

WAVEGUIDE DISTRIBUTION SYSTEM FOR FLASH

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The linear accelerator for the Free Electron Laser in Hamburg (FLASH) contains fifty six superconducting cavities grouped into seven cryogenic modules and one normal conducting RF gun. The five RF stations using 5MW single beam and a 10MW multibeam klystrons supply the cryogenic modules and the gun through the distribution system based on WR650 waveguides. Since FLASH is based on the Tesla Test Facility, TTF, a number of different RF distribution layouts for the different modules and the gun have been developed and used over the years. Several waveguide components and distribution layouts have been developed, installed, operated at FLASH and checked for further usability at the European Free Electron Laser (XFEL). This presentation describes waveguide components and the distribution layout and summarizes the experience with the waveguide distribution system.

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