

ABSTRACT

WATER PENETRATION DETECTING APPARATUS

5 An apparatus for detecting water penetration into an optical fibre
transmission cable comprises a housing 10 with a plurality of holes 11 for
passing water, a water-absorbent material 5 disposed around the core 1 of the
optical fibre transmission cable in the housing 10, a plurality of grooves 3
formed on the peripheral surface of the core 1, and an optical fibre 7 wound
10 around the core 1, wherein the water absorbent material 5 expands
volumetrically so as to apply a pressure to the optical fibre 7 to bend it into
the plurality of grooves 3.

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Figure 1

This Sheet Has Been Replaced

