

Compact protective cable conduit for clean room applications and encasing unit and clamping device for same

ABSTRACT

The invention relates to a conduit for lines, such as cables or hoses, particularly in a clean room application. The conduit has an elongate, flexible casing (1001) which can be moved to and fro, particularly while forming a deflecting bend (4) between two runs (1; 3), and at least one receptacle (1002) for guiding at least one line, with each receptacle (1002) extending in the form of a channel in a longitudinal direction (L) from a first end (7) to a second end (8). One feature of the invention consists in the fact that the casing (1001) has, to the side on at least one receptacle (1002), at least one functional zone (1010) extending in a longitudinal direction (L), which functional zone forms a seal with two interacting sealing profiles (1011; 1012) to ensure a dust-tight closure of an open state, in which open state a line can be inserted into or removed from the receptacle (1002) transversely to the longitudinal direction. A further feature consists in the fact that the individual casing (1001) has a fastening profile (1020, 1022) extending on another longitudinal side in the longitudinal direction (L) for a detachable connection to a corresponding fastening profile (1021, 1025) of a further casing (1001). The invention further relates to a special clamping device (figures 13A-13E) for connecting the end of the casing (1001), which clamping device comprises a deformable pressure piece (1340) which protrudes at the end beyond a clamping piece (1331, 1332) and forms a corner protection.

[Figure 10A]