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The utility model discloses a coaxial data cable, including multiple coaxial cables arranged evenly around the axis of a supporting component. The supporting component consists of several twisted cables, which serve to support the coaxial cables and keep their positions from shifting, forming a stable structure. The supporting component includes several electronic wires symmetrically distributed within it, with fillers placed in the gaps between the electronic wires. These fillers reduce the deformation capacity of the supporting component and enhance the supporting effect. The coaxial cables used have a single conductor as the outer shield, with a copper film for secondary shielding on the outside, which reduces high-frequency attenuation and resolves the delay issue in signal transmission. The outer side of the coaxial cables is covered with an insulating layer, which applies pressure towards the axis of the coaxial cables and supporting component while also shielding against interference. The insulating layer is further wrapped with a protective jacket to protect the internal cables.

