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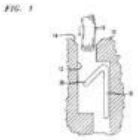
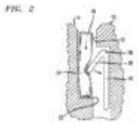
#	Title	Publication number	Publ. date	Applicant/Assignee
1.	Insulation displacement connector	US5807133	1998-09-15	ANDREW COMMSCOPE

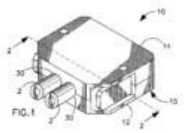
An electrical contact with an insulated wire conductor is established by defining a wire passage in a connector housing to receive an insulated wire conductor, and capturing a contact member having an electrically conductive hook portion in the housing. An end of the hook portion projects into the wire passage. When an insulated wire conductor is fed into the passage, insulation on the conductor slides along the hook portion of the contact member. Upon withdrawing or displacing the conductor a certain distance relative to the hook portion, an end of the hook portion engages and pierces the insulation on the conductor to make electrical contact with the conductor.

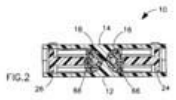




2.	Connector assembly having means for penetrating the insulation and establishing electrical connection with the wires	US6159035	2000-12-12	ADVANCED BRIDGING TECHNOLOGIES AIGIS MECHTRONICS ALLSTAR PRO AUBREY MANUFACTURING AVC THE A DELAWARE 48 more...

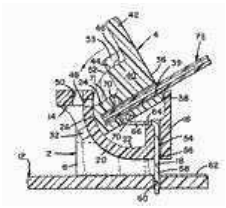
A connector assembly for penetrating the insulation and establishing electrical connection with insulated electrical wires or conductors, thereby eliminating the need to strip the insulation away from the insulated wires, including a pair of matable housings, a pair of conductor guides, a pair of flexible piercing terminals and a pair of rotatable cams or levers, and which are all enclosed by the pair of matable housings. The unstriped insulated wires are respectively inserted into and positioned within the pair of conductor guides, where the cams are rotated inwardly such that the cams engage and squeeze the conductor guides to retain the insulated wires thereto. While the cams are being rotated, they also engage the piercing terminals such that knife ends pierce the insulated wires or conductors to establish electrical connection thereto.





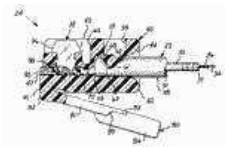
3.	Flat cable connector	US4341430	1982-07-27	TE CONNECTIVITY

The invention is a hinged electrical connector for terminating conductors of flat cable, using finger pressure to close the hinged parts of the connector over the cable.



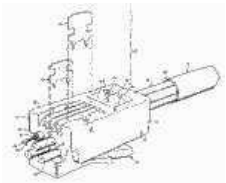
4.	Electrical connecting devices for terminating cords and methods of assembling the devices to cords	US3860316	1975-01-14	AT&T TECHNOLOGIES WESTERN ELECTRIC

A one-piece plug for terminating a cord to connect electrically the cord to components in a telephone apparatus is constructed with features advantageous to the assembly of the cord with the plug. The plug has a dielectric housing molded with a cord-input aperture in the one end thereof. The jacket is removed from a leading portion to expose individually insulated conductors. Then an end portion of the cord is inserted into the cord-input aperture in the housing until individual conductors are received in conductorreceiving troughs and until the leading end of the jacket abuts a shoulder formed internally of the housing. Forces are applied to a jacket anchoring member formed integrally of the housing to partially disconnect it from the housing and move it into engagement with the jacket. Another portion formed integrally with the housing is reformed into a strain relief element in engagement with the conductors to provide strain relief for the conductors. Flat blade-like terminals are inserted into the dielectric housing to move internal contacting portions thereof through the insulation and into engagement with the conductors. External contacting portions of the terminals engage associated components of the telephone apparatus when the plug is inserted thereinto.



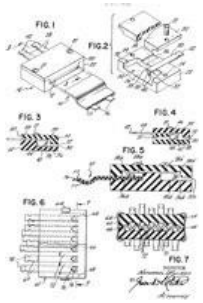
5.	Modular plug for terminating cord having non-planar array of conductors	US4054350	1977-10-18	WESTERN ELECTRIC

A modular plug especially suited for terminating electrical cords in which the conductors are disposed in a generally non-planar array includes a plastic housing with at least two tiers of conductor-receiving cells and a plurality of terminal-receiving openings associated with the cells. Each opening includes a slot extending parallel to and communicating with the associated cell. The length of each slot is exposed to an exterior surface of the housing. A terminal is inserted partially into each opening with portions of the housing which define the opening being in compressive engagement with edge surfaces of the terminal to support the terminal against unintended movement. An assembler removes a plastic jacket from an end portion of a cord and inserts each insulated conductor into a predetermined one of the cells. Then the assembler actuates a tool to anchor the plug to the cord and to sever excess lengths of the conductors. The terminals that had been partially inserted into the housing are driven into a fully seated position with internal contact portions thereof in engagement with the conductors and with externally exposed edge surfaces presented in a single plane and adapted to be engaged by electrical components of telephone apparatus into which the plug is destined to be inserted.



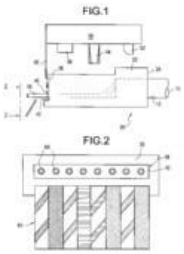
6. Angular contact **connector** US3201745 1965-08-17

No abstract available



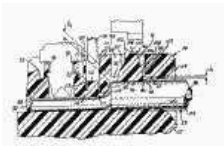
7. Method and apparatus for securing twisted-pair electrical cable to a connector US5996224 1999-12-07 ROBERT W. SULLIVAN

A method of applying twisted wire pairs to an electrical connector is provided.A cable having a plurality of twisted wire pairs is selected for insertion into a selected connector.The twisted wire pairs are untwisted and inserted into the connector in a substantially flat lateral configuration such that the ends of the wires protrude from the connector.Before shearing off the protruding ends of the wires, identification symbols on the wire ends are compared with a standard that indicates a correct symbol identification pattern therefor.Preferably, the protruding ends of the wires are pulled tight against the connector before shearing off the wire ends, to minimize cross-talk.Even more preferably, the connector is crimped concurrently with the shearing off of the wire ends.



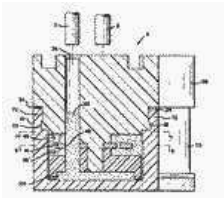
8. Device armed with a terminal for making electrical connection with a conductor US3998514 1976-12-21 AT&T TECHNOLOGIES WESTERN ELECTRIC

A plug for terminating a cord in the field includes an unipartite, non-hinged, dielectric housing having a cord-input aperture, internal surfaces defining a cavity for receiving an end portion of the cord, jacket and conductor anchoring members, and facilities for supporting terminals in a partially seated position in terminal-receiving openings in the housing. The terminals have internal contacting portions for engaging cord conductors and external contacting portions for engaging electrically associated components of a telephone apparatus when the plug is inserted thereinto. The temporary terminal support facilities include webs formed integrally with the housing. Portions of the terminals are embedded in the webs while portions of the webs are reformed into clamping engagement with other portions of the terminals during the partial insertion of the terminals. This supports the terminals against unintended pivotal and linear movement and such that the internal contacting portions do not initially protrude into the cavity. This permits the plug to be assembled with an end portion of a cord after which forces are applied to the anchoring members to move them into clamping engagement with the jacket and with the conductors. Forces are subsequently or simultaneously applied to the terminals to further reform the webs and cause increased clamping engagement of the webs with the terminals as well as to permit the internal contacting portions to be moved into the cavity and into electrical engagement with the conductors received therein. The arrangement for supporting the terminals in a partially seated position is also useful in a multi-station assembly of a two part bonded housing.



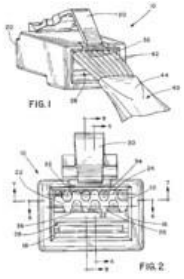
9. Waterproof splice electrical connector US4157208 1979-06-05 TE CONNECTIVITY

A rotary waterproof splice connector for use with a plurality of insulated wires is disclosed. The connector includes two mutually rotatable cylindrical insulating members. Wire receiving tubular passages parallel to the axis of rotation intersect a plate-like contact terminal. Rotation of the two insulating members causes the terminal to establish electrical contact with wires located in the tubular passages. A viscous sealant is stored in the tubular passages at the interface between the wires and the terminal.



10. Modular plug with automatically staggered wires EP0847111 1998-06-10 PANDUIT

A modular plug connector (10) that achieves category 5 cross talk performance is constructed with substantially parallel conductor positioning channels (22) situated in a pair of spaced apart planar arrays to position individual conductors (42) for termination by a plurality of flat insulation displacement contacts (38).A plurality of conductor guide ramps (34,36) are formed such that upon insertion of the individual conductors, alternating conductors will be guided into their respective spaced apart array.



11. Wire insulation piercing electrical connector EP0007194 1980-01-23 TE CONNECTIVITY

An electrical connector in which a wire supporting ledge (27) is formed on a planar surface such as a connector housing cavity wall (25) so that a fine, insulated wire (13) lying along the ledge (27) will be prevented from moving along the surface when a terminal (15) having an insulation piercing edge (32) is moved transversely of the ledge (27) along the surface into engagement with the wire (13) to establish electrical connection with the wire (13).