

Title (en)

INSULATION DISPLACEMENT TERMINAL FOR AN ELECTRICAL CONNECTOR AND ENVIRONMENTAL SEALING MEANS THEREFOR

Publication

EP 0102156 A3 19851227 (EN)

Application

EP 83303933 A 19830706

Priority

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- GB 8222891 A 19820809

Abstract (en)

[origin: EP0102156A2] A collapsible insulation displacement terminal (10a or 10b), responsive to an actuating force directed along the length of a wire (39) received in the terminal, includes a metallic body with a pair of side portions (19) positionable on opposite sides of an insulation covered wire (39). Each side portion includes a weakened intermediate region with an aperture (20) defined therein. When the terminal is compressed by a force applied generally parallel to the length of the wire, the intermediate regions (19) collapse inwardly of the terminal body toward one another. In the process, a contact edge defined by the apertures (20) severs the insulation covering the wire and produces an electrical connection between the central core of the wire and the terminal. In a further embodiment, the positions of the intermediate regions (19) of the side portions may be offset with respect to one another so that the two intermediate portions do not interfere with one another during their inward severing action. The terminal may be adapted for use with a coaxial cable wherein the intermediate portions (19) produce an electrical connection only with the shielding conductor of the cable. A dielectric housing (30) for the terminal may include pre-assembled sealing means (32, 33) through which the wire (39) is inserted prior to application of the collapsing force to the terminal.

IPC 1-7

H01R 4/24

IPC 8 full level

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CPC (source: EP)

H01R 9/053 (2013.01); **H01R 24/40** (2013.01); **H01R 2103/00** (2013.01)

Citation (search report)

- [X] EP 0000624 A1 19790207 - AMP INC [US]
- [X] GB 1109914 A 19680418 - ERIC LIONEL HUTCHINGS
- [A] US 2035947 A 19360331 - DAVIS JR CHARLES HALL
- [A] US 4090764 A 19780523 - MALSBY MARC W, et al

Cited by

CN109088202A; US5277616A; EP0393879A3; EP0474113A1; EP0534276A3; EP0803700A1; FR2747772A1; US6146598A; EP0731531A3; WO03020368A3

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