CLAIMS

1. Termination (10) for electrical cables, comprising:
- an outer insulation tubular body (15) having a longitudinal axis (X-X);
- a conductive rod (30) coaxially arranged within said insulation tubular body (15);
- an elastomeric sleeve (20) coaxially arranged within said insulation tubular body (15) and extending about an end portion of said conductive rod (30);
- a connecting device (25) coaxially arranged within said elastomeric sleeve (20), said connecting device (25) being mechanically and electrically connected to said conductive rod (30) and being adapted to be mechanically and electrically connected to an electrical cable (100);
- a conductive tubular element (50) coaxially arranged within said insulation tubular body (15) and adapted to be electrically connected to the ground;
- a semi-conductive element (40) coaxially arranged within said conductive tubular element (15) and partially extending inside said elastomeric sleeve (20) on the opposite side to said conductive rod (30) with respect to said connecting device (25);
- at least one elastic conductive element (60) radially interposed between, and in a contact with, said conductive tubular element (50) and said semi-conductive element (40), said at least one elastic conductive element (60) exerting an elastic force onto said semi-conductive element (40) along at least one radial direction towards said longitudinal axis (X-X).

2. Termination (10) according to claim 1, comprising a leak-tight element (80) axially interposed between said elastomeric sleeve (20) and said conductive tubular element (50).

3. Termination (10) according to claim 1 or 2, comprising

at least two elastic conductive elements (60) arranged at different axial positions.

4. Termination (10) according to any of the previous claims, wherein said at least one elastic conductive element (60) comprises at least one annular spring (61) coaxially arranged within said conductive tubular element (50) in a radially outer position with respect to said semi-conductive element (40).

5. Termination (10) according to claim 4, wherein said annular spring (61) comprises a metallic wire (62) spirally wound along an annular path extending about said longitudinal axis (X-X) to define a plurality of coils (63).

6. Termination (10) according to claim 5, wherein each of said coils (63) lays on a plane which does not include said longitudinal axis (X-X).

7. Termination (10) according to any of the previous claims, wherein said insulation tubular body (15) is at least partially filled at least with silicon gel (71).

8. Termination (10) according to any of the previous claims, wherein said connecting device (25) comprises a first seat (27a) for a plug-in connection to said electrical cable (100) and an axially opposite seat (27b) for a plug-in connection to said conductive rod (30).

9. Method for manufacturing a termination (10) for electrical cables, comprising:

- providing an elastomeric sleeve (20) having a longitudinal axis (X-X) and including, in a radially inner position thereof, a connecting device (25);
- coaxially arranging a semi-conductive element (40) with respect to said elastomeric sleeve (20) so that a first portion of said semi-conductive element (40) axially extends inside said elastomeric sleeve (20) and a second

portion of said semi-conductive element (40) axially extends outside said elastomeric sleeve (20);
- inserting an end portion of a conductive rod (30) into said elastomeric sleeve (20) on the opposite side with respect to said to said semi-conductive element (40) to electrically and mechanically connect said conductive rod (30) to said connecting device (25);
- arranging at least one elastic conductive element (60) in a radially inner position of a conductive tubular element (50);
- fitting said conductive tubular element (50) onto said second portion of said semi-conductive element (40) so that said at least one elastic conductive element (60) is radially interposed between, and in a contact with, said conductive tubular element (50) and said semi-conductive element (40) and exerts an elastic force onto said semi-conductive element (40) along at least one radial direction towards said longitudinal axis (X-X);
- coaxially arranging an outer insulation tubular body (15) in a radially outer position with respect to said conductive rod (30), said elastomeric sleeve (20) and said conductive tubular element (50).

10. Method according to claim 9, comprising axially interposing a leak-tight element (80) between said elastomeric sleeve (20) and said conductive tubular element (50).

11. Method according to claim 9 or 10, comprising at least partially filling said insulation tubular body (15) at least with silicon gel (71).

12. Method for connecting an electrical cable (100) to a termination (10) for electrical cables, comprising:
- providing a termination (10) according to any of claims 1 to 8;
- mechanically and electrically connecting said electrical

cable (100) to said connecting device (25).

CLAIMS

1. Termination (10) for electrical cables, comprising:
- an outer insulation tubular body (15) having a longitudinal axis (X-X);
- a conductive rod (30) coaxially arranged within said insulation tubular body (15);
- an elastomeric sleeve (20) coaxially arranged within said insulation tubular body (15) and extending about an end portion of said conductive rod (30);
- a connecting device (25) coaxially arranged within said elastomeric sleeve (20), said connecting device (25) being mechanically and electrically connected to said conductive rod (30) and being adapted to be mechanically and electrically connected to an electrical cable (100);
- a conductive tubular element (50) coaxially arranged within said insulation tubular body (15) and adapted to be electrically connected to the ground;
- a semi-conductive element (40) coaxially arranged within said conductive tubular element (15) and partially extending inside said elastomeric sleeve (20) on the opposite side to said conductive rod (30) with respect to said connecting device (25);
- at least one elastic conductive element (60) radially interposed between, and in a contact with, said conductive tubular element (50) and said semi-conductive element (40), said at least one elastic conductive element (60) exerting an elastic force onto said semi-conductive element (40) along at least one radial direction towards said longitudinal axis (X-X) so as to radially displace said semi-conductive element (40) with respect to said longitudinal axis (X-X) depending on the actual diameter of said electrical cable (100).

2. Termination (10) according to claim 1, comprising a leak-tight element (80) axially interposed between said elastomeric sleeve (20) and said conductive tubular element

(50).

3. Termination (10) according to claim 1 or 2, comprising at least two elastic conductive elements (60) arranged at different axial positions.

4. Termination (10) according to any of the previous claims, wherein said at least one elastic conductive element (60) comprises at least one annular spring (61) coaxially arranged within said conductive tubular element (50) in a radially outer position with respect to said semi-conductive element (40).

5. Termination (10) according to claim 4, wherein said annular spring (61) comprises a metallic wire (62) spirally wound along an annular path extending about said longitudinal axis (X-X) to define a plurality of coils (63).

6. Termination (10) according to claim 5, wherein each of said coils (63) lays on a plane which does not include said longitudinal axis (X-X).

7. Termination (10) according to any of the previous claims, wherein said insulation tubular body (15) is at least partially filled at least with silicon gel (71).

8. Termination (10) according to any of the previous claims, wherein said connecting device (25) comprises a first seat (27a) for a plug-in connection to said electrical cable (100) and an axially opposite seat (27b) for a plug-in connection to said conductive rod (30).

9. Method for manufacturing a termination (10) for electrical cables, comprising:
- providing an elastomeric sleeve (20) having a longitudinal axis (X-X) and including, in a radially inner position thereof, a connecting device (25) adapted to be mechanically and electrically connected to an electrical cable (100);;

- coaxially arranging a cylindrical semi-conductive element (40) with respect to said elastomeric sleeve (20) so that a first portion of said semi-conductive element (40) axially extends inside said elastomeric sleeve (20) and a second portion of said semi-conductive element (40) axially extends outside said elastomeric sleeve (20);
- inserting an end portion of a conductive rod (30) into said elastomeric sleeve (20) on the opposite side with respect to said to said semi-conductive element (40) to electrically and mechanically connect said conductive rod (30) to said connecting device (25);
- arranging at least one elastic conductive element (60) in a radially inner position of a conductive tubular element (50);
- fitting said conductive tubular element (50) onto said second portion of said semi-conductive element (40) so that said at least one elastic conductive element (60) is radially interposed between, and in a contact with, said conductive tubular element (50) and said semi-conductive element (40) and exerts an elastic force onto said semi-conductive element (40) along at least one radial direction towards said longitudinal axis (X-X) so as to radially displace said semi-conductive element (40) towards to, or away from, said longitudinal axis (X-X) depending on the actual diameter of said electrical cable (100);
- coaxially arranging an outer insulation tubular body (15) in a radially outer position with respect to said conductive rod (30), said elastomeric sleeve (20) and said conductive tubular element (50).

10. Method according to claim 9, comprising axially interposing a leak-tight element (80) between said elastomeric sleeve (20) and said conductive tubular element (50).

11. Method according to claim 9 or 10, comprising at least partially filling said insulation tubular body (15) at

least with silicon gel (71).

12. Method for connecting an electrical cable (100) to a termination (10) for electrical cables, comprising:
- providing a termination (10) according to any of claims 1 to 8;
- mechanically and electrically connecting said electrical cable (100) to said connecting device (25).