



CONDUCTORS



BARE CONDUCTOR AAC

Description:

The product is widely used in overhead electrical distribution system, and it is one of the main products for the formation of electrified wire network.

Conductor Size		Code Words	AWG	Stranding		Mass Kg/km	Rated Strength kN	DC Resistance at 20°C
cmil	mm ²			No.	mm			
48690	199.9	Darien		19	4.36	778.3	83.1	0.1181
77470	235.8	Cairo		19	3.98	648.6	69.2	0.1417
195700	375.4	Alliance	0000	7	4.77	343.2	37.8	0.2678
312800	545.9	Anaheim	00	7	3.78	215.6	23.8	0.4264
394500	590.4	Azuza	0	7	3.37	171.3	18.9	0.5365

Otros tamaños disponibles a solicitud.



INSULATED CONDUCTOR

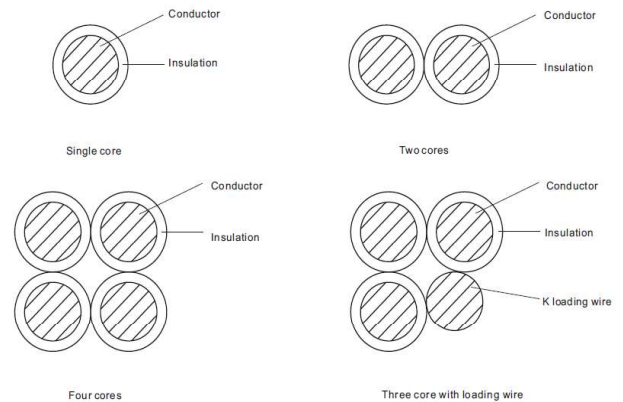
Description:

The insulated conductors can be installed on streets with dense trees near buildings, in urban construction and on the transformer line. Using this cable, it is not necessary to prune tree branches, thus reducing the distance across and parallel to the cable. It is easy to install and highly mobile.

Insulated conductors are available single-core, two-core, three-core, and four-core. There are aluminum, copper or steel conductors reinforced aluminum conductors.

Code Word	AWG or kcmil	Bare Neutral Messenger			Phase Conductor			Weight kg/km	Allowable Ampacities (A)	
		AAC Number	AAC Dia. Mm	Rated Strength lbs.	AAC Number	AAC Dia. Mm	Insul. Thick Mm		XLPE	PE
Nassa	2*2/0AWG+1*2/0AWG	7	3.50	2510	7	3.50	1.52	671	235	185
Portunus	2*4/0AWG+1*4/0AWG	19	3.25	4020	19	3.25	1.52	1476	315	245

Otros tamaños disponibles a solicitud.



LOW VOLTAGE CONDUCTOR THW

Description:

The product is widely used in wet or dry places, in PVC insulation material, oil resistant.

Part. No.	Conductor				Insulation			Ref. W. (kg / km)
	Type	Size (AWG)	Construction (No. -mm)	Diameter (mm)	Nominal Thickness (mm)	Nominal Diameter (mm)	Maximum Diameter (mm)	
THW-14B	Stranded conductor	14	7/0.62	1.86	0.76	3.42	3.8	29.1
THW-12B		12	7/0.78	2.34	0.76	3.90	4.4	42.2
THW-10B		10	7/0.98	2.94	0.76	4.50	5.0	62.3
THW-8B		8	7/1.23	3.69	1.14	6.01	6.7	103.1
THW-6B		6	7/1.56	4.68	1.52	7.76	8.7	169.2
THW-4B		4	7/1.96	5.88	1.52	8.96	10.0	249.5
THW-3B		3	7/2.20	6.60	1.52	9.68	10.8	306.2
THW-2B		2	7/2.47	7.41	1.52	10.49	11.7	376.4
THW-1B		1	19/1.68	8.40	2.03	12.50	14.0	487.8
THW-1/0B		1/0	19/1.89	9.45	2.03	13.55	15.1	600.7
THW-2/0B		2/0	19/2.12	10.60	2.03	14.70	16.4	739.2
THW-3/0B		3/0	19/2.38	11.90	2.03	16.00	17.8	912.4
THW-4/0B		4/0	19/2.67	13.35	2.03	17.45	19.4	1130.2

Part. No.	Conductor				Insulation			Ref. W. (kg / km)
	Type	Size (AWG)	Construction (No. -mm)	Diameter (mm)	Nominal Thickness (mm)	Nominal Diameter (mm)	Maximum Diameter (mm)	
THW-14A	Solid conductor	14	1/1.63	1.63	0.76	3.19	3.6	27.5
THW-12A		12	1/2.05	2.05	0.76	3.61	4.0	39.9
THW-10A		10	1/2.59	2.59	0.76	4.15	4.6	59.1
THW-8A		8	1/3.26	3.26	1.14	5.58	6.3	98.5



LOW VOLTAGE CONDUCTOR THHN

Description:

The product is widely used in dry places, in PVC insulation material and Nylon cover, oil resistant.

Part. No.	Conductor				Insulation		Maximum Diameter (mm)	Ref. W. (kg / km)
	Type	Size (AWG)	Construction (No. -mm)	Diameter (mm)	Nominal Thickness (mm)	Nominal Diameter (mm)		
THHN-14B	Stranded conductor	14	7/0.62	1.86	0.38	2.66	3.3	25.2
THHN-14B1		14	19/0.38	1.90	0.38	2.70	3.4	25.4
THHN-12B		12	7/0.78	2.34	0.38	3.14	3.8	38.2
THHN-12B1		12	19/0.47	2.35	0.38	3.15	3.8	38.6
THHN-10B		10	7/0.98	2.94	0.51	4.00	4.8	59.1
THHN-10B1		10	19/0.60	3.00	0.51	4.06	4.8	59.6
THHN-8B		8	7/1.23	3.69	0.76	5.25	6.2	97.1
THHN-8B1		8	19/0.75	3.75	0.76	5.32	6.3	96.7
THHN-6B		6	7/1.56	4.68	0.76	6.24	7.3	147.0
THHN-6B1		6	19/0.95	4.77	0.76	6.33	7.4	146.5
THHN-4B		4	7/1.96	5.88	0.76	7.44	8.7	135.8
THHN-4B1		4	19/1.19	5.95	0.76	7.51	8.7	135.7
THHN-3B		3	7/2.20	6.60	1.02	8.68	10.0	292.2
THHN-3B1		3	19/1.33	6.65	1.02	8.73	10.0	291.6
THHN-2B		2	7/2.47	7.41	1.02	9.49	11.0	361.5
THHN-2B1		2	19/1.50	7.50	1.02	9.58	11.0	361.0
THHN-1B	1	19/1.68	8.40	1.02	10.48	12.1	457.8	
THHN-1/0B	1/0	19/1.89	9.45	1.27	12.03	13.8	585.6	
THHN-2/0B	2/0	19/2.12	10.60	1.27	13.18	15.1	724.7	
THHN-3/0B	3/0	19/2.38	11.90	1.27	14.48	16.5	900.2	
THHN-4/0B	4/0	19/2.67	13.35	1.27	15.93	18.1	1118.2	

Part. No.	Conductor				Insulation		Maximo diameter (mm)	Ref. W. (kg / km)
	Type	Size (AWG)	Construction (No. -mm)	Diameter (mm)	Nominal Thickness (mm)	Nominal Diameter (mm)		
THHN-14A	Solid conductor	14	1/1.63	1.63	0.38	2.43	3.1	22.6
THHN-12A		12	1/2.05	2.05	0.38	2.85	3.5	36.1
THHN-10A		10	1/2.59	2.59	0.51	3.65	4.4	57.4
THHN-8A		8	1/3.26	3.26	0.76	4.82	5.7	94.7



COPPER STEEL CONDUCTOR

Grade 40HS

Size		Conductor Dia	Rate Breaking Strength Min	Max Resistance
Inch	AWG	in	lb	Ohms/1000ft
5/16	7 NO.10	0.306	7121	0.3676
5/16	3 NO.6	0.349	6934	0.3385



Other sizes available upon request.

RETAINED CONDUCTOR

Number of Wires/Dia	Approx. Strand Dia		Siemens-Martin Grade	High Strength Grade	Extra-high Strength Grade	Approx. Weight
	Inch	mm	kN	kN	kN	
3/3.68	5/16	7.94	18.193	28.246	40.479	256
3/4.19	3/8	9.52	24.732	37.187	52.489	328
7/3.68	7/16	11.11	41.591	64.499	92.523	594

Other sizes available upon request.

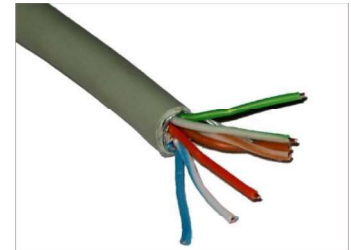
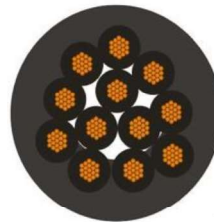


CONTROL CONDUCTOR

Type	Nominal section (mm)	Number/diameter of core (mm)	Maximum outer diameter (mm)	Reference weight (kg/km)		Conductor resistance at 20°C	
				copper	aluminium	aluminium	copper
BV BLV (BV-90) 450/750V	2.5 (A)	1/1.78	3.9	31.6	17	11.80	7.41
	2.5 (B)	7/0.68	4.2	34.8			7.41

Type	Nominal section (mm)	Structure of cores core x number/diameter (mm)	Maximum value of outer diameter (mm)	Reference weight (kg/km)
BVV 450/750V	5 x 1.5(A)	5 x 1/1.38	12.0	192
RVV 300/500V	2 x 1.5	2 x 30/0.25	88	74.7

Other sizes available upon request.



CONCENTRIC CONDUCTOR

Concentric conductor consists of one or two conductors which in turn are covered with a bare conductor helically distributed around the conductors.

Features	Phase						Neutral			Interior tape thickness (mm ²)	Exterior Thickness for PE cover (mm ²)
	No. of wires	Wire diameter (mm)	Phase diameter (mm)	Phase area (mm ²)	Phase insulation thickness (mm) (PE)	Diameter over insulation	No. of wires	Wire diameter (mm)	Area of Neutral (mm ²)		
#8 x 2	7	1,234	3.71	3.43	1.14	5.99	37	0.536	8.349	0.05	1.14
#6 x 3	7	1,555	4.67	13.3	1.14	6.95	37	0.676	13.280		1.14
#4 x 3	7	1,961	5.89	21.15	1.14	8.17	65	0.643	21.107		1.14
#2 x 3	7	2,473	7.42	33.62	1.14	9.7	65	0.823	34.578		1.14

