

ABSTRACT

This application provides a data processing method, applied to the optical communication field. The data processing method includes the following steps: A sending device obtains a first 66-bit code block stream of a MAC frame. The sending device obtains a first check field based on the first 66-bit code block stream, the first check field is used to check the first 66-bit code block stream. The sending device obtains a second 66-bit code block stream based on the first 66-bit code block stream and the first check field, or adds the first check field to a 66-bit code block following the first 66-bit code block stream. The sending device maps the second 66-bit code block stream to a payload area of a data frame, or maps the first 66-bit code block stream and the following 66-bit code block to the payload area of the data frame. The sending device sends the data frame. In the technical solutions provided in this application, a receiving device can identify, by using the first check field, whether a bit error occurs in the 66-bit code block stream, so that communication reliability is improved.

Fig. 15