



## • Application

The Self-supporting Isolated and Projected (SIP) cable, also known as ABC Cable, revolutionizes overhead power distribution, offering superior safety, reliability, and efficiency compared to traditional bare conductor systems. Tano Cable's SIP cables are engineered to provide 0.6/1kV, 20kV, and 35kV aerial service, catering to various applications including temporary service at construction sites, service drops (from power pole to service entrance), secondary cable connections (pole to pole), and street lighting installations. These cables feature reinforced insulation for enhanced durability.

## • Performance

**Electrical Performance:** Supports voltages of 0.6/1kV, 20kV, and 35kV.

**Chemical Performance:** Resistant to chemicals, UV rays, and oil, ensuring longevity in harsh environments.

**Mechanical Performance:** Offers excellent flexibility with a minimum bending radius of 18 times the cable diameter.

**Thermal Performance:**

Maximum Service Temperature: 90°C

Maximum Short-circuit Temperature: 250°C (for up to 5 seconds)

Minimum Service Temperature: -40°C

## • Description

**SIP-1 AMKA (Finland):**

Self-supporting wire with aluminum conductors, insulated with light-stabilized cross-linked polyethylene, featuring a zero-bearing insulated aluminum alloy conductor. Can accommodate one, two, or three auxiliary cores for different applications.

**SIP-2 Torsada (France):**

Self-supporting wire with aluminum conductors, insulated with light-stabilized cross-linked PE, featuring a zero-load-bearing insulated aluminum alloy conductor.

**SIP-3 SAX (Finland) PAS-W (Poland):**

Protected self-supporting wire with a conductive core made of aluminum alloy, featuring protective insulation made of light-stabilized cross-linked PE.

**SIP-4, SIP-5 ALUS, EX Four Core (Sweden), AsXsn (Poland):**

Self-supporting insulated wire without a bearing element, featuring aluminum conductors with light-stabilized cross-linked PE insulation. Available in stranded conductors with a cross-section of 16 mm<sup>2</sup> (SIP-4) or 16 to 150 mm<sup>2</sup> (SIP-5). Seamless conductors with a cross-section of 16 mm<sup>2</sup> are also available for SIP-5.

## • Construction

**Phase Conductor:**

Features rounded, stranded, and compressed (RM) aluminum conductor for optimal conductivity and strength.

**Insulation:**

Insulated with black UV-resistant crosslinked polyethylene (UV-XLPE) for robust protection against environmental factors.

## • Specification

-GOST 31946 Standard Self-supporting Isolated and Projected SIP cable

## • Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

## • Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



## • National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

\*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

## ● Technical Parameters

SIP-1 0.6/1KV				
No. of Cores × Nominal Cross Section Area	Nominal Thickness Of Phase Insulation	Overall Dia.	Weight	Max. Conductor Resistance
No.×mm <sup>2</sup>	mm	mm	kg/km	Ω/km
1x16+1x25	1.3	15	135	1.91
3x16+1x25	1.3	22	270	1.91
3x25+1x35	1.3	26	390	1.2
3x35+1x50	1.3	30	530	0.868
3x50+1x50	1.5	32	685	0.641
3x50+1x70	1.5	35	740	0.641
3x70+1x70	1.7	37	930	0.443
3x70+1x95	1.7	41	990	0.443
3x95+1x70	1.7	41	1190	0.32
3x95+1x95	1.7	43	1255	0.32
3x120+1x95	1.7	46	1480	0.253
3x150+1x95	1.7	48	1715	0.206
3x185+1x95	1.9	52	2330	0.164
3x240+1x95	1.9	56	2895	0.125

SIP-2 0.6/1KV				
No. of Cores × Nominal Cross Section Area	Nominal Thickness Of Phase Insulation	Overall Dia.	Weight	Max. Conductor Resistance
No.×mm <sup>2</sup>	mm	mm	kg/km	Ω/km
3x16+1x25	1.3	24	308	1.91
3x16+1x54.6	1.3	28	427	1.91
3x25+1x35	1.3	27	424	1.2
3x25+1x35	1.3	30	512	1.2
3x25+1x54.6	1.3	31	571	1.2
3x35+1x50	1.3	32	606	0.868
3x35+1x54.6	1.3	34	727	0.868
3x50+1x50	1.5	35	762	0.641
3x50+1x54.6	1.5	36	798	0.641
3x50+1x70	1.5	39	973	0.641
3x70+1x70	1.7	40	1010	0.443
3x70+1x95	1.7	41	1087	0.443
3x95+1x70	1.7	43	1240	0.32
3x95+1x95	1.7	45	1319	0.32
3x120+1x95	1.7	48	1553	0.253
3x150+1x95	1.7	50	1787	0.206
3x185+1x95	1.9	55	2403	0.164
3x240+1x95	1.9	60	2968	0.125

## ● Technical Parameters

SIP-3 20KV				
No. of Cores × Nominal Cross Section Area	Nominal Thickness Of Phase Insulation	Overall Dia.	Weight	Max. Conductor Resistance
No.×mm <sup>2</sup>	mm	mm	kg/km	Ω/km
1×35	2.3	12	165	0.986
1×50	2.3	13	215	0.72
1×70	2.3	15	282	0.63
1×95	2.3	16	364	0.363
1×120	2.3	18	445	0.288
1×150	2.3	19	540	0.236
1×185	2.3	21	722	0.188
1×240	2.3	24	950	0.145

SIP-3 35KV				
No. of Cores × Nominal Cross Section Area	Nominal Thickness Of Phase Insulation	Overall Dia.	Weight	Max. Conductor Resistance
No.×mm <sup>2</sup>	mm	mm	kg/km	Ω/km
1×35	3.5	14	209	0.986
1×50	3.5	16	263	0.72
1×70	3.5	17	334	0.63
1×95	3.5	19	421	0.363
1×120	3.5	20	518	0.288
1×150	3.5	22	618	0.236
1×185	3.5	24	808	0.188
1×240	3.5	26	1045	0.145

SIP-4 0.6/1KV				
No. of Cores × Nominal Cross Section Area	Nominal Thickness Of Phase Insulation	Overall Dia.	Weight	Max. Conductor Resistance
No.×mm <sup>2</sup>	mm	mm	kg/km	Ω/km
2×16	1.3	15	139	1.91
4×16	1.3	18	278	1.91
2×25	1.3	17	196	1.2
4×25	1.3	21	392	1.2

### Note:

The conductor diameter of phase core and neutral core ,the overall diameter and weight of complete cable are only approximate.Limited tolerances are acceptable.