

ABSTRACT

ELECTRONIC APPARATUS, CELLULAR PHONE, FLEXIBLE CABLE AND
METHOD FOR MANUFACTURING OPTICAL WAVEGUIDE FORMING BODY

5 According to the electronic apparatus and cellular phone of the present invention,
in an optical waveguide forming body of a flexible cable, an air layer is provided in a
deforming section which experiences bending deformation as a result of the movement of
a second body relative to a first body (either a pivoting or sliding movement), and the
position of this air layer becomes located on the outer circumferential side of a core when
10 the deforming section undergoes bending deformation. As a result of this, it is possible
to ensure sufficient flexibility and to also achieve a sufficient improvement in the folding
endurance of the core portion for this optical waveguide forming body to be utilized in
practical applications. Moreover, it is possible to suppress light loss and achieve
high-speed, large-capacity transmissions even when the optical waveguide forming body
15 of a flexible cable experiences bending deformation due to the relative movement of the
second body relative to the first body.

Figure 5.