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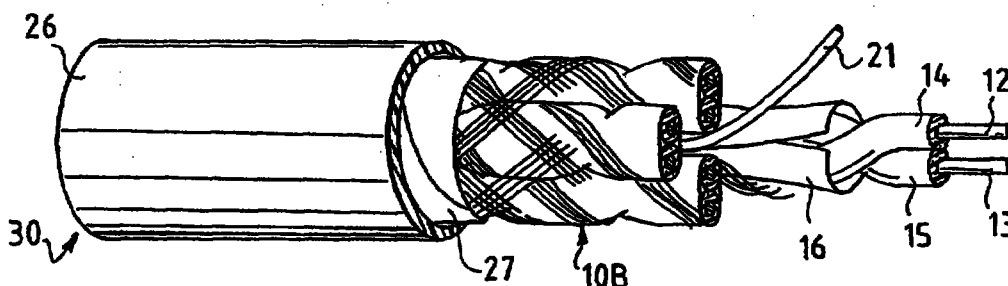
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(54) Title: HIGH PERFORMANCE DATA CABLE AND A UL 910 PLENUM NON-FLUORINATED JACKET HIGH PERFORMANCE DATA CABLE



(57) Abstract: This invention deals with high performance bound lateral shielded twisted pair cables (20, 25, 30) having a high performance data cable (10A & B) containing at least four of the bound lateral shielded twisted pair cables (20, 25, 30), and a method for preparing the same. The bound lateral shielded twisted pair cables (20, 25, 30) preferably have a 20 °C. adjusted standard impedance deviation of 4.5 or less and contains at least four of the bound lateral shielded twisted pair cables (10). The twisted pair is laterally wrapped with a metal shield tape (16) and one of a fabric, metal braid, or thread (18) at a tension that provides the above. The tension is such that it provides a cross-sectional void area of less than 25% and preferably less than 18% of the lateral shielded twisted pair cable cross-sectional area. The tape (16) is laterally wrapped with an overlap of at least 10%. Preferably, the cable (20, 25, 30) has a rating out to 600MHz and 1000MHz. We provide a UL 910 plenum at least category 5-high performance data cable (20, 25, 30) that has a non-fluorinated jacket (19) and between the jacket (19) and a cable core, a temperature-resistant flame-retardant separator tape (27).

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