8. Fire protection arrangement (20) according to claim 1, wherein the material of the third layer (23) is a compound with low smoke emission and halogen-free.

9. Fire protection arrangement (20) according to claim 1, wherein the material of the third layer (23) is a halogen compound.

10. Fire protection arrangement (20) according to claim 1, wherein said arrangement is adapted so that, when the cable is exposed to fire by hydrocarbons reaching temperature values over 1100°C, the third layer (23) deteriorates, and the fireproof compound that forms the first layer (21) changes state transforming into a ceramic material, increasing its volume by up to 200%, causing during said transformation its exit through a plurality of orifices (25) present in the second layer (22), with the ceramified compound being retained over the core (10) so that it insulates and protects said core (10) from fire.

11. Low-voltage or medium-voltage instrumentation cable, comprising a fire protection arrangement defined in any of claims 1 to 10.

12. Use of a cable defined according to claim 11, in installations for instrumentation, communication, control systems, power systems, emergency and alarm systems, where said installations are located in areas where resistance to fire generated by hydrocarbons is vital.