Title (en)

ETHYLENE POLYMER COMPOSITION FOR CABLE APPLICATIONS

Title (de)

ETHYLENPOLYMER-ZUSAMMENSETZUNG FÜR ELECTRISCHE KABEL

Title (fr)

COMPOSITION A BASE DE POLYMERE D'ETHYLENE POUR CABLES

Publication

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Application

EP 97917761 A 19970401

Priority

- US 9705297 W 19970401
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Abstract (en)

[origin: WO9738424A1] The present invention discloses a cable comprising a layer of a polyethylene composition characterized in that the polyethylene composition comprises: (A) from 5 percent to 95 percent by weight of the total composition of at least one first polymer which is an ethylene/ alpha -olefin interpolymer having: (i) a density from 0.865 g/cm<3> to 0.95 g/cm<3>, (ii) a molecular weight distribution (Mw/Mn) from 1.8 to 3.5, (iii) a melt index (I2) from 0.001 g/10 min. to 10 g/10 min., and (iv) a CBDI greater than 50 percent, (B) from 5 percent to 95 percent by weight of the total composition of at least one second polymer which is a heterogeneously branched ethylene polymer or homogeneously branched ethylene homopolymer having a density from 0.9 g/cm<3> to 0.965 g/cm<3>. The cable of the present invention has superior mechanical properties and processability relative to conventional cable using current polymers such as low density polyethylene (LDPE), linear low density polyethylene (LLDPE), and polyvinylchloride (PVC).

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H01B 3/44

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