



IP68 gel insulated junction device with spring connector

LEDJOY® is a revolutionary gel insulated junction device with IP68 protection level for connecting small cross-section cables from 0.5 to 2.5 mm², compliant with EN60998-2-2 standard.

Its innovative design, patented solutions, and an advanced manufacturing process guarantee high and reliable performances under all conditions and in narrow spaces.

PATENTED SOLUTIONS

Co-moulding technology
used to make the outer protective shell, guarantees perfect assembly of the rigid mechanical protection part and the watertight gaskets, which also prevent the entry of foreign bodies. It also reduces the number of components to be assembled.



Cable blocking system
specially designed and easy to apply without tools and tightening screws, increases the safety of the connection **securing the cable in the event of traction** or external mechanical stress.



Flexible walls
for gel retention, made using co-moulding technology. They easily adapt to the outer surface of the installed cable, with no need to break or remove the rigid walls.



Minimum size, maximum performance
With its compact circular shape and small size, LEDJOY® can also be installed in narrow spaces, and can be used in cable ducts, corrugated pipes, poles, and supporting structures, with no need for supplementary junction boxes. LEDJOY® is easy and quick to instal also in limited operating space as it requires no tools, cable gland or components to be pulled over the cables.



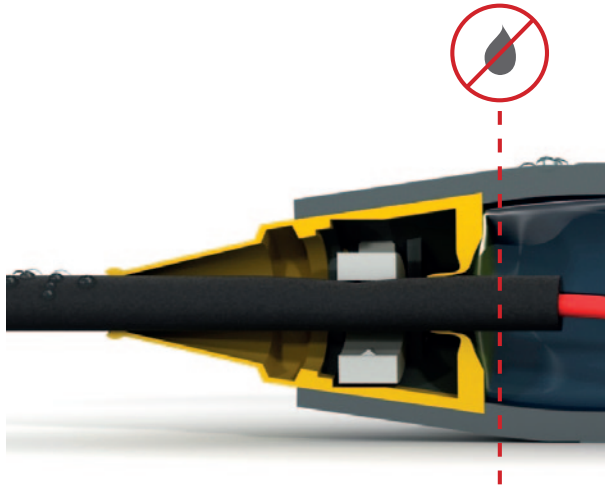
Special insulated spring connector
included in the kit, makes the connection quick and easy with no need for tightening tools, and **guarantees excellent electrical performances** together with a high resistance to traction without compromising the integrity of narrow cross-section conductors.



THE SAFETY OF GEL TECHNOLOGY

Zero capillarity

The silicone gel inside LEDJOY® guarantees high long-term protection and insulation, preventing moisture entering the shell and the rise of moisture along the cable due to capillary action, a frequent cause of damage to appliances (especially LED lighting fixtures).



Re-enterable connection

The features of LEDJOY® allow quick and easy re-entry in the connection, with no need for complicated dismantling.



Total protection under all installation conditions

The patented solutions make LEDJOY® an excellent tool for installation outdoor, overhead, underground, and permanent immersion, guaranteeing an IP68 protection level: total protection from dust, water, debris, and the elements.



Eco-friendly

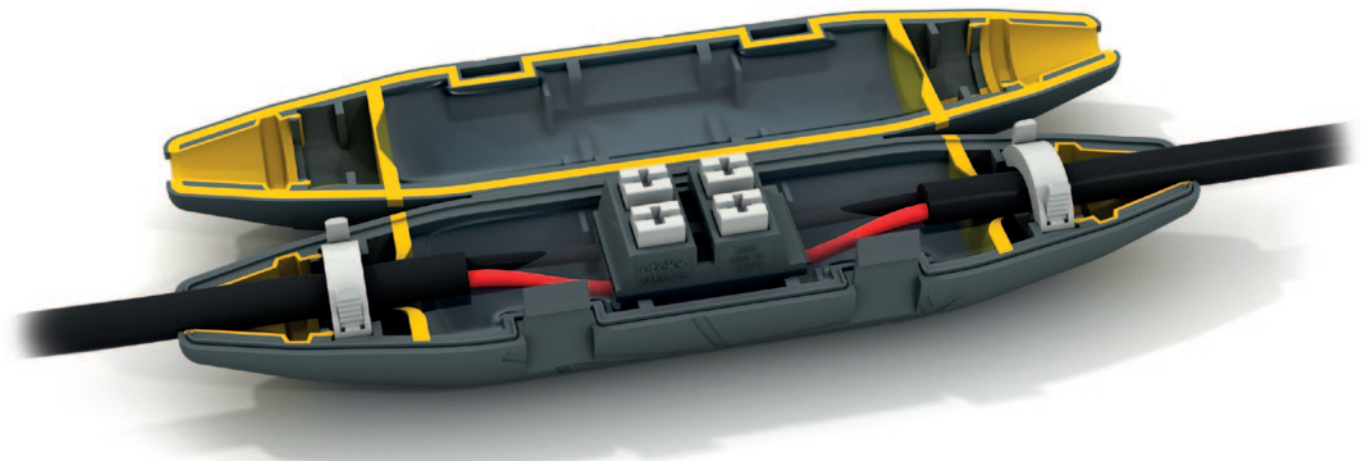
The gel inside LEDJOY® is non-toxic, and has no expiry date. Its ability to protect and insulate connections does not change with time and resists wide temperature variation (-60 / 200 °C). It is classified as a non-hazardous product under European Regulation no. 1272/2008 (CLP).



Versatility of use

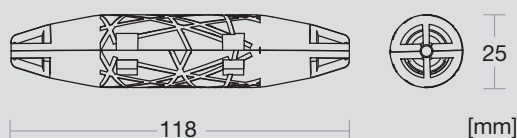
LEDJOY® is suitable for a variety of lighting applications:

- Urban lighting (street lighting systems, road and carriageway signs)
- Indoor lighting (residential, ambient, fairs)
- Outdoor civic lighting (gardens, fountains, walkover ground lighting)
- Video-surveillance systems
- Industrial and civil automation (barriers, gates, machine board systems)





- Compliant with EN 60998-2-2 standard
- **IP68 protection level** (in accordance with CEI EN 60529 standard)
- Double insulation
- Self-extinguishing (in accordance with EN 60695-2-11 standard)
- Low smoke and toxic gas emission (in accordance with CEI 20-37/2-1 and CEI 20-37/4 standards)
- Operating temperature: -20 to +90 °C
- Compliant with Directive 2011/65/UE (RoHS 2)
- Silicone gel inside the shell classified as non-hazardous product under European Regulation no. 1272/2008 (CLP)
- **Two-core spring connector**
Conductor cross-section (rigid and flexible): 0.5–2.5 mm²
Rated voltage 450 V
Rated current 24 A



Applications

- Urban lighting (street lighting systems, road and carriageway signs)
- Indoor Lighting (residential, ambient, fairs)
- Outdoor civil lighting (gardens, fountains, walkover ground lighting)
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Led Joy



IP68 gel insulated junction device

Two-core connector with spring-loaded clamps included

Advantages

- Quick and reliable installation without tools in case of limited operating space
- Reduced number of parts to be assembled
- No cable gland or components to be pulled over the cables
- No rising of moisture along the cable due to capillary action
- Total protection from dust, water, debris, and the elements
- Installation in narrow spaces
- Compact size for installation in cable ducts, corrugated pipes, poles
- Mechanical safety securing the cable in the event of traction or external mechanical stress
- Re-enterable connection
- Versatility of use
- Halogen free
- Eco-friendly

Kit contents

- Co-moulded shell with integrated gaskets and snap-shut closure
- Cable blocking system
- Two-core insulated connector with spring-loaded clamps

Table of use

| item | number of cores | conductor cross-section (mm ²) | rated voltage (V) | rated current (A) |
|--------|-----------------|--|-------------------|-------------------|
| LEDJOY | 2 | 0.5–2.5 | 450 | 24 |