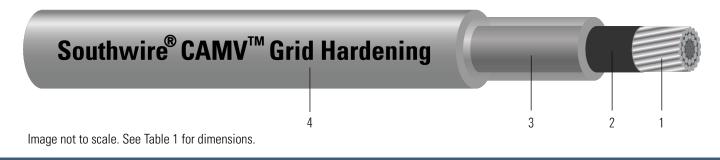
# 3-Layer 35kV ACSR Tree Wire/Spacer Cable

An Alternative and Robust Design to Bare ACSR Conductors to Harden the Electrical Grids. 3-Layer 35kV ACSR Tree Wire Concentrically Stranded ACSR Track-Resistant Crosslinked Polyethylene.



### **CONSTRUCTION:**

- 1. Conductor: Concentrically stranded ACSR
- 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.
- 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
- ASTM B498 Zinc-Coated (Galvanized) Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)
- ASTM B500 Metallic Coated Stranded Steel Core for use in overhead Electrical 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	6/1	0.398	15	175	125	1.028	448	4161
2/0	6/1	0.447	15	175	125	1.077	509	5045

All dimensions are nominal and subject to normal manufacturing tolerances

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