

33 KV AAAC COVERED CONDUCTOR SS 4240814 / EN 50182:2001 / EN50397:2006

Code	Old Code	Sectional Area	Stranding		Bare Conductor Diameter	Covered Conductor Diameter	Bare Conductor Weight	Covered Conductor Weight	Rated Strength	DC Resistance @ 20°C
			No.of wires	Wire Size						
			mm ²	No.						
70-AL3	70	70.3	19	2.17	10.90	16.10	192.9	368.9	20.73	0.4707
93-AL3	95	93.3	19	2.50	12.50	17.70	256.0	450.2	27.51	0.3546
117-AL3	120	117.0	19	2.80	14.00	19.20	321.2	532.4	34.51	0.2827
120-AL3	120	120.4	19	2.84	14.20	19.40	330.4	543.8	35.51	0.2748
147-AL3	150	147.1	37	2.25	15.80	21.00	405.3	638.8	43.4	0.2256
182-AL3	185	181.6	19	2.50	17.50	22.70	500.3	753.0	53.58	0.1827
239-AL3	240	239.4	19	4.01	20.05	25.25	659.4	938.8	70.61	0.1387
243-AL3	240	242.5	61	2.25	20.30	25.50	670.3	952.5	71.55	0.1373
62-AL7	62	62.4	7	3.37	10.10	15.30	170.5	337.4	17.17	0.4858
70-AL7	70	70.0	19	2.17	10.85	16.05	192.9	367.8	21.00	0.4333
99-AL7	99	99.3	7	4.25	12.80	18.00	271.1	468.7	25.32	0.3055
120-AL7	120	117.0	18	2.80	14.00	19.20	321.2	530.9	33.9	0.2604
159-AL7	157	158.6	19	3.26	16.30	21.50	435.4	672.6	43.61	0.1923
241-AL7	241	241.2	19	4.02	20.10	25.30	662.1	942.0	61.49	0.1265
62-AL59	62.44	37.1	7	3.37	10.11	15.31	170.0	337.0	15.6	0.4700
70-AL59	70	70.0	19	2.17	10.85	16.05	192.9	367.8	17.5	0.4196
99-AL59	99.3	58.9	7	4.25	12.75	17.95	271.0	466.0	22.8	0.2960
120-AL59	120	117.0	19	2.80	14.00	19.20	321.2	530.9	29.2	0.2520
157-AL59	158.59	94.1	19	3.26	16.30	21.50	436.0	673.2	39.7	0.1860
241-AL59	241.16	143.1	19	4.02	20.10	25.30	663.0	942.9	55.5	0.1230

33 KV AAAC COVERED CONDUCTOR IS 398 P-4:1994 / EN50397:2006

Code Name	Area Code	Actual Area	Stranding		Bare Conductor Diameter	Covered Conductor Diameter	Bare Conductor Weight	Covered Conductor Weight	Rated Strength	DC Resistance @ 20°C (Max)
			No.of wires	Wire Size						
			(mm ²)	(mm ²)						
Rabbit	55	55	7	3.15	9.45	14.65	149.20	306.2	16.03	0.6210
Racoon	80	80	7	3.81	11.43	16.63	218.26	398.8	23.41	0.4250
Dog	100	100	7	4.26	12.78	17.98	272.86	469.2	29.26	0.3390
Dog (Up)	125	125	19	2.89	14.45	19.65	342.51	558.0	36.64	0.2735
Coyote	148	148	19	3.15	15.75	20.95	406.91	637.4	43.50	0.2290
Wolf	173	173	19	3.40	17.00	22.20	474.02	719.1	50.54	0.1969
Wolf (Up)	200	200	19	3.66	18.30	23.50	549.40	809.6	58.66	0.1710
Panther	232	232	19	3.94	19.70	24.90	636.67	913.1	68.05	0.1471





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33 KV ACSR COVERED CONDUCTOR BS 215:1970 / EN50397:2006

Code Name	Nominal Area	Sectional Area (mm ²)	Stranding		Wire diameter		Diameter of Bare Conductor (mm)	Diameter of Covered Conductor (mm)	Conductor Weight (Kg/km)	Covered Conductor Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)
			No. of Wires		AL	Steel						
			AL	Steel	AL	Steel						
DOG	100	118.5	6	7	4.72	1.57	14.15	19.35	394	606	32.7	0.2733
WOLF	150	194.9	30	7	2.59	2.59	18.13	23.33	726	984	69.2	0.1828
DING	150	167.5	18	1	3.35	3.35	16.75	21.95	506	749	35.7	0.1815

33 KV ACSR COVERED CONDUCTOR IS 398 P-2:1996 / EN50397

Code Name	Nominal Area	Sectional Area (mm ²)	Stranding		Wire diameter		Diameter of Bare Conductor (mm)	Diameter of Covered Conductor (mm)	Conductor Weight (Kg/km)	Covered Conductor Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)
			No. of Wires		AL	Steel						
			AL	Steel	AL	Steel						
Rabbit	50	61.70	6	1	3.35	3.35	10.05	15.25	214	379.3	18.3	0.5524
Racoon	80	91.97	6	1	4.09	4.09	12.27	17.47	319	509.3	26.9	0.3712
Dog	100	118.50	6	7	4.72	1.57	14.15	19.35	394	607.4	32.4	0.2792
Wolf	150	194.90	30	7	2.59	2.59	18.13	23.33	726	984.3	67.3	0.1871

11 KV AAAC-AL3 COVERED CONDUCTOR EN 50182:2001 / EN50397:2006

Code	Old Code	Sectional Area mm ²	Stranding		Bare Conductor Diameter mm	Covered Conductor Diameter mm	Bare Conductor Weight Kg/Km	Covered Conductor Weight Kg/Km	Rated Strength KN	DC Resistance @ 20°C Ω/Km
			No. of wires	Wire Size						
			No.	mm						
16-AL3	16	15.9	7	1.70	5.10	10.30	43.4	104.0	4.69	2.0701
24-AL3	25	24.3	7	2.10	6.30	11.50	66.2	135.9	7.15	1.3566
25-AL3	25	25.2	7	2.14	6.42	11.62	68.7	139.8	7.43	1.3064
34-AL3	35	34.4	7	2.50	7.50	12.70	93.8	173.5	10.14	0.9572
49-AL3	50	49.5	7	3.00	9.00	14.20	135.1	226.6	14.6	0.6647
66-AL3	70	65.8	19	2.10	10.50	15.70	180.7	284.0	19.41	0.5026
70-AL3	70	70.3	19	2.17	10.90	16.10	192.9	299.2	20.73	0.4707
93-AL3	95	93.3	19	2.50	12.50	17.70	256.0	374.7	27.51	0.3546
117-AL3	120	117.0	19	2.80	14.00	19.20	321.2	451.6	34.51	0.2827
120-AL3	120	120.4	19	2.84	14.20	19.40	330.4	462.8	35.51	0.2748
147-AL3	150	147.1	37	2.25	15.80	21.00	405.3	550.0	43.4	0.2256
182-AL3	185	181.6	37	2.50	17.50	22.70	500.3	658.1	53.58	0.1827
239-AL3	240	239.4	37	2.87	20.10	25.30	659.4	836.3	70.61	0.1387



11 KV AAAC COVERED CONDUCTOR IS 398 P-4:1994 / EN50397:2006

Code Name	Area Code	Actual Area	Stranding		Bare Conductor Diameter	Covered Conductor Diameter	Bare Conductor Weight	Covered Conductor Weight	Rated Strength	Resistance @ 20°C (Max)
			No.of wires	Wire Size						
	(mm ²)	(mm ²)	(No.)	(mm)	(mm)	(mm)	Kg/Km	Kg/Km	(KN)	(Ω/Km)
Mole	15	15	3	2.50	5.39	10.59	40.15	103.7	4.33	2.3040
Squirrel	22	22	7	2.00	6.00	11.20	60.16	128.6	6.45	1.5410
Weasel	34	34	7	2.50	7.50	12.70	94.00	173.9	10.11	0.9900
Rabbit	55	55	7	3.15	9.45	14.65	149.20	244.1	16.03	0.6210
Racoon	80	80	7	3.81	11.43	16.63	218.26	328.5	23.41	0.4250
Dog	100	100	7	4.26	12.78	17.98	272.86	393.7	29.26	0.3390
Dog (Up)	125	125	19	2.89	14.45	19.65	342.51	476.2	36.64	0.2735
Coyote	148	148	19	3.15	15.75	20.95	406.91	550.8	43.50	0.2290
Wolf	173	173	19	3.40	17.00	22.20	474.02	627.6	50.54	0.1969
Wolf (Up)	200	200	19	3.66	18.30	23.50	549.40	713.1	58.66	0.1710
Panther	232	232	19	3.94	19.70	24.90	636.67	811.2	68.05	0.1471

11 KV ACSR COVERED CONDUCTOR BS 215:1970 / EN50397:2006

Code Name	Nominal Area	Sectional Area	Stranding		Wire diameter		Diameter of Bare Conductor	Diameter of Covered Conductor	Conductor Weight	Covered Conductor Weight	Rated Strength	DC Resistance @ 20°C
			No. of Wires		AL	Steel						
		(mm ²)	(No.)	(No.)	(mm)	(mm)	(mm)	(mm)	(Kg/km)	(Kg/km)	KN	(Ω/Km)
GOPHER	25	30.6	6	1	2.36	2.36	7.08	12.28	106	183	9.6	1.0930
WEASEL	30	36.9	6	1	2.59	2.59	7.77	12.97	128	210	11.5	0.9077
FERRET	40	49.5	6	1	3.00	3.00	9.00	14.20	172	263	15.2	0.6766
RABBIT	50	61.7	6	1	3.35	3.35	10.05	15.25	214	314	18.4	0.5426
HORSE	70	116.2	12	7	2.79	2.79	13.95	19.15	538	668	61.2	0.3936
DOG	100	118.5	6	7	4.72	1.57	14.15	19.35	394	525	32.7	0.2733
WOLF	150	194.9	30	7	2.59	2.59	18.13	23.33	726	888	69.2	0.1828
DINGO	150	167.5	18	1	3.35	3.35	16.75	21.95	506	658	35.7	0.1815

11 KV ACSR COVERED CONDUCTOR IS 398 P-2:1996 / EN50397

Code Name	Nominal Area	Sectional Area (mm ²)	Stranding		Wire diameter		Diameter of Bare Conductor (mm)	Diameter of Covered Conductor (mm)	Conductor Weight (Kg/km)	Covered Conductor Weight (Kg/km)	Rated Strength KN	DC Resistance @ 20°C (Ω/Km)
			No. of Wires									
			AL	Steel	AL	Steel						
		(No.)	(No.)	(mm)	(mm)							
Mole	10	12.37	6	1	1.50	1.50	4.50	9.7	43	100.1	4.0	2.7800
---	18	21.12	6	1	1.96	1.96	5.88	11.08	73	140.5	6.7	1.6180
Squirrel	20	24.48	6	1	2.11	2.11	6.33	11.53	85	155.9	7.6	1.3940
Weasel	30	36.88	6	1	2.59	2.59	7.77	12.97	128	210.8	11.1	0.9289
Rabbit	50	61.70	6	1	3.35	3.35	10.05	15.25	214	314.9	18.3	0.5524
Racoon	80	91.97	6	1	4.09	4.09	12.27	17.47	319	436.2	26.9	0.3712
Dog	100	118.50	6	7	4.72	1.57	14.15	19.35	394	527.0	32.4	0.2792
Wolf	150	194.90	30	7	2.59	2.59	18.13	23.33	726	888.5	67.3	0.1871

