3-Layer 15kV ACSR CAMV™ Tree Wire/Spacer Cable

An Alternative and Robust Design to Bare ACSR Conductors to Harden the Electrical Grids.
3-Layer 15kV ACSR Tree Wire 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

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
4	6/1	0.250	15	75	75	0.580	149	1767
2	6/1	0.316	15	75	75	0.646	202	2708
1/0	6/1	0.398	15	75	75	0.728	278	4161
2/0	6/1	0.447	15	75	75	0.777	330	5045
3/0	6/1	0.502	15	75	75	0.832	393	6289
4/0	6/1	0.563	15	75	75	0.893	471	7933
266.8	18/1	0.609	15	75	75	0.939	474	6536
266.8	26/7	0.642	15	75	75	0.972	553	10735
336.4	18/1	0.684	15	75	75	1.014	570	8246
336.4	26/7	0.720	15	75	75	1.050	669	13395
336.4	30/7	0.741	15	75	75	1.071	935	16435
397.5	18/1	0.743	15	75	75	1.073	653	9443

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.