

Transmission Vibration Damper Calculation Software



Overhead transmission lines are subject to various environmental constraints including vibrations induced by wind which can cause failure in absence of damping system.

The Sicame software determines the optimum system thanks to Sicame vibration damper in order to control aeolian vibration on a conductor for an overhead transmission line. The engine of the software is based on the energy balance principle.

Expertise

- Sicame engineering experience in vibration damping analysis
- Successful protective vibration damper (Stockbridge) in worldwide
- Collaboration with politecnico di milano

Easy to use

- Easy use with automatic filled
- Big database of conductor, fittings
- User-friendly interface
- Automatic calculation and report
- Metric or imperial units

Personalised modelisation

- Dedicated calculation for each application
- Conductor
- Fittings
- Exact detail of line with spans lengths, tension by section, type of terrain

Application field

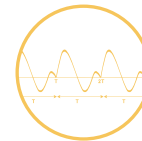
- Aeolian Vibration
- Single Conductor
- ACSR, AAC, GSW, OPGW
- 50 to 800m Span length

Fast vibration analysis in 3 steps



Raw data

- Time domain (s)
- Acceleration
- Amplitude
- Wind speed
- Frequency 10



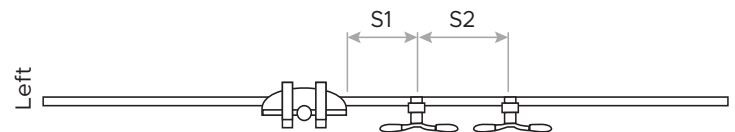
Fast fourier transform

- Frequency domain (Hz)
- Deformation (μ strain)
- Fymax (mm/s)
- Displacement



Fatigue analysis

- S-N Fatigue curve
- Estimated lifespan of conductor



Span length range	No of Dampers	Suspension clamps			
		Damper placement			
		Left		Right	
		S1	S2	S4	S3
20-296	1	A 100			
296-512	2	A 151			A 160
512-800	4	A 160	A 129	A 129	A 160