

Cable Autoportante Application

The Cable Autoportante in English means self-supporting cables, CAAI-S, are used for low power distribution overhead networks cost. in urban and rural areas.

Cable Autoportante is installed both in posts and attached to walls, in both cases, with the necessary accessories. They do not require the use of insulators.

The CAAI cables also called self-supporting cable are used for air networks of secondary distribution low-cost electricity in urban and rural areas. They are installed both in posts and attached to walls, in both cases, with the appropriate accessories. They do not require the use of insulators.

TYPE	Description
CAI	Copper conductor ,xlpe insulated power cable
CAI-S	Copper conductor ,xlpe insulated power cable, steel supporting
CAAI	Aluminum conductor, xlpe insulated power cable
CAAI-S	Aluminum conductor, xlpe insulated power cable, steel supporting

CAAI Self-Supporting Aluminum Conductor Cables Construction

Phase conductor	Hard drawn aluminum conductor (class 2)
Neutral messenger conductor	Galvanized steel conductor
Lighting conductor	Hard drawn aluminum conductor (class 2)
Insulation	XLPE
DESIGNATION	CAAI--- Aluminum conductor with aluminum alloy support conductors, the support conductor can be bare "ND" or insulated "NA ".

CAAI-S

Phase conductor: hard drawn aluminum conductor (class 2)

Phase Core identification: colour strip, rib or number

Lighting Conductor: hard drawn aluminum conductor (class 2)

Neutral/Messenger conductor: insulated galvanized steel conductor

Insulation: black crosslinked polyethylene(XLPE)

Cable Autoportante Aluminum Conductor Cables Standard

NTP 370.254, ICEA S-76-474

CABLE CAAI (ND) CARACTERISTICAS DIMENSIONALES Y ELECTRICAS

FORMACIÓN	Espesor	Diámetro	Peso	Resistencia Max.		Reactancia inductiva a 60		Factor caída de tensión	
	Aislante fase	Exterior (*)	nominal	c.c. a 20 °C ohm/km	Alumb.	hz. ohm/km	Alumb.	(**) V/A. km.	Alumb.
	mm	mm	kg/km	Fase	Alumb.	Fase	Alumb.	Fase	Alumb.
1x16+NA25	1,14	18	160	1,910	--	0,0943	--	3,491	--
2X16+NA25	1,14	18	220	1,910	--	0,0957	--	3,493	--
2X25+NA25	1,14	21	280	1,200	--	0,0873	--	2,223	--
2X35+NA25	1,14	22	340	0,868	--	0,0825	--	1,628	--
2X35+NA35	1,14	23	370	0,868	--	0,0825	--	1,628	--
2X50+NA35	1,52	26	470	0,641	--	0,0832	--	1,225	--
2X70+NA50	1,52	30	660	0,443	--	0,0833	--	0,874	--
2X95+NA70	1,52	34	860	0,320	--	0,0807	--	0,652	--
2X120+NA70	2,03	38	1 020	0,253	--	0,0785	--	0,531	--
2X25+1x16+NA25	1,14	21	340	1,200	1,910	0,0925	0,1093	2,229	3,507
2X35+1x16+NA25	1,14	22	400	0,868	1,910	0,0862	0,1135	1,632	3,511
2X50+1x16+NA35	1,52	26	530	0,641	1,910	0,0843	0,1242	1,227	3,523
2X70+1x16+NA50	1,52	30	720	0,443	1,910	0,0822	0,1352	0,872	3,534
2X95+1x16+NA70	1,52	34	920	0,320	1,910	0,0781	0,1436	0,649	3,543

2X120+1x16+NA70	2,03	38	1 080	0,253	1,910	0,0746	0,1487	0,526	3,548
3X16+NA25	1,14	18	280	1,910	--	0,1030	--	3,500	--
3X25+NA25	1,14	21	370	1,200	--	0,0952	--	2,231	--
3X35+NA25	1,14	22	450	0,868	--	0,0906	--	1,636	--
3X50+NA35	1,52	26	630	0,641	--	0,0912	--	1,234	--
3X70+NA50	1,52	30	880	0,443	--	0,0913	--	0,882	--
3X95+NA50	1,52	34	1 110	0,320	--	0,0888	--	0,660	--
3X95+NA70	1,52	34	1 160	0,320	--	0,0888	--	0,660	--
3X120+NA70	2,03	38	1 410	0,253	--	0,0868	--	0,539	--
3X16+1x16+NA25	1,14	18	340	1,910	1,910	0,1095	0,1095	3,507	3,507
3X25+1x16+NA25	1,14	21	430	1,200	1,910	0,0995	0,1163	2,236	3,514
3X35+1x16+NA25	1,14	22	520	0,868	1,910	0,0935	0,1208	1,639	3,519
3X35+1x16+NA35	1,14	22	560	0,868	1,910	0,0935	0,1208	1,639	3,519
3X35+1x25+NA35	1,14	22	590	0,868	1,200	0,0935	0,0952	1,639	2,231
3X50+1x16+NA35	1,52	26	690	0,641	1,910	0,0925	0,1323	1,235	3,531
3X50+1x25+NA35	1,52	26	720	0,641	1,200	0,0925	0,0952	1,235	2,231
3X70+1x16+NA50	1,52	30	950	0,443	1,910	0,0910	0,1440	0,882	3,543
3X70+1x35+NA50	1,52	30	1 010	0,443	0,868	0,0910	0,0925	0,882	1,234
3X95+1x16+NA70	1,52	34	1 230	0,320	1,910	0,0875	0,1529	0,659	3,552
3X120+1x16+NA70	2,03	38	1 470	0,253	1,910	0,0841	0,1583	0,536	3,558
3X120+1x35+NA70	2,03	38	1 530	0,253	0,868	0,0841	0,0925	0,536	1,234

CABLE CAAI-S CARACTERISTICAS DIMENSIONALES Y ELECTRICAS

FORMACIÓN	Espeor Aislante fase	Dimens. Del portante	Diámetro exterior (*)	Peso nominal	Resistencia Max. c.c. a 20 °C ohm/km		Reactancia inductiva a 60 hz. ohm/km		Factor caída de tensión (**) V/A. km.	
	mm	Nº x mm	mm	kg/km	Fase	Alumb.	Fase	Alumbrado	Fase	Alumbrado
2X16	1,14	7x1.03	16	210	1,910	--	0,0957	--	3,493	--
2X25	1,14	7x1.20	18	290	1,200	--	0,0873	--	2,223	--
2X35	1,14	7x1.20	19	360	0,868	--	0,0825	--	1,628	--
2X50	1,52	7x2.03	23	610	0,641	--	0,0832	--	1,225	--
2X70	1,52	7x2.03	27	730	0,443	--	0,0833	--	0,874	--
2X95	1,52	7x2.03	31	890	0,320	--	0,0807	--	0,652	--
2X120	2,03	7x2.03	34	1 090	0,253	--	0,0785	--	0,531	--
2X25+1x16	1,14	7x1.20	18	370	1,200	1,910	0,0925	0,1093	2,229	3,507
2X35+1x16	1,14	7x1.20	19	430	0,868	1,910	0,0862	0,1135	1,632	3,511
2X50+1x16	1,52	7x2.03	23	690	0,641	1,910	0,0843	0,1242	1,227	3,523
2X70+1x16	1,52	7x2.03	27	810	0,443	1,910	0,0822	0,1352	0,872	3,534
2X95+1x16	1,52	7x2.03	31	1 070	0,320	1,910	0,0781	0,1436	0,649	3,543
2X120+1x16	2,03	7x2.03	34	1 170	0,253	1,910	0,0746	0,1487	0,526	3,548
3X16	1,14	7x1.03	16	290	1,910	--	0,1030	--	3,500	--
3X25	1,14	7x1.20	18	400	1,200	--	0,0952	--	2,231	--
3X35	1,14	7x1.20	19	500	0,868	--	0,0906	--	1,636	--
3X50	1,52	7x2.03	23	820	0,641	--	0,0912	--	1,234	--
3X70	1,52	7x2.03	27	1 000	0,443	--	0,0913	--	0,882	--
3X95	1,52	7x2.03	31	1 340	0,320	--	0,0888	--	0,660	--
3X120	2,03	7x2.03	34	1 540	0,253	--	0,0868	--	0,539	--
3X16+1x16	1,14	7x1.03	16	370	1,910	1,910	0,1095	0,1095	3,507	3,507

3X25+1x16	1,14	7x1.20	18	480	1,200	1,910	0,0995	0,1163	2,236	3,514
3X25+2x16	1,14	7x1.20	18	560	1,200	1,910	0,0995	0,1163	2,236	3,514
3X35+1x16	1,14	7x1.20	19	580	0,868	1,910	0,0935	0,1208	1,639	3,519
3X50+1x16	1,52	7x2,03	23	900	0,641	1,910	0,0925	0,1323	1,235	3,531
3X70+1x16	1,52	7x2,03	27	1 080	0,443	1,910	0,0910	0,1440	0,882	3,543
3X95+1x16	1,52	7x2,03	31	1 420	0,320	1,910	0,0875	0,1529	0,659	3,552
3X120+1x16	2,03	7x2,03	34	1 620	0,253	1,910	0,0841	0,1583	0,536	3,558