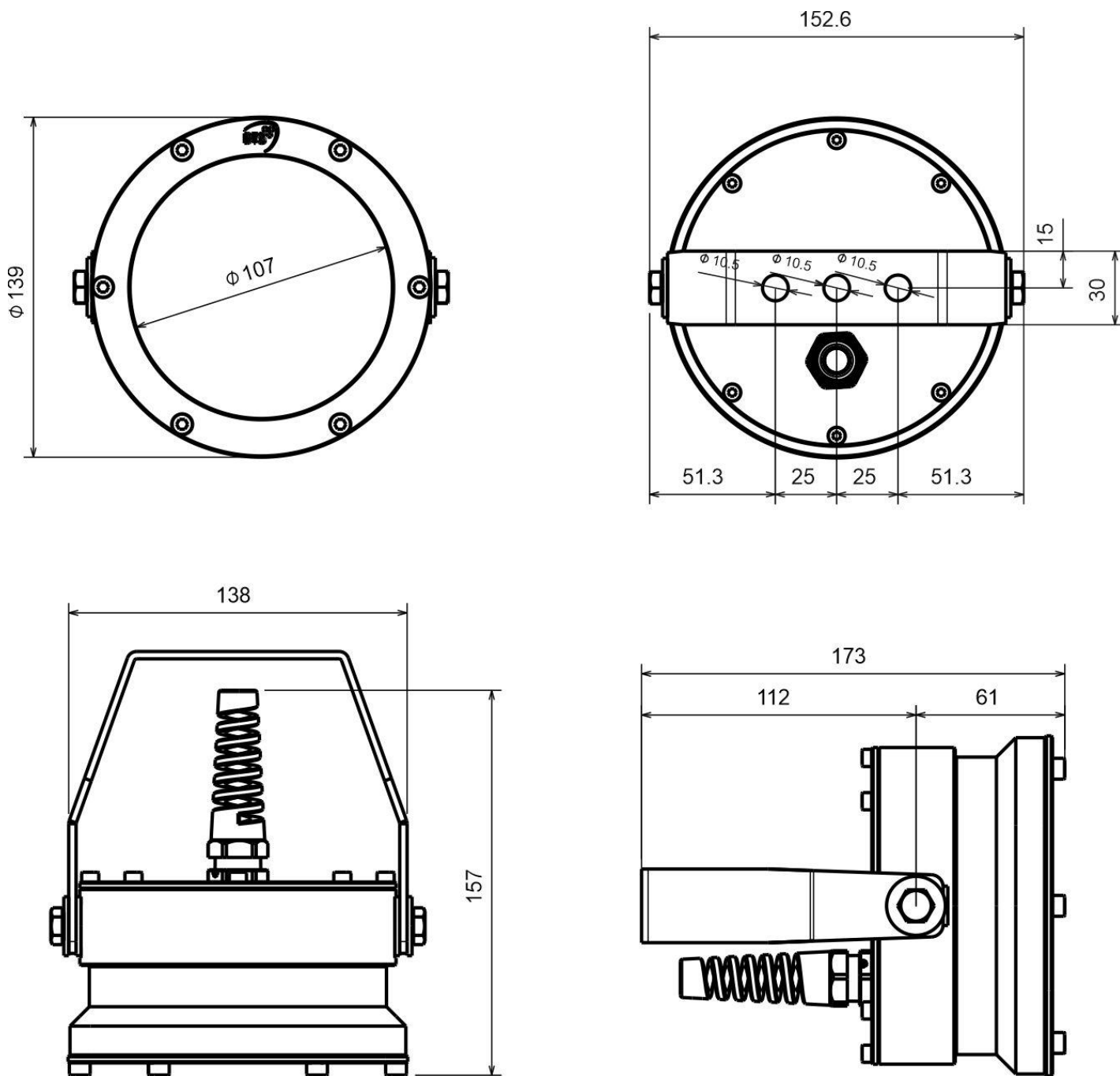
Underwater installation only allowed

Never make the joints of the cables in water

Certifications



DIMENSIONS DIVE 6 N



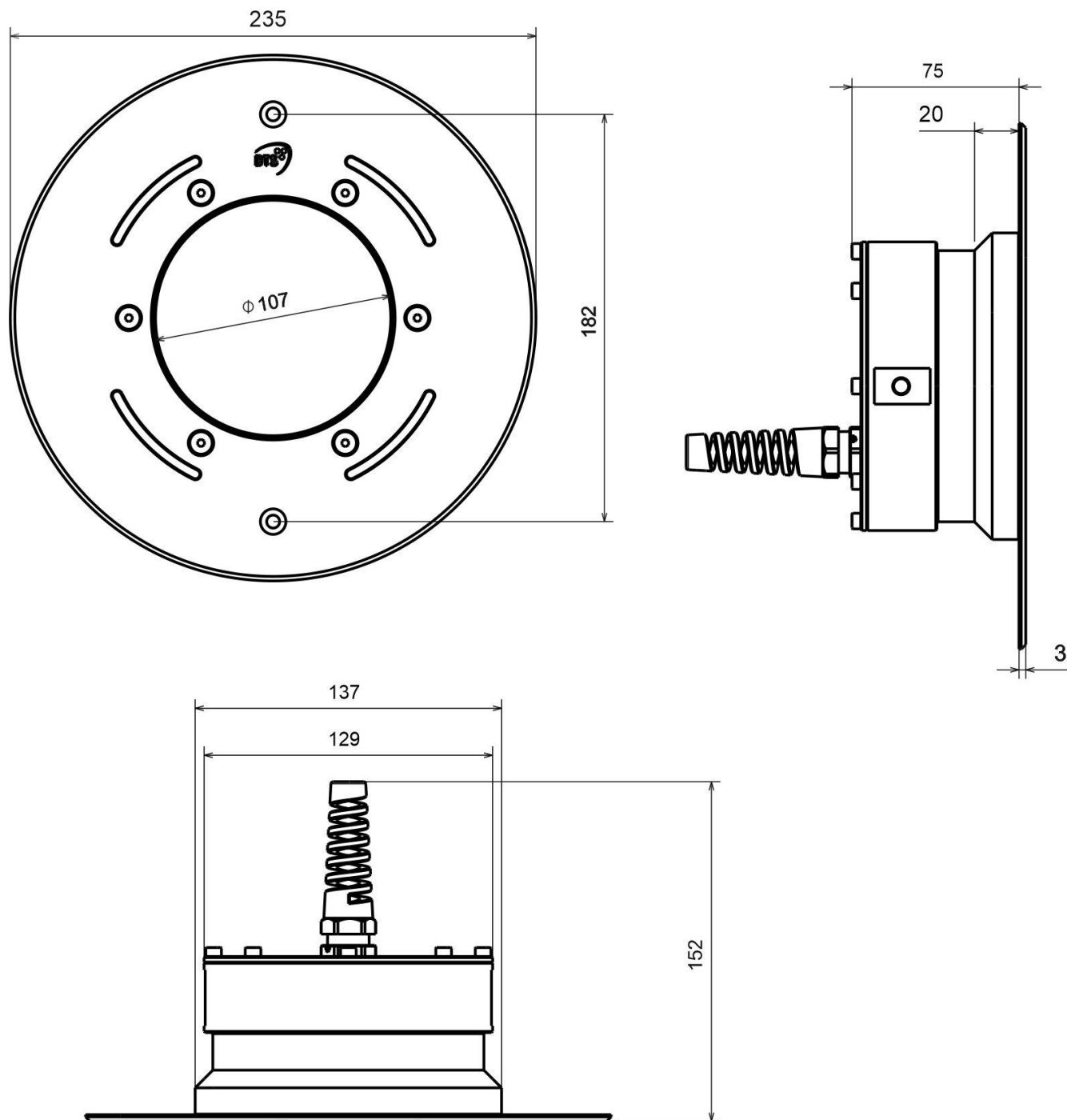
5- ACCESSORIES DIVE 6 N

Optional (on request)

- 8-pole underwater cable (code 0509C159)

- HUB – IP56 Screw terminals 1 IN / 3 OUT (code 03.LA.131.IP56)
- HUB – IP20 Screw terminals 1 IN / 3 OUT (code 03.LA.131)

DIMENSIONS AKHELIOS 6 N



5- ACCESSORIES AKHELIOS 6 N

Optional (on request)

- 8-pole underwater cable (code 0509C159)
- HUB – IP56 Screw terminals 1 IN / 3 OUT (code 03.LA.131.IP56)

- HUB – IP20 Screw terminals 1 IN / 3 OUT (code 03.LA.131)
- Outercase stay-in-place casting form (code 03.LA.078.V1)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:



Minimum distance from the closest illuminable surface: 0,5 m.

6.2 Prevention of electric shock:



Class II LED product according to standard IEC 60598-1.

6.3 Safety:



Risk group 2 product according to IEC 62471.

Risk Group 2

CAUTION. Do not look directly into the light output. May be harmful to the eyes and skin.

Do not stare at the operating light source.

The unit is not for household use and must be installed by a qualified electrician or experienced person.

LEDs are not replaceable.

The external surface of the unit may exceed 50°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

Never install the unit in an enclosed area lacking sufficient air flow.

The ambient temperature should not exceed 45°C. $t_a 45^{\circ}\text{C}$

Refer to local norms in case of underwater installation. Max immersion depth: 2 m.



6.4 Maintenance:



They are made of Bronze and 316 Stainless Steel.

Bronze:

Bronze is a durable material with strong anti-corrosion properties.

Bronze can be easily scratched or marred with improper care and it oxidizes if not periodically maintained. Routine cleaning and polishing are required in order to maintain the brilliance of the surface.

Always wear clean gloves when handling the unit, direct contact with bare hands may cause a fast oxidation of the handled surface.

Do not expose the unit to air contaminants as heavy exhaust or solvent fumes.

Do not use cleaning or polishing products containing harsh chemicals (ammonia or chlorine) or abrasive chemicals.

Do not use any cleaning towels that are abrasive. Use only microfiber towels. If unsure about the suitability of a product for cleaning bronze, contact DTS.

Maintenance period can vary depending on water quality and environment conditions.

6.4 Maintenance:



316 Stainless Steel:

316 Stainless Steel is a durable material with strong anti-corrosion properties. With proper care and maintenance, it will maintain an optimal appearance over a long service life.

Exposure to high-saline environments, chlorides, abrasive chemicals, or carbon steel will diminish its anti-corrosion properties and increase the risk of damage.

Always wear clean gloves when handling the unit.

Do not weld, cut, drill or grind carbon steel near the unit before installation. Resulting particles will contaminate and rust stainless steel.

Do not clean stainless steel in direct sunlight or excessive temperatures.

Do not use cleaning products containing chlorides (i.e. hydrochloric acid) or other abrasive chemicals. Do not use high-pressure cleaners.

If unsure about the suitability of a product for cleaning stainless steel, contact DTS.

Routine cleaning with soap and water is usually sufficient to maintain the corrosion resistance and appearance of 316 Stainless Steel. Use a soft nylon brush to remove any accumulated dirt.

Wash with mild soap or detergent, then rinse in clean water and wipe dry with a soft cloth.

If signs of corrosion appear, clean immediately. To avoid progression of damage, identify and address problems as early as possible.

Heavy damage includes structural compromises such as visible dents, cracks, breaks and rust that can undermine the integrity of a product. Heavily damaged products should be removed from service until a repair or replacement can be made. To prevent worsening of damage, any significant rust should be removed as soon as possible.

If any parts are broken or missing, contact DTS to determine the availability of replacements.

Replace any screw only by 316 stainless steel screws. To replace cable or gaskets, contact DTS. Maintenance period can vary depending on water quality and environment conditions.

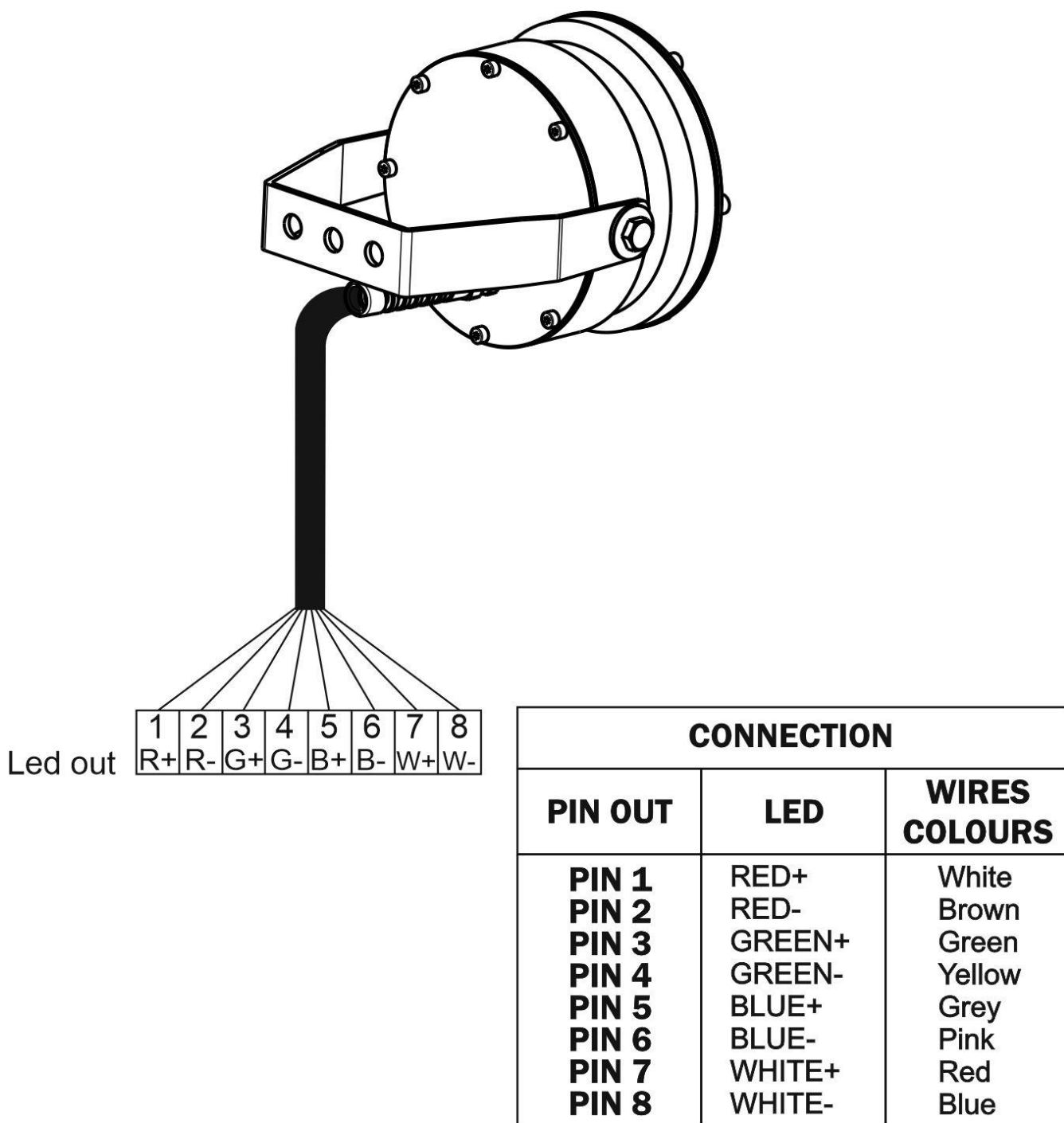


6.5 Waste Electrical and Electronic Equipment (WEEE) directive:

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

For EC countries: according to the European Directive 2012/19/EU for Waste Electrical and Electronic Equipment and its implementation into national right, luminaires that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

7- CONNECTIONS DIVE 6 N

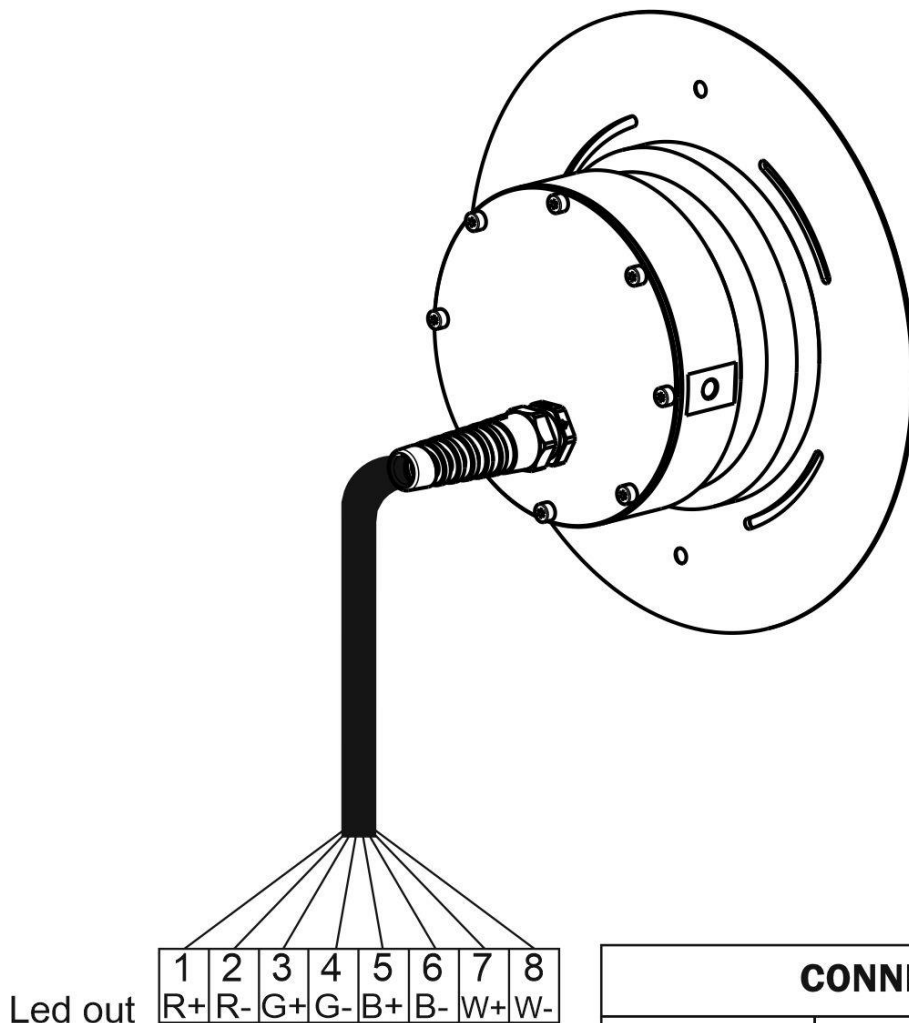


DIVE 6 N is provided with an end-stripped 8-pole cable

The maximum distance between DRIVENET PSU and DIVE 6 N 48 Vdc unit should not exceed 250 meters.

The maximum distance between DRIVENET 832 PSU and DIVE 6 N unit should not exceed 80 meters.

7- CONNECTIONS AKHELIOS 6 N



CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED+	White
PIN 2	RED-	Brown
PIN 3	GREEN+	Green
PIN 4	GREEN-	Yellow
PIN 5	BLUE+	Grey
PIN 6	BLUE-	Pink
PIN 7	WHITE+	Red
PIN 8	WHITE-	Blue

AKHELIOS 6 N is provided with an end-stripped 8-pole cable

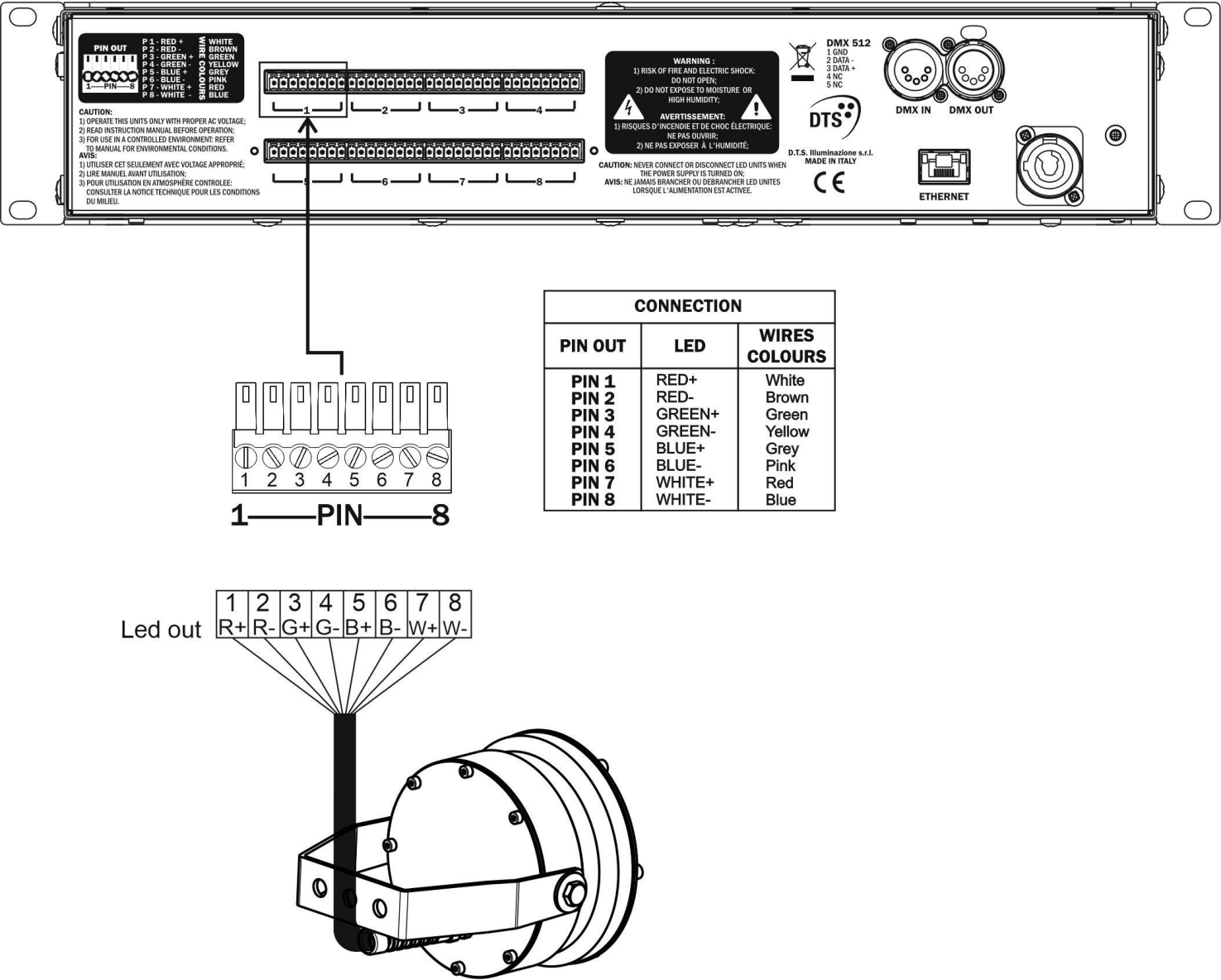
The maximum distance between DRIVENET PSU and AKHELIOS 6 N 48 Vdc unit should not exceed 150 meters.

The maximum distance between DRIVENET 832 POWER PSU and AKHELIOS 6 N unit should not exceed 40 meters.

8- CONNECTION DIAGRAMS

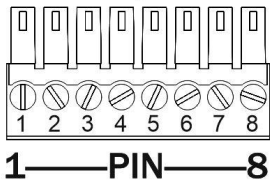
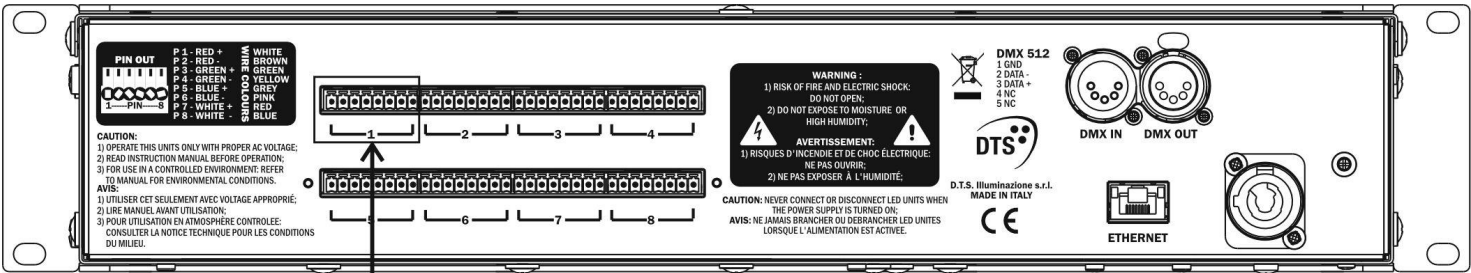
DIVE 6 N 24Vdc

The maximum distance between DRIVENET PSU and DIVE 6 N 24Vdc unit should not exceed 80 meters.

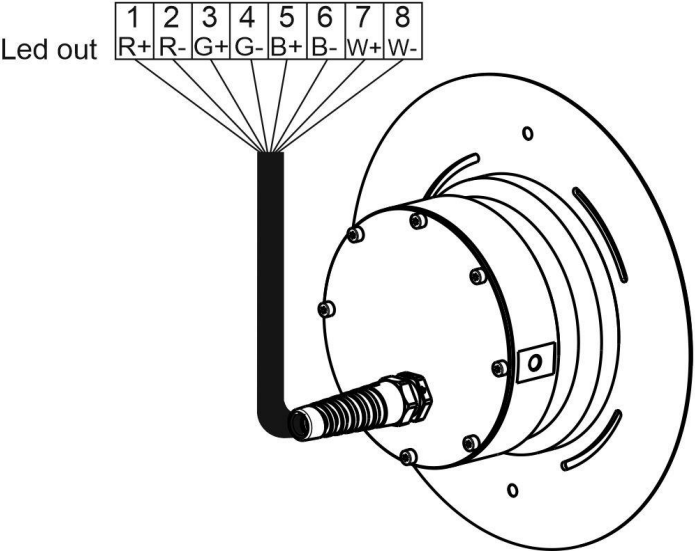


AKHELIOS 6 N 24Vdc

The maximum distance between DRIVENET PSU and AKHELIOS 6 N 24Vdc unit should not exceed 80 meters.

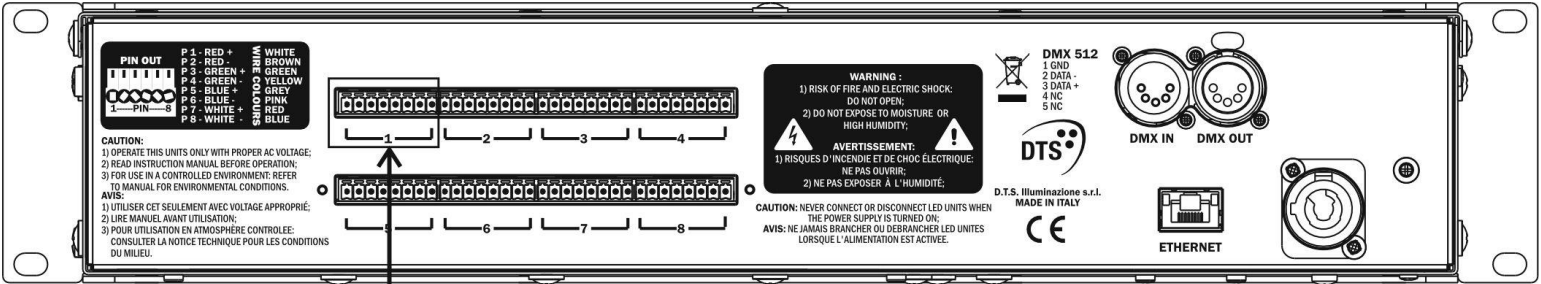


CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED+	White
PIN 2	RED-	Brown
PIN 3	GREEN+	Green
PIN 4	GREEN-	Yellow
PIN 5	BLUE+	Grey
PIN 6	BLUE-	Pink
PIN 7	WHITE+	Red
PIN 8	WHITE-	Blue

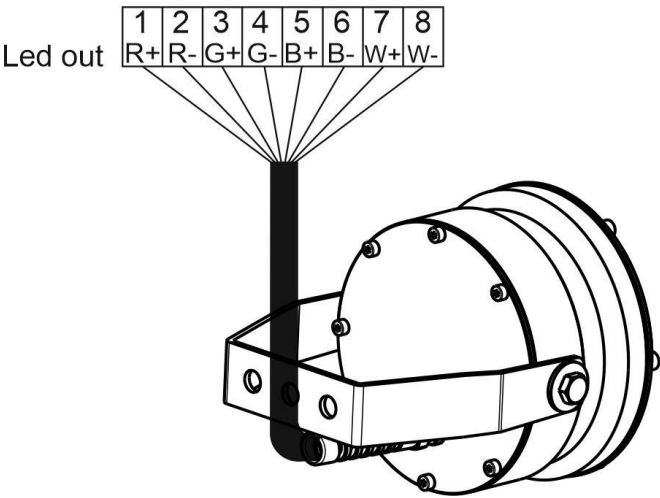


DIVE 6 N 48Vdc

The maximum distance between DRIVENET PSU and DIVE 6 N 48Vdc unit should not exceed 250 meters.

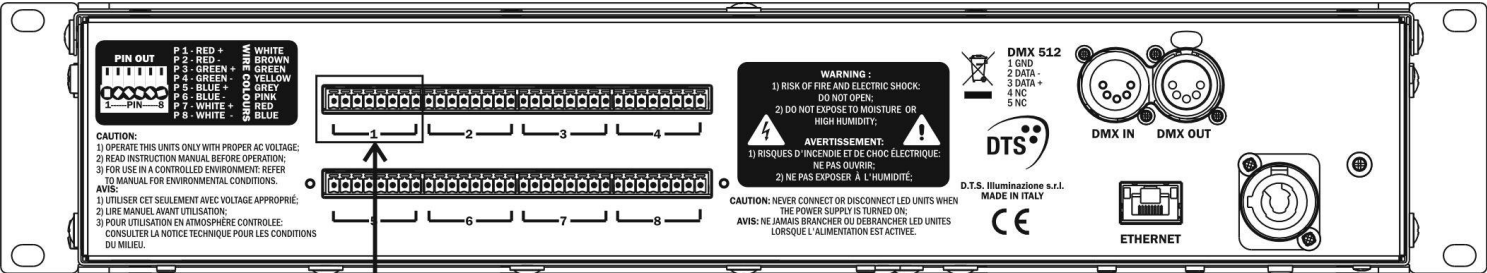


CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED+	White
PIN 2	RED-	Brown
PIN 3	GREEN+	Green
PIN 4	GREEN-	Yellow
PIN 5	BLUE+	Grey
PIN 6	BLUE-	Pink
PIN 7	WHITE+	Red
PIN 8	WHITE-	Blue

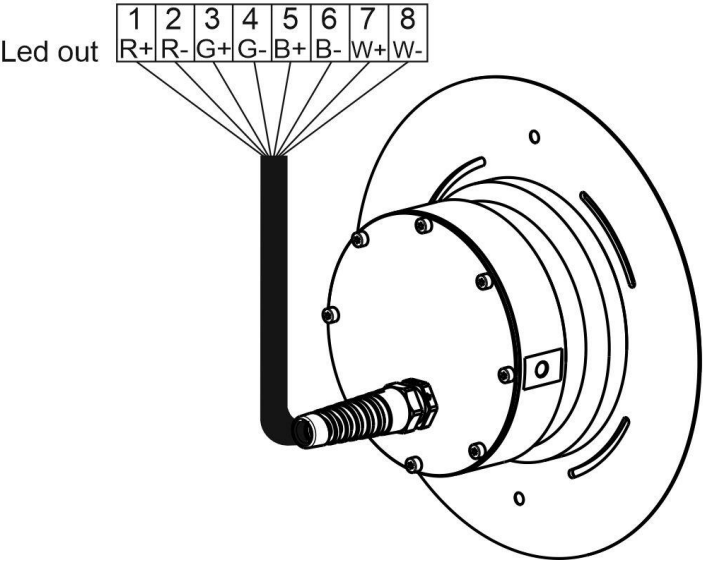


AKHELIOS 6 N 48Vdc

The maximum distance between DRIVENET PSU and AKHELIOS 6 N 48Vdc unit should not exceed 250 meters.



CONNECTION		
PIN OUT	LED	WIRES COLOURS
PIN 1	RED+	White
PIN 2	RED-	Brown
PIN 3	GREEN+	Green
PIN 4	GREEN-	Yellow
PIN 5	BLUE+	Grey
PIN 6	BLUE-	Pink
PIN 7	WHITE+	Red
PIN 8	WHITE-	Blue



ISO 9001:2015

DTS quality system is
certified to the ISO
9001:2015 standard.



**ITALIAN
PROFESSIONAL
LIGHTING**

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