

Information

Dangers of fake E-2000™ components and how you can protect yourself

Situation

More and more fake R&M E-2000™ connectors, adapters and assemblies are appearing on the market. The operator of an installed network is often unaware that imitations were used in his network instead of original components.

The dangers of distributing fake products

The last property right on the E-2000 connector will expire in July 2017 (the patent is owned by Diamond SA, Switzerland).

The trade name E-2000™ will remain protected, however, and may only be used by R&M, Diamond and H+S.

The brand name R&M is also protected worldwide.

It is therefore a prosecutable act:

- to sell or install components labeled E-2000™ without owning the necessary trademark rights.
- to sell or install fake products labeled as R&M products.

Operating risks

Regarding IL and RL values listed in the production protocols and measured immediately after manufacturing, imitations may appear identical because these values mainly depend on the precision of the ferrule.

It is only during operation (ageing process) that the differences between original and fake come into effect and diminish the quality of the light transmission.

The external factors that have an affect during operation (on metal, plastic, connecting points) of a plugged connection are:

- Air humidity
- Temperature changes
- Vibrations
- Multiple insertions (maintenance, MAC)
- Pressing and tensile forces
- Compatibility deficiency to licensed E-2000™ manufacturers
- Flammability of the plastic parts

Dangers regarding the environmental standards

R&M E-2000™ components are tested and certified to comply with various standards:

- RoHS
- REACH
- UL
- GHMT
- local and regional regulations

Critical applications

The mechanical stability of a plugged connection is critical with the following applications:

- Grade A, grade B and grade C performance acc. to IEC 61753-1 (IL/RL under load)
 - Operating temperature
 - Mating cycles
 - Tensile test
 - Bending test
- High-power transmissions (> 0.5 Watt)
- Specifications operating conditions
 - Class C (-10 / +60)
 - Class U (-25 / +70)
 - Class E (-40 / +85)

Conclusion

Original R&M connectors are designed for durability and dimensional stability and they guarantee the flawless functioning of the optical and mechanical connection over the entire course of their operating life. Original R&M connectors are tested and certified in accordance with prevailing environmental standards and ensure the fulfillment of environmentally relevant requirements and guidelines – R&M's E-2000™ components have proven their worth time and again for over 15 years on the market.



Fight the fakes

R&M supports its E-2000™ customers to spot fakes and to take action against it in the markets.

- Use the list with the most common differences between fake and original components.
- Support provided by R&M
 - Analysis

Our specialists at R&M will gladly help you with any question or query.

Contact: local sales / hermann.christen@rdm.com