

Title (en)  
Electrical female terminal

Title (de)  
Elektrische Kontaktbuchse

Title (fr)  
Contact électrique femelle

Publication  
**EP 0986140 B1 20030312 (EN)**

Application  
**EP 99202556 A 19990804**

Priority  
DE 19841239 A 19980909

Abstract (en)  
[origin: EP0986140A2] An electrical female terminal (10), for mating with an electrical terminal pin, comprising a socket member (12) and a sleeve (14) substantially surrounding the socket member; wherein the socket member is substantially tubular with a longitudinal axis (A) and comprises first and second pairs of spring arms (22,24) which extend in the longitudinal direction to define walls of a bore (20) for receiving the terminal pin; an annular member (26) at one end of the bore connected with the spring arms; a first arcuate member (28) at the other end of the bore connected to the first pair of spring arms; and a second arcuate member (30) at the other end of bore connected to the second pair of spring arms; the first and second arcuate members defining an opening (32) which is substantially circular through which the terminal pin can pass; first spring arms (34,38) of the first and second pairs of spring arms being bent inwardly to define opposed contact edges (36,40); second spring arms (42,46) of the first and second pair of spring arms being bent inwardly to define opposed contact edges (44,48); the contact edges of the first spring arms lying in a first plane (P1) substantially perpendicular to the longitudinal axis; the contact edges of the second spring arms lying in a second plane (P2) substantially perpendicular to the longitudinal axis and axially spaced from the first plane; and wherein the sleeve engages the annular member at one end (50) and has a predetermined minimum clearance (X) with the arcuate members at the other end (52). Reduces the force required to insert the terminal pin. <IMAGE>

IPC 1-7  
**H01R 13/11**; **H01R 13/115**; **H01R 13/193**; **H01R 13/18**

IPC 8 full level  
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