

CMS ECAL optical cables testing

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CMS ECAL detector will require more than 400 dense multi-ribbon optical cables, made of single mode 9 micron quartz fibers, for the data, control and trigger data transfer between on-detector and off-detector electronics.

Although all cables will be tested before installation, one cannot guarantee no single fiber damage during the mass cable pooling campaign at the underground area. Hence, all optical lines have to be tested after installation.

The available industrial test systems will be reviewed and motivation for the special system design will be discussed. The two portable optical components testers designed for the CMS ECAL application will be presented.

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