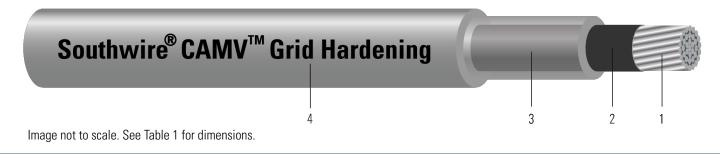


# **3-Layer 15kV AAC Tree Wire/Spacer Cable**

An Alternative and Robust Design to Bare AAC Conductors to Harden the Electrical Grids. 3-Layer 15kV AAC Tree Wire Concentrically Stranded AAC Track-Resistant Crosslinked Polyethylene.



### **CONSTRUCTION:**

- 1. Conductor: Concentrically stranded AAC
- 2. Strand Shield: Semi-conducting cross linked polymer
- 3. Inner Layer: Low-Density Crosslinked Polyethylene (LDXLPE)
- 4. Outer Layer: High-Density Track-Resistant Crosslinked Polyethylene

## **APPLICATIONS AND FEATURES:**

Used for primary and secondary overhead distribution where limited space is available or desired for rights-of-way. Installed the same as bare conductors, however, covering is effective in preventing direct shorts and instantaneous flashovers should tree limbs or other objects contact conductors in such close proximity.

- Tree Wire Used for spans where trees crowd the right-of-way, such as in wooded residential areas, when a minimum of interference with the environment is desired. Covering minimizes power outages due to conductor contact with tree limbs, reducing the need for frequent or severe trimming.
- Covered Aerial MV Cable (CAMV)/Spacer Cable Installed with other Covered Aerial MV cables and a supporting messenger through a series of space-maintaining devices (spacers). The resulting close-proximity configuration minimizes the amount of space and hardware required for line installation, particularly useful in congested areas.
- Covering Rated 90°C Normal and 130°C Emergency Operation. Unless adequate knowledge of the thermal characteristics of the environment is known, the permissible conductor temperature should be reduced by 10°C or in accordance with available data.

## **SPECIFICATIONS**:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ICEA S-121-733 Tree Wire and Messenger Supported Spacer Cable

## Table 1 – Weights and Measurements

| Cond. Size    | Cond.<br>Strands | Diameter Over<br>Conductor | Conductor Shield<br>Thickness | Inner Layer<br>Thickness | Outer Layer<br>Thickness | Approx.<br>OD | Approx.<br>Weight | Rated<br>Strength |
|---------------|------------------|----------------------------|-------------------------------|--------------------------|--------------------------|---------------|-------------------|-------------------|
| AWG/<br>Kcmil | #                | inch                       | mil                           | mil                      | mil                      | inch          | lb/1000ft         | lb                |
| 1/0           | 7                | 0.336                      | 15                            | 75                       | 75                       | 0.666         | 210               | 1791              |

All dimensions are nominal and subject to normal manufacturing tolerances



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