

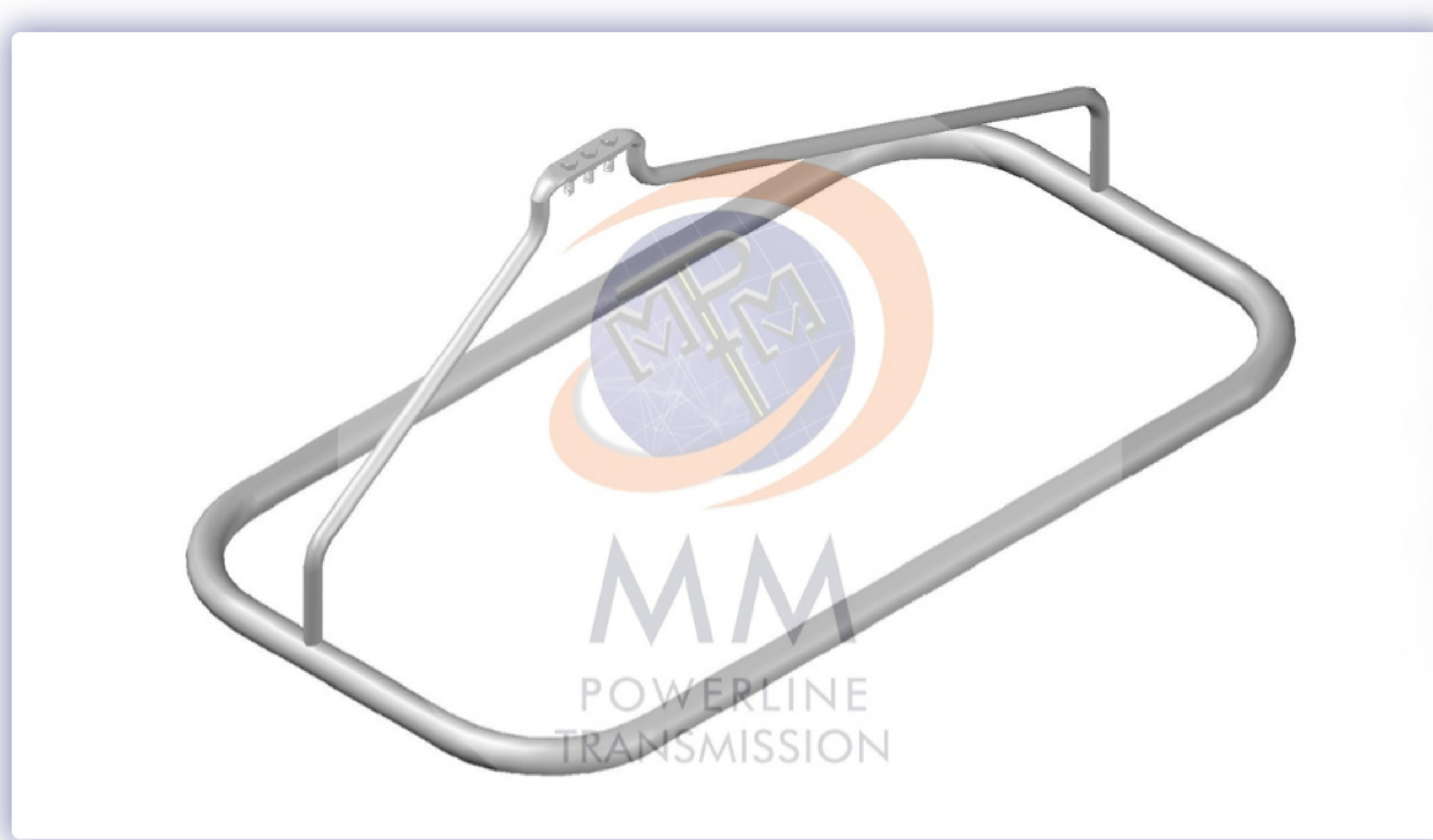


Corona Ring OD-1800x950

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Corona Ring OD-1800x950

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At MM POWERLINE TRANSMISSION, we are dedicated to maintaining the safety, reliability, and efficiency of our power transmission systems. One essential component that contributes to these goals is the Corona Ring (OD – 1800 x 950). This critical device helps minimize corona discharge, protects conductors and insulators, and ensures the stability of transmission lines. In this article, we will explore the features, functions, and significance of the Corona Ring (OD – 1800 x 950) in our power transmission infrastructure.

What is a Corona Ring (OD – 1800 x 950)?

The Corona Ring (OD – 1800 x 950) is a specialized device designed to prevent corona discharge in high-voltage overhead power transmission lines. Corona discharge occurs when the electric field around a conductor becomes strong enough to ionize the surrounding air, leading to energy loss, degradation of system components, and reduced transmission efficiency. The Corona Ring (OD – 1800 x 950) helps to smooth out the electric field around the conductor, reducing the risk of corona discharge and improving the performance and longevity of the transmission system.

With an outer diameter of 1800mm and inner diameter of 950mm, this specific corona ring is designed to fit larger transmission lines and provide effective protection for high-voltage systems.

Key Features

- 1. Strong and Durable Construction:** The Corona Ring (OD – 1800 x 950) is manufactured from high-quality materials, such as galvanized steel or stainless steel, which offer exceptional strength, resistance to corrosion, and durability in extreme weather conditions. This ensures a long lifespan and reliable performance, even in challenging environments.
- 2. Effective Design:** The design of the Corona Ring (OD – 1800 x 950) ensures an even distribution of the electric field around the conductor. This helps prevent the formation of corona discharge, reducing energy loss and extending the lifespan of the transmission system.
- 3. Custom Fit:** With its outer diameter of 1800mm and inner diameter of 950mm, the Corona Ring (OD – 1800 x 950) is tailored to fit larger conductors, ensuring a secure and stable fit for high-voltage power lines. Its precise fit maximizes its protective function, enhancing system efficiency.
- 4. Simple Installation:** The Corona Ring (OD – 1800 x 950) is designed for easy installation, allowing quick and efficient mounting onto conductors. This reduces maintenance time and minimizes operational disruptions.

Functions of the Corona Ring (OD – 1800 x 950)

- 1. Preventing Corona Discharge:** The primary function of the Corona Ring (OD – 1800 x 950) is to reduce the occurrence of corona discharge. By smoothing the electric field around the conductor, it helps prevent the ionization of air, minimizing energy loss and improving power transmission efficiency.
- 2. Protecting Conductors and Insulators:** The Corona Ring (OD – 1800 x 950) provides vital protection to insulators and conductors by reducing electrical stress. This protects critical components from damage caused by corona discharge, enhancing their longevity and reducing the need for frequent maintenance.
- 3. Improving Power Transmission Efficiency:** By reducing corona discharge, the Corona Ring (OD – 1800 x 950) enhances the efficiency of the transmission system, ensuring optimal delivery of electrical energy with minimal losses.
- 4. Ensuring System Safety:** The Corona Ring (OD – 1800 x 950) also plays a significant role in improving the safety of the transmission system. By minimizing the risk of electrical faults due to corona discharge, it ensures the safe operation of the transmission lines, protecting both personnel and equipment.

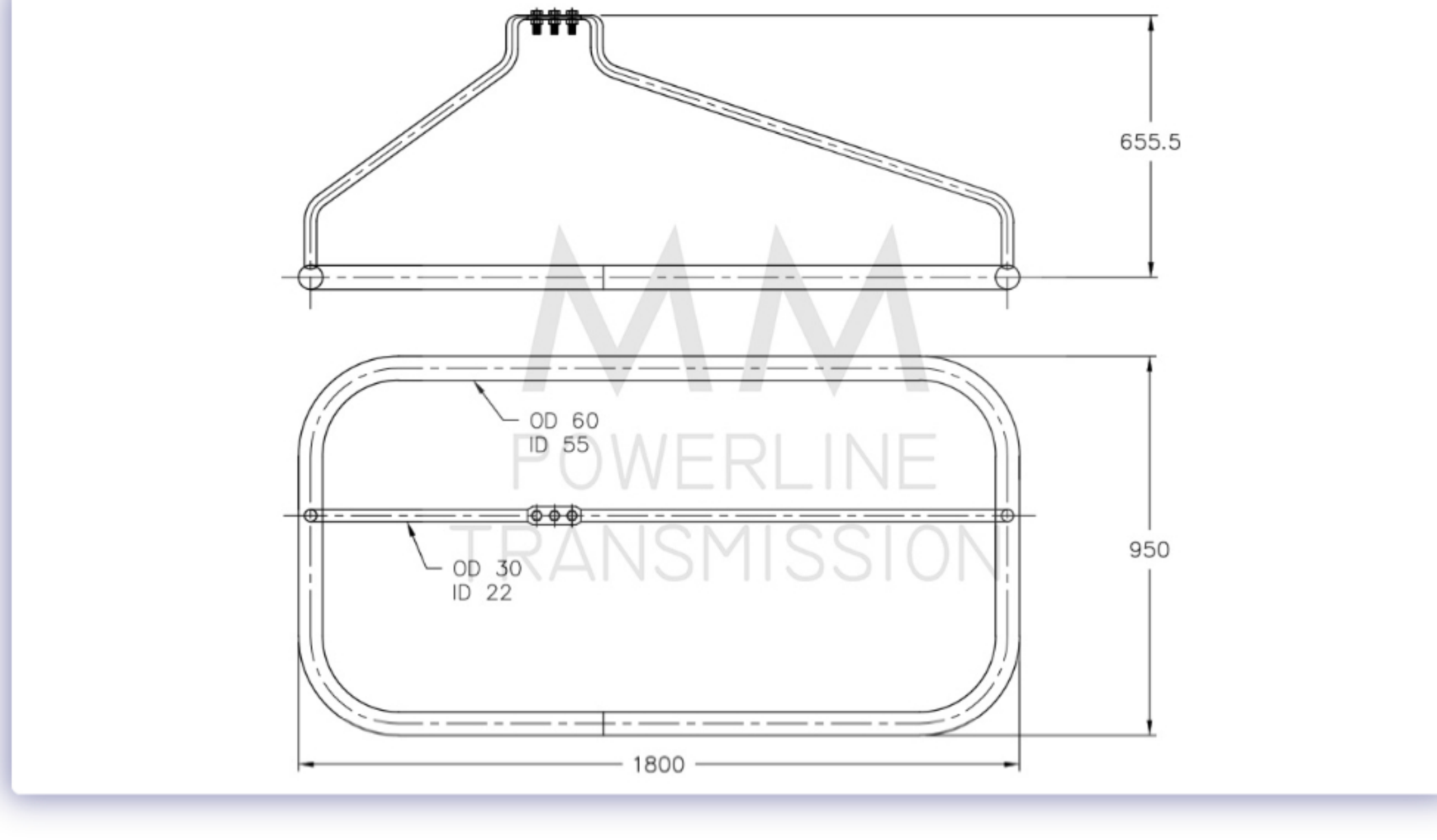
Importance in Transmission Line Systems

The Corona Ring (OD – 1800 x 950) is essential for several reasons:

- **Safety:** By preventing corona discharge and electrical faults, the Corona Ring (OD – 1800 x 950) reduces the risk of accidents, safeguarding both personnel and equipment involved in the power transmission system.
- **Reliability:** The reliability of the transmission system is paramount in ensuring an uninterrupted power supply. The Corona Ring (OD – 1800 x 950) plays a key role in maintaining the smooth and reliable operation of high-voltage transmission lines, reducing energy loss and optimizing the transmission process.
- **Cost Efficiency:** By extending the life of system components like insulators and conductors and reducing maintenance needs, the Corona Ring (OD – 1800 x 950) helps lower operational and maintenance costs. Fewer replacements and repairs lead to long-term cost savings for MM POWERLINE TRANSMISSION.

Conclusion

The Corona Ring (OD – 1800 x 950) is a crucial component of MM POWERLINE TRANSMISSION's infrastructure. Its design and function are vital in preventing corona discharge, protecting key components, and improving the overall safety, efficiency, and reliability of the power transmission system. As the demand for electricity continues to grow, ensuring the stability and performance of the transmission network is more important than ever. The Corona Ring (OD – 1800 x 950) is instrumental in meeting these challenges, providing the protection and performance required for safe and efficient power delivery. Proper selection, installation, and maintenance of this component are essential for ensuring the integrity and longevity of our transmission lines and meeting the evolving energy needs of our communities.



BOM

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