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Line Guide Device for Clean Room Applications

Abstract

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The invention relates to a line guide device (1) for lines (10) in a clean room application, comprising an elongate, flexible envelope (11) which is displaceable to-and-fro between a first connection point (7) and a second connection point (5) movable relative thereto, in particular forming a deflection arc (4) between two runs (2, 3). The envelope (11) has at least one undoable and reclosable connection region (14A, 14B), for insertion or removal of a line (10) when the connection region is open. The envelope, when closed, surrounds in dust-tight manner an inner space (15) for accommodating one or more lines. According to the invention, a functional material (101; 201; 301; 401) is provided within the envelope (11) to reduce the number of free particles in the inner space (15). The functional material may in particular retain operationally released particles in the inner space and/or counteract the operational release of particles in the inner space.

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(Fig. 1)