# 3-Layer 15kV ACSR CAMV™ Covered Conductor (Tree Wire or Spacer Cable)

An Alternative and Robust Design to Bare ACSR Conductors to Harden the Electrical Grid.
3-Layer, 15kV, Covered Conductor, Concentrically Stranded ACSR, Track-Resistant Crosslinked Polyethylene (HDTRXLPE).




Image not to scale. See Table 1 for dimensions.

## 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 (HDTRXLPE)

## 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 B232 Concentric-Lay-Stranded, Aluminum Conductors, Coated Steel Reinforced (ACSR)
- 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 | Allowable Ampacity In Air 90°C† |
|---|---|---|---|---|---|---|---|---|---|
| AWG/ Kcmil | # | inch | mil | mil | mil | inch | lb/1000ft | lb | Amp |
| 4/0 | 6/1 | 0.563 | 15 | 75 | 75 | 0.893 | 471 | 7933 | 396 |

All dimensions are nominal and subject to normal manufacturing tolerances
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.


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