Claims

1. Electrical contact element (11, 21) for a plug-in connector (10, 20), having a metallic base body (111, 211), a metallic intermediary layer (112, 212) applied to the base body (111, 211), which has a thickness (d_{112}, d_{212}) ranging from 1.5 µm to 4.0 µm, and a wear layer (113, 213) applied to the intermediate layer (112, 212), wherein the wear layer (113, 213) consists of the following alloy elements:

50 – 100 % w/w	ruthenium
0 – 30 % w/w	nickel
0 – 20 % w/w	chromium
0 – 20 % w/w	cobalt
0 – 20 % w/w	platinum
0 – 1 % w/w	further alloy elements,

wherein the sum of the alloy elements is 100 % w/w, characterised in that a metallic and/or organic slide layer (114, 214) is arranged on the wear layer (113, 213), with the slide layer (114, 214) comprising at least one fluoropolymer and/or at least one fatty acid salt.

2. Electrical contact element (11, 21) according to claim 1, characterised in that the wear layer (113, 213) has a thickness (d_{113}, d_{213}) ranging from 0.15 µm to 1.50 µm.

3. Electrical contact element (11, 21) according to claim 1 or 2, characterised in that the intermediary layer (112, 212) consists of the following alloy elements:

99 – 100 % w/w	copper or nickel
0 – 1 % w/w	further alloy elements,

wherein the sum of the alloy elements is 100 % w/w.

4. Electrical contact element (11, 21) according to one of claims 1 to 3, wherein the slide layer (114, 214) further comprising an alloy having of the following alloy elements:

98.5 – 100.0 % w/w	gold

0 – 0.5 % w/w	cobalt
0 – 1.0 % w/w	further alloy elements,

wherein the sum of the alloy elements is 100 % w/w.

5. Electrical contact element (11, 21) according to one of claims 1 to 4, characterised in that the slide layer (114, 214) has a thickness (d_{114}, d_{214}) ranging from 0.05 µm to 0.25 µm.

6. Electrical contact element (11, 21) according to one of claims 1 to 5, characterised in that the base body (111, 211) consists of the following alloy elements:

50 – 100 % w/w	copper
0 – 45 % w/w	zinc
0 – 5 % w/w	further alloy elements,

wherein the sum of the alloy elements is 100 % w/w.