



Bundle Spacer (Twin)

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MM Powerline Transmission specializes in providing advanced solutions designed to optimize the performance and safety of electrical transmission systems. Our range of products includes the innovative Bundle Spacer Twin, specifically engineered to enhance the efficiency and reliability of high voltage transmission lines.

Importance in High Voltage Transmission Lines

Bundle Spacer Twin plays a critical role in ensuring the stability and longevity of high voltage transmission lines by addressing key operational challenges:

- Spacing and Alignment:** High voltage transmission lines carry substantial electrical loads over long distances. Bundle Spacer Twin maintains 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. Bundle Spacer Twin is designed to dampen these vibrations effectively, 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 variations due to electrical resistance and environmental factors. Bundle Spacer Twin accommodates thermal expansion and contraction of the conductors, mitigating mechanical strain and ensuring long-term reliability of the transmission components.

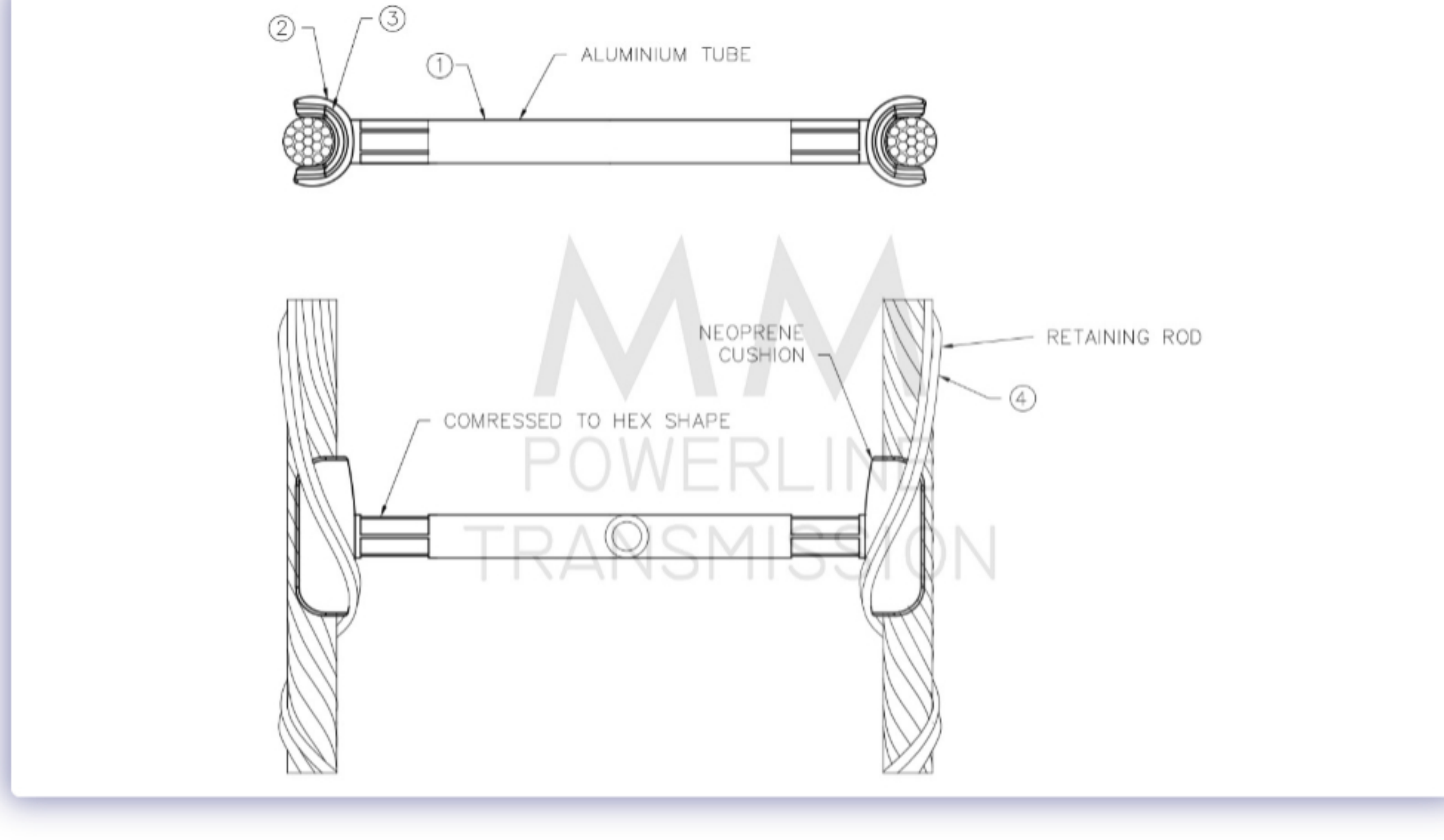
Design and Functionality

- Dual Damping Units:** Bundle Spacer Twin features two damping units strategically placed 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, Bundle Spacer Twin 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 Bundle Spacer Twin is crucial 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 Twin

- Enhanced System Reliability:** By maintaining precise spacing and effectively dampening vibrations, Bundle Spacer Twin 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, Bundle Spacer Twin 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.

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



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 MOVEMENT : ±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 EXTINGUISHING VOLTAGE DRY : 320 KV RMS.
- THICKNESS OF INSERT : 5MM.
- APPROXIMATE WEIGHT : 2.110 KG.

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