



Corona Ring OD-650x500

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Corona Ring OD-650x500

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At MM POWERLINE TRANSMISSION, we are committed to the highest standards of safety, reliability, and efficiency in our power transmission networks. A key component that helps us achieve these goals is the Corona Ring (OD – 650 x 500). This vital piece of equipment plays an essential role in reducing electrical stress, preventing damage to conductors and insulators, and ensuring the smooth operation of transmission lines. In this article, we will explore the features, functions, and significance of the Corona Ring (OD – 650 x 500) in our transmission infrastructure.

What is a Corona Ring (OD – 650 x 500)?

The Corona Ring (OD – 650 x 500) is a specialized device designed to reduce corona discharge and improve the performance of overhead power transmission lines. Corona discharge occurs when the electric field around a conductor is strong enough to ionize the air surrounding it, causing energy loss, reduced efficiency, and potential damage to insulators and other components. The corona ring is strategically placed around conductors to smooth out the electric field, thus preventing corona effects and ensuring a longer service life for the transmission line.

The designation OD – 650 x 500 refers to the dimensions of the corona ring, where the outer diameter is 650mm and the inner diameter is 500mm. This specific size is designed to match the dimensions of particular conductor types, providing optimal performance for various transmission line configurations.

Key Features

- 1. Durable Construction:** The Corona Ring (OD – 650 x 500) is constructed from high-quality materials, typically stainless steel or aluminum. These materials offer exceptional resistance to corrosion, high voltage, and environmental wear, ensuring long-lasting durability and performance.
- 2. Efficient Design:** The design of the corona ring allows it to evenly distribute the electric field around the conductor, thereby minimizing the likelihood of corona discharge. This prevents damage to the conductor and other components, enhancing the overall transmission system's efficiency.
- 3. Precision Fit:** The Corona Ring (OD – 650 x 500) is designed to fit specific conductor types, ensuring compatibility and precise functionality. Its exact dimensions help maintain the balance and integrity of the transmission system.
- 4. Simple Installation:** Designed for ease of installation, the corona ring can be quickly mounted on the conductors, reducing downtime during setup and maintenance. This ensures that the transmission system can operate with minimal disruptions.

Functions of the Corona Ring (OD – 650 x 500)

- 1. Preventing Corona Discharge:** The primary function of the Corona Ring (OD – 650 x 500) is to reduce the electrical stress around the conductor, which prevents the occurrence of corona discharge. By maintaining a more uniform electric field, the ring ensures that the transmission system operates efficiently without energy loss or damage to components.
- 2. Protecting Insulators:** The corona ring helps to protect the insulators by reducing the stress that corona discharge would place on them. This leads to improved insulator lifespan and less frequent maintenance.
- 3. Enhancing Power Transmission Efficiency:** By preventing corona discharge, the corona ring reduces energy loss in the transmission system, improving the overall efficiency of power delivery. This contributes to a more reliable and consistent power supply.
- 4. Improving Safety:** The Corona Ring (OD – 650 x 500) plays a significant role in ensuring the safety of the power transmission system. By reducing the occurrence of corona discharge and ensuring that the electrical field is evenly distributed, the ring helps prevent electrical faults, safeguarding both the equipment and personnel.

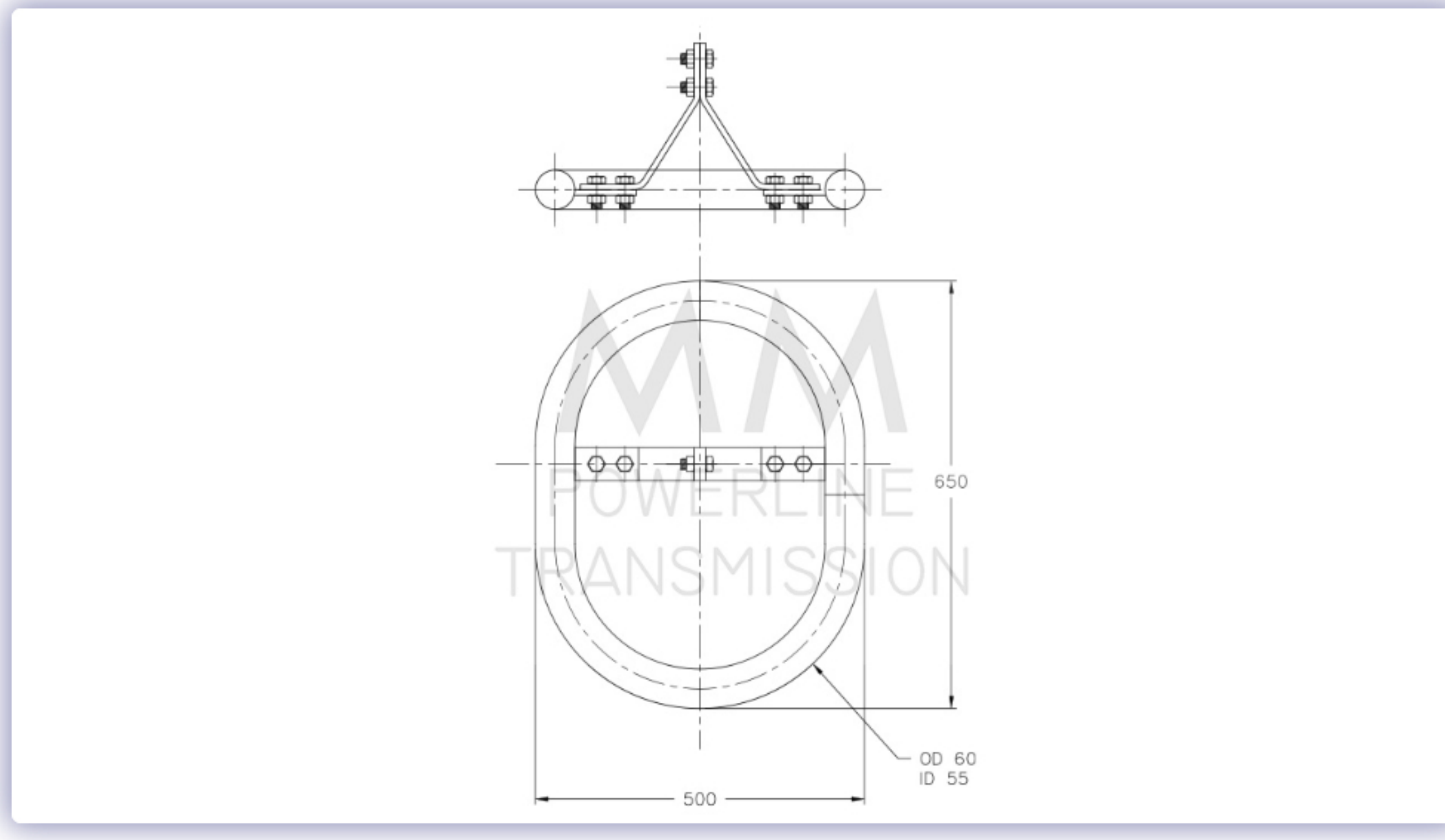
Importance in Transmission Line Systems

The Corona Ring (OD – 650 x 500) is vital for the following reasons:

- **Safety:** The primary purpose of the corona ring is to enhance the safety of the transmission system. By preventing corona discharge and the associated risks of electrical failure, the ring protects both personnel and equipment from potential hazards.
- **Reliability:** Reliable transmission is essential for consistent power delivery. The Corona Ring (OD – 650 x 500) ensures that electrical energy is transmitted without losses or disruptions, contributing to the overall reliability of the power grid.
- **Cost Efficiency:** The Corona Ring (OD – 650 x 500) contributes to cost savings by extending the lifespan of the conductors and insulators and reducing the need for frequent maintenance. This lowers operational costs and ensures the system remains efficient over the long term.

Conclusion

The Corona Ring (OD – 650 x 500) is a crucial component in the infrastructure of MM POWERLINE TRANSMISSION. Its ability to prevent corona discharge, protect insulators, and enhance the overall efficiency of the transmission line ensures the safe and reliable delivery of power. As demand for electricity continues to increase, it is essential to maintain a resilient and efficient transmission network, and the Corona Ring (OD – 650 x 500) plays a vital role in this process. Proper selection, installation, and maintenance of this component are key to the long-term success of our power transmission systems, helping us meet the growing energy needs of our communities.



BOQ

SL. NO	DESCRIPTION	QTY	MATERIAL
1	CORONA RING	1 NOS	AL.ALLOY
2	BRACKET	2 NOS	ALALLOY/HDG STEEL
3	BOLT	6 NOS	HDG STEEL
4	NUT	6 NOS	HDG STEEL
5	STEEL FLAT	2 NOS	HDG STEEL

TECHNICAL DATA

1. ALL DIMENSIONS ARE IN MM.
2. GENERAL TOLERANCE ±5% UNLESS OTHERWISE SPECIFIED.
3. FERROUS PART HOT DIP GALVANISED AS PER IS : 2633.
4. CORONA RING & BRACKET AL. ALLOY

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