[Document Name] CLAIMS

[Claim 1]

A winding structure of a bonding wire wound on a spool comprising a lead winding part in which the wire is regularly wound, a main winding part in which the wire is cross-wound in multilayers, and a tail winding part in which the wire is regularly wound; wherein

the bonding wire is a long wire as long as 1,000 m or more when the bonding wire comprises a pure silver alloy or a silver alloy,

the bonding wire is a long wire as long as 2,000 m or more when the bonding wire comprises pure copper, a copper alloy, or Pd-coated Cu or copper alloy, or

the bonding wire is a long wire as long as 5,000 m or more when the bonding wire comprises pure gold or a gold alloy;

the main winding part has a shape having a protruding portion at least at one end,

the protruding portion is continued to a wave-like layer, and

the protruding portion has a circumferential oblique side with a steeper elevation angle; and

the height of the peak of the protruding portion is higher than the average height of the wave-like layer.

[Claim 2]

The winding structure of the bonding wire according to claim 1, wherein the protruding portion is provided in both ends of the main winding part.

[Claim 3]

The winding structure of the bonding wire according to claim 1, wherein the wave-like layer has 7 to 18 mountains.

[Claim 4]

The winding structure of the bonding wire according to claim 1, wherein the bonding wire is a silver alloy.