

Title (en)
MASS TERMINABLE FLAT CABLE AND CABLE ASSEMBLY INCORPORATING THE CABLE

Publication
EP 0226779 A3 19890301 (EN)

Application
EP 86115415 A 19861106

Priority
US 79899785 A 19851118

Abstract (en)
[origin: EP0226779A2] A flat cable for use with a mass termination connector having a plurality of regularly spaced terminal elements. The flat cable includes a laminated carrier film and a plurality of discrete conductors held in regularly spaced parallel relationship by the carrier film to match the terminal element spacing of the connector. Each conductor has an insulating jacket made of a thermoplastic material. The carrier film includes an attachment layer of thermoplastic insulation having a melting temperature similar to that of the jacket material, and a dimensional stabilization layer made of an insulative material having a melting temperature higher than those of the attachment layer and the jacket material and displaying dimensional stability at the melting temperatures of the attachment layer and jacket material. The jackets of the conductor are fused to the attachment layer, and the attachment layer is held by the stabilization layer. The carrier film can be longitudinally discontinuous to form first cable sections where the conductors are held parallel for ease of termination, and second cable sections where the conductors are not held to increase flexibility and reduce weight. The cable can also be formed into a round configuration to provide advantages during routing. A method of manufacturing this cable is also disclosed.

IPC 1-7
H01B 7/08

IPC 8 full level
H01B 7/00 (2006.01); **H01B 7/08** (2006.01)

CPC (source: EP)
H01B 7/0846 (2013.01); **H01B 7/0876** (2013.01)

Citation (search report)
• [Y] US 3459878 A 19690805 - GRESSITT TILLMAN J, et al
• [Y] US 3579823 A 19710525 - GRESSITT TILLMAN J
• [Y] FR 2240602 A1 19750307 - RISTS WIRES & CABLES LTD [GB]
• [A] US 3511728 A 19700512 - FREEMAN JAMES H, et al
• [A] US 4443277 A 19840417 - ROKAS BERNARD E [CA]

Cited by
EP0888625A4; US5571035A; AU688593B2; CN1076891C; WO9613878A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0226779 A2 19870701; EP 0226779 A3 19890301; CA 1281090 C 19910305; JP S62126505 A 19870608

DOCDB simple family (application)
EP 86115415 A 19861106; CA 521426 A 19861024; JP 27509386 A 19861118