

Title (en)

HIGH PERFORMANCE DATA CABLE AND A UL 910 PLENUM NON-FLUORINATED JACKET HIGH PERFORMANCE DATA CABLE

Title (de)

Hochleistungsdatenkabel und einem UL 910 Installations-Hochleistungsdatenkabel mit einem nicht-fluoriertem Mantel

Title (fr)

CABLE DE DONNEES A HAUTE PERFORMANCE ET CABLE DE DONNEES POUR VIDE TECHNIQUE UL 910 HAUTE PERFORMANCE A GAINE NON FLUOREE

Publication

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Application

EP 00939861 A 20000614

Priority

- US 0016344 W 20000614
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Abstract (en)

[origin: WO0108167A1] 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 DEG 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).

IPC 1-7

H01B 7/18

IPC 8 full level

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CPC (source: EP KR)

H01B 11/1016 (2013.01 - EP); **H01B 11/1091** (2013.01 - EP); **H01B 13/02** (2013.01 - KR)

Citation (search report)

- [A] EP 0301859 A2 19890201 - KT TECHNOLOGIES INC [BB]
- [A] FR 2637117 A1 19900330 - ACOME SOC COOP TRAVAILLEURS [FR]

Citation (examination)

- WO 0079545 A1 20001228 - BELDEN WIRE & CABLE CO [US], et al
- US 5666452 A 19970909 - DEITZ GREGORY J SR [US], et al
- US 5142100 A 19920825 - VAUPOTIC GREGORY P [US]
- See also references of WO 0108167A1

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