

## **Insulated Ring Terminal RVL 2-3.5 – Secure Crimp Connector for Reliable Electrical Connections**

The **Insulated Ring Terminal RVL 2-3.5** is a high-quality electrical crimp connector designed to provide safe, durable, and vibration-resistant wire terminations across a wide range of electrical and electronic applications. Manufactured for professional electricians, technicians, and industrial users, this insulated ring terminal delivers consistent electrical performance, excellent mechanical strength, and enhanced safety through its insulated design.

Designed for **16–14 AWG (1.5–2.5 mm<sup>2</sup>)** copper conductors and **3.5 mm stud or screw connections**, the RVL 2-3.5 ring terminal is ideal for automotive wiring, industrial control panels, power distribution systems, appliances, and general electrical installations. Its closed-loop ring design ensures a permanent and secure connection that will not loosen or slip off once installed.

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Insulated Ring Terminal RVL

2-3.5[/caption]

### **High-Conductivity Tin-Plated Copper Construction**

The conductive body of the RVL 2-3.5 insulated ring terminal is made from **high-purity copper**, a material well known for its superior electrical conductivity and long service life. Copper minimizes electrical resistance, reduces heat buildup, and ensures efficient current flow throughout the connection.

To further enhance durability and performance, the copper surface is **tin-plated**, providing strong resistance to corrosion, oxidation, and environmental exposure. Tin plating also improves compatibility with copper conductors and helps maintain a stable electrical connection over time, even in humid or vibration-prone environments.

Learn more about the benefits of tin-plated copper conductors here:

<https://www.electricalengineeringtoolbox.com/benefits-of-tin-plated-copper.html>

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### **Durable PVC Insulation for Enhanced Safety**

The RVL 2-3.5 terminal is fitted with a **high-quality PVC (vinyl) insulation sleeve** that covers the crimp barrel. This insulation provides essential protection against accidental contact with live electrical components, helping reduce the risk of short circuits, electrical shock, and equipment damage.

The **blue insulation color** allows for quick and easy identification of the compatible wire size during installation, improving efficiency and reducing wiring errors. In addition, the insulation offers strain relief at the wire entry point, protecting the conductor from mechanical stress and extending the life of the connection.

More about insulated electrical terminals and safety standards can be found at:

[https://www.electronics-notes.com/articles/basic\\_concepts/components/connectors/insulated-terminals.php](https://www.electronics-notes.com/articles/basic_concepts/components/connectors/insulated-terminals.php)

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### **Ring Terminal Design for Maximum Connection Security**

Unlike fork or spade terminals, the **ring terminal design** of the RVL 2-3.5 creates a fully enclosed connection around the screw or stud. This design ensures that the terminal remains securely fastened even in high-vibration environments such as automotive engines, industrial machinery, or electrical enclosures.

Once the screw or bolt is tightened, the ring terminal cannot slip free, making it the preferred choice for grounding connections, power distribution points, and safety-critical circuits.

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## Reliable Crimp Termination

The RVL 2-3.5 insulated ring terminal is designed for **crimp termination**, allowing installers to create a strong mechanical and electrical bond using standard crimping tools. A proper crimp forms a gas-tight connection that resists loosening, corrosion, and thermal cycling.

Crimped connections are widely used in professional electrical installations due to their reliability and consistency. When installed correctly, crimp terminals often outperform soldered joints in vibration-intensive environments.

For guidance on proper crimping techniques, visit:

<https://www.te.com/usa-en/products/terminal-blocks-connectors/insulation-displacement-connectors/crimping-basics.html>

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## Wide Range of Applications

The **Insulated Ring Terminal RVL 2-3.5** is suitable for numerous applications, including:

- Automotive electrical systems and grounding points
- Industrial control panels and automation equipment
- Power distribution boards and switchgear
- Household appliances and HVAC systems
- Lighting installations and electrical cabinets
- Renewable energy systems and battery connections

Its secure design and dependable performance make it a trusted solution in both professional and residential electrical environments.

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## Product Specifications

- Product type: Insulated ring terminal
- Model: RVL 2-3.5
- Wire size compatibility: 16–14 AWG (1.5–2.5 mm<sup>2</sup>)
- Stud size: 3.5 mm
- Conductor material: Tin-plated copper

- Insulation material: PVC (vinyl)
- Insulation color: Blue
- Termination method: Crimp

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### **Why Choose the RVL 2-3.5 Insulated Ring Terminal?**

The RVL 2-3.5 insulated ring terminal offers an ideal balance of **electrical performance, mechanical security, and installation safety**. Its robust materials, corrosion-resistant finish, and fully enclosed ring design ensure long-lasting, maintenance-free connections. Whether used in demanding industrial environments or everyday electrical projects, this terminal provides reliability you can trust.