



AerialGuard® System Solutions

AWG's AerialGuard® Cable System Solutions (Tree Wire and Spacer Cable) are intended for use in overhead primary and secondary distribution systems rated 15 kV, 25 kV and 35 kV typically for system hardening against wind or storm damage outages, fire liability mitigation or where space is limited for multiple circuits. Other constructions for other system voltage ratings are available upon request. We offer both thermoplastic (LLDPE, MDPE, and HDPE) and thermoset (XLPE) covering systems. We also offer system accessories such as spacers, brackets, insulators and other hardware, making this a complete system.



Why AerialGuard®?

Used for primary and secondary overhead distribution where limited space is available or desirable for rights of way. Installed as an uninsulated conductor; however, covering is effective in preventing direct shorts and instantaneous flashovers should tree limbs or other objects contact conductors in such close proximity. The resulting close-proximity configuration minimizes the amount of space and hardware required for line installation; particularly useful in congested areas such as alleyways or tight corridors.

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Empowering a Better World with AerialGuard® System Solutions

TREE WIRE vs SPACER CABLE: Let's Compare

TREE WIRE

When used in a tree wire power system, it is installed in a flat or nearly flat configuration, in a similar manner and spacing as with other bare or covered overhead conductors, except with a narrower right of way or corridor. Self-supporting conductor materials, such as ACSR are typical in this type of installation.



SPACER CABLE

When used in a spacer cable power system, it is installed with a uniform spacing in a diamond configuration maintained by spacer hardware. The spacer and cable assembly are supported by a bare messenger, such as bare ACSR or galvanized steel wire. Spacer cable assemblies occupy minimal space, requiring the narrowest of right of way or corridor.

FIRE MITIGATION

The track-resistant outer layer covering prevents short-circuits and flashovers in the case of an unintentional contact with the overhead conductors, such as with trees or wildlife. When installed correctly, this system is effective at preventing system outages, damage, or fires. We recommend the use of thermoset (XLPE) covering systems for fire mitigation purposes.



AERIALGUARD® ACCESSORIES

Along with AerialGuard® tree wire or spacer cables, we also offer system accessories such as spacers, brackets, insulators and other hardware, making this a complete system.



Spacer



Tangent Bracket



Angle Bracket



Insulator Pin Type
with Ratchet



Deadend Bracket



Deadend Insulator



buyawg.com | sales@buyawg.com | 800.342.7215 | 945.455.3050