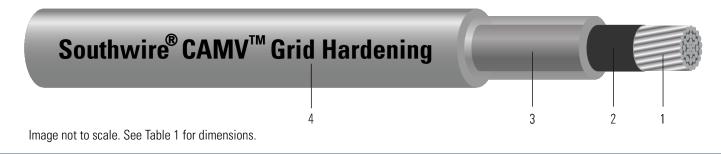


# **3-Layer 25kV AAC Tree Wire/Spacer Cable**

An Alternative and Robust Design to Bare AAC Conductors to Harden the Electrical Grids. 3-Layer 25kV 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



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# Table 1 – Weights and Measurements

Cond. Size	Cond. Strands	Diameter Over Conductor	Conductor Shield Thickness	Inner Layer Thickness	Outer Layer Thickness	Approx. OD	Approx. Weight	Rated Strength
AWG/ Kcmil	#	inch	mil	mil	mil	inch	lb/1000ft	lb
1/0	7	0.336	15	125	125	0.866	309	1791
2/0	7	0.376	15	125	125	0.906	350	2259
3/0	7	0.423	15	125	125	0.953	400	2736
4/0	7	0.475	15	125	125	1.005	460	3447
266.8	19	0.537	15	125	125	1.067	531	4473

All dimensions are nominal and subject to normal manufacturing tolerances

