Performance

Maximum Operating Voltage: Designed to operate efficiently within a range of 15kV, 25kV, and 35kV, ensuring reliable performance across different voltage requirements.
Maximum Operating Temperature: With a maximum operating temperature of 90°C, the cable maintains stability and integrity even under high-temperature conditions, ensuring longevity and reliability.
Copper Conductors: Manufactured in hard temper, providing enhanced durability and conductivity, making them ideal for demanding electrical applications.
Aluminum Conductors: Utilizing hard-tempered alloy 1350 (H19), ensuring robustness and efficient energy transmission while maintaining flexibility.
ACSR Conductors: Constructed with aluminum alloy 1350 in hard temper (H19) and a steel core, offering superior strength and conductivity, suitable for overhead transmission lines.
Insulation: Featuring a black cover that provides protection against sunlight, safeguarding the cable from UV degradation and ensuring longevity in outdoor installations.
Non-Insulated Design: As these cables lack an insulation screen, they are considered non-insulated and require the same care and precautions as uninsulated cables, emphasizing the importance of proper handling and installation practices.

Application

The CFE E0000-29 Medium Voltage Semi-insulated Cable, known as "cable semiaislado media tension" in Spanish, plays a pivotal role in medium voltage overhead transmission and distribution systems, particularly in wooded areas where conventional cables face challenges. It serves as a reliable solution for ensuring efficient energy transmission across medium voltage lines in various environments, ranging from urban infrastructure to rural landscapes. Its adaptability to wooded areas makes it invaluable for regions with dense vegetation, offering uninterrupted power supply even in challenging terrain. From urban grids to remote locations, this cable stands as a dependable choice for robust energy distribution, facilitating seamless power transmission across diverse landscapes.

Advantage

Robust construction ensures reliable performance and longevity, even in challenging environments such as wooded areas.
Adaptability to various voltage levels and operating temperatures makes it suitable for a wide range of applications.
Superior protection against electrical and environmental factors, ensuring stable power transmission.
Compliance with safety standards and adherence to quality specifications underscore reliability and suitability for critical energy distribution infrastructure.

Construction

Single-conductor design composed of high-quality materials, available in variants including copper, aluminum (AAC), or aluminum with a steel core (ACSR).
Semiconductor screen applied to the conductor improves electrical performance and reliability.
Insulation-sheath made of cross-linked polyethylene (XLPE) in black enhances protection against environmental elements, ensuring long-term durability.
Copper conductors manufactured in hard temper for durability, aluminum conductors constructed with hard-tempered alloy 1350 (H19), and ACSR conductors comprising aluminum alloy 1350 in hard temper (H19) and a steel core, offering enhanced strength and conductivity.

Specification

-CFE E0000-29: Semi-insulated cables for overhead lines from 15 to 38 kV.

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

ISO 9001 Quality Management Systems CERTIFIED | ISO 14001 Environmental Management CERTIFIED | ISO 45001 Occupational Health and Safety Management CERTIFIED | ISO 50001 Energy Management CERTIFIED | RoHS

IATF16949:2016

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

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Technical Parameters

3 Layer Semi-insulated Cable								
	Conductor			Insulation	Cover	D.C. Electrical Resistance at 20 °C	Current Capacity	Approximate Total Weight
Size	Nominal Cross Section Area	Number of Threads	Approximate Diameter	Insulation Thickness	Approximate Total Diameter			
AWG or kcmil	mm^2	No.	mm	mm	mm	Ω/km	A	kg/km
3 Layer ACSR 15KV								
2	33.64	6/1	8.02	2.68	16.42	0.829	184	286
1/0	53.52	6/1	10.11	2.68	18.51	0.521	242	392
2/0	67.48	6/1	11.35	2.68	19.75	0.413	276	464
3/0	85.04	6/1	12.74	2.68	21.14	0.328	315	553
4/0	107.2	6/1	14.31	2.68	22.71	0.260	357	661
266.8	135.2	18/1	15.46	2.68	23.86	0.211	449	672
336.4	170.5	18/1	17.37	2.68	25.77	0.167	519	808
397.5	201.5	18/1	18.88	2.68	27.28	0.141	576	926
3 Layer ACSR 25KV								
2	33.64	6/1	8.02	4.77	21.50	0.829	184	426
1/0	53.52	6/1	10.11	4.77	23.59	0.521	242	547
2/0	67.48	6/1	11.35	4.77	24.83	0.413	276	628
3/0	85.04	6/1	12.74	4.77	26.22	0.328	315	727
4/0	107.2	6/1	14.31	4.77	27.79	0.260	357	846
266.8	135.2	18/1	15.46	4.77	28.94	0.211	449	866
336.4	170.5	18/1	17.37	4.77	30.85	0.167	519	1016
397.5	201.5	18/1	18.88	4.77	32.36	0.141	576	1145
3 Layer ACSR 35KV(38kV)								
1/0	53.52	6/1	10.11	5.72	26.13	0.521	242	638
2/0	67.48	6/1	11.35	5.72	27.37	0.413	276	724
3/0	85.04	6/1	12.74	5.72	28.76	0.328	315	828
4/0	107.2	6/1	14.31	5.72	30.33	0.260	357	953
266.8	135.2	18/1	15.46	5.72	31.48	0.211	449	977
336.4	170.5	18/1	17.37	5.72	33.39	0.167	519	1134
397.5	201.5	18/1	18.88	5.72	34.9	0.141	576	1269

Technical Parameters

2 Layer Semi-insulated Cable								
	Conductor			Insulation	Cover	D.C. Electrical Resistance at 20 °C	Current Capacity	Approximate Total Weight
Size	Nominal Cross Section Area	Number of Threads	Approximate Diameter	Insulation Thickness	Approximate Total Diameter			
AWG or kcmil	mm^2	No.	mm	mm	mm	Ω/km	A	kg/km
2 Layer ACSR 15KV								
2	33.64	6/1	8.02	3.00	14.78	0.829	184	249
1/0	53.52	6/1	10.11	3.00	16.87	0.521	242	350
2/0	67.48	6/1	11.35	3.00	18.11	0.413	276	420
3/0	85.04	6/1	12.74	3.00	19.5	0.328	315	505
4/0	107.2	6/1	14.31	3.00	21.07	0.260	357	609
266.8	135.2	18/1	15.46	3.00	22.22	0.211	449	618
336.4	170.5	18/1	17.37	3.00	24.13	0.167	519	749
397.5	201.5	18/1	18.88	3.00	25.64	0.141	576	864
2 Layer ACSR 25KV								
2	33.64	6/1	8.02	4.00	16.78	0.829	184	295
1/0	53.52	6/1	10.11	4.00	18.87	0.521	242	402
2/0	67.48	6/1	11.35	4.00	20.11	0.413	276	475
3/0	85.04	6/1	12.74	4.00	21.50	0.328	315	564
4/0	107.2	6/1	14.31	4.00	23.07	0.260	357	673
266.8	135.2	18/1	15.46	4.00	24.22	0.211	449	685
336.4	170.5	18/1	17.37	4.00	26.13	0.167	519	822
397.5	201.5	18/1	18.88	4.00	27.64	0.141	576	941
2 Layer ACSR 35KV(38kV)								
1/0	53.52	6/1	10.11	7.60	26.07	0.521	242	637
2/0	67.48	6/1	11.35	7.60	27.31	0.413	276	723
3/0	85.04	6/1	12.74	7.60	28.7	0.328	315	826
4/0	107.2	6/1	14.31	7.60	30.27	0.260	357	952
266.8	135.2	18/1	15.46	7.60	31.42	0.211	449	976
336.4	170.5	18/1	17.37	7.60	33.33	0.167	519	1132
397.5	201.5	18/1	18.88	7.60	34.84	0.141	576	1267

Technical Parameters

3 Layer Semi-insulated Cable								
	Conductor			Insulation	Cover	D.C. Electrical Resistance at 20 °C	Current Capacity	Approximate Total Weight
Size	Nominal Cross Section Area	Number of Threads	Approximate Diameter	Insulation Thickness	Approximate Total Diameter			
AWG or kcmil	mm^2	No.	mm	mm	mm	Ω/km	A	kg/km
3 Layer AAC 15KV								
2	33.63	7	7.42	2.68	15.82	0.85	185	235
1/0	53.51	7	9.36	2.68	17.76	0.53	247	313
2/0	67.44	7	10.55	2.68	18.95	0.42	286	366
3/0	85.03	7	11.79	2.68	20.19	0.33	331	429
4/0	107.2	7	13.26	2.68	21.66	0.260	383	508
266.8	135.2	19	15.05	2.68	23.45	0.21	443	610
336.4	170.5	19	16.9	2.68	25.3	0.16	513	730
397.5	201.4	19	18.37	2.68	26.77	0.14	570	834
3 Layer AAC 25KV								
2	33.63	7	7.42	4.77	20.90	0.85	185	370
1/0	53.51	7	9.36	4.77	22.84	0.53	247	462
2/0	67.44	7	10.55	4.77	24.03	0.42	286	524
3/0	85.03	7	11.79	4.77	25.27	0.33	331	596
4/0	107.2	7	13.26	4.77	26.74	0.260	383	686
266.8	135.2	19	15.05	4.77	28.53	0.21	443	801
336.4	170.5	19	16.9	4.77	30.38	0.16	513	935
397.5	201.4	19	18.37	4.77	31.85	0.14	570	1049
3 Layer AAC 35KV(38kV)								
1/0	53.51	7	9.36	5.72	25.38	0.53	247	551
2/0	67.44	7	10.55	5.72	26.57	0.42	286	617
3/0	85.03	7	11.79	5.72	27.81	0.33	331	694
4/0	107.2	7	13.26	5.72	29.28	0.260	383	789
266.8	135.2	19	15.05	5.72	31.07	0.21	443	911
336.4	170.5	19	16.9	5.72	32.92	0.16	513	1051
397.5	201.4	19	18.37	5.72	34.39	0.14	570	1171

Technical Parameters

2 Layer Semi-insulated Cable								
	Conductor			Insulation	Cover	D.C. Electrical Resistance at 20 °C	Current Capacity	Approximate Total Weight
Size	Nominal Cross Section Area	Number of Threads	Approximate Diameter	Insulation Thickness	Approximate Total Diameter			
AWG or kcmil	mm^2	No.	mm	mm	mm	Ω/km	A	kg/km
2 Layer AAC 15KV								
2	33.63	7	7.42	3.00	14.18	0.85	185	199
1/0	53.51	7	9.36	3.00	16.12	0.53	247	273
2/0	67.44	7	10.55	3.00	17.31	0.42	286	323
3/0	85.03	7	11.79	3.00	18.55	0.33	331	383
4/0	107.2	7	13.26	3.00	20.02	0.260	383	459
266.8	135.2	19	15.05	3.00	21.81	0.21	443	557
336.4	170.5	19	16.9	3.00	23.66	0.16	513	673
397.5	201.4	19	18.37	3.00	25.13	0.14	570	773
AAC 25KV								
2	33.63	7	7.42	4.00	16.18	0.85	185	243
1/0	53.51	7	9.36	4.00	18.12	0.53	247	323
2/0	67.44	7	10.55	4.00	19.31	0.42	286	376
3/0	85.03	7	11.79	4.00	20.55	0.33	331	440
4/0	107.2	7	13.26	4.00	22.02	0.260	383	520
266.8	135.2	19	15.05	4.00	23.81	0.21	443	623
336.4	170.5	19	16.9	4.00	25.66	0.16	513	744
397.5	201.4	19	18.37	4.00	27.13	0.14	570	848
AAC 35KV(38kV)								
1/0	53.51	7	9.36	7.60	25.32	0.53	247	549
2/0	67.44	7	10.55	7.60	26.51	0.42	286	615
3/0	85.03	7	11.79	7.60	27.75	0.33	331	692
4/0	107.2	7	13.26	7.60	29.22	0.260	383	787
266.8	135.2	19	15.05	7.60	31.01	0.21	443	909
336.4	170.5	19	16.9	7.60	32.86	0.16	513	1049
397.5	201.4	19	18.37	7.60	34.33	0.14	570	1169

Technical Parameters

3 Layer Semi-insulated Cable								
	Conductor			Insulation	Cover	D.C. Electrical Resistance at 20 °C	Current Capacity	Approximate Total Weight
Size	Nominal Cross Section Area	Number of Threads	Approximate Diameter	Insulation Thickness	Approximate Total Diameter			
AWG or kcmil	mm^2	No.	mm	mm	mm	Ω/km	A	kg/km
3 Layer AAAC 15KV								
2	33.63	7	7.42	2.68	15.82	0.996	160	235
1/0	53.51	7	9.36	2.68	17.76	0.626	204	314
2/0	67.44	7	10.55	2.68	18.95	0.497	260	366
3/0	85.03	7	11.79	2.68	20.19	0.394	301	430
4/0	107.2	7	13.26	2.68	21.66	0.312	354	509
266.8	135.2	19	15.05	2.68	23.45	0.248	405	608
336.4	170.5	19	16.9	2.68	25.3	0.197	452	728
397.5	201.4	19	18.37	2.68	26.77	0.166	529	831
3 Layer AAAC 25KV								
2	33.63	7	7.42	4.77	20.90	0.996	160	370
1/0	53.51	7	9.36	4.77	22.84	0.626	204	463
2/0	67.44	7	10.55	4.77	24.03	0.497	260	524
3/0	85.03	7	11.79	4.77	25.27	0.394	301	597
4/0	107.2	7	13.26	4.77	26.74	0.312	354	687
266.8	135.2	19	15.05	4.77	28.53	0.248	405	799
336.4	170.5	19	16.9	4.77	30.38	0.197	452	932
397.5	201.4	19	18.37	4.77	31.85	0.166	529	1046
3 Layer AAAC 35KV(38kV)								
1/0	53.51	7	9.36	5.72	25.38	0.626	204	551
2/0	67.44	7	10.55	5.72	26.57	0.497	260	617
3/0	85.03	7	11.79	5.72	27.81	0.394	301	695
4/0	107.2	7	13.26	5.72	29.28	0.312	354	790
266.8	135.2	19	15.05	5.72	31.07	0.248	405	908
336.4	170.5	19	16.9	5.72	32.92	0.197	452	1048
397.5	201.4	19	18.37	5.72	34.39	0.166	529	1168

Technical Parameters

2 Layer Semi-insulated Cable								
	Conductor			Insulation	Cover	D.C. Electrical Resistance at 20 °C	Current Capacity	Approximate Total Weight
Size	Nominal Cross Section Area	Number of Threads	Approximate Diameter	Insulation Thickness	Approximate Total Diameter			
AWG or kcmil	mm^2	No.	mm	mm	mm	Ω/km	A	kg/km
AAAC 15KV								
2	33.63	7	7.42	3.00	14.18	0.996	160	200
1/0	53.51	7	9.36	3.00	16.12	0.626	204	274
2/0	67.44	7	10.55	3.00	17.31	0.497	260	324
3/0	85.03	7	11.79	3.00	18.55	0.394	301	384
4/0	107.2	7	13.26	3.00	20.02	0.312	354	460
266.8	135.2	19	15.05	3.00	21.81	0.248	405	555
336.4	170.5	19	16.9	3.00	23.66	0.197	452	670
397.5	201.4	19	18.37	3.00	25.13	0.166	529	770
AAAC 25KV								
2	33.63	7	7.42	4.00	16.18	0.996	160	244
1/0	53.51	7	9.36	4.00	18.12	0.626	204	323
2/0	67.44	7	10.55	4.00	19.31	0.497	260	377
3/0	85.03	7	11.79	4.00	20.55	0.394	301	441
4/0	107.2	7	13.26	4.00	22.02	0.312	354	521
266.8	135.2	19	15.05	4.00	23.81	0.248	405	621
336.4	170.5	19	16.9	4.00	25.66	0.197	452	741
397.5	201.4	19	18.37	4.00	27.13	0.166	529	845
AAAC 35KV(38kV)								
1/0	53.51	7	9.36	7.60	25.32	0.626	204	550
2/0	67.44	7	10.55	7.60	26.51	0.497	260	616
3/0	85.03	7	11.79	7.60	27.75	0.394	301	693
4/0	107.2	7	13.26	7.60	29.22	0.312	354	788
266.8	135.2	19	15.05	7.60	31.01	0.248	405	907
336.4	170.5	19	16.9	7.60	32.86	0.197	452	1047
397.5	201.4	19	18.37	7.60	34.33	0.166	529	1166