

Fiber optic communication 5b6b



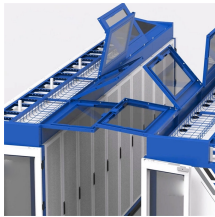
Fiber optic communication 5b6b



More particularly, a variant 5B6B line code is described for an optical fibre system which allows the insertion of an ancillary channel but does not deteriorate line code properties.



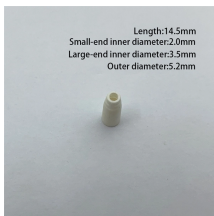
This paper introduces one of simple 5B6B encoding and decoding method by VHDL language of developing system designed by altera company after doing research to the code of Fiber ...



Fiber optics (optical fibers) are long, thin strands of very pure glass about the size of a human hair. They are arranged in bundles called optical cables and used to transmit signals over long distances.



Abstract: The basic principles of 5b/6b optical fiber transmission pattern was introduced briefly first. A 5B/6B CODEC design based on FPGA with the design requirements of the audio optical terminal ...



R. Petrovic. "5B6B Optical Fiber Line Code Bearing Auxilarly Signals", Electronic Letter, vol. 24, No. 3rd March 1988.



TL;DR: The results showed that the design meet the requirements of 5b/6b encoding and decoding, which had a strong portability, flexible software design and a high operating speed, can be used in ...



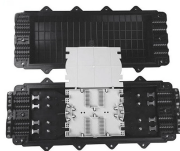
A 5B/6B CODEC design based on FPGA with the design requirements of the audio optical terminal and the detail design drawings and software simulation was given in the system.



A variation of the 5B6B line code is proposed which allows the insertion of an ancillary channel with a capacity of about 0.6% of primary channel capacity. It does not deteriorate line code properties nor ...



In this paper, the various line codes used in fiber optic communication have been reviewed. The need for line codes and the features of line codes are discussed.



The coded data allows the fiber optic receiver to be AC coupled. Without encoding, the fiber optic receiver would have to detect DC levels to determine the proper logic state during long periods

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