

Title (en)

Electrical terminal for flat power cable.

Title (de)

Elektrischer Anschluss für flaches Energiekabel.

Title (fr)

Terminal électrique pour câble de puissance plat.

Publication

**EP 0342868 A1 19891123 (EN)**

Application

**EP 89304804 A 19890511**

Priority

- US 19345888 A 19880513
- US 33807989 A 19890414

Abstract (en)

A transition adapter for terminating single or dual conductor flat power cable (214) includes at least a stamped and formed member (208) having one or opposed plate sections (202) against or between which an end or edge portion of the cable is receivable to be terminated. Opposed plate sections (202) have opposed transverse arrays of shearing wave shapes (222) alternating with arcuate shapes defining relief recesses (224), with each wave shape opposing a relief recess and the lateral edges of the opposing arrays of shearing wave shapes cooperating as shearing edges. When the plate sections are urged together against the cable therebetween, the shearing edges shear the cable insulation and conductor into strips while the crests the wave shapes deflect the sheared cable portions into the opposing relief shapes thus exposing sheared conductor edges for electrical connections therewith and forming mechanical and electrical connections with the cable. Copper insert members (228) may be secured along the plate sections and have apertures into which the sheared conductor strips are deflected, and the insert members (228) may be staked forcing metal against the sheared conductor edges for gas-tight connections. A pair of such adapters may be used to terminate dual conductor cable.

IPC 1-7

**H01R 11/11**; **H01R 43/01**

IPC 8 full level

**H01R 4/26** (2006.01); **H01R 11/11** (2006.01); **H01R 12/08** (2006.01); **H01R 12/24** (2006.01); **H01R 12/38** (2006.01); **H01R 31/06** (2006.01); **H01R 43/01** (2006.01)

CPC (source: EP KR)

**H01R 11/11** (2013.01 - EP); **H01R 12/78** (2013.01 - KR); **H01R 43/01** (2013.01 - EP)

Citation (search report)

- [A] DE 1957183 A1 19700604 - AMP INC
- [A] DE 7239900 U 19730315
- [A] US 3754204 A 19730821 - RAITPORT E, et al
- [A] US 3706121 A 19721219 - GILLESPIE JAMES FRANCIS

Cited by

EP0447046A1; CN112572238A; EP0392108B1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 0342868 A1 19891123**; **EP 0342868 B1 19940126**; DE 68912643 D1 19940310; DE 68912643 T2 19940804; JP H0265079 A 19900305; JP H061708 B2 19940105; KR 900019291 A 19901224; KR 940003483 B1 19940422

DOCDB simple family (application)

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