



Highlights

- 1 Cable is commonly seen in highspeed systems. Accurate modeling and simulation is necessary for signal integrity purpose. It is a challenge to build accurate model and simulate it in an efficient way.
- 2 CableExpert offers a quick way to build 3D model with its built-in templates
 - Various drain types including center drain and dual drain
 - Various twine shielding including longitudinal and wrapping
 - Auto port generation to simplify EM setup
 - Parametric sweep for easy what-if analysis
- 3 The tool offers both 2D and 3D simulation for different application usage. 2D FEM solver to generate RLGC model. 3D FEM solver to generate S-parameter model. Both of them adopt distributed processing and multicore parallelization which adds another level of speedup.
- The tool has a built-in algorithm treating a long cable as simulating it as a whole is impossible
- 5 The tool offers users a quick way to export to HFSS for benchmark purpose.

Fast and Accurate Cable Modeling and Simulation

Cable modeling & simulation flow with CableExpert



Parametric Support

- CableExpert supports parametric sweep for twine style with different twine gap locations for longitudinal or wrapping angles for wrapping style. The tool makes it easy for users to optimize cables' performance.
- For a spiral wrapped twinaxial cable, the resonant frequency increases with the wrapping angle and more ripples in TDR appear.







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