

Cable Semiaislado o Ecológico Application

The Medium Voltage Ecological Cable is called cable ecologico media tension in Spanish, with type AAC (All Aluminum conductor), ACSR (Aluminum Conductor Steel Reinforced) with class AA and A strands conductor. cable ecologico media tension is used for transmission and distribution lines of electrical energy, in wooded or industrial areas. Its service voltage for all applications varies depending on the thickness of the insulation wall and can be 15 kV and 25 kV.

Cable Semiaislado o Ecológico Construction

The Medium Voltage Ecological Cable type AAC, ACSR and are concentrically wired, and are constructed with 1350-H19 alloy wires. A first coating of semiconductor material is applied to the metallic conductor, and it is subsequently insulated with a uniform layer of cross-linked polyethylene (XLPE). Its packaging form is reels in lengths according to the customer's needs.

Cable Semiaislado o Ecológico Performance

Maximum operating voltage: 15KV to 35KV

Maximum operating temperature : 75°C or 90°C

Conductor de aluminio AAC, AAAC o ACSR aislado con polietileno reticulado (XLPE)



ALUMINIO

CABLES SEMIAISLADOS O ECOLÓGICOS

Conductor de aluminio AAC, AAAC o ACSR cubiertos con XLPE / XLPE-AT o LDPE / HDPE - AT



ALUMINIO

CABLE CUBIERTO PARA REDES COMPACTAS

Cable Semiaislado o Ecológico Standards

ASTM B230: Aluminum wires, alloy 1350-H19 for electrical purposes.

ASTM B400: Standard Specification for Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors

ASTM B231: Type 1350-H19 aluminum stranded conductors in concentric layers.

ASTM B232: Aluminum Stranded Conductor Steel Reinforced (ACSR)

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ICEA S-121-733: Tree Wire and Messenger Supported Spacer Cable

ABNT EB-2173: Conductors covered with XLPE cross-linked polyethylene, for use in 15 and 25 kV wooded areas.

ABNT/NBR 11873: Cables covered with XLPE polymeric material for compacted aerial distribution networks in voltages from 13.8 kV to 34.5 kV.

NTC 5909: Cables de potencia cubierto (semiaislados) no apantallados de 15 kV - 46 kV, para uso en líneas aéreas de distribución de energía eléctrica.

ANSI/ICEA S-121-733: Estándar para cable ecológico - semiaislado líneas aéreas.

DESCRIPCION
CABLE AAC 2AWG IRIS MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAC 1/0AWG POPPY MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAC 2/0AWG ASTER MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAC 4/0AWG OXLIP MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAC 266.8KCMIL DAISY MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAC 336.4KCMIL TULIP MONOPOLAR CUBIERTO XLPE 15KV 90°C

CABLE AAC 477 KCMIL COSMOS MONOPOLAR CUBIERTO 15KV 90°C
CABLE AAC 556.5 KCMIL DAHLIA MONOPOLAR CUBIERTO 15KV 90°C
CABLE ACSR 2AWG SPARROW MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE ACSR 1/0AWG RAVEN MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE ACSR 2/0AWG QUAIL MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE ACSR 4/0AWG PENGUIN MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE ACSR 266.8KCMIL WAXWING MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAAC 77.47 KCMIL AMES MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAAC 123.3 KCMIL AZUSA MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAAC 155.4 KCMIL ANAHEIM MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAAC 246.9 KCMIL ALLIANCE MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAAC 312.8 KCMIL BUTTE MONOPOLAR CUBIERTO XLPE 15KV 90°C
CABLE AAAC 394.5 KCMIL CANTON MONOPOLAR CUBIERTO 15KV 90°C
CABLE AAAC 559.5 KCMIL DARIEN MONOPOLAR CUBIERTO 15KV 90°C
CABLE AAC 4/0 AWG OXLIP MONOPOLAR CUBIERTO 25KV 90°C
CABLE AAC 477 KCMIL COSMOS MONOPOLAR CUBIERTO 25KV 90°C
CABLE AAC 795 KCMIL ARBUTUS MONOPOLAR CUBIERTO 25KV 90°C
CABLE ACSR 1/0 AWG RAVEN MONOPOLAR CUBIERTO 25KV 90°C
CABLE ACSR 4/0 AWG PENGUIN MONOPOLAR CUBIERTO 25KV 90°C
CABLE ACSR 477 KCMIL PELICAN MONOPOLAR CUBIERTO 25KV 90°C
CABLE ACSR 795 KCMIL DRAKE MONOPOLAR CUBIERTO 25KV 90°C
CABLE AAC 1/0 AWG POPPY MONOPOLAR CUBIERTO 38KV 90°C
CABLE AAC 2/0AWG ASTER MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAC 4/0AWG OXLIP MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAC 266.8KCMIL DAISY MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAC 336.4KCMIL TULIPMONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAC 477 KCMIL COSMOS MONOPOLAR CUBIERTO 38KV 90°C
CABLE ACSR 2/0AWG QUAIL MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE ACSR 4/0AWG PENGUIN MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE ACSR 266.8KCMIL WAXWING MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAAC 77.47 KCMIL AMES MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAAC 123.3 KCMIL AZUSA MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAAC 155.4 KCMIL ANAHEIM MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAAC 246,9 KCMIL ALLIANCE MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAAC 312.8 KCMIL BUTTE MONOPOLAR CUBIERTO XLPE 38KV 90°C
CABLE AAC 4/0 AWG OXLIP MONOPOLAR CUBIERTO 48KV 90°C
CABLE AAC 795 KCMIL ARBUTUS MONOPOLAR CUBIERTO 48KV 90°C

CABLE AAAC 312.8 KCMIL BUTTE MONOPOLAR CUBIERTO XLPE 48KV 90°C

Ecological CABLE AAC 25 kV

Size (AWG kcmil)	Section Area or (mm ²)	Phase Conductor		Conductor Diameter (mm)	Semiconductor Thickness (mm)	Sheath Thickness (mm)	Cable Diameter (mm)	Approx. Total Weight (kg / km)	Breaking Load (kgf)	Current Capacity (A)
		No. of Threads	Wire Diameter (mm)							
2	33.62	7	2.474	7.42	0.7	4.1	17.02	274.46	612	175
1/0	53.49	19	1.892	9.46	0.7	4.1	19.06	357.82	980	235
2/0	67.44	19	2.126	10.63	0.7	4.1	20.23	415.17	1212	270
3/0	85.02	19	2.388	11.94	0.7	4.1	21.54	485.06	1500	310
4/0	107.2	19	2.680	13.4	0.7	4.1	23	570.5	1822	355
266.8	135.2	19	3.010	15.05	0.7	4.1	24.65	675.63	2254	410
336.4	170.5	19	3.381	16.91	0.7	4.1	26.51	796.82	2789	485
477	241.7	37	2.884	20.19	0.7	4.1	29.79	1047.85	3941	585
500	253.3	37	2.951	20.66	0.7	4.1	30.26	1087.77	4133	605

Ecological CABLE AAC 15 kV

Size (AWG kcmil)	Section Area or (mm ²)	Phase Conductor		Conductor Diameter (mm)	Semiconductor Thickness (mm)	Sheath Thickness (mm)	Cable Diameter (mm)	Approx. Total Weight (kg / km)	Breaking Load (kgf)	Current Capacity (A)
		No. of Threads	Wire Diameter (mm)							
2/0	67.44	19	2.126	10.63	0.7	3.1	18.23	359.41	1212	270
3/0	85.02	19	2.388	11.94	0.7	3.1	19.54	425.5	1500	310
4/0	107.2	19	2.680	13.4	0.7	3.1	21	506.71	1822	355
266.8	135.2	19	3.010	15.05	0.7	3.1	22.65	607.05	2254	410
336.4	170.5	19	3.381	16.91	0.7	3.1	24.51	722.86	2789	485
477	241.7	37	2.884	20.19	0.7	3.1	27.79	964.38	3941	585
500	253.3	37	2.951	20.66	0.7	3.1	28.26	1002.93	4133	605

Ecological CABLE ACSR 15 kV

Size (AWG kcmil)	Section Area or (mm ²)	No. of Threads		Wire Diameter		Conductor Diameter (mm)	Semiconductor Thickness (mm)	Sheath Thickness (mm)	Aprox. Cable Diameter (mm)	Approx. Total Weight (kg / km)	Breaking Load (kgf)	Current Capacity (A)
		Aluminum	Steel	Aluminum	Steel							
4	21.15	6	1	2.118	2.118	6.36	0.7	3.1	13.96	206.66	843	135
2	33.62	6	1	2.672	2.672	8.02	0.7	3.1	15.62	280.02	1292	175
1/0	53.49	6	1	3.370	3.370	10.11	0.7	3.1	17.71	390.56	1986	230
2/0	67.43	6	1	3.782	3.782	11.35	0.7	3.1	18.95	465.38	2404	260
3/0	85.01	6	1	4.247	4.247	12.74	0.7	3.1	20.34	557.98	3002	295
4/0	107.2	6	1	4.770	4.770	14.31	0.7	3.1	21.91	672.75	3786	330
266.8	135.19	18	1	3.092	3.092	15.46	0.7	3.1	23.06	671.95	3120	415
266.8	135.19	26	7	2.573	2.000	16.3	0.7	3.1	23.9	798.34	5125	425

336.4	170.45	18	1	3.472	3.472	17.36	0.7	3.1	24.96	812.02	3936	480
336.4	170.45	26	7	2.888	2.250	18.29	0.7	3.1	25.89	970.69	6393	490
397.5	201.41	18	1	3.774	3.774	18.87	0.7	3.1	26.47	933.17	4508	535
397.5	201.41	26	7	3.140	2.440	19.88	0.7	3.1	27.48	1118.43	7393	545
477	241.7	18	1	4.135	4.135	20.68	0.7	3.1	28.28	1089.06	5352	595
477	241.7	26	7	3.439	2.674	21.8	0.7	3.1	29.4	1310.68	8845	610

Ecological CABLE ACSR 25 kv

Size (AWG or kcmil)	Section Area (mm ²)	No. of Threads		Wire Diameter		Conductor Diameter (mm)	Semiconductor Thickness (mm)	Sheath Thickness (mm)	Aprox. Cable Diameter (mm)	Approx. Total Weight (kg / km)	Breaking Load (kgf)	Current Capacity (A)
		Aluminum No.	Steel No.	Aluminum (mm)	Steel (mm)							
4	21.15	6	1	2.118	2.118	6.36	0.7	4.1	15.96	250.02	843	135
2	33.62	6	1	2.672	2.672	8.02	0.7	4.1	17.62	328.2	1292	175
1/0	53.49	6	1	3.370	3.370	10.11	0.7	4.1	19.71	444.81	1986	230
2/0	67.43	6	1	3.782	3.782	11.35	0.7	4.1	20.95	523.21	2404	260
3/0	85.01	6	1	4.247	4.247	12.74	0.7	4.1	22.34	619.86	3002	295
4/0	107.2	6	1	4.77	4.770	14.31	0.7	4.1	23.91	739.18	3786	330
266.8	135.19	18	1	3.092	3.092	15.46	0.7	4.1	25.06	741.72	3120	415
266.8	135.19	26	7	2.573	2.000	16.3	0.7	4.1	25.9	870.54	5125	425
336.4	170.45	18	1	3.472	3.472	17.36	0.7	4.1	26.96	887.29	3936	480
336.4	170.45	26	7	2.888	2.250	18.29	0.7	4.1	27.89	1048.66	6393	490
397.5	201.41	18	1	3.774	3.774	18.87	0.7	4.1	28.47	1012.83	4508	535
397.5	201.41	26	7	3.140	2.440	19.88	0.7	4.1	29.48	1201.01	7393	545
477	241.7	18	1	4.135	4.135	20.68	0.7	4.1	30.28	1173.95	5352	595
477	241.7	26	7	3.439	2.674	21.8	0.7	4.1	31.4	1398.83	8845	610

Calibre (AWG o kcmil)	Sección Transversal (mm ²)	No. Hilos (mín.)	Diámetro del conductor (mm)	Espesor del Semiconductor (mm)	Espesor de aislamiento (mm)	Espesor Cubierta (mm)	Diámetro del cable (mm)	Neto Total Aprox. (kg / km)	Carga de Rotura (kgf)
AAAC 15 kv TRICAPA - CABLE AÉREO CUBIERTO									
48,69	24,7	7	6,36	0,38	1,91	1,91	14,74	205,0	798
77,47	39,2	7	8,01	0,38	1,91	1,91	16,39	269,1	1270
123,3	62,4	7	10,11	0,38	1,91	1,91	18,49	364,9	1936
155,4	78,6	7	11,34	0,38	1,91	1,91	19,73	429,0	2444
195,7	99,3	7	12,75	0,38	1,91	1,91	21,13	508,7	3079
246,9	125	7	14,30	0,38	1,91	1,91	22,69	605,3	3882
312,8	159	19	16,32	0,38	1,91	1,91	24,70	724,8	4988
394,5	200	19	18,30	0,38	1,91	1,91	26,69	870,7	6032
465,4	236	19	19,88	0,51	1,91	1,91	28,52	1008,8	7076
559,5	284	19	21,81	0,51	1,91	1,91	30,45	1175,6	8527
652,4	331	19	23,55	0,51	1,91	1,91	32,18	1336,7	9933
AAAC 25 kv TRICAPA - CABLE AÉREO CUBIERTO									
48,69	24,7	7	6,36	0,38	3,18	3,18	19,84	334,4	798
77,47	39,2	7	8,01	0,38	3,18	3,18	21,49	410,8	1270

123,3	62,4	7	10,11	0,38	3,18	3,18	23,59	522,3	1936
155,4	78,6	7	11,34	0,38	3,18	3,18	24,83	595,6	2444
195,7	99,3	7	12,75	0,38	3,18	3,18	26,23	685,7	3079
246,9	125	7	14,30	0,38	3,18	3,18	27,79	793,9	3882
312,8	159	19	16,32	0,38	3,18	3,18	29,80	928,6	4988
394,5	200	19	18,30	0,38	3,18	3,18	31,79	1089,3	6032
465,4	236	19	19,88	0,51	3,18	3,18	33,62	1241	7076
559,5	284	19	21,81	0,51	3,18	3,18	35,55	1422,0	8527
652,4	331	19	23,55	0,51	3,18	3,18	37,28	1596,2	9933