



# Bundle Spacer (Quad)

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## Bundle Spacer (Quad)

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MM Powerline Transmission is dedicated to providing cutting-edge solutions designed to optimize the performance and safety of electrical transmission systems. Among our advanced products is the Bundle Spacer Quad, meticulously engineered to improve the efficiency and reliability of high voltage transmission lines.

#### Importance in High Voltage Transmission Lines

The Bundle Spacer Quad plays a crucial role in maintaining the stability and durability of high voltage transmission lines by addressing critical operational challenges:

- Spacing and Alignment:** High voltage transmission lines carry substantial electrical loads over vast distances. The Bundle Spacer Quad ensures precise spacing between bundled conductors, preventing contact and interference that could lead to electrical faults or performance degradation. This consistent spacing is essential for efficient and reliable electricity transmission.
- Vibration Damping:** Aerodynamic vibrations caused by wind passing through transmission corridors can affect bundled conductors. The Bundle Spacer Quad is designed to effectively dampen these vibrations, reducing stress on conductors and supporting structures. By minimizing vibrations, it enhances the overall stability and operational lifespan of the transmission infrastructure.
- Thermal Management:** Conductors in high voltage lines experience significant temperature fluctuations due to electrical resistance and environmental factors. The Bundle Spacer Quad accommodates thermal expansion and contraction of the conductors, mitigating mechanical strain and ensuring long-term reliability of the transmission components.

#### Design and Functionality

- Four Damping Units:** The Bundle Spacer Quad features four damping units strategically positioned along the transmission line. Each unit independently absorbs and dissipates vibrational energy, effectively reducing oscillations and enhancing system stability.
- Material and Construction:** Constructed from durable materials such as high-strength polymers, composite materials, or metals like aluminum and steel, the Bundle Spacer Quad is designed to withstand harsh environmental conditions. It is engineered to resist UV radiation, temperature fluctuations, and mechanical stresses, ensuring reliable performance over the operational lifespan.
- Installation and Maintenance:** Proper installation of the Bundle Spacer Quad is critical for optimal performance and safety of the transmission line. Regular inspection and maintenance help identify and address any issues promptly, minimizing the risk of failures and ensuring uninterrupted operation.

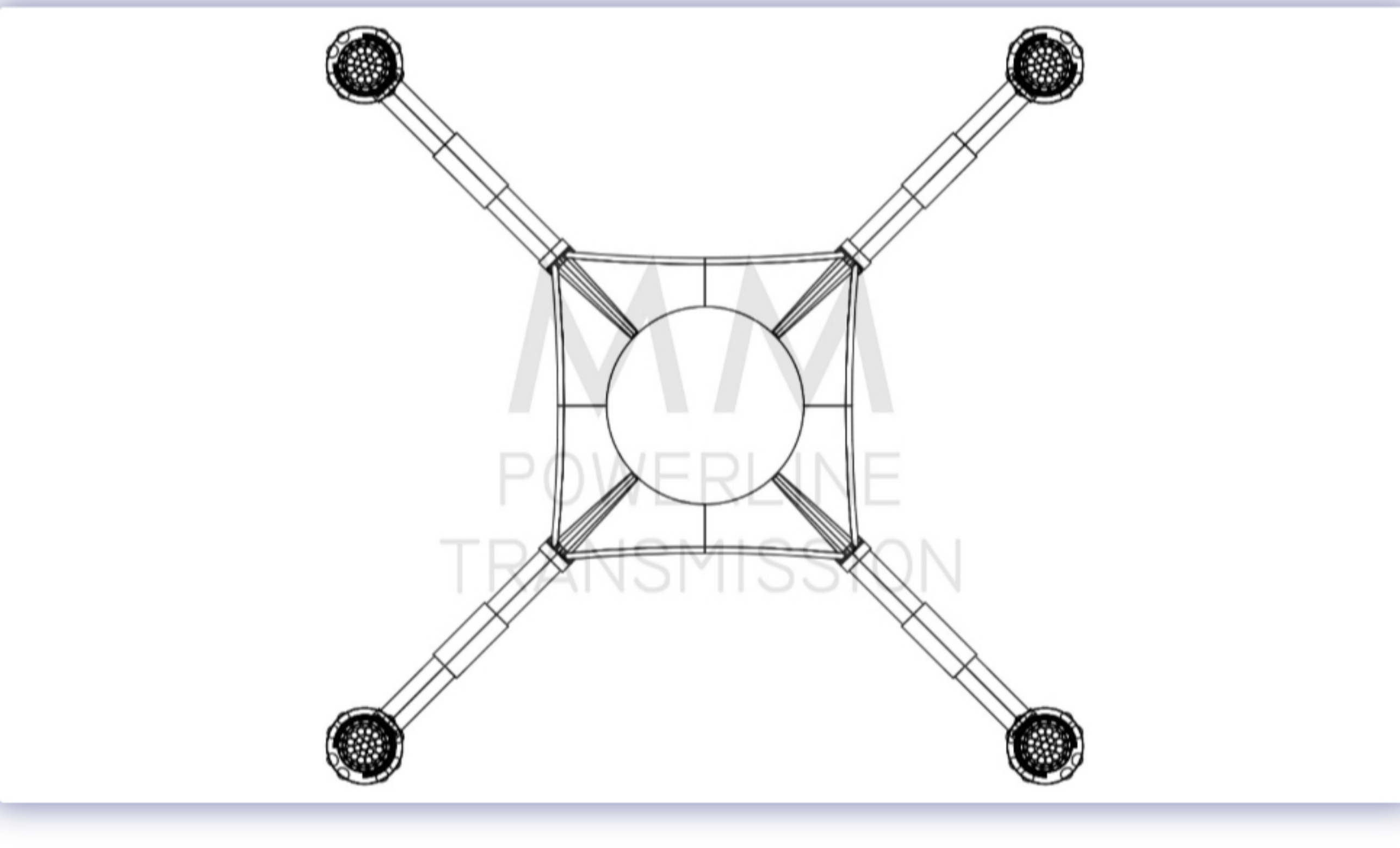
#### Benefits of Bundle Spacer Quad

- Enhanced System Reliability:** By maintaining precise spacing and effectively dampening vibrations, the Bundle Spacer Quad enhances the overall reliability and efficiency of high voltage transmission lines. It reduces the risk of electrical faults and downtime, contributing to a stable and resilient power grid.
- Improved Safety:** Consistent spacing between conductors and effective vibration damping enhance safety during maintenance activities and ensure a secure working environment for personnel.
- Cost Efficiency:** Despite initial installation costs, the Bundle Spacer Quad offers significant long-term cost savings by reducing maintenance expenses and extending the operational lifespan of transmission line components. It optimizes lifecycle costs by minimizing wear and tear on conductors and associated hardware.

The Bundle Spacer Quad is an indispensable component in high voltage transmission lines, providing essential support in maintaining operational integrity, stability, and safety. MM Powerline Transmission is committed to delivering high-quality solutions that meet the rigorous demands of modern electrical grid infrastructure. Contact us today to discover how the Bundle Spacer Quad and our other innovative products can optimize the performance and reliability of your transmission projects.

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#### BOQ

SL. NO	DESCRIPTION	MATERIAL	QTY./SET
1	SPACER BODY	EXTRUDED AL. ALLOY	1 NOS
2	CUSHION	POLYCHLOROPRENE COMPOUNDED	2 NOS
3	INSERT	ALUMINIUM ALLOY	2 NOS
4	RETAINING ROD	ALUMINIUM ALLOY	8 NOS

#### TECHNICAL DATA

- ALL DIMENSIONS ARE IN MM.
- GENERAL TOLERANCE ±3%, UNLESS SPECIFIED.
- SLIP STRENGTH :
  - BRFORE FATIGUE TEST 2.5 KN.
  - AFTER FATIGUE TEST 2.0 KN.
- TORSION MOVEMENT : 5°.
- VERTICAL MOVEMENT : ±25MM.
- LONGITUDINAL MOVEMNT : ±50MM.
- COMPRESSIVE STRENGTH : 14 KN.
- TENSILE STRENGTH : 7 KN.
- TENSILE STRENGTH OF RETAINING ROD : 35 KG/SQ.MM.
- TEMPERATURE RANGE FOR WHICH ELASTOMER IS DESIGNED 95°C
- SHORE HARDNESS OF ELASTOMER : 65-80.
- RIV AT 305 KV RMS DRY : 1000 MICRO VOLTS MAX.
- MIN. CORONA EXTINGTING VOLTAGE DRY : 320 KV RMS.
- THICKNESS OF INSERT : 5MM.
- APPROXIMATE WEIGHT : 2.110 KG.

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