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Sommario/riassunto	Hysteretic loss optimisations through numerical simulation and subsequent experimental confirmation in transport current and background field measurements: ferromagnetic shielding and topological geometry optimisation is used to reduce energy dissipation in HTS coated conductor geometries. Single tapes and coil geometries are investigated. A 3D model capable of taking into account contact resistances is also presented for the Twisted Stacked Tape Conductor cable.