

Title (en)

Electrical cable with high propagation velocity.

Title (de)

Elektrisches Kabel mit hoher Übertragungsgeschwindigkeit.

Title (fr)

Câble électrique à vitesse de propagation élevée.

Publication

EP 0485920 B1 19950802 (FR)

Application

EP 91119172 A 19911111

Priority

FR 9014171 A 19901114

Abstract (en)

[origin: US5286923A] One embodiment comprises: two bare parallel conductors made of bronze; two insulating rods that are substantially helically wound with non-touching turns around the conductors respectively so that the rods interfit and maintain a predetermined distance between the two conductors; and an insulating protective sheath. The helical pitch of the rods is much greater than the cross-section of the rods so the volume between the two conductors is mostly full of air, thereby obtaining reduced permittivity and thus increased propagation velocity. The invention is applicable to data transmission cables for computer machines.

[origin: US5286923A] One embodiment comprises: - two parallel bare conductors (2, 3) made from bronze; - two insulating rods (1, 4) which have a helical shape having non-contiguous turns; the two rods being nested so that they maintain a predetermined distance between the two conductors (2, 3); - an insulating protective jacket (5). As the pitch of the helical shape of the rods is very much greater than the diameter of their cross-section, the volume separating the two conductors (2, 3) is largely filled by air, which results in a reduced permittivity and therefore a high propagation velocity. Application to data-transmission cables for computational machines. <IMAGE>

IPC 1-7

H01B 11/00; **H01B 7/02**

IPC 8 full level

H01B 7/02 (2006.01); **H01B 11/00** (2006.01)

CPC (source: EP US)

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Cited by

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