

## AAAC Covered Conductor



### Standards

IEC 61089  
DIN 48200-6  
EN 50182

### Application

The XLPE covered conductors are used primarily for, but not limited to, overhead secondary distribution lines. Installed on insulators, otherwise treated as a bare conductor.

The conductors are sometimes referred to as “Weather-Resistant Line Wire” and may consist of AAAC over which a covering has been applied

- Conductor: Compacted Aluminum Alloy
- Water Blocking: Water Blocking Material
- Covering: XLPE

### Product Parameter

Code Name	Stranding		Overall Diameter	Conductor Weight	Insulation Thickness	Breaking Load	DC. Electrical Resistance at 20°C
	No.	Φmm	before compacting mm	before compacting kg/km	mm	before compacting kN	before compacting Ω/km
15 kV							
35mm <sup>2</sup> AAAC	7	2.50	7.50	93.8	4.5±0.1	10.14	0.957
50mm <sup>2</sup> AAAC	19	1.80	9.00	135.2	4.5±0.1	14.60	0.6647
70mm <sup>2</sup> AAAC	19	2.10	10.50	181.0	4.5±0.1	19.41	0.5026
95mm <sup>2</sup> AAAC	19	2.50	12.50	256.0	4.5±0.1	27.51	0.3546
120mm <sup>2</sup> AAAC	19	2.80	14.00	321.2	4.5±0.1	34.51	0.2827
150mm <sup>2</sup> AAAC	37	2.25	15.87	405.0	4.5±0.1	43.40	0.2256
185mm <sup>2</sup> AAAC	37	2.50	17.50	500.3	4.5±0.1	53.58	0.1827
240mm <sup>2</sup> AAAC	61	2.25	20.30	670.3	4.5±0.1	71.55	0.1373
33 kV							
35mm <sup>2</sup> AAAC	7	2.50	7.50	93.8	8.0±0.1	10.14	0.957
50mm <sup>2</sup> AAAC	19	1.80	9.00	135.2	8.0±0.1	14.60	0.6647
70mm <sup>2</sup> AAAC	19	2.10	10.50	181.0	8.0±0.1	19.41	0.5026
95mm <sup>2</sup> AAAC	19	2.50	12.50	256.0	8.0±0.1	27.51	0.3546
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