

Title (en)

METHOD FOR PRODUCING COAXIAL CABLES HAVING A THIN-WALLED, RADIALY CLOSED OUTER CONDUCTOR

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KOAXIALKABELN MIT EINEM DÜNNWANDIGEN, RADIAL GESCHLOSSENEN ÄUßEREN LEITER

Title (fr)

PROCÉDÉ DE FABRICATION DE CÂBLES COAXIAUX COMPORTANT UN CONDUCTEUR EXTÉRIEUR À FINE PAROI, FERMÉ DANS LE SENS RADIAL

Publication

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Application

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Abstract (en)

[origin: WO2021063682A1] The invention relates to a method for continuously producing coaxial cables (224) having a thin-walled, radially closed outer conductor of non-ferrous metal, which method comprises the feeding of a flat strip of the non-ferrous metal to a forming device (212), the thickness of the strip corresponding to the wall thickness of the coaxial cable. The forming device is designed to continuously form the fed flat strip into a shape corresponding to the outer conductor of the coaxial cable around a cable core fed before the closing of the outer conductor. After the forming, two opposite edges of the flat strip lie flush against each other in a contact region, which edges are welded to each other by a welding device (216) continuously by means of a laser, which emits light of a wavelength of less than 600 nm. The laser heats a point in a welding region that has a diameter that is less than 20% of the cross-sectional dimension of the coaxial cable. The welded coaxial cable is pulled from the welding region and, after the introduction of a parallel corrugation or helical corrugation, is received in a receiving apparatus (226).

IPC 8 full level

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