

# 5kV Covered Aerial MV Cable - Tree Wire

Aluminum Conductors.  
Track-Resistant HD Polyethylene or Crosslinked Polyethylene Covering.

## Construction

AAC (1350-H19), AAAC or ACSR conductors, concentrically stranded. Available with black or gray track-resistant, high-density polyethylene (HD) or black track-resistant crosslinked polyethylene (XLP) covering.

## Application

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 - 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.

## Specifications

Southwire's 5kV Covered Aerial MV Cable - Tree Wire meets or exceeds all applicable ICEA specifications and the following ASTM specifications:

- B-230 Aluminum, 1350-H19 Wire for Electrical Purposes.
- B-231 Concentric-Lay-Stranded Aluminum 1350 Conductors.
- B-232 Concentric-Lay-Stranded, Aluminum Conductors, Coated Steel Reinforced (ACSR).
- B-498 Zinc-Coated (Galvanized) Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR).
- B-399 Standard Specification for Concentric-Lay-Stranded, Aluminum Alloy 6201-T81 Conductors.

SSC5-IB



SSC5-IG



## All-Aluminum Conductors

Size (AWG or kcmil)	Stranding	Cover Thickness (mils)	Cable O.D. <sup>+</sup> (mils)	Rated Strength (lbs)	Weight per 1000 ft. (lbs)		Allowable Ampacity*
					XLP	HD Poly	
4	7	80	385	793	72	73	135
2	7	80	443	1210	102	104	180
1	19	80	482	1570	121	123	210
1/0	19	80	522	1940	146	148	240
2/0	19	80	565	2400	176	179	275
3/0	19	80	616	2980	215	218	320
4/0	19	80	672	3620	263	266	370
250	37	80	718	4420	300	304	410
266.8	19	80	734	4470	322	325	425
300	37	80	771	5300	353	356	455
336.4	37	80	807	5790	391	395	490
350	37	80	821	6080	406	409	505
477	37	80	931	7820	536	541	610
500	37	80	950	8200	560	565	625

+ Conductor temperature 70°C; ambient temperature of 20°C; emissivity 0.9; 2 ft./sec wind and sun.

\* All compressed stranding

## ACSR Conductors

Size (AWG or kcmil)	Stranding	Cover Thickness (mils)	Cable O.D. <sup>+</sup> (mils)	Rated Strength (lbs)	Weight per 1000 ft. (lbs)		Allowable Ampacity*
					XLP	HD Poly	
4	6/1	80	410	1770	94	96	135
2	6/1	80	476	2710	137	139	180
1	6/1	80	514	3370	166	168	205
1/0	6/1	80	558	4160	202	205	230
2/0	6/1	80	607	5040	247	250	265
3/0	6/1	80	662	6290	303	307	305
4/0	6/1	80	723	7930	374	378	345
266.8	18/1	80	769	6540	372	376	430
266.8	26/7	80	802	10700	449	453	440
336.4	18/1	80	844	8250	458	463	500
336.4	26/7	80	880	13400	555	559	510
397.5	18/1	80	903	9440	534	539	555
397.5	26/7	80	943	15500	647	652	565
477	18/1	80	974	11200	631	637	620
477	26/7	80	1018	185000	767	773	630

+ Conductor temperature 70°C; ambient temperature of 20°C; emissivity 0.9; 2 ft./sec wind and sun.