

Title (en)
FULLY CAST FLEXIBLE LIGHT EMITTING DIODE STRIP FOR LARGE FEED-IN STRETCHING AND METHOD FOR PRODUCING THE SAME

Title (de)
VOLLVERGOSSENES, FLEXIBLES LEUCHTDIODENBAND FÜR GROSSE EINSPEISESTRECKEN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
BANDE DE DIODES ÉLECTROLUMINESCENTES FLEXIBLE ET ENTIÈREMENT COULÉE POUR GROSSES SECTIONS D'ALIMENTATION ET SON PROCÉDÉ DE FABRICATION

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Abstract (en)
[origin: WO2019206457A1] Differently designed rope lights or flexurally elastic light-emitting diode strips, including different embodiments of the connection technology, are known in the prior art. In order to provide the user with a linkable, fully potted, flexible light-emitting diode strip in the case of which the rolling up of the light-emitting diode strips, in particular in the case of higher total lengths, is not impeded, said light-emitting diode strip is designed in such a way that the electrical lines (L1, L2, Ln) are arranged in two opposite side walls of the profiled element (U) and the centers of gravity (SL) lie approximately in the same plane (E) as those of a flexible circuit board (LP) and a reinforcement (T). Furthermore, an electrical contact (SP) is provided in the connection region (AB), which electrical contact establishes contact between the terminally free wire ends of the electrical lines (L1, L2, Ln) and the flexible line carrier (LP) and is enclosed in a hard potting compound (VM) after the establishment of contact. As a result of the potting compound (V), which fills the interior of the profiled element (U), mechanical protection and also strain relief of the linked light-emitting diode strips (LB) are achieved. The invention is in the field of light-emitting diode strips.

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