

***Qoltec***<sup>®</sup>



## **SAFETY WARNINGS FOR USE FIBRE OPTIC JOINTS**

The following list of safety warnings has been compiled in accordance with the requirements of the General Product Safety Regulation (EU) 2023/988 (GPSR). Its purpose is to protect users from potential hazards arising from the misuse of products. The warnings are worded in a simple and understandable way to be accessible to a wide audience, including the elderly and people with reduced mobility.

The fibre optic couplers on offer from manufacturer NTEC sp. z o.o. are CE certified, which indicates their compliance with EU safety standards.

Use fibre optic couplers in accordance with their intended use and the manufacturer's recommendations.

### **BASIC HAZARDS AND PRECAUTIONS**

#### **1. Mechanical risks**

- Damage to the optical fibres during installation of the coupler (e.g. excessive force during cable clamping).
- Possibility of breaking or destroying the fibre fixings inside the coupler.

#### **2. Risk of contamination**

- Contamination of fibres (dust, moisture, grease) during improper closure of the coupler or when working outdoors.
- Contamination of the fibre connectors during handling of the cables inside the coupler can significantly reduce the transmission quality.

#### **3. Optical risks**

- Visual exposure to optical radiation when active fibres are incorrectly diagnosed.

### **SPECIFIC OPERATIONAL HAZARDS**

#### **4. Water and environmental risks**

- Water or moisture penetration with improper closure or damage to the coupler seal, which can lead to corrosion and signal loss.
- Exposure to UV radiation or extreme temperatures can cause degradation of the coupler material and components.

#### **5. Risk of mechanical damage during operation**

- Accidental damage to the coupler during maintenance or construction work in its vicinity.
- Too small a bending radius of the optical fibres inside the coupler can cause signal attenuation or even fibre breakage.

#### **6. Compatibility risks**

- The use of unsuitable inserts, splice trays or sealing materials can lead to leakage or malfunction of the coupler.

#### **7. Risk of physical injury**

- Injuries when handling fibre optic cables or using sharp tools (e.g. knives to remove cable sheaths).

#### **8. Risks associated with incorrect installation**

- Incorrect positioning of fibre optics on the trays can lead to damage or signal interruption.
- Using the wrong method of sealing or capping the coupler can result in leaks and subsequent failures.

#### **9. Environmental risks - underground works**

- Installing couplers in areas prone to flooding or ground subsidence increases the risk of damage.
- Ground vibrations (e.g. near roads or railway tracks) can affect the stability of the coupler and the joints inside it.

## MAINTENANCE PRECAUTIONS

### 10. Cleaning:

- Lack of regular cleaning and maintenance of the optical components in airtight couplers can reduce the quality of the connection.

### 11. Maintenance of the unit:

- Failure to check the condition of the seals and closures of the coupler can lead to a gradual loss of tightness.
- If malfunctions are found, contact an authorised service centre.

## ADDITIONAL WARNINGS

### 12. Danger to children:

- Keep the unit out of the reach of children.

### 13. Avoid modifications:

- Do not attempt to modify or repair the device yourself. In case of problems, contact the manufacturer or its authorised service centre.

### 14. Action in case of malfunction:

- If the appliance exhibits abnormal operation such as overheating, sparking, unusual odour or sounds, immediately switch it off and disconnect it from the power supply and then contact the service centre.
- If you observe any dangerous behaviour of the product, contact the manufacturer urgently.

## IMPORTANCE OF COMPLYING WITH WARNINGS

Following the above warnings minimises the risk of personal injury, equipment failure and property damage. Ignoring the recommendations can lead to serious health and material risks. Keep yourself and your loved ones safe by observing the precautions indicated.

## PRODUCER

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