



### 2.3.2.1 GTIN-12

A GTIN-12 is encoded in a UPC-A Bar Code (or GS1 DataBar under conditions described in the note below) and can be used for the identification of any retail trade item.

**Note:** GS1 DataBar has been approved for bilateral use between trading partners from 2010. In 2014 GS1 DataBar becomes an open symbology and all scanning environments must be able to read these symbols.

For details on the UPC-A Bar Code, including dimensions, please refer to section 9.2.3 UPC-A Symbol Specifications on page 199. For details on GS1 DataBar refer to chapter 6, section 6.2.9 GS1 DataBar Symbol Specifications on page 214



**TABLE 25** GTIN-12 Structure

**The U.P.C. Company Prefix** is allocated by GS1 US. The length of the U.P.C. Company Prefix is varying, and the numbering capacity you are allocated depends on the U.P.C. Company Prefix issued.

**The Item Reference** is a non-significant number that is allocated by the member company. It is purely for identification purposes and the individual digits in the number do not relate to anything or convey any specific item information. It is recommended that the Item Reference is allocated sequentially and that each item is numbered to the lowest level of identification, for example: size, colour, model, finish, type, style. The length of the Item Reference will depend on the length of your U.P.C. Company Prefix.

**The Check Digit** is mathematically calculated to ensure that the whole number is correct. Correct calculation is essential for successful scanning of the bar code.

A Check Digit Calculator Program which will automatically calculate the Check Digit can be obtained from the GS1 Australia web site at [www.gs1au.org](http://www.gs1au.org).

For instruction on manually calculating the Check Digit please refer to "Manual Check Digit Calculation" on page 56.

For either method of calculating the Check Digit use the GTIN-12 option.