

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: H01B 7/28	A1	(11) International Publication Number: WO 99/13478 (43) International Publication Date: 18 March 1999 (18.03.99)
(21) International Application Number: PCT/GB98/02707 (22) International Filing Date: 9 September 1998 (09.09.98) (30) Priority Data: 9719253.8 11 September 1997 (11.09.97) GB (71) Applicant (for all designated States except US): BICC PUBLIC LIMITED COMPANY [GB/GB]; Devonshire House, Mayfair Place, London W1X 5FH (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): KING, Stephen, Maurice [GB/GB]; 46 Childsbridge Lane, Kemsing, Sevenoaks, Kent TN15 6QR (GB). (74) Agent: POOLE, Michael, John; BICC Patents & Licensing Dept., Quantum House, Maylands Avenue, Hemel Hempstead, Hertfordshire HP2 7DE (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: ELECTRIC POWER CABLES		
(57) Abstract An electric power cable of the kind having at least one metallic conductor, optionally a conductor screen of semiconductive material, and insulation all enclosed in an earth screen comprising wires or narrow tapes and a sheath comprising polymeric material is characterised by a sheath construction comprising a first extruded polymeric layer which encloses the earth screen of the cable without filling the gaps between the components thereof (the wires or strips), a second extruded polymeric layer enclosing the first and between them a moisture barrier laminate comprising a metal foil layer coated on one of its major faces with a polymeric material compatible with the material of the extruded layer it contacts and bonded to that extruded layer only. This increases the resistance of the cable to impact, compared with constructions in which a moisture barrier foil layer is applied directly over the screen wires, and increases flexibility and reduces cost compared with constructions in which the foil is bonded to both extruded layers.		

