

ABSTRACT

Electric Cable Joints

A joint between lengths of cable with XLPE dielectric comprises a screened conductor connection, a solid moulded dielectric body adhering to the screened conductor connection and to the cable dielectric, a dielectric screen covering and adhering to the moulded body, and at least one outer protective layer. Instead of being of XLPE, the moulded body is of an unfilled thermoplastic polypropylene composition. Thermoplastic polypropylenes (preferably functionalized ones) have adequate electrical properties and adhere well to XLPE. Because they do not require crosslinking agents, control of moulding in the field is much easier, and filtration can be used to assure purity without risking premature crosslinking.