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

Stock Number	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
TBA	4	6/1	0.25	15	75	75	0.58	149	1767	157
456168	2	6/1	0.316	15	75	75	0.646	200	2708	205
456415	1/0	6/1	0.398	15	75	75	0.728	278	4161	267
TBA	2/0	6/1	0.447	15	75	75	0.777	330	5045	304
TBA	3/0	6/1	0.502	15	75	75	0.832	393	6289	347
TBA	4/0	6/1	0.563	15	75	75	0.893	471	7933	396
TBA	266.8	18/1	0.609	15	75	75	0.939	474	6536	487
TBA	266.8	26/7	0.642	15	75	75	0.972	553	10735	496
TBA	336.4	18/1	0.684	15	75	75	1.014	570	8246	562
TBA	336.4	26/7	0.72	15	75	75	1.05	669	13395	572
TBA	336.4	30/7	0.741	15	75	75	1.071	935	16435	578
TBA	397.5	18/1	0.743	15	75	75	1.073	653	9443	623

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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