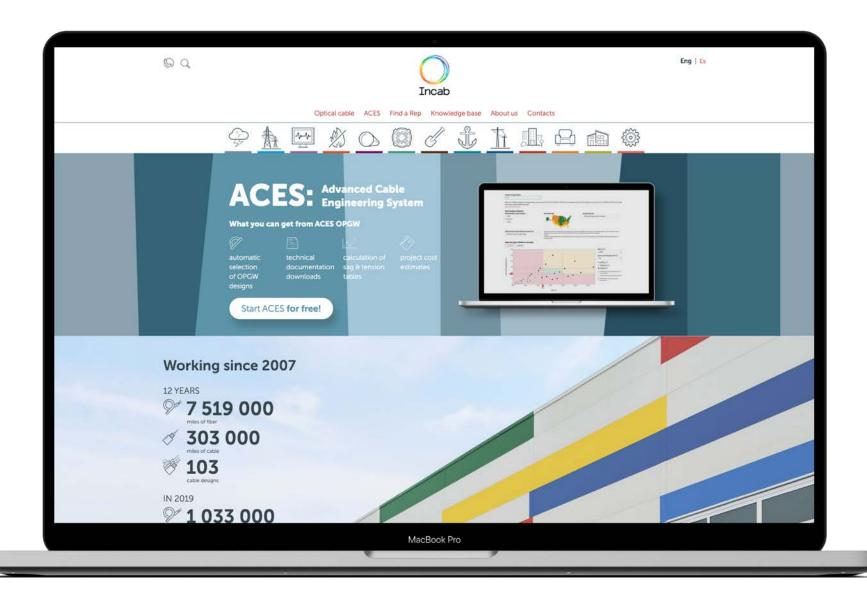


ACES:

Advanced Cable Engineering System

ACES ADVANCED CABLE ENGINEERING SYSTEM

A unique software tool to help engineers select the optimal cable design along with the associated accessories.



ACES

ADVANCED CABLE ENGINEERING SYSTEM

Key features:





Absolutely free



Quick registration



Fast



Simple



Made with love

Option to:

- save your project
- download technical documentation
- get sag and tension calculation

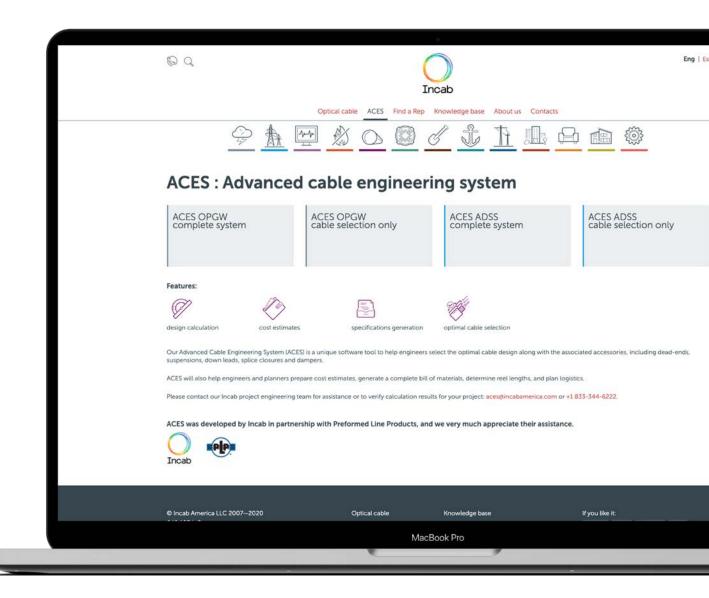




ACES ADVANCED CABLE ENGINEERING SYSTEM

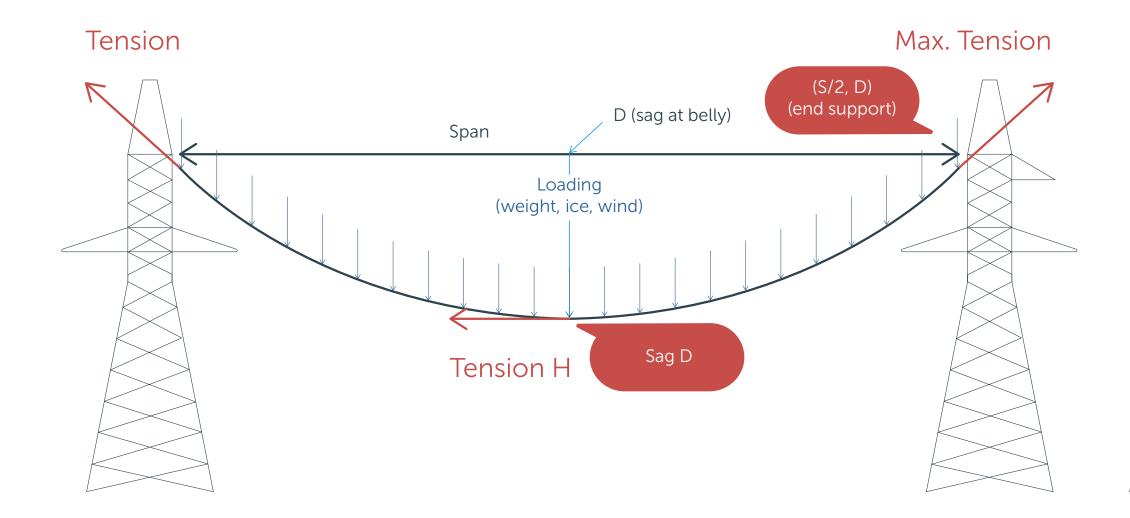
There are 2 main versions of ACES:

- for OPGW: Optical Ground Wire
- for ADSS: All-Dielectric Self-Supporting Cable



ACES TECHNICAL NOTES

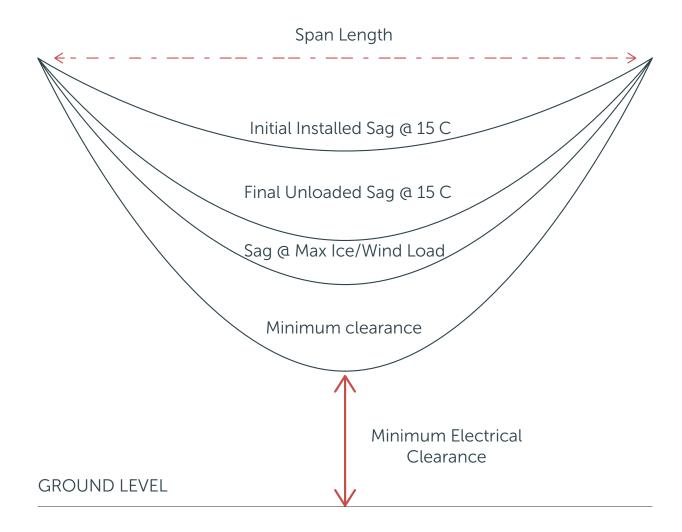
Effect of the span length and sag tension on the cable condition



According to IEEE Sag-Ten Tutorial

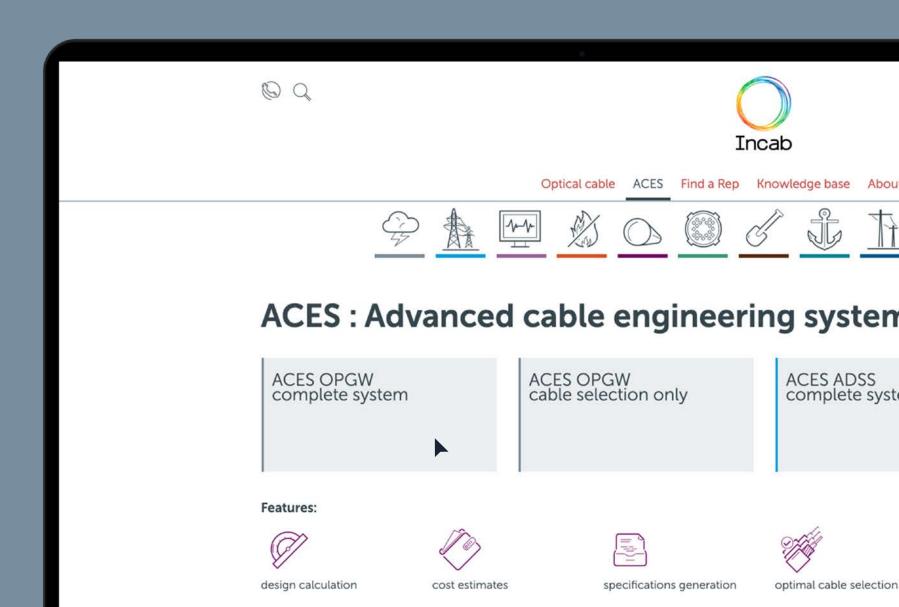
ACES TECHNICAL NOTES

Sag-tension envelope



ACES OPGW

- cable selection only
- complete system (lengths, sags, loads, accessories)



suspensions, down leads, splice closures and dampers.

Our Advanced Cable Engineering System (ACES) is a unique software tool to help engineers select the optimal cable desi

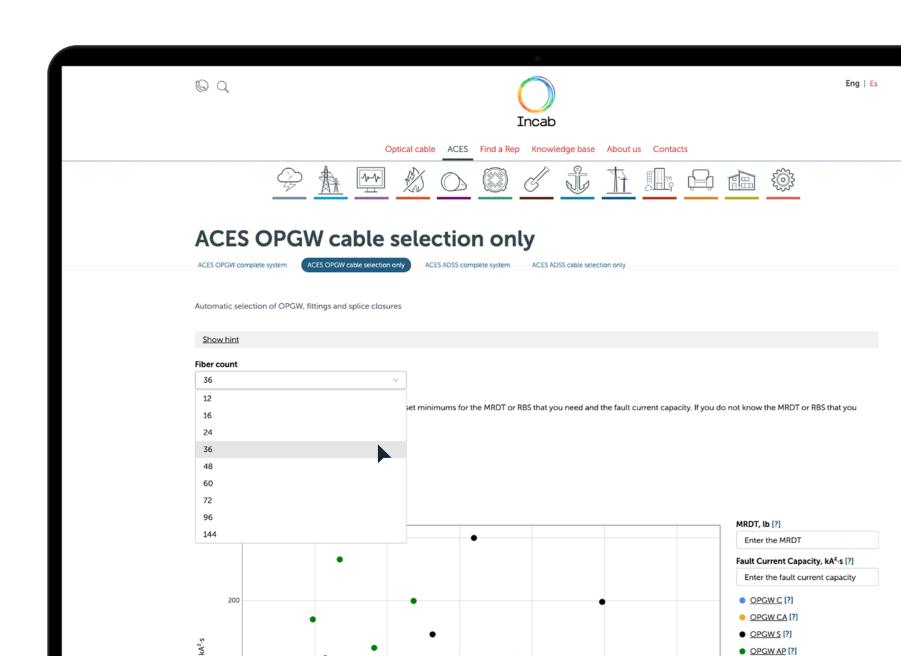
ACES will also help engineers and planners prepare cost estimates, generate a complete bill of materials, determine reel

Please contact our locab project engineering team for assistance or to verify calculation results for your project; ace

3 steps

to get the optimal OPGW:

1. Select fiber count



2. Choose tension and loading conditions (by NESC)

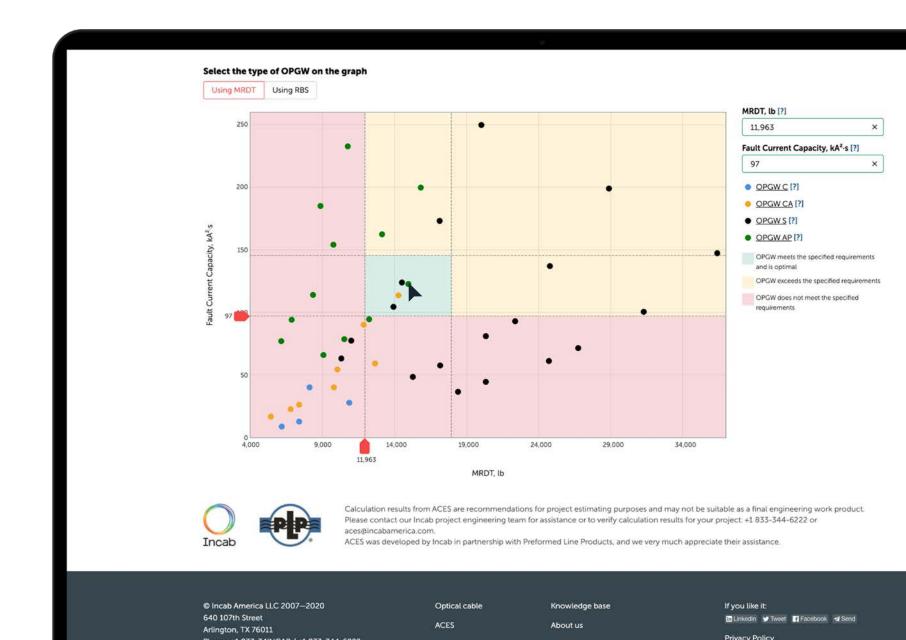
Unique interactive map:Just click the right region or starttyping the name of your state or city!

Select your OPGW as a point on the graph below. You can set minimums for the MRDT or RBS that you need and the fault current capacity. If you do not know the MRDT or RBS that you need, then click on "Select OPGW by tension" Select OPGW by tension Select loading conditions Standard NESC Load Conditions By state and city By climate man Medium Arizona, Phoenix (AZ) Arkansas, Little Rock (AR) Connecticut, Hartford (CT) Delaware, Dover (D Maryland, Annapolis (MD) Nevada, Carson City (NV North Dakota, Bismarck (ND) Pennsylvania, Harrisburg (PA) South Carolina, Columbia (SC) West Virginia, Charleston (WV) Texas, Arlington (TX) Maryland, Baltimore (MD) Arizona, Chandler (AZ) North Carolina, Charlotte (NC) North Carolina, Durham (NC) North Carolina, Fayetville (NC) Texas, Garland (TX) Arizona, Gilbert (AZ) Arizona, Glendale (AZ) Arizona, Mesa (AZ) New Jersey, Newark (NJ) Kansas, Overland Park (KS) California, Oxnard (CA) California, San Bernardino (CA) California, Santa Clarita (CA) Arizona, Scottsdale (AZ) Arizona, Tucson (AZ) North Carolina, Winston-Salem (NC) Maximum span length between structures, ft Specify the maximum distance between two adjacent structures, either suspensions or dead-ends. This distance together with the installation location will determine the maximum rated design tension that the OPGW will have to withstand throughout its entire service life Enter the maximum span length 10 poles. Distances between them: 750, 600, 600, 600, 750, 750, 600, 600, 750 feet. For this example, enter the distance: 950 feet (the maximum of all Select OPGW by diameter Select the type of OPGW on the graph Using MRDT Using RBS MRDT, lb [?] Enter the MRDT Fault Current Capacity, kA2-s [?] Enter the fault current car

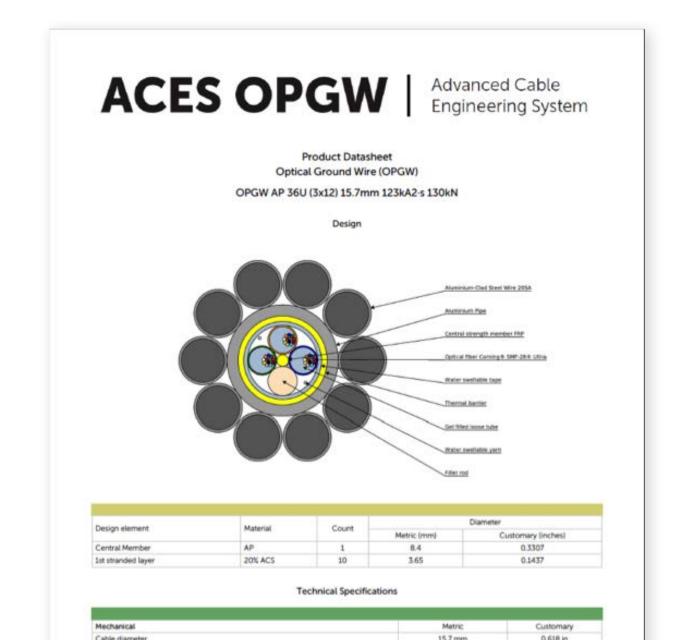
3. Enter fault current capacity

Your optimal cable is in the green zone.

Convenient chart — no more awful tables!



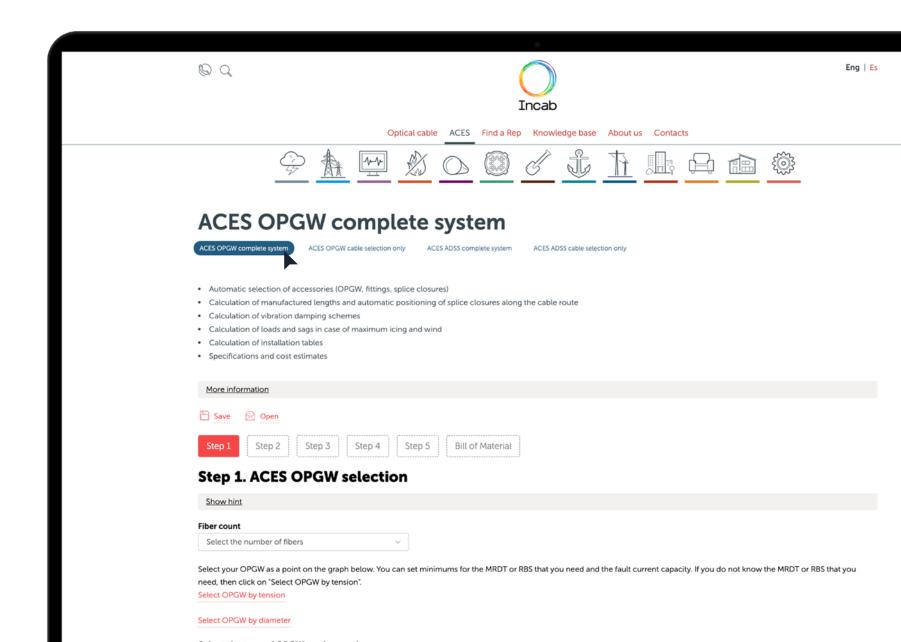
Download your datasheet with cross section and all necessary parameters!



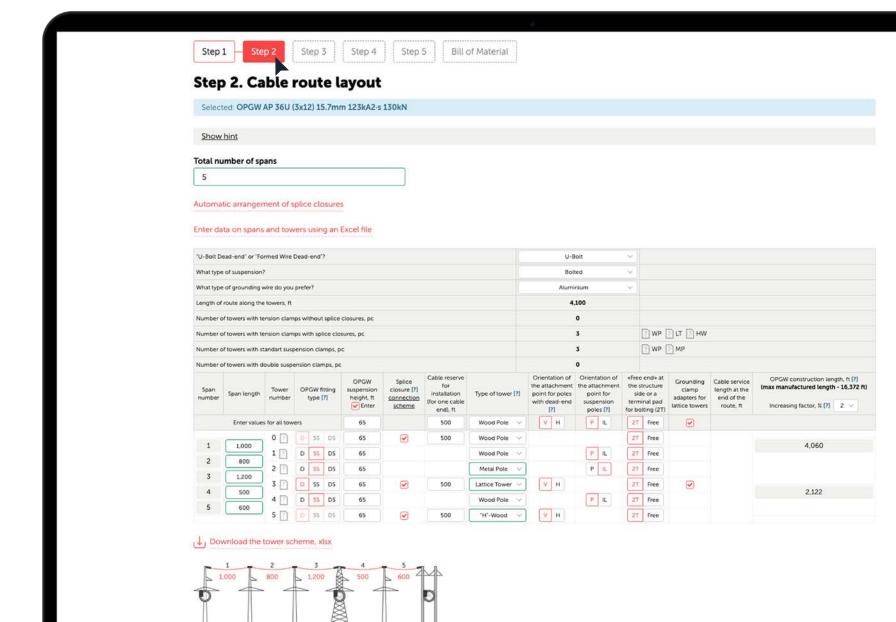
5 steps

to your draft project:

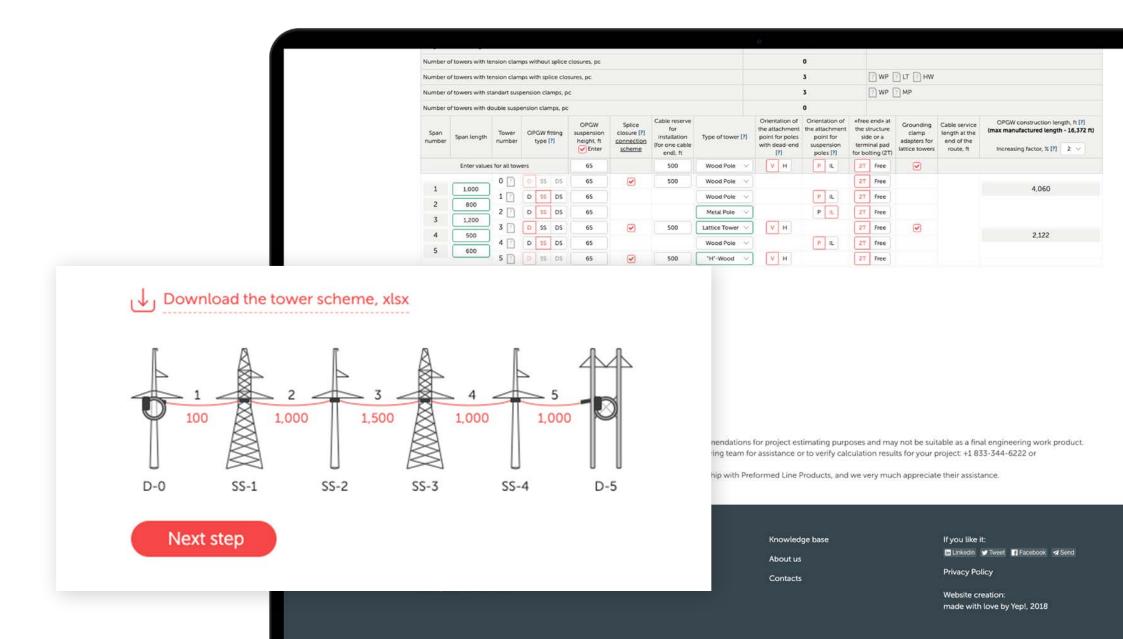
1. Select your OPGW design



2. Create your own optical line in a few minutes or upload it in Excel file

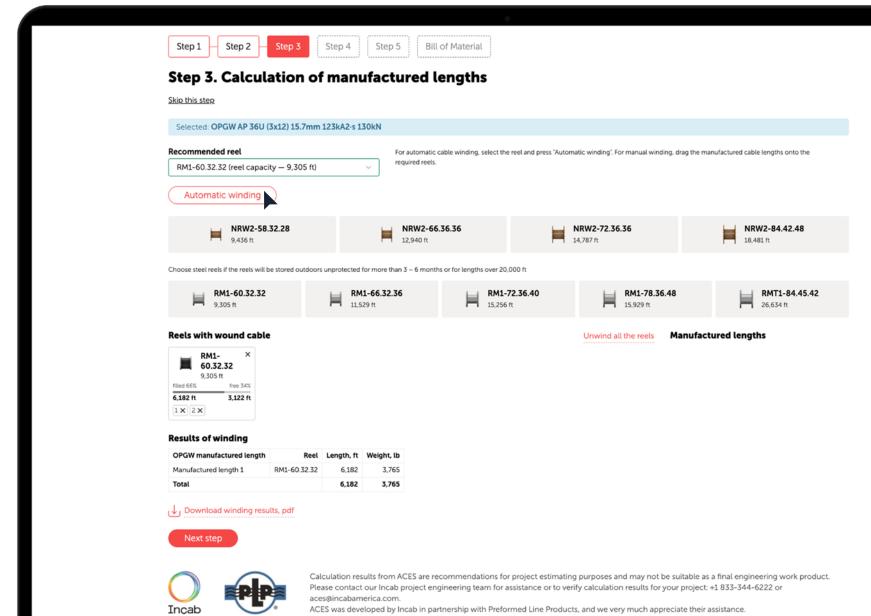


Clear visualization

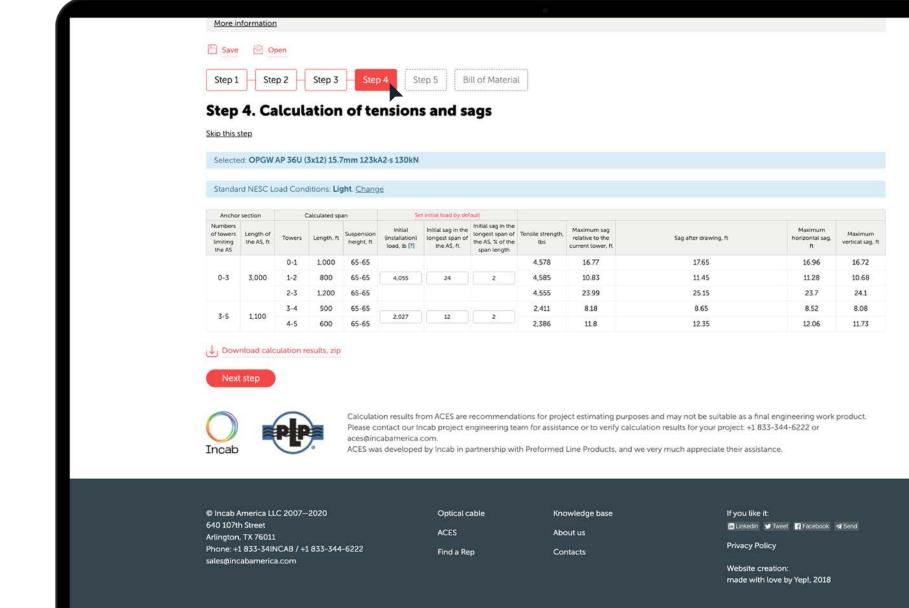


3. Calculation of manufactured lengths

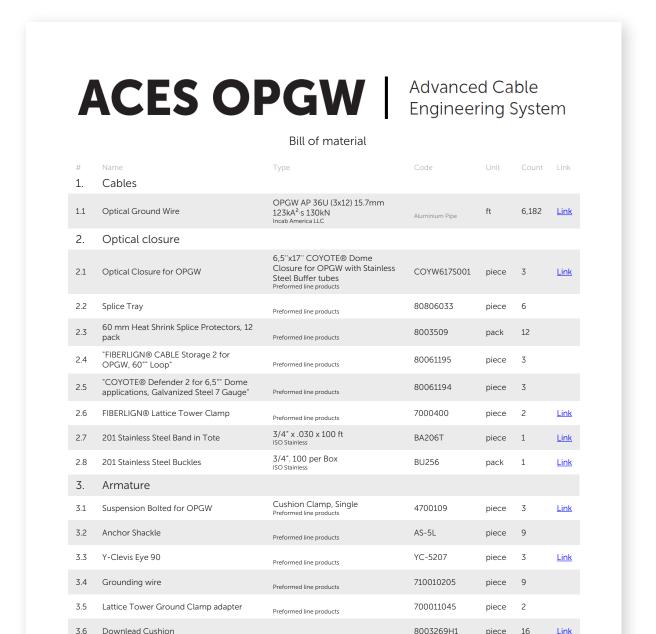
Automatic cable winding!



4. Calculation of tensions and sags automatically in one click!

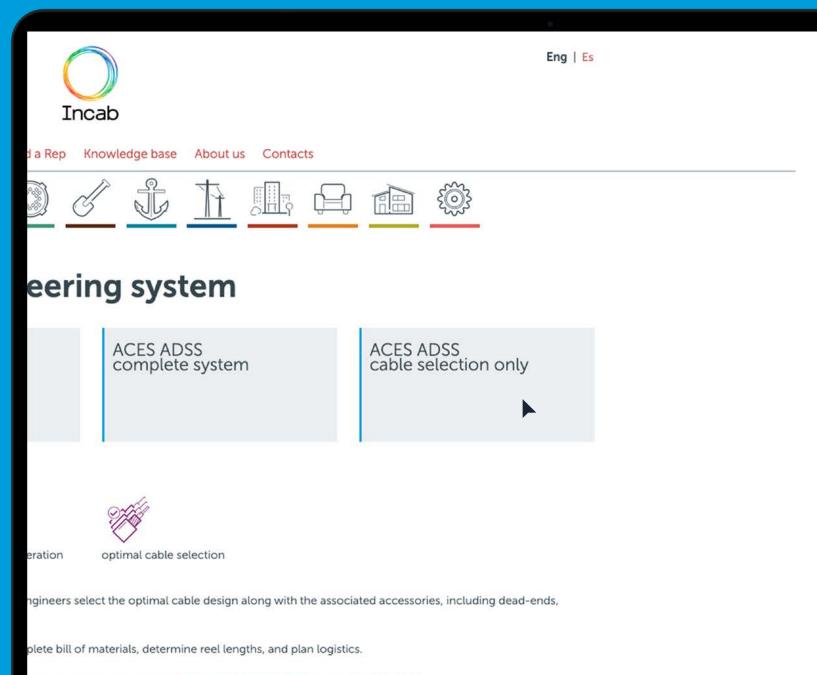


5. Download bill of materials of cable and accessories in one click!



ACES ADSS

- cable selection only
- complete system (lengths, sags, loads, accessories)



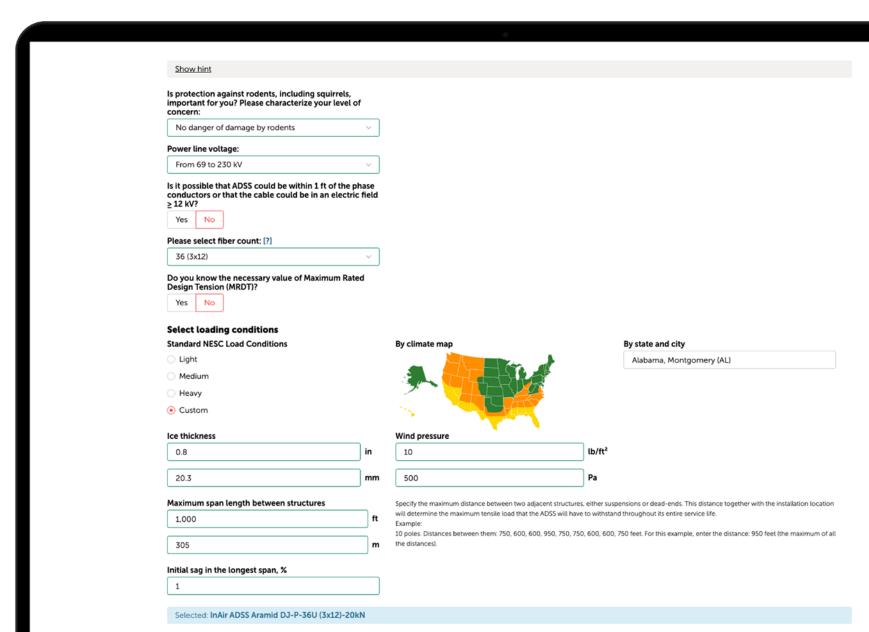
ation results for your project; acasting abamerica com or ±1 833-344-6222

ACES ADSS CABLE SELECTION ONLY

6 steps

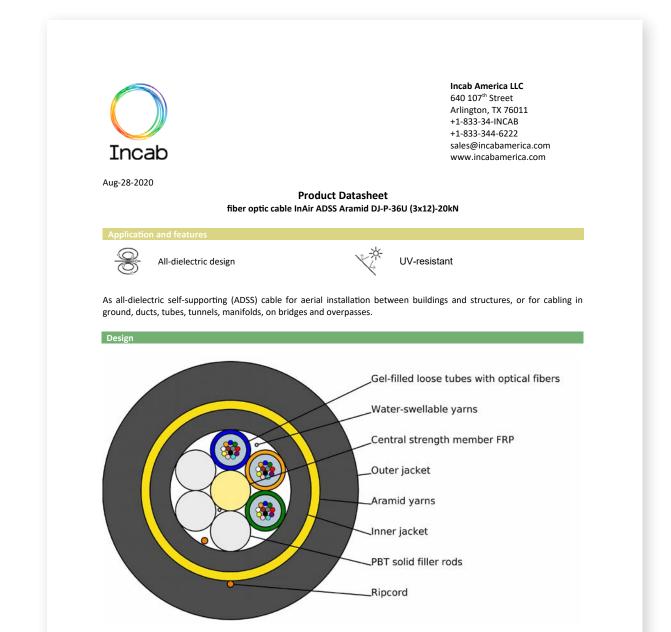
to your individual datasheet:

No more awful tables!



ACES ADSS CABLE SELECTION ONLY

Download your datasheet with cross section and all necessary parameters!



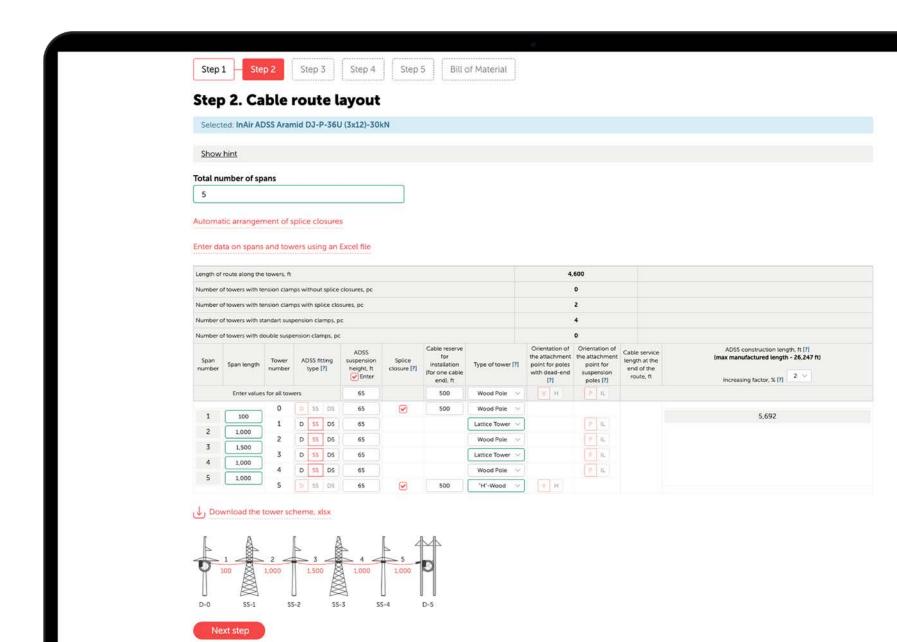
ACES

ADSS COMPLETE SYSTEM

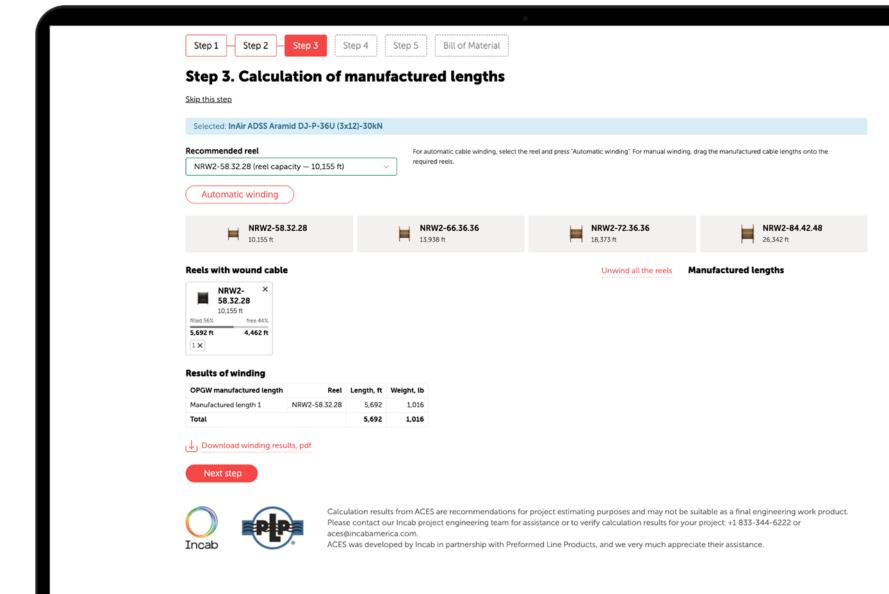
5 steps

to get the optimal ADSS:

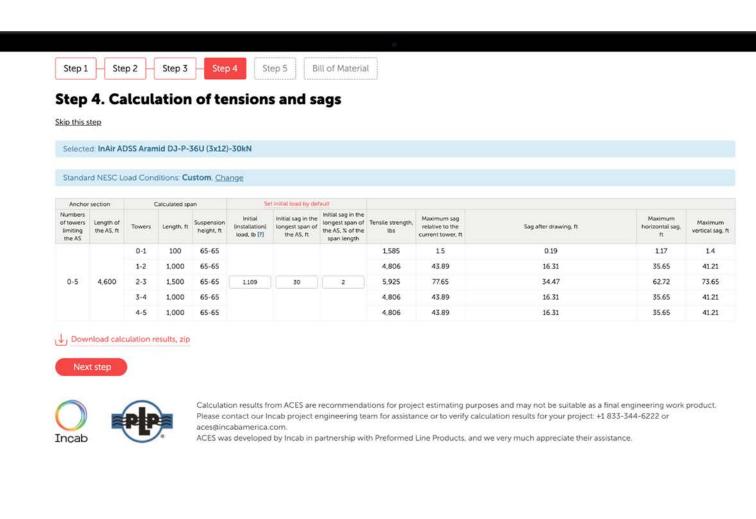
- 1. Select ADSS design
- 2. Build a line with your input data



3. Calculation of manufactured lengths



4. Calculation of tensions and sags automatically in one click!



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640 107th Street Arlington, TX 76011

5. Download bill of materials of cable and accessories in one click!

ACES ADSS

Advanced Cable Engineering System

Vibration damping scheme

ADSS type: InAir ADSS Aramid DJ-P-36U (3x12)-30kN

List of vibration dampers

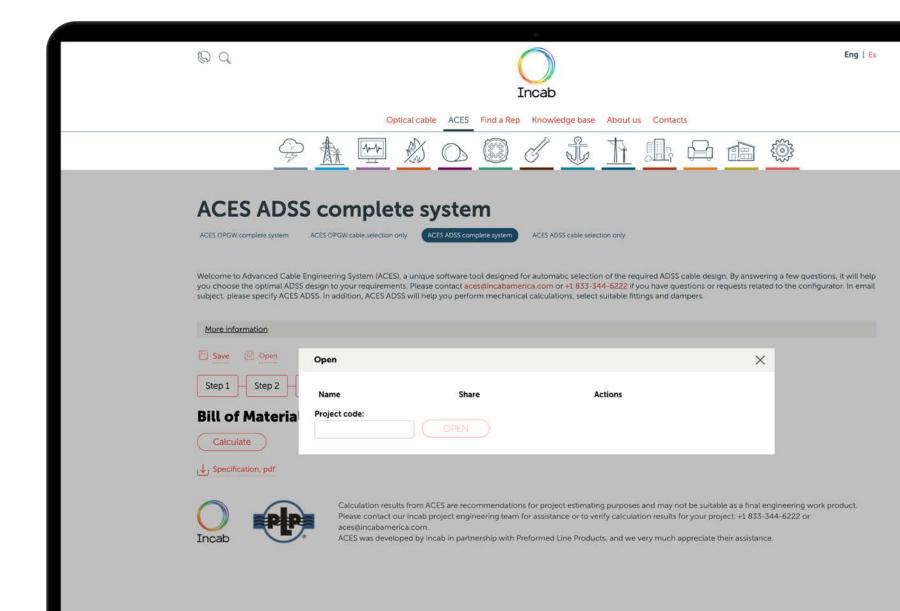
Anchor section. Numbers of towers limiting the anchor section	Numbers of towers limiting the span	Span length, ft	Mean operating tension, lb	Number of SVDs in the span	SVD type
1 0-1	0 - 1	100	1,109	2	50509862
	1 - 2	1,000		4	50509862
	2 - 3	1,500		4	50509862
	3 - 4	1,000		4	50509862
	4 - 5	1,000		4	50509862
			TOTAL:	18	

lote.

Install SVDs according to the installation instruction.

Save your project or open the saved one.

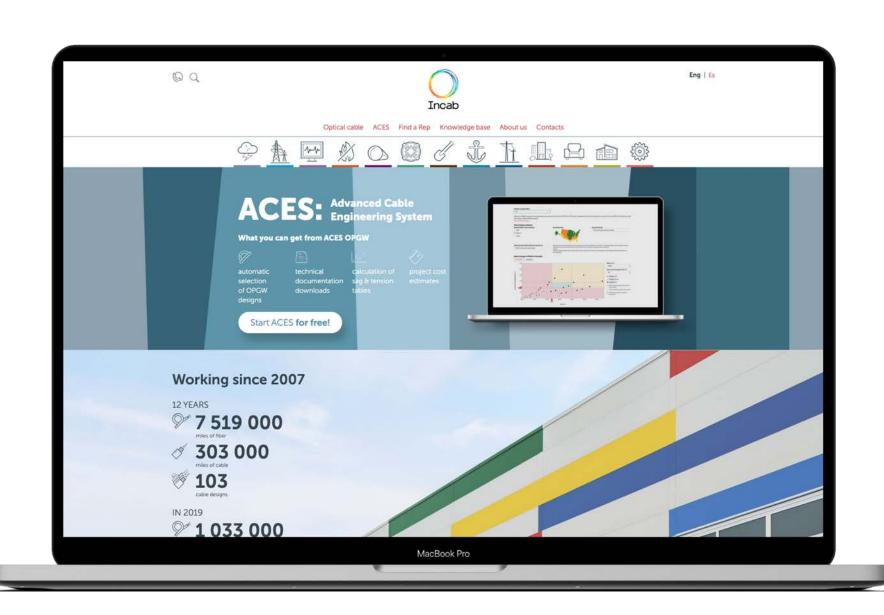
You can share it with other users, too.



ACES ADVANCED CABLE ENGINEERING SYSTEM

Give it a go!







We'll appreciate your feedback about software



aces@incabamerica.com

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