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Embeddings of contact solid tori and Legendrian cable knots.

We classify embeddings of solid tori representing positive torus knots in the standard contact 3-sphere, and in so doing uncover a new object in contact topology, namely partially thickenable solid tori. We then use this to completely classify Legendrian and transverse cables of positive torus knots, and in particular establish the existence of non-destabilizable Legendrians with Thurston-Bennequin number arbitrarily far from maximal, and which require arbitrarily many stabilizations before becoming isotopic to other classes with the same classical invariants. (Received September 12, 2011)