EP3182520(UK) Amended Claims – Tracked

~~1. An electrical connection (1; 1') for electrically connecting a flat connector (2; 2'; 2"), comprising a flat strip of electrically conductive material (20; 20'; 20") encased in a thin layer of non-conductive material, and an electrical cable (3; 3'; 3"), the electrical connection (1; 1') comprising a flat connector (2; 2'; 2") with an insulated portion (21; 21") and an exposed electrically conductive portion (20e; 20e"), an electrical cable (3; 3'; 3"), a first seal (6a; 6a"), a second seal (6b) and an enclosure (4), where the flat connector (2; 2'; 2") and the electrical cable (3; 3'; 3") are secured together in order to provide electrical contact between one another at the exposed electrically conductive portion (20e; 20e") of the flat connector (2; 2'; 2"), the first seal (6a; 6a") being outboard of the exposed electrically conductive portion (20e; 20e") of the flat connector (2; 2'; 2") whereby the enclosure (4) encases the first seal (6a; 6a"), the second seal (6b) and the electrical contact and characterised in that the first seal (6a; 6a") is adjacent a distal edge (20a) of the exposed electrically conductive element (20e; 20e") of the flat connector (2; 2'; 2") and wherein the second seal (6b) contacts the insulated portion (21; 21") of the flat connector (2; 2'; 2") and the electrically conductive portion (20e; 20e") of the flat connector (2; 2'; 2"), whereby the electrical contact is free of the second seal (6b).~~

~~2. The electrical connection (1; 1') according to Claim 1, wherein the first seal (6a; 6a") is located around the electrical cable (3; 3'; 3").~~

~~3. The electrical connection (1; 1') according to Claim 1 or 2, wherein the enclosure (4) encases the electrically conductive portion (20e; 20e") of the flat connector (2; 2'; 2").~~

~~4. The electrical connection (1; 1') according to any preceding Claim, wherein the first seal (6a) and/or the second seal (6b) comprises an adhesive material (61, 63).~~

~~5. The electrical connection (1; 1') according to Claim 4, wherein the adhesive material (63) provides an interface between the first seal (6a) and/or the second seal (6b) and the enclosure (4).~~

~~6. The electrical connection (1; 1') according to any preceding Claim, wherein the flat strip of electrically conductive material (20; 20'; 20") has a cross sectional area of less than 3 mm 2 , preferably less than 2.75, less than 2.5, less than 2.25, less than 2, for example less than 1.95, less than 1.9, less than 1.85 or less than 1.8 mm 2 , and/or wherein the flat strip of electrically conductive material (20; 20'; 20") has a thickness of from 80 to 120 × 10 -6 m (i.e. from 80 to 120 μm), say from 85 to 118, 90 to 115, 95 to 113 μm and/or wherein the flat strip of electrically conductive material (20; 20'; 20") has a width of from 10 to 30 mm, say from 12 to 28 mm, for example from 14 to 25 mm.~~

~~7. The electrical connection (1; 1') according to any preceding Claim, wherein the exposed electrically conductive portion (20e") has two major surfaces, and one of the surfaces is covered with an electrically insulating material.~~

~~8. The electrical connection (1; 1') according to any preceding claim, wherein the enclosure (4) comprises a glass reinforced polymer.~~

~~9~~1. A method of forming an electrical connection (1; 1') between a flat connector (2; 2'; 2"), comprising a flat strip of ~~electrically conductive material~~copper (20; 20'; 20") encased in a thin layer of non-conductive material, and an electric cable (3; 3'; 3"), the method comprising the steps of:

a) providing a flat connector with an insulated portion (21; 21") and an electrically conductive portion (20e; 20e"), electrical cable (3; 3'; 3") and a first seal (6a; 6a");

b) securing the flat connector and the electrical cable together using a solder comprising lead (5) in order to provide electrical contact between each other at the electrically conductive portion of the flat connector;

c) fitting a first seal outboard of the electrically conductive portion of the flat connector and around the electrical cable such that the electrical contact is free of the first seal;

d) providing a second seal (6b); and

e) encasing the first seal, the second seal and electrical contact with an enclosure (4) formed from thermoplastic

Characterised in that the first seal is located adjacent a distal edge of the electrically conductive portion of the flat connector and the second seal (6b) contacts the insulated portion (21; 21") of the flat connector (2; 2'; 2") and the electrically conductive portion (20e; 20e") of the flat connector (2; 2'; 2"), whereby the electrical contact is free of the second seal.

~~10~~2. Method according to Claim ~~9~~1, wherein step c) occurs prior to step b) and wherein step b) further comprises use of the first seal as a guide for positioning of the electrical cable relative to the flat connector.

~~11. A windscreen assembly comprising an electrical connection according to any of Claims 1 to 8.~~