

Description

This invention relates to an electrical connector assembly and a kit of parts thereof.

An electrical connector assembly is disclosed in US-A-3 769 701 and comprises interlocking forward and rearward housing sections, cavities in the forward housing section axially aligned with passageways in the rearward housing section, electrical conductor assemblies consisting of electrical conductors connected with corresponding electrical contacts and dimensioned for passage axially along the passageways and forwardly of the passageways into positions of latched registration within the cavities. The housing sections are separated from each other by movement along the conductors.

According to the invention there is provided a kit of parts for an electrical connector assembly comprising interlocking forward and rearward housing sections, cavities in the forward housing section axially aligned with corresponding passageways in the rearward housing section, electrical conductor assemblies consisting of electrical conductors connected to corresponding electrical contacts and dimensioned for passage axially along the passageways and forwardly beyond the passageways into positions of latched registration within the cavities, characterised in that the rearward housing section includes retainer means for retaining portions of the electrical conductor assemblies forwardly of the passageways, and the rearward housing section is adapted for withdrawal from the forward housing section together with each of the electrical conductor assemblies which is deficient of latched registration within a corresponding one of the cavities.

The invention includes an electrical connector assembly comprising interlocking forward and rearward housing sections, cavities in the forward housing section axially aligned with corresponding passageways in the rearward housing section, electrical conductor assemblies consisting of electrical conductors connected to corresponding electrical contacts and dimensioned for passage axially along the passageways and forwardly beyond the passageways into positions of latched registration within the cavities, characterised in that the rearward housing section includes retainer means for retaining portions of the electrical conductor assemblies forwardly of the passageways, and the rearward housing section is adapted for withdrawal from the forward housing section together with each of the electrical conductor assemblies which is deficient of latched registration within a corresponding one of the cavities.

In the embodiment described below a kit of parts for a connector assembly comprises a connector housing having cavities for mounting sub-assemblies, consisting of electrical contacts connected electrically to elongated conductors, and a retainer for mounting on the housing, and for removal from means on the retainer frictionally

engages the subassemblies. Any subassembly which is unsecured in the housing will be withdrawn from the housing during removal of the retainer. The retainer thereby is useful to withdraw from the housing any subassembly which because of damage or improper assembly is improperly lodged in the housing. The retainer alternatively is utilised for withdrawing a subassembly having a contact purposely designed for withdrawal by removal of the retainer.

Other objects and advantages will be apparent, and the invention understood by way of example from the following description taken in conjunction with the drawings.

Figure 1 is a fragmentary perspective view of a pair of connector assemblies intermateable with each other, and either of which comprises an embodiment of the present invention.

Figure 2 is a fragmentary perspective view of one of the assemblies with parts thereof in exploded configuration for illustration purposes.

Figure 3 is a fragmentary section view of the assembly shown in the Figure 2.

Figure 4 is a fragmentary perspective view illustrating partial disassembly of the assembly shown in Figures 2 and 3.

With reference to Figures 1 and 2, a connector assembly 1 comprises a composite housing 2 comprising a portion 4 and a retainer 6 separable from the portion 4. The housing 2 is adapted for assembly with a plurality of subassemblies 8. Each subassembly 8 comprises an insulated electrical conductor 10, the conductive portion of which is electrically and mechanically joined to an electrical contact 12 shown in the form of an electrical pin.

With reference to Figures 1, 2 and 3, the housing portion 4 includes a plurality of internal cavities 4A extending from a rearward end 4B to a forward, mating end 4C. Adjacent the rearward end 4B are latching detents 4D. The housing portion 4 advantageously is of single piece, molded plastics construction. The retainer 6 is also of single piece, molded plastics construction, and includes a plurality of passageways 6A extending from a rearward end 6B to a forward end 6C. Means on the retainer 6 in the form of resiliently deflectable fingers 6D are distributed circumferentially of respective passageways 6A and converge in directions radially of the respective passageways 6A. The converging fingers 6D form restricted orifices 6E for the respective passageways 6A. Resiliently deflectable latching fingers 6F are molded to project in a forward direction. The retainer housing portion 6 is assembled on the rearward end 4B of the housing portion 4. The fingers 6D align with and project partially into the rearward ends of the cavities 4A. The fingers 6F interlock with the detents 4D to retain together the housing portions 4 and 6 to form the composite housing 2.

The subassemblies 8 are assembled in the composite housing 2 by a workman. First the workman inserts the contact 12 of a respective subassembly 8 into a respective passageway 6A

the rearward end 6B of the retainer 6. Then, the workman pushes the subassembly 8 along the passageway 6A, so that the contact 12 passes through the restricted orifice 6E and into registration within a cavity 4A of the housing 4. The fingers 6E spread apart or spring toward each other in response to passage of varied sectional dimensions of the subassembly. Accordingly, the orifice is expansible and contractible in response to passage therinto of the respective subassembly 8. After the respective contact 12 passes entirely through the respective orifice 6E, the insulated conductor 10 extends along and through the orifice. The fingers 6D frictionally engage the insulated conductor 10. Proper registration of a respective subassembly 8 is achieved when the contact 12 thereof is inserted into a forward end of the respective cavity 4A and the wings 12A of the contact 12 spring outward radially. The wings 12A impinge against a radial shoulder 4E to secure the contact against withdrawal in a rearward direction.

The manner in which the connector of the present invention is constructed permits the user to discover any improper assembly of any subassembly 8 within the connector housing 2. After all subassemblies 8 are assembled into the composite connector housing 2, the workman unlatches and removes the retainer 6 from the housing portion 4. As shown in Figure 4, the workman moves the retainer 6 in a rearward direction along the conductors 10 of the subassemblies 8. The fingers 6D, which frictionally engage radially against the conductors, will slide frictionally over those conductors 10 of the subassemblies 8 which are in proper registration to resist removal from the housing portion 4. As shown in Figure 3, one of the subassemblies 8 is shown with the wings 12A failing to impinge against a respective shoulder 4E. This failing may be due to improper assembly within the respective cavity 4A, or due to a damaged contact 12. Alternatively, the contact may be purposely designed, for example, with no wings 12A, not shown, so that the contact does not secure to the housing portion 4. As shown in Figure 4, any contact 12 which is unsecured to the housing portion 4 is readily withdrawn therefrom by removal of the retainer 6 and movement thereof in rearward direction. For example, the respective fingers 6D, that frictionally engage the conductor 10, attached to the unsecured contact 12, will pull the conductor rearwardly to accompany movement of the retainer 6. The unsecured contact 12 becomes revealed upon its withdrawal from the housing portion 4. A workman then assembles properly the withdrawn subassembly 8 into the housing portion 4. Subsequently the assembly 1 is completed by the retainer 6 being moved along the conductors 10 and reassembled with the housing portion 4.

In other modifications and embodiments of the invention, the resilient fingers 6D that frictionally engage the conductors 10 of the subassemblies 8 also may lodge against the rearward ends of the

contacts 12 thereby to retain the contacts in the composite housing 2, and, the housing 2 can be of plug form adapted for mated connection with another housing of complementary receptacle form, shown in Figure 1 at 14. The housing 14 is also of composite form. Housing portion 16 has cavities 16A extending from a rearward end 16B to a forward end 16C. The end 16C is of receptacle form for mated connection with the plug form mating end 4C of the housing 2. A retainer 18 is assembled within the housing portion 16. The retainer 18 and the retainer 4 may be identical to form interchangeable parts. Subassemblies 20 are assembled in the composite housing 14, and comprise elongated insulated conductors 22 connected with respective electrical contacts, not shown. These contacts are previously known and commercially available, electrical socket types adapted for mated connection with the plug type contacts 12 of the connector assembly 1.

Claims

1. A kit of parts for an electrical connector assembly (1) comprising interlocking forward and rearward housing sections (4, 6) cavities (4A) in the forward housing section (4) axially aligned with corresponding passageways (6A) in the rearward housing section (6), electrical conductor assemblies (8) consisting of electrical conductors (10) connected to corresponding electrical contacts (12) and dimensioned for passage axially along the passageways (6A) and forwardly beyond the passageways (6A) into positions of latched registration within the cavities (4A), characterized in that; the rearward housing section (6) includes retainer means (6D) for retaining portions of the electrical conductor assemblies (8) forwardly of the passageways (6A), and the rearward housing section (6) is adapted for withdrawal from the forward housing section (4) together with each of the electrical conductor assemblies (8) which is deficient of latched registration within a corresponding one of the cavities (4A).

2. A kit of parts for an electrical connector assembly (1) according to claim 1, further characterized in that; the retainer means (6D) is adapted to project into corresponding cavities (4A) upon interlocking together the housing sections (4, 6).

3. A kit of parts for an electrical connector assembly (1) according to claims 1 and 2, further characterized in that; the retainer means (6D) comprise orifices (6E) aligned with corresponding passageways (6A), and the orifices being radially expansible by passage therethrough of corresponding electrical conductor assemblies (8).

4. A kit of parts for an electrical connector assembly (1) according to claims 1 or 2, further characterized in that; the retainer means (6D) comprise resilient fingers distributed circumferentially around corresponding passageways (6A), and the fingers associated with each of the corresponding passageways (6A) converging toward one another and defining an expansible

the rearward end 6B of the retainer 6. Then, the workman pushes the subassembly 8 along the passageway 6A, so that the contact 12 passes through the restricted orifice 6E and into registration within a cavity 4A of the housing 4. The fingers 6E spread apart or spring toward each other in response to passage of varied sectional dimensions of the subassembly. Accordingly, the orifice is expandable and contractible in response to passage therein of the respective subassembly 8. After the respective contact 12 passes entirely through the respective orifice 6E, the insulated conductor 10 extends along and through the orifice. The fingers 6D frictionally engage the insulated conductor 10. Proper registration of a respective subassembly 8 is achieved when the contact 12 thereof is inserted into a forward end of the respective cavity 4A and the wings 12A of the contact 12 spring outward radially. The wings 12A impinge against a radial shoulder 4E to secure the contact against withdrawal in a rearward direction.

The manner in which the connector of the present invention is constructed permits the user to discover any improper assembly of any subassembly 8 within the connector housing 2. After all subassemblies 8 are assembled into the composite connector housing 2, the workman unlatches and removes the retainer 6 from the housing portion 4. As shown in Figure 4, the workman moves the retainer 6 in a rearward direction along the conductors 10 of the subassemblies 8. The fingers 6D, which frictionally engage radially against the conductors, will slide frictionally over those conductors 10 of the subassemblies 8 which are in proper registration to resist removal from the housing portion 4. As shown in Figure 3, one of the subassemblies 8 is shown with the wings 12A failing to impinge against a respective shoulder 4E. This failing may be due to improper assembly with in the respective cavity 4A, or due to a damaged contact 12. Alternatively, the contact may be purposely designed, for example, with no wings 12A, not shown, so that the contact does not secure to the housing portion 4. As shown in Figure 4, any contact 12 which is unsecured to the housing portion 4 is readily withdrawn therefrom by removal of the retainer 6 and movement thereof in rearward direction. For example, the respective fingers 6D, that frictionally engage the conductor 10, attached to the unsecured contact 12, will pull the conductor rearwardly to accompany movement of the retainer 6. The unsecured contact 12 becomes revealed upon its withdrawal from the housing portion 4. A workman then assembles properly the withdrawn subassembly 8 into the housing portion 4. Subsequently the assembly 1 is completed by the retainer 6 being moved along the conductors 10 and reassembled with the housing portion 4.

In other modifications and embodiments of the invention, the resilient fingers 6D that frictionally engage the conductors 10 of the subassemblies 8 also may lodge against the rearward ends of the

contacts 12 thereby to retain the contacts in the composite housing 2, and, the housing 2 can be of plug form adapted for mated connection with another housing of complementary receptacle form, shown in Figure 1 at 14. The housing 14 is also of composite form. Housing portion 16 has cavities 16A extending from a rearward end 16B to a forward end 16C. The end 16C is of receptacle form for mated connection with the plug form mating end 4C of the housing 2. A retainer 18 is assembled within the housing portion 16. The retainer 18 and the retainer 4 may be identical to form interchangeable parts. Subassemblies 20 are assembled in the composite housing 14, and comprise elongated insulated conductors 22 connected with respective electrical contacts, not shown. These contacts are previously known and commercially available, electrical socket types adapted for mated connection with the plug type contacts 12 of the connector assembly 1.

Claims

1. A kit of parts for an electrical connector assembly (1) comprising interlocking forward and rearward housing sections (4, 6) cavities (4A) in the forward housing section (4) axially aligned with corresponding passageways (6A) in the rearward housing section (6), electrical conductor assemblies (8) consisting of electrical conductors (10) connected to corresponding electrical contacts (12) and dimensioned for passage axially along the passageways (6A) and forwardly beyond the passageways (6A) into positions of latched registration within the cavities (4A), characterized in that; the rearward housing section (6) includes retainer means (6D) for retaining portions of the electrical conductor assemblies (8) forwardly of the passageways (6A), and the rearward housing section (6) is adapted for withdrawal from the forward housing section (4) together with each of the electrical conductor assemblies (8) which is deficient of latched registration within a corresponding one of the cavities (4A).

2. A kit of parts for an electrical connector assembly (1) according to claim 1, further characterized in that; the retainer means (6D) is adapted to project into corresponding cavities (4A) upon interlocking together the housing sections (4, 6).

3. A kit of parts for an electrical connector assembly (1) according to claims 1 and 2, further characterized in that; the retainer means (6D) comprise orifices (6E) aligned with corresponding passageways (6A), and the orifices being radially expandable by passage therethrough of corresponding electrical conductor assemblies (8).

4. A kit of parts for an electrical connector assembly (1) according to claims 1 or 2, further characterized in that; the retainer means (6D) comprise resilient fingers distributed circumferentially around corresponding passageways (6A), and the fingers associated with each of the corresponding passageways (6A) converging toward one another and defining an expandable



orifice (6E) for the corresponding passageway (6A).

5. A kit of parts for an electrical connector assembly (1) according to claims 1 or 2, further characterized in that; the retainer means (6D) is adapted to engage rearward ends of corresponding electrical contacts (12).

6. An electrical connector assembly (1) comprising interlocking forward and rearward housing sections (4, 6), cavities (4A) in the forward housing section (4) axially aligned with corresponding passageways (6A) in the rearward housing section (6), electrical conductor assemblies (8) consisting of electrical conductors (10) connected to corresponding electrical contacts (12) and dimensioned for passage axially along the passageways (6A) and forwardly beyond the passageways (6A) into positions of latched registration within the cavities (4A), characterized in that; the rearward housing section (6) includes retainer means (6D) for retaining portions of the electrical conductor assemblies (8) forwardly of the passageways (6A), and the rearward housing section (6) is adapted for withdrawal from the forward housing section (4) together with each of the electrical conductor assemblies (8) which is deficient of latched registration within a corresponding one of the cavities (4A).

7. An electrical connector assembly according to claim 6, further characterized in that; the retainer means (6D) is adapted to project into corresponding cavities (4A) upon interlocking together the housing sections (4, 6).

8. An electrical connector assembly according to claims 6 or 7, further characterized in that; the retainer means (6D) comprise orifices (6E) aligned with corresponding passageways (6A), and the orifices being radially expansible by passage therethrough of corresponding electrical conductor assemblies (8).

9. An electrical connector assembly according to claims 6 or 7, further characterized in that; the retainer means (6D) comprise resilient fingers distributed circumferentially around corresponding passageways (6A), and the fingers associated with each of the corresponding passageways (6A) converging toward one another and defining an expansible orifice (6E) for the passageway (6A).

Patentansprüche

1. Bauteilesatz für eine elektrische Verbinderanordnung (1)

mit einem vorderen und einem hinteren Gehäuseabschnitt (4, 6) die aneinander verriegelbar sind,

mit Hohlräumen (4A) in dem vorderen Gehäuseabschnitt (4), die mit entsprechenden Durchführungen (6A) in dem hinteren Gehäuseabschnitt (6) axial ausgerichtet sind, und

mit elektrischen Leiteranordnungen (8), bestehend aus elektrischen Leitern (10), die mit entsprechenden elektrischen Kontakten (12) verbunden sind und derart dimensioniert sind, daß sie axial durch die Durchführungen (6A) hindurch-

föhrbar und vorne aus den Durchführungen (6A) heraus in Positionen bringbar sind, in denen sie sich in verriegelter Ausrichtung innerhalb der Hohlräume (4A) befinden, dadurch gekennzeichnet,

daß der hintere Gehäuseabschnitt (6) vor den Durchführungen (6A) eine Festhalteeinrichtung (6D) zum Festhalten von Bereichen der elektrischen Leiteranordnungen (8) aufweist, und

daß der hintere Gehäuseabschnitt (6) zusammen mit einer jeden elektrischen Leiteranordnung (8), die sich nicht in verriegelter Ausrichtung innerhalb eines entsprechenden Hohlraums (4A) befindet, von dem vorderen Gehäuseabschnitt (4) wegziehbar ist.

2. Bauteilesatz für eine elektrische Verbinderanordnung (1) nach Anspruch 1, dadurch gekennzeichnet, daß die Festhalteeinrichtung (6D) dazu ausgelegt ist, in entsprechende Hohlräume (4A) hineinzuragen, wenn die Gehäuseabschnitte (4, 6) aneinander verriegelt werden.

3. Bauteilesatz für eine elektrische Verbinderanordnung (1) nach Anspruch 1 und 2, dadurch gekennzeichnet, daß die Festhalteeinrichtungen (6D) Öffnungen (6E) aufweisen, die mit entsprechenden Durchführungen (6A) ausgerichtet sind, und daß die Öffnungen durch das Hindurchtreten entsprechender elektrischer Leiteranordnungen (8) durch diese radial aufweitbar sind.

4. Bauteilesatz für eine elektrische Verbinderanordnung (1) nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß die Festhalteeinrichtungen (6D) federnd nachgiebige Finger aufweisen, die umfangsmäßig um entsprechende Durchführungen (6A) verteilt sind, und daß die Finger, die jeder der entsprechenden Durchführungen (6A) zugeordnet sind, aufeinander zu konvergieren und eine aufweitbare Öffnung (6E) für die entsprechende Durchführung (6A) definieren.

5. Bauteilesatz für eine elektrische Verbinderanordnung (1) nach Anspruch 1 oder 2, dadurch gekennzeichnet, daß die Festhalteeinrichtung (6D) dazu ausgelegt ist, an hinteren Enden entsprechender elektrischer Kontakte (12) anzugreifen.

6. Elektrische Verbinderanordnung (1) mit einem vorderen und einem hinteren Gehäuseabschnitt (4, 6), die aneinander verriegelbar sind, mit Hohlräumen (4A) in dem vorderen Gehäuseabschnitt (4), die mit entsprechenden Durchführungen (6A) in dem hinteren Gehäuseabschnitt (6) axial ausgerichtet sind, und mit elektrischen Leiteranordnungen (8) bestehend aus elektrischen Leitern (10), die mit entsprechenden elektrischen Kontakten (12) verbunden sind und derart dimensioniert sind, daß sie axial durch die Durchführungen (6A) hindurchföhrbar und vorne aus den Durchführungen (6A) heraus in Positionen bringbar sind, in denen sie sich in verriegelter Ausrichtung innerhalb der Hohlräume (4A) befinden, dadurch gekennzeichnet,

daß der hintere Gehäuseabschnitt (6) vor den Durchführungen (6A) eine Festhalteeinrichtung (6D) zum Festhalten von Bereichen der elektrischen Leiteranordnungen (8) aufweist, und



daß der hintere Gehäuseabschnitt (6) zusammen mit einer jeden elektrischen Leiteranordnung (8), die sich nicht in verriegelter Ausrichtung innerhalb eines entsprechenden Hohlraums (4A) befindet, von dem vorderen Gehäuseabschnitt (4) wegziehbar ist.

7. Elektrische Verbinderanordnung nach Anspruch 6, dadurch gekennzeichnet, daß die Festhalteeinrichtung (6D) dazu ausgelegt ist, in entsprechende Hohlräume (4A) hineinzuragen, wenn die Gehäuseabschnitte (4, 6) aneinander verriegelt werden.

8. Elektrische Verbinderanordnung nach Anspruch 6 oder 7, dadurch gekennzeichnet, daß die Festhalteeinrichtungen (6D) Öffnungen (6E) aufweisen, die mit entsprechenden Durchführungen (6A) ausgerichtet sind, und daß die Öffnungen durch das Hindurchtreten entsprechender elektrischer Leiteranordnungen (8) durch diese radial aufweitbar sind.

9. Elektrische Verbinderanordnung nach Anspruch 6 oder 7, dadurch gekennzeichnet, daß die Festhalteeinrichtungen (6D) federnd nachgiebige Finger aufweisen, die umfangsmäßig um entsprechende Durchführungen (6A) verteilt sind, und daß die Finger, die jeder entsprechenden Durchführungen (6A) zugeordnet sind, aufeinander zu konvergieren und eine aufweitbare Öffnung (6E) für die Durchführung (6A) definieren.

Revendications

1. Jeu de pièces pour un assemblage de connecteur électrique (1) comprenant des parties de boîtier avant et arrière (4, 6) verrouillables entre elles, des cavités (4A) dans la partie de boîtier avant (4) alignées axialement avec des canaux correspondants (6A) ménagés dans la partie de boîtier arrière (6), des ensembles de conducteurs électriques (8) constitués de conducteurs électriques (10) connectés à des contacts électriques correspondants (12) et dimensionnés pour être disposés axialement dans les canaux (6A) et dépasser en avant des canaux (6A) jusqu'à des positions d'alignement verrouillé à l'intérieur des cavités (4A), caractérisé en ce que la partie de boîtier arrière (6) comprend des moyens de retenue (6D) destinés à retenir des tronçons des ensembles de conducteurs électriques (8) en avant des canaux (6A), et la partie de boîtier arrière (6) est conçue pour être retirée de la partie de boîtier avant (4) avec chacun des ensembles de conducteurs électriques (8) qui n'est pas en alignement verrouillé dans l'une, correspondante, des cavités (4A).

2. Jeu de pièces pour un assemblage de connecteur électrique (1) selon la revendication 1, caractérisé en outre en ce que les moyens (6D) de retenue sont conçus pour pénétrer dans des cavités correspondantes (4A) à la suite du verrouillage entre elles des parties de boîtier (4, 6).

3. Jeu de pièces pour un assemblage de connecteur électrique (1) selon les revendications 1 et 2, caractérisé en outre en ce que les moyens de retenue (6D) comprennent des orifices (6E)

alignés avec des canaux correspondants (6A), les orifices pouvant être expansés radialement par le passage dans ces orifices d'ensembles de conducteurs électriques correspondants (8).

4. Jeu de pièces pour un assemblage de connecteur électrique (1) selon les revendications 1 ou 2, caractérisé en outre en ce que les moyens de retenue (6D) comprennent des doigts élastiques répartis circonférentiellement autour des canaux correspondants (6A), les doigts associés à chacun des canaux correspondants (6A) convergeant les uns vers les autres et définissant un orifice expansible (6E) pour le canal correspondant (6A).

5. Jeu de pièces pour un assemblage de connecteur électrique (1) selon la revendication 1 ou 2, caractérisé en outre en ce que les moyens (6D) de retenue sont conçus pour porter contre les extrémités arrière de contact électrique correspondant (12).

6. Assemblage de connecteur électrique (1) comprenant des parties de boîtier avant et arrière (4, 6) verrouillables entre elles, des cavités (4A) ménagées dans la partie de boîtier avant (4) alignées axialement avec des canaux correspondants (6A) ménagés dans la partie de boîtier arrière (6), des ensembles de conducteurs électriques (8) constitués de conducteurs électriques (10) connectés à des contacts électriques correspondants (12) et dimensionnés pour être disposés axialement dans les canaux (6A) et dépasser en avant des canaux (6A) jusqu'à des positions d'alignement verrouillé à l'intérieur de cavités (4A), caractérisé en ce que la partie de boîtier arrière (6) comprend des moyens de retenue (6D) destinés à retenir des tronçons des ensembles (8) de conducteurs électriques en avant des canaux (6A), et la partie de boîtier arrière (6) est conçue pour être retirée de la partie de boîtier avant (4) avec chacun des ensembles (8) de conducteurs électriques qui n'est pas en alignement verrouillé à l'intérieur de l'une, correspondante, des cavités (4A).

7. Assemblage de connecteur électrique selon la revendication 6, caractérisé en outre en ce que les moyens de retenue (6D) sont conçus pour pénétrer dans des cavités correspondantes (4A) à la suite du verrouillage des parties de boîtier (4, 6) l'une à l'autre.

8. Assemblage de connecteur électrique selon les revendications 6 ou 7, caractérisé en outre en ce que les moyens de retenue (6D) comprennent des orifices (6E) alignés avec des canaux correspondants (6A), les orifices pouvant être expansés radialement par passage dans ces orifices d'ensembles correspondants (8) de conducteurs électriques.

9. Assemblage de connecteur électrique selon les revendications 6 ou 7, caractérisé en outre en ce que les moyens de retenue (6D) comprennent des doigts élastiques répartis circonférentiellement autour de canaux correspondants (6A), les doigts associés à chacun des canaux correspondants (6A) convergeant les uns vers les autres et définissant un orifice expansible (6E) pour le canal (6A).

