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(54) Title: 21AWG EXTENDED DISTANCE POE, NETWORK CABLE

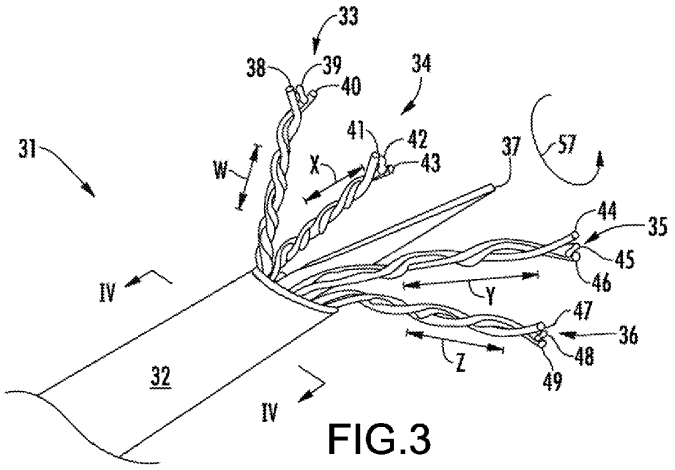


FIG.3

(57) Abstract: A network cable has four twisted pairs. Each twisted pair includes first and second insulated conductors of 21 AWG. Each twisted pair includes a bisector tape located between the first and second twisted insulated conductors. The 21 AWG conductor allows for longer distance transmission of data and PoE. A thinner wall of insulation on 21 AWG conductors allows the network cable to be terminated to industry standard RJ45 jacks and plugs, which were designed to accommodate 22-24 AWG insulated conductors, while the bisector tapes allow the network cable to exhibit nominal 100 ohm impedance between the insulated conductors of each twisted pair.

WO 2025/178893 A1

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