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MV 5KV 15KV Overhead Covered Conductor,

Aerial MV Cable. Tree Wire. One Layer



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 cross-linked 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 flash overs 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.

Spacer Cable - Installed with other spacer 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

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.



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5kv

All-Aluminum Conductors

Size (AWG or kcmil)	Stranding	Cover Thickness (mils)	Cable O.D. ⁺ (mils)	Rated Streng ht (lbs)	Weight per 1000 ft. (lbs)		Allowable Ampacity*
					XLP	HD Poly	
4	7	80	385	793	72	73	13 5
2	7	80	443	1210	102	104	18 0
1	19	80	482	1570	121	123	21 0
1/0	19	80	522	1940	146	148	24 0
2/0	19	80	565	2400	176	179	27 5
3/0	19	80	616	2980	215	218	32 0
4/0	19	80	672	3620	263	266	37 0
250	37	80	718	4420	300	304	41 0
266.8	19	80	734	4470	322	325	42 5
300	37	80	771	5300	353	356	45 5
336.4	37	80	807	5790	391	395	49 0
350	37	80	821	6080	406	409	50 5
477	37	80	931	7820	536	541	61 0
500	37	80	950	8200	560	565	62 5

ACSR-Aluminum Conductor Steel Reinforced

Size (AWG or kcmil)	Stranding	Cover Thickness (mils)	Cable O.D. ⁺ (mils)410	Rated Streng ht (lbs)	Weight per 1000 ft. (lbs)		Allowable Ampacity*
					XLP	HD Poly	
4	6/1	80	410	1770	94	96	13 5
2	6/1	80	476	2710	137	139	18 0
1	6/1	80	514	3370	166	168	20 5
1/0	6/1	80	558	4160	202	205	23 0
2/0	6/1	80	607	5040	247	250	26 5
3/0	6/1	80	662	6290	303	307	30 5
4/0	6/1	80	723	7930	374	378	34 5
266.8	18/1	80	769	6540	372	376	43 0
266.8	26/7	80	802	10700	449	453	44 0
336.4	18/1	80	844	8250	458	463	50 0
336.4	26/7	80	880	13400	555	559	51 0



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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; emmissivity 0.9; 2 ft./sec wind and sun.

* All compressed stranding

15kv							
Size (AWG or kcmil)	Stranding	Cover Thickness (mils)	Cable O.D. (mils)	Rated Strengt h (lbs.)	Weight Per 1000' (lbs.)		Allowable Ampacity +
					XLP	HD Poly	
All-Aluminum Conductors							
4	7	150	525	793	114	115	135
2	7	150	583	1210	150	151	175
1	19	150	622	1570	172	173	205
1/0	19	150	662	1940	--	202	235
2/0	19	150	705	2400	236	237	270
3/0	19	150	756	2980	279	281	310
4/0	19	150	812	3620	333	334	355
266.8	19	150	874	4470	397	399	410
300	37	150	911	5300	432	433	440
336.4	37	150	947	5790	473	475	475
350	37	150	961	6080	489	491	485
477	37	150	1071	7820	631	633	585
500	37	150	1090	8200	656	658	605
ACSR-Aluminum Conductor Steel Reinforced							
4	6/1	150	550	1770	139	140	135
2	6/1	150	616	2710	188	189	175
1	6/1	150	654	3370	221	222	200
1/0	6/1	150	698	4160	261	263	230
2/0	6/1	150	747	5040	--	312	260
3/0	6/1	150	802	6290	372	374	295
4/0	6/1	150	863	7930	449	450	330
266.8	18/1	150	909	6540	451	453	415
266.8	26/7	150	942	10700	531	533	425
336.4	18/1	150	984	8250	545	547	480
336.4	26/7	150	1020	13400	645	647	490
397.5	18/1	150	1043	9440	626	628	535
397.5	26/7	150	1083	15500	743	745	545
477	18/1	150	1114	11200	730	733	595



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477	26/7	150	1158	18500	870	872	610
+ Conductor temperature 75°C; ambient temperature of 25°C; emissivity 0.9; 2 ft./sec. wind in sun.							