

ABSTRACT

A sealed electrical plug comprises at least one temperature sensor for monitoring an internal temperature of the electrical plug. The electrical plug further comprises data cables that are wrapped by a shield for screening electrical noises so as to accurately acquire and transmit temperature data. The electrical plug further comprises a housing or holder for receiving the at least one temperature sensor, and the housing is capable of being embedded within an inner mold of the electrical plug and positioned close to at least one pin. One or more seals may be placed at junctions between the at least one pin and the inner mold and cables for the data cables to seal the inner mold from air, moisture and particles.