

CiA TASK FORCES

Specifying CAN FD cable and common-mode chokes

The CiA nonprofit association has established two new task forces. One specifies cable parameters and other common-mode chokes.

The participants included representatives from OEMs, automotive suppliers, and manufacturers of cables respectively common-mode chokes. Both task forces agreed on the scope and the work-plan. First work drafts are expected in this autumn.

The cable task force will specify electrical and mechanical parameters for CAN FD networks. It will be also specified how to measure the electrical parameters, in order to make datasheets more comparable as today. One of the most important electrical parameter is the differential mode cable impedance tolerance for the automotive temperature range. Also the ohmic resistance per length is another value, which will be recommended for different network topologies and lengths.

The common-mode choke task force will define parameters such as common-mode inductance, stray inductance, etc. The parameters will be evaluated in relation to the IEC 62228-3 (EMC evaluation of CAN transceivers) recommendations. The application of common-mode chokes in CAN FD networks is mainly required by European automakers.

“Interested parties, OEMs as well as suppliers and vendors, are welcome to participate in these specification activities,” said Holger Zeltwanger, CiA Managing Director. “Common specifications are a benefit for both, the system designer and the component manufacturer.” Minutes of the first meetings are available for interested parties.



The Task Forces "CAN FD cable" and "Common-mode Choke" started beginning of September (Photo: Fotolia)

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