

ABSTRACT

A line guide apparatus (10) is proposed for guiding lines (60),
5 such as cables, hoses or the like, in particular on an industrial
robot (1). The line guide apparatus (10) comprises links which are
connected in articulated manner by a three-dimensionally
deflectable articulated connection.

Provision is made according to the invention for the line guide
10 apparatus to have a variable-length portion (11), which comprises
a number of links (200A, 200B; 700A, 700B) which are connected
together so as to be longitudinally adjustable relative to one
another, wherein an elastically longitudinally expandable return
element (300) exerts a return force on the variable-length portion
15 (11), which counteracts elongation of the variable-length portion
(11). The links (200A, 200B; 700A, 700B) are in particular
connected or couplable in such a way that longitudinal adjustment
of two links (200A, 200B; 700A, 700B) relative to one another
brings about relative rotation (R1, R2) thereof.

20 **(FIGS. 6C-6D)**