CONNECT AND PROTECT

nVent ERICO ISOnV Lightning Protection System

Is there a way of avoiding a lightning flash over to the equipment when it is unavoidably too close to an LPS conductor without having to bond it and without having the resulting damage possibility?

The ISOnV system is designed as a solution to this problem. At the heart of this system is the use of LPS conductors that are constructed with a high performance insulation to prevent electrical breakdowns (flashovers) even with the high voltages from a lightning strike. Since their development, nVent ERICO insulated downconductors, with their pioneering use of a semi-conductive sheath, have proven their reliability on tens of thousands of structures over several decades.

The ISOnV conductors have been specifically designed and tested to IEC TS 62561-8 /DIN TS 62561-8/VDE V0185-561-8 for use with an isolated LPS as described in the IEC /EN 62305 series of Lightning Protection Standards.

A critical part of the plan was recognizing the role that insulated downconductors play in protecting equipment from damage. Unlike non-insulated conductors, using insulated conductors allows complete control of where the damaging lightning current flows. Additionally, our dedicated application engineers help our customers design these systems.

ISONV INSULATED CONDUCTORS

- Provide protection of equipment against lightning strike flashover by providing an insulated path to ground via an equivalent separation distance
- Field terminated with easy-to-install, separately ordered kits
- Equipotential bond integrated into the mast

Part Number	Equivalent Separation Distance	Cross Section (Copper)	Diameter	Impulse Current (10/350 µs)
ISONV50	50 cm	35 mm²	21 mm	200 kA
ISONV70	70 cm	35 mm²	23 mm	200 kA

Visit **erico.com** for more information.

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