

ABSTRACT**NON-HALOGEN FLAME RETARDANT RESIN COMPOSITION AND ELECTRIC WIRE OR CABLE USING SAME**

Provided is a non-halogen flame retardant resin composition which has excellent mechanical strength, such as flexibility and wear resistance, excellent flame retardance, particularly excellent cut-through properties, and tensile elongation properties satisfying the UL standards. Also provided is an electric wire or cable using the flame retardant resin composition as a coating layer. A non-halogen flame retardant resin composition includes 100 parts by mass of a resin component and 5 to 40 parts by mass of a phosphorus-based flame retardant, in which the 100 parts by mass of the resin component includes 30 to 85 parts by mass of a polyolefin-based resin, 10 to 50 parts by mass of a polyphenylene-ether-based resin, and 5 to 30 parts by mass of a styrene-based elastomer, and the polyolefin-based resin includes an ethylene-propylene random copolymer polymerized using a metallocene catalyst in the amount of 5% to 60% by mass relative to the entire polyolefin-based resin, and a block copolymer polypropylene resin in the amount of 30% to 95% by mass relative to the entire polyolefin-based resin.

No Suitable Figure