

AAAC (All Alloy Aluminium Conductors)

CABLE STANDARDS

BS EN 50182



APPLICATION

Used as bare overhead transmission cable and as primary and secondary distribution cable. AAAC offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity.

CONSTRUCTION

Conductor

Class 2 stranded aluminum alloy conductor

CHARACTERISTICS

Voltage Rating (U₀/U) (Um)

Test Voltage

Temperature Rating

-20°C to +90°C

Minimum Bending Radius

15 x Overall Diameter

AAAC (All Alloy Aluminium Conductors)

Technical Specifications

Size	Construction (stranding and wire diameter) N/mm	Max DC Conductor Resistance at 20°C Ω.km	Final modulus of elasticity N/mm2	Rated Strength kN Approx	Current carrying capacity A	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
50	7x2.95	0.6647	60000	14.11	222	8.95	131
70	7x3.61	0.4591	60000	21.14	290	10.5	196
120	19x2.8	0.2827	60000	34.51	404	14.0	321
150	19x3.14	0.2256	57000	43.40	425	15.8	406
185	19x3.48	01830	60000	53.31	540	17.5	496

AAA-CC (All Alloy Aluminium Conductors Cover) 20 KV

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Used as bare overhead transmission cable and as primary and secondary distribution cable. AAACC offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing ampacity.

CONSTRUCTION

Conductor

Class 2 stranded aluminum alloy conductor

Sheath

XLPE (Cross-linked polyethylene)

CHARACTERISTICS

Voltage Rating (U0.U) (Um)

20 KV

Spark Test

Temperature Rating

-20°C to +90°C

Minimum Bending Radius

15 x Overall Diameter

AAA-CC (All Alloy Aluminium Conductors Cover) 20 KV

Technical Specifications

code	Construction (stranding and wire diameter) N/mm	Max DC Conductor Resistance at 20°C Ω.km	Final modulus of elasticity N/mm2	Rated Strength kN Approx	Current carrying capacity A	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
70	7x3.75	0.4467	60000	21.67	273	16.0	300
120	19x2.95	0.2674	60000	36.39	416	19.0	465
150	19x3.19	0.2098	57000	35.57	504	19.9	524
185	19x3.50	0.1900	60000	51.23	613	21.9	625

AAA-CC (All Alloy Aluminium Conductors Cover) 33 KV

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CONSTRUCTION

Conductor

Class 2 stranded aluminum alloy conductor

Sheath

XLPE (Cross-linked polyethylene)

CHARACTERISTICS

Voltage Rating (U0.U) (Um)

33 KV

Spark Test

Temperature Rating

-20°C to +90°C

Minimum Bending Radius

15 x Overall Diameter

AAA-CC (All Alloy Aluminium Conductors Cover) 33 KV

Technical Specifications

code	Construction (stranding and wire diameter) N/mm	Max DC Conductor Resistance at 20°C Ω.km	Final modulus of elasticity N/mm2	Rated Strength kN Approx	Current carrying capacity A	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
70	7x3.75	0.4467	60000	21.67	273	19.2	367
120	19x2.95	0.2674	60000	36.39	416	22.2	546
150	19x3.19	0.2098	57000	35.57	504	22.5	608
185	19x3.50	0.1900	60000	51.23	613	24.9	716